APPENDIX G

Air Quality Supporting Documentation

G.1 Quarterly Wind Roses
G.2 Control Technology Database
G.3 Construction and Operations Phase Emissions
G.4 Class II Area Dispersion Modeling Protocol
G.5 Class I Area Dispersion Modeling Protocol
G.6 Air Quality - Public Health and Visible Plume Modeling Files (CD-ROM)
G.7 Public Health Residential, Worker and Sensitive Receptors List

APPENDIX G.1

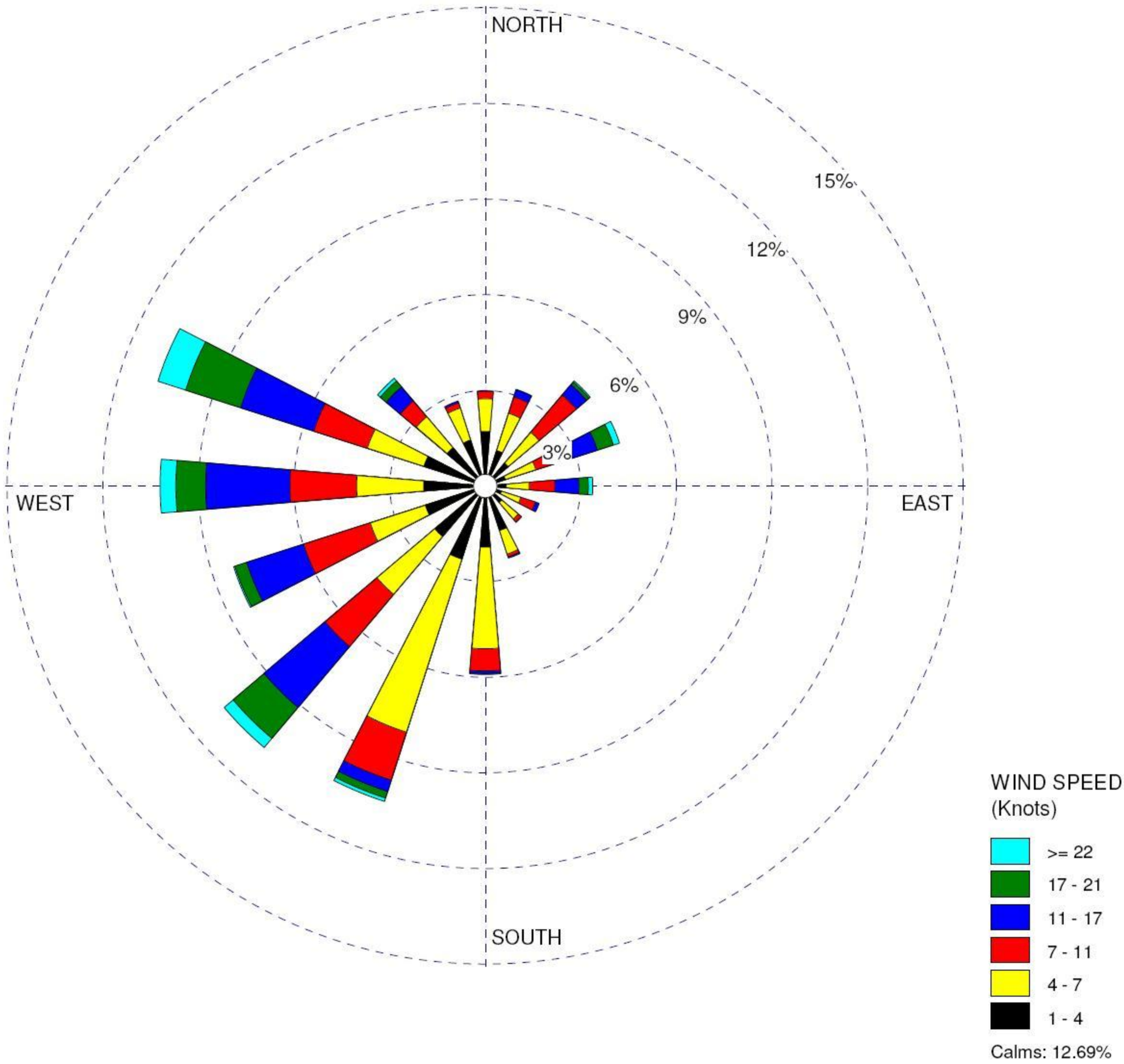
Quarterly Wind Roses

WIND ROSE PLOT:

Palmdale Regional Airport
Wind Rose for 2002-2004 -1st Quarter (Jan-Mar)

DISPLAY:

Wind Speed
Direction (blowing from)



COMMENTS:	DATA PERIOD:	COMPANY NAME:	
	2002 2003 2004 **Jan 1 - Mar 31** **00:00 - 23:00**	**ENSR**	
		MODELER: **Rich Hamel**	PALMDALE a place to call home Inland Energy, Inc. ENSR | AECOM
	CALM WINDS: **12.69%**	TOTAL COUNT: **6476 hrs.**	
	AVG. WIND SPEED: **7.33 Knots**	DATE: **7/21/2008**	PROJECT NO.:

Station ID: 72382
Year: 2002 2003 2004
Date Range: Jan 1 - Mar 31
Time Range: 00:00 - 23:00

Run ID:

Frequency Distribution
(Count)

Wind Direction (Blowing From) / Wind Speed (Knots)

	1 - 4	4 - 7	7 - 11	11 - 17	17 - 21	>= 22	Total
348.75-11.25	111	66	15	1	0	0	193
11.25-33.75	76	79	35	15	1	0	206
33.75-56.25	61	82	99	27	7	3	279
56.25-78.75	43	65	76	55	34	13	286
78.75-101.25	43	46	52	49	19	9	218
101.25-123.75	35	41	31	8	0	0	115
123.75-146.25	44	44	8	1	0	0	97
146.25-168.75	95	50	6	3	0	0	154
168.75-191.25	124	206	45	5	2	0	382
191.25-213.75	156	368	102	24	14	7	671
213.75-236.25	134	154	138	162	82	24	694
236.25-258.75	128	117	142	121	25	3	536
258.75-281.25	125	136	135	171	60	32	659
281.25-303.75	131	120	114	156	117	59	697
303.75-326.25	102	82	42	37	16	7	286
326.25-348.75	98	68	11	4	0	0	181
Total	1506	1724	1051	839	377	157	6476

Frequency of Calm Winds: 822
Average Wind Speed: 7.33 Knots

Station ID: 72382
Year: 2002 2003 2004
Date Range: Jan 1 - Mar 31
Time Range: 00:00 - 23:00

Run ID:

Frequency Distribution
(Normalized)

Wind Direction (Blowing From) / Wind Speed (Knots)

	1 - 4	4 - 7	7 - 11	11 - 17	17 - 21	>= 22	Total
348.75-11.25	0.017140	0.010191	0.002316	0.000154	0.000000	0.000000	0.029802
11.25-33.75	0.011736	0.012199	0.005405	0.002316	0.000154	0.000000	0.031810
33.75-56.25	0.009419	0.012662	0.015287	0.004169	0.001081	0.000463	0.043082
56.25-78.75	0.006640	0.010037	0.011736	0.008493	0.005250	0.002007	0.044163
78.75-101.25	0.006640	0.007103	0.008030	0.007566	0.002934	0.001390	0.033663
101.25-123.75	0.005405	0.006331	0.004787	0.001235	0.000000	0.000000	0.017758
123.75-146.25	0.006794	0.006794	0.001235	0.000154	0.000000	0.000000	0.014978
146.25-168.75	0.014670	0.007721	0.000926	0.000463	0.000000	0.000000	0.023780
168.75-191.25	0.019148	0.031810	0.006949	0.000772	0.000309	0.000000	0.058987
191.25-213.75	0.024089	0.056825	0.015750	0.003706	0.002162	0.001081	0.103613
213.75-236.25	0.020692	0.023780	0.021309	0.025015	0.012662	0.003706	0.107165
236.25-258.75	0.019765	0.018067	0.021927	0.018684	0.003860	0.000463	0.082767
258.75-281.25	0.019302	0.021001	0.020846	0.026405	0.009265	0.004941	0.101760
281.25-303.75	0.020229	0.018530	0.017603	0.024089	0.018067	0.009111	0.107628
303.75-326.25	0.015750	0.012662	0.006485	0.005713	0.002471	0.001081	0.044163
326.25-348.75	0.015133	0.010500	0.001699	0.000618	0.000000	0.000000	0.027949
Total	0.232551	0.266214	0.162292	0.129555	0.058215	0.024243	0.873070

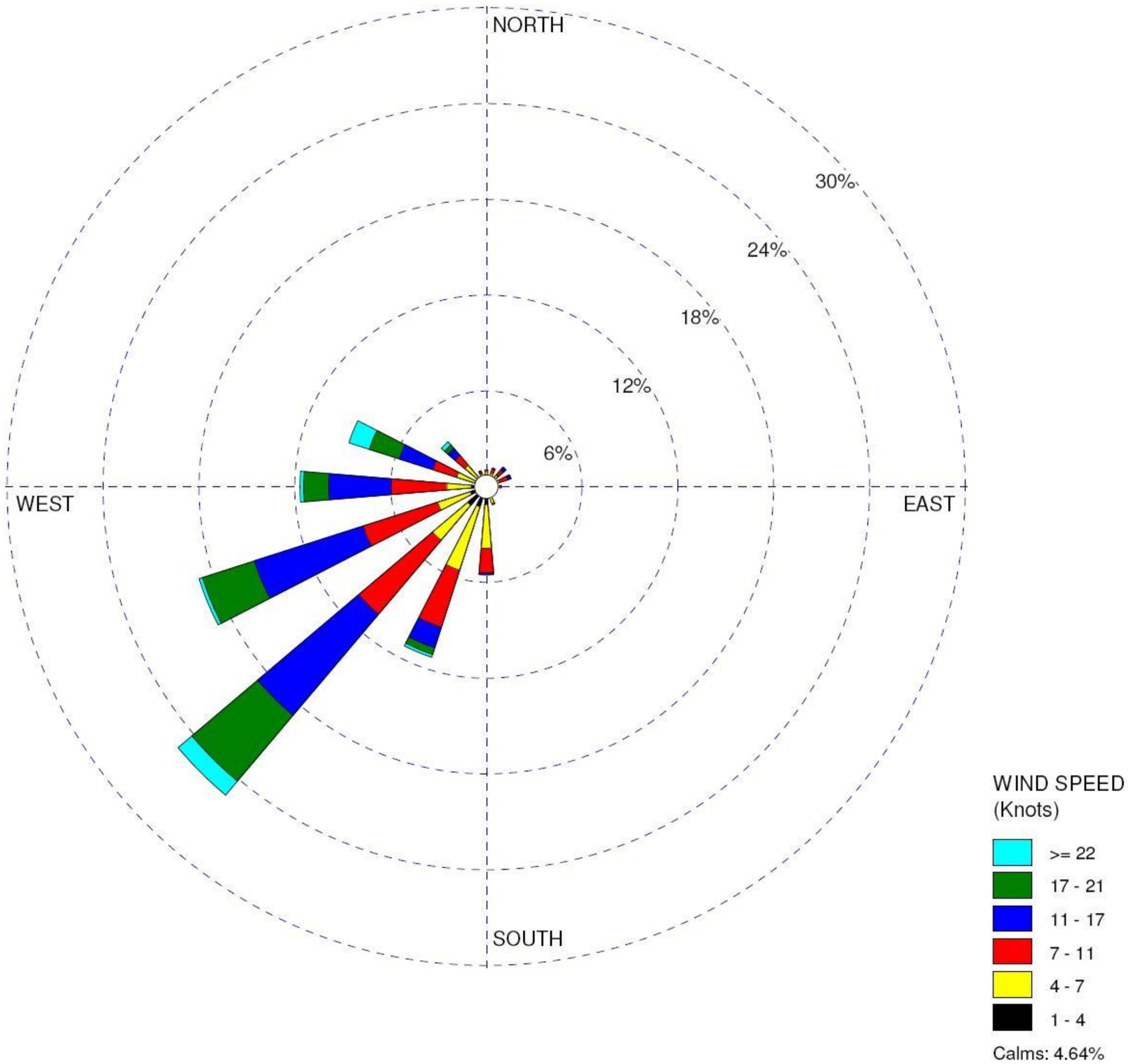
Frequency of Calm Winds: 12.69%
Average Wind Speed: 7.33 Knots

WIND ROSE PLOT:

Palmdale Regional Airport
Wind Rose for 2002-2004 -2nd Quarter (Apr-Jun)

DISPLAY:

Wind Speed
Direction (blowing from)



COMMENTS:	DATA PERIOD:	COMPANY NAME:	
	2002 2003 2004 **Apr 1 - Jun 30** **00:00 - 23:00**	**ENSR**	
		MODELER: **Rich Hamel**	PALMDALE a place to call home Inland Energy, Inc. ENSR | AECOM
	CALM WINDS: **4.64%**	TOTAL COUNT: **6440 hrs.**	
	AVG. WIND SPEED: **10.45 Knots**	DATE: **7/21/2008**	PROJECT NO.:

WRPLOT View - Lakes Environmental Software

Station ID: 72382
Year: 2002 2003 2004
Date Range: Apr 1 - Jun 30
Time Range: 00:00 - 23:00

Run ID:

Frequency Distribution
(Count)

Wind Direction (Blowing From) / Wind Speed (Knots)

	1 - 4	4 - 7	7 - 11	11 - 17	17 - 21	>= 22	Total
348.75-11.25	30	32	7	0	0	0	69
11.25-33.75	24	37	15	4	0	0	80
33.75-56.25	25	38	28	13	1	0	105
56.25-78.75	20	37	35	11	3	0	106
78.75-101.25	18	30	13	1	0	0	62
101.25-123.75	20	15	8	1	0	0	44
123.75-146.25	20	16	6	0	0	0	42
146.25-168.75	44	28	6	0	0	0	78
168.75-191.25	73	176	98	7	2	0	356
191.25-213.75	85	268	241	87	28	12	721
213.75-236.25	98	185	390	532	347	74	1626
236.25-258.75	67	139	314	460	220	14	1214
258.75-281.25	61	99	223	251	101	15	750
281.25-303.75	49	77	100	142	127	86	581
303.75-326.25	37	76	51	38	19	17	238
326.25-348.75	24	31	9	5	0	0	69
Total	695	1284	1544	1552	848	218	6440

Frequency of Calm Winds: 299
Average Wind Speed: 10.45 Knots

Station ID: 72382
Year: 2002 2003 2004
Date Range: Apr 1 - Jun 30
Time Range: 00:00 - 23:00

Run ID:

Frequency Distribution
(Normalized)

Wind Direction (Blowing From) / Wind Speed (Knots)

	1 - 4	4 - 7	7 - 11	11 - 17	17 - 21	>= 22	Total
348.75-11.25	0.004658	0.004969	0.001087	0.000000	0.000000	0.000000	0.010714
11.25-33.75	0.003727	0.005745	0.002329	0.000621	0.000000	0.000000	0.012422
33.75-56.25	0.003882	0.005901	0.004348	0.002019	0.000155	0.000000	0.016304
56.25-78.75	0.003106	0.005745	0.005435	0.001708	0.000466	0.000000	0.016460
78.75-101.25	0.002795	0.004658	0.002019	0.000155	0.000000	0.000000	0.009627
101.25-123.75	0.003106	0.002329	0.001242	0.000155	0.000000	0.000000	0.006832
123.75-146.25	0.003106	0.002484	0.000932	0.000000	0.000000	0.000000	0.006522
146.25-168.75	0.006832	0.004348	0.000932	0.000000	0.000000	0.000000	0.012112
168.75-191.25	0.011335	0.027329	0.015217	0.001087	0.000311	0.000000	0.055280
191.25-213.75	0.013199	0.041615	0.037422	0.013509	0.004348	0.001863	0.111957
213.75-236.25	0.015217	0.028727	0.060559	0.082609	0.053882	0.011491	0.252484
236.25-258.75	0.010404	0.021584	0.048758	0.071429	0.034161	0.002174	0.188509
258.75-281.25	0.009472	0.015373	0.034627	0.038975	0.015683	0.002329	0.116460
281.25-303.75	0.007609	0.011957	0.015528	0.022050	0.019720	0.013354	0.090217
303.75-326.25	0.005745	0.011801	0.007919	0.005901	0.002950	0.002640	0.036957
326.25-348.75	0.003727	0.004814	0.001398	0.000776	0.000000	0.000000	0.010714
Total	0.107919	0.199379	0.239752	0.240994	0.131677	0.033851	0.953571

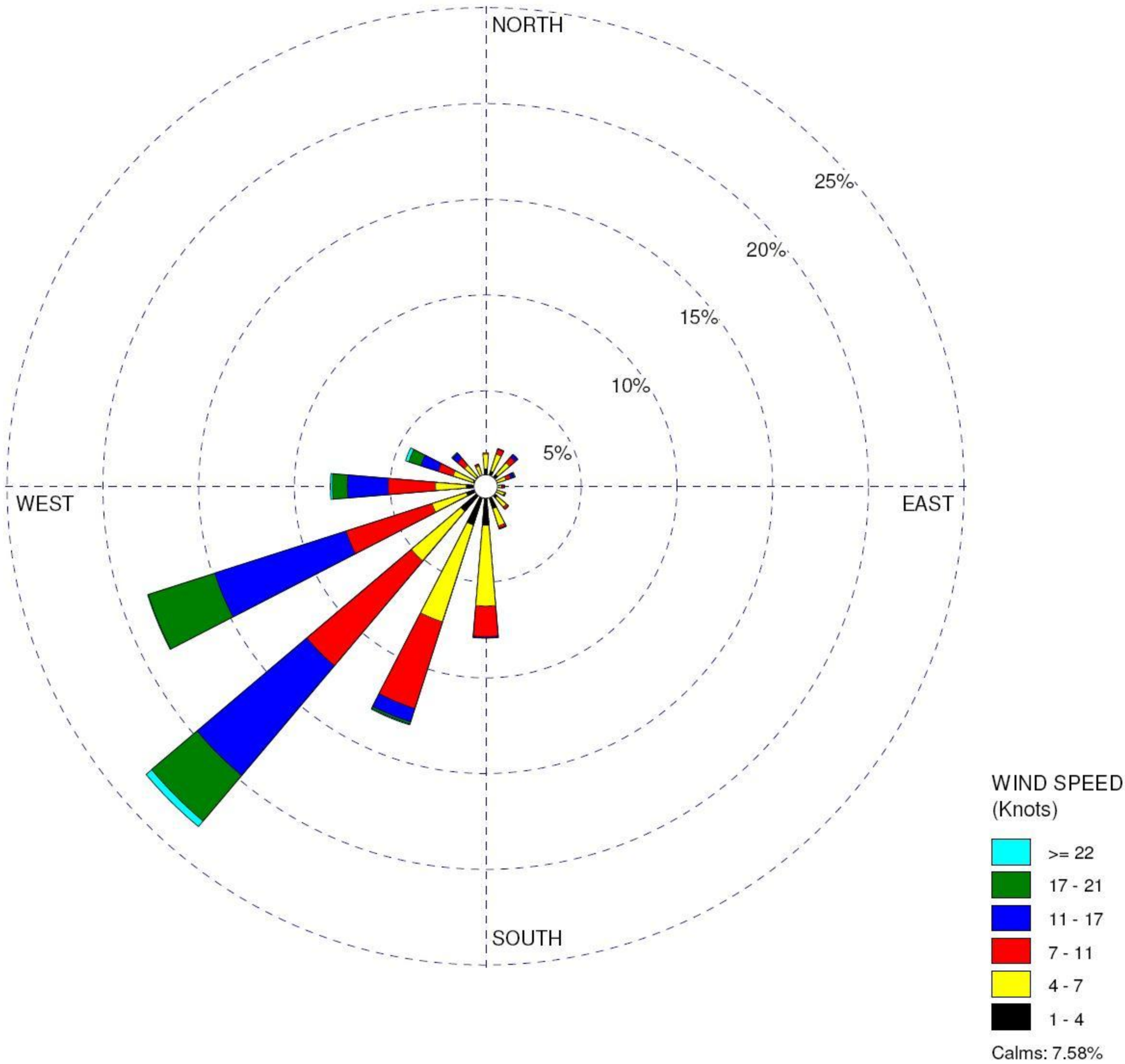
Frequency of Calm Winds: 4.64%
Average Wind Speed: 10.45 Knots

WIND ROSE PLOT:

Palmdale Regional Airport
Wind Rose for 2002-2004 -3rd Quarter (Jul-Sep)

DISPLAY:

Wind Speed
Direction (blowing from)



COMMENTS:	DATA PERIOD:	COMPANY NAME:	
	2002 2003 2004 **Jul 1 - Sep 30** **00:00 - 23:00**	**ENSR**	
		MODELER: **Rich Hamel**	PALMDALE a place to call home Inland Energy, Inc. ENSR | AECOM
	CALM WINDS: **7.58%**	TOTAL COUNT: **6528 hrs.**	
	AVG. WIND SPEED: **8.63 Knots**	DATE: **7/21/2008**	PROJECT NO.:

WRPLOT View - Lakes Environmental Software

Station ID: 72382
Year: 2002 2003 2004
Date Range: Jul 1 - Sep 30
Time Range: 00:00 - 23:00

Run ID:

Frequency Distribution
(Count)

Wind Direction (Blowing From) / Wind Speed (Knots)

	1 - 4	4 - 7	7 - 11	11 - 17	17 - 21	>= 22	Total
348.75-11.25	59	51	5	0	0	0	115
11.25-33.75	55	61	18	2	0	0	136
33.75-56.25	53	54	24	12	1	0	144
56.25-78.75	31	42	17	11	5	0	106
78.75-101.25	28	27	5	5	0	0	65
101.25-123.75	34	34	3	1	0	0	72
123.75-146.25	51	42	9	1	0	0	103
146.25-168.75	79	63	8	2	1	0	153
168.75-191.25	133	274	104	4	1	0	516
191.25-213.75	138	346	309	48	8	3	852
213.75-236.25	110	222	466	489	203	25	1515
236.25-258.75	69	123	307	469	238	2	1208
258.75-281.25	66	105	161	139	51	7	529
281.25-303.75	45	72	53	62	43	12	287
303.75-326.25	43	52	31	21	4	0	151
326.25-348.75	39	34	6	2	0	0	81
Total	1033	1602	1526	1268	555	49	6528

Frequency of Calm Winds: 495
Average Wind Speed: 8.63 Knots

Station ID: 72382
Year: 2002 2003 2004
Date Range: Jul 1 - Sep 30
Time Range: 00:00 - 23:00

Run ID:

Frequency Distribution
(Normalized)

Wind Direction (Blowing From) / Wind Speed (Knots)

	1 - 4	4 - 7	7 - 11	11 - 17	17 - 21	>= 22	Total
348.75-11.25	0.009038	0.007813	0.000766	0.000000	0.000000	0.000000	0.017616
11.25-33.75	0.008425	0.009344	0.002757	0.000306	0.000000	0.000000	0.020833
33.75-56.25	0.008119	0.008272	0.003676	0.001838	0.000153	0.000000	0.022059
56.25-78.75	0.004749	0.006434	0.002604	0.001685	0.000766	0.000000	0.016238
78.75-101.25	0.004289	0.004136	0.000766	0.000766	0.000000	0.000000	0.009957
101.25-123.75	0.005208	0.005208	0.000460	0.000153	0.000000	0.000000	0.011029
123.75-146.25	0.007813	0.006434	0.001379	0.000153	0.000000	0.000000	0.015778
146.25-168.75	0.012102	0.009651	0.001225	0.000306	0.000153	0.000000	0.023438
168.75-191.25	0.020374	0.041973	0.015931	0.000613	0.000153	0.000000	0.079044
191.25-213.75	0.021140	0.053002	0.047335	0.007353	0.001225	0.000460	0.130515
213.75-236.25	0.016850	0.034007	0.071385	0.074908	0.031097	0.003830	0.232077
236.25-258.75	0.010570	0.018842	0.047028	0.071844	0.036458	0.000306	0.185049
258.75-281.25	0.010110	0.016085	0.024663	0.021293	0.007813	0.001072	0.081036
281.25-303.75	0.006893	0.011029	0.008119	0.009498	0.006587	0.001838	0.043964
303.75-326.25	0.006587	0.007966	0.004749	0.003217	0.000613	0.000000	0.023131
326.25-348.75	0.005974	0.005208	0.000919	0.000306	0.000000	0.000000	0.012408
Total	0.158241	0.245404	0.233762	0.194240	0.085018	0.007506	0.924173

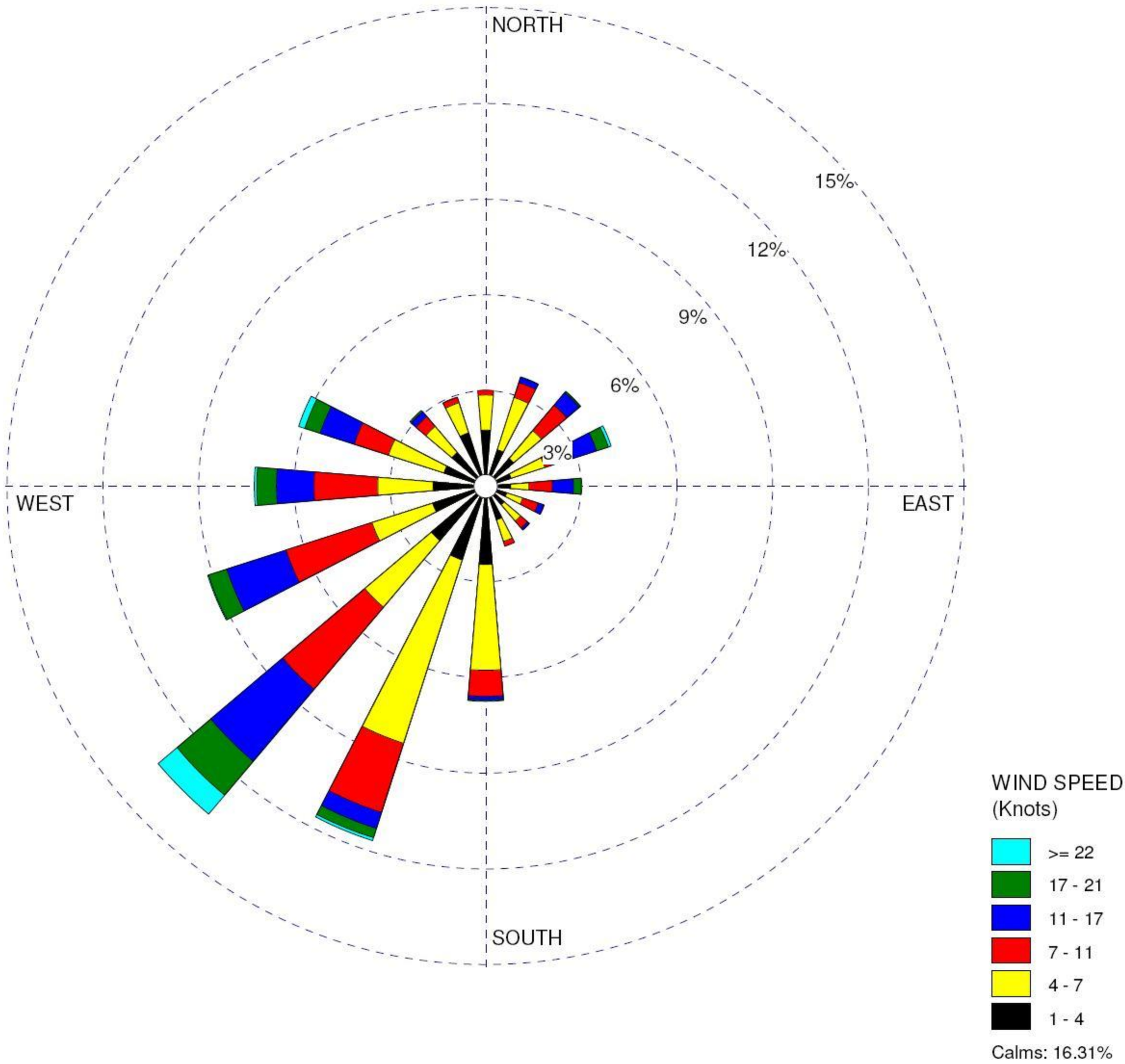
Frequency of Calm Winds: 7.58%
Average Wind Speed: 8.63 Knots

WIND ROSE PLOT:

Palmdale Regional Airport
Wind Rose for 2002-2004 -4th Quarter (Oct-Dec)

DISPLAY:

Wind Speed
Direction (blowing from)



COMMENTS:	DATA PERIOD:	COMPANY NAME:	
	2002 2003 2004 **Oct 1 - Dec 31** **00:00 - 23:00**	**ENSR**	
		MODELER: **Rich Hamel**	PALMDALE a place to call home Inland Energy, Inc. ENSR | AECOM
	CALM WINDS: **16.31%**	TOTAL COUNT: **6480 hrs.**	
	AVG. WIND SPEED: **6.56 Knots**	DATE: **7/21/2008**	PROJECT NO.:

Station ID: 72382
Year: 2002 2003 2004
Date Range: Oct 1 - Dec 31
Time Range: 00:00 - 23:00

Run ID:

Frequency Distribution
(Count)

Wind Direction (Blowing From) / Wind Speed (Knots)

	1 - 4	4 - 7	7 - 11	11 - 17	17 - 21	>= 22	Total
348.75-11.25	114	71	10	0	0	0	195
11.25-33.75	78	111	32	11	0	1	233
33.75-56.25	74	74	67	33	3	1	252
56.25-78.75	54	72	47	63	25	6	267
78.75-101.25	51	37	47	43	16	1	195
101.25-123.75	45	34	33	12	0	1	125
123.75-146.25	49	44	18	5	1	0	117
146.25-168.75	72	46	10	0	0	0	128
168.75-191.25	159	214	53	7	2	1	436
191.25-213.75	157	390	147	34	20	6	754
213.75-236.25	144	177	218	191	90	50	870
236.25-258.75	113	129	183	126	39	2	592
258.75-281.25	107	112	129	76	40	5	469
281.25-303.75	89	118	73	72	33	13	398
303.75-326.25	90	69	26	13	4	0	202
326.25-348.75	114	64	11	1	0	0	190
Total	1510	1762	1104	687	273	87	6480

Frequency of Calm Winds: 1057
Average Wind Speed: 6.56 Knots

Station ID: 72382
Year: 2002 2003 2004
Date Range: Oct 1 - Dec 31
Time Range: 00:00 - 23:00

Run ID:

Frequency Distribution
(Normalized)

Wind Direction (Blowing From) / Wind Speed (Knots)

	1 - 4	4 - 7	7 - 11	11 - 17	17 - 21	>= 22	Total
348.75-11.25	0.017593	0.010957	0.001543	0.000000	0.000000	0.000000	0.030093
11.25-33.75	0.012037	0.017130	0.004938	0.001698	0.000000	0.000154	0.035957
33.75-56.25	0.011420	0.011420	0.010340	0.005093	0.000463	0.000154	0.038889
56.25-78.75	0.008333	0.011111	0.007253	0.009722	0.003858	0.000926	0.041204
78.75-101.25	0.007870	0.005710	0.007253	0.006636	0.002469	0.000154	0.030093
101.25-123.75	0.006944	0.005247	0.005093	0.001852	0.000000	0.000154	0.019290
123.75-146.25	0.007562	0.006790	0.002778	0.000772	0.000154	0.000000	0.018056
146.25-168.75	0.011111	0.007099	0.001543	0.000000	0.000000	0.000000	0.019753
168.75-191.25	0.024537	0.033025	0.008179	0.001080	0.000309	0.000154	0.067284
191.25-213.75	0.024228	0.060185	0.022685	0.005247	0.003086	0.000926	0.116358
213.75-236.25	0.022222	0.027315	0.033642	0.029475	0.013889	0.007716	0.134259
236.25-258.75	0.017438	0.019907	0.028241	0.019444	0.006019	0.000309	0.091358
258.75-281.25	0.016512	0.017284	0.019907	0.011728	0.006173	0.000772	0.072377
281.25-303.75	0.013735	0.018210	0.011265	0.011111	0.005093	0.002006	0.061420
303.75-326.25	0.013889	0.010648	0.004012	0.002006	0.000617	0.000000	0.031173
326.25-348.75	0.017593	0.009877	0.001698	0.000154	0.000000	0.000000	0.029321
Total	0.233025	0.271914	0.170370	0.106019	0.042130	0.013426	0.836883

Frequency of Calm Winds: 16.31%
Average Wind Speed: 6.56 Knots

APPENDIX G.2

Control Technology Database

Table G.2-1
CEC Database Natural Gas Fired, Combined-Cycle Combustion Turbines > 100 MW 2001 - 2008

PROJECTS	DOCKET NUMBER	CAPACITY (MW)	LOCATION	NOx	CO	VOC	PM10	SO2	NH3
EL SEGUNDO POWER REDEVELOPMENT PROJECT - DRY COOLING AMENDMENT PROCEEDING - NRG	2000-AFC-14C	560	LOS ANGELES CO.	2.0 PPM, 1-HR AVG	3.0 PPM, 1-HR AVG	2.0 PPM, 1-HR AVG	NOT DETERMINED (N/D)	0.25 GRAINS OF SULFUR/100 DRY SCF	5 PPM, 1-HR AVG
HYBRID GAS-SOLAR - CITY OF VICTORVILLE (500 MW NAT. GAS, 50 MW SOLAR)	2007-AFC-1	563	SAN BERNARDINO CO.	2.0 PPM, 1-HR AVG	3.0 PPM, 1-HR AVG	2.0 PPM, 1-HR AVG	12 LB/HR AT BASE LOAD, 18 LB/HR AT MAXIMUM DUCT FIRING	PIPELINE QUALITY NATURAL GAS	5 PPM, 1-HR AVG
SAN GABRIEL GENERATING STATION - RELIANT	2007-AFC-2	696	SAN BERNARDINO CO.	2.0 PPM, 1-HR AVG	2.0 PPM, 1-HR AVG	2.0 PPM, 1-HR AVG	PIPELINE QUALITY NATURAL GAS	PIPELINE QUALITY NATURAL GAS	5 PPM, 1-HR AVG
CARLSBAD - NRG	2007-AFC-6	558	SAN DIEGO CO.	2.0 PPM, 1-HR AVG	2.0 PPM, 1-HR AVG	2.0 PPM, 1-HR AVG	PIPELINE QUALITY NATURAL GAS	PIPELINE QUALITY NATURAL GAS	
COMMUNITY POWER PLANT - KINGS RIVER CONSERVATION DISTRICT	2007-AFC-7	565	FRESNO CO.	2.0 PPM, 3-HR AVG	2.0 PPM, 3-HR AVG	2.0 PPM, 3-HR AVG	PIPELINE QUALITY NATURAL GAS	PIPELINE QUALITY NATURAL GAS	
AVENAL ENERGY - AVENAL POWER CENTER LLC	2008-AFC-1	600	KINGS CO.	2.0PPMVD	4.0PPMVD	4.0 PPMVD		0.36 GRAINS/100 SCF	
ROSEVILLE COMBINED CYCLE - ROSEVILLE ELECTRIC	2003-AFC-1	160	PLACER CO.	2.0 PPM, 1-HR AVG	4.0 PPM, 3-HR AVG	2.0 PPM	PIPELINE QUALITY NATURAL GAS	PIPELINE QUALITY NATURAL GAS	
INLAND EMPIRE - GE & CALPINE {4}	2001-AFC-17	800	RIVERSIDE CO.	2.0 PPM, 1-HR AVG	4 PPM W/ DUCT FIRING, 3 PPM W/O DUCT FIRING	2.0 PPM			5 PPM, 1-HR AVG
EIF PANOCHE - ENERGY INVESTORS FUND	2006-AFC-5	400	FRESNO CO.	2.5 PPMVD, 1-HR AVG	6.0 PPMVD, 3-HR AVG	2.0 PPMVD	6.00 LB/HR	2.51LB/HR WITH FUEL SULFUR CONTENT OF 1.0 GRAINS/100 SCF	10 PPMVD, 24-HR
COLUSA GENERATION STATION - E&L WESTCOAST	2006-AFC-9	660	COLUSA CO.	2.0 PPM, 3-HR AVG	3.0 PPMVD, 3-HR AVG	2.0 PPMVD	12.9 LB/HR MAXIMUM AT BASE LOAD AND 20.1 LB/HR AT MAXIMUM DUCT FIRING	FUEL SULFUR CONTENT OF 1.0 GRAINS/100 SCF	5 PPMVD
GATEWAY- PG&E (FORMARLY CONTRA COSTA MIRANT)	2000-AFC-1	530	CONTRA COSTA CO.	2.5 PPMVD, 1-HR AVG	6.0 PPMVD, 3-HR AVG	0.0025 LB/MMBTU	0.00588 LB./MMBTU W/O DUCT BURNER, 0.00584 LB./MM BTU WITH DUCT BURNER	0.0028 LB/MMBTU	5 PPM, 3-HR AVG
RUSSELL CITY - CALPINE & GE {5}	2001-AFC-7	600	ALAMEDA CO.	2.5 PPMVD, 1-HR AVG	6.0 PPMVD, 1-HR AVG	1.0 PPM, 1-HR AVG	FUEL SULFUR CONTENT OF LESS THAN 0.25 GRAINS/100 SCF		

Table G.2-2

RBLC Database Natural Gas Fired, Combined-Cycle Combustion Turbines > 25 MW 1/1/2003 - 7/15/2008, Emission Limits for NO_X

RBLCID	FACILITY NAME	CORPORATE OR COMPANY NAME	FACILITY STATE	FACILITY DESCRIPTION	PROCESS NAME	PROC TYPE	FUEL	THRU PUT	THRU PUT UNIT	STD EMISS LIMIT	STD UNIT LIMIT	STD LIMIT AVG TIME CONDITION
NV-0035	TRACY SUBSTATION EXPANSION PROJECT	SIERRA PACIFIC POWER COMPANY	NV	2 - NATURAL GAS FIRED COMBINED CYCLE COMBUSTION TURBINE GENERATORS WITH HRSG"S AND DUCT BURNERS. 2 - NATURAL GAS FIRED FUEL PREHEATERS. 1 - NATURAL GAS FIRED AUXILIARY BOILER	TURBINE, COMBINED CYCLE COMBUSTION #1 WITH HRSG AND DUCT BURNER	15.21	NATURAL GAS	306	MW	2	PPMVD, 15% O2	
NV-0035	TRACY SUBSTATION EXPANSION PROJECT	SIERRA PACIFIC POWER COMPANY	NV	2 - NATURAL GAS FIRED COMBINED CYCLE COMBUSTION TURBINE GENERATORS WITH HRSG"S AND DUCT BURNERS. 2 - NATURAL GAS FIRED FUEL PREHEATERS. 1 - NATURAL GAS FIRED AUXILIARY BOILER	TURBINE, COMBINED CYCLE COMBUSTION #2 WITH HRSG AND DUCT BURNER	15.21	NATURAL GAS	306	MW	2	PPMVD, 15% O2	
*OR-0041	WANAPA ENERGY CENTER	DIAMOND WANAPA I, L.P.	OR	A 1,200 MW NATURAL GAS-FIRED COMBINED CYCLE COMBUSTION TURBINE PROJECT EMPLOYING A WATER-COOLED STEAM CONDENSING SYSTEM. FOUR COMBUSTION TURBINES, FOUR HEAT RECOVERY STEAM GENERATORS, TWO STEAM TURBINES, AND TWO COOLING TOWERS EMPLOYED.	COMBUSTION TURBINE & HEAT RECOVERY STEAM GENERATOR	15.21	NATURAL GAS	2384.1	MMBTU/H	2	PPMVD, 15% O2	
FL-0263	FPL TURKEY POINT POWER PLANT	FLORIDA POWER AND LIGHT	FL	RESPECTIVELY."	170 MW COMBUSTION TURBINE, 4 UNITS	15.21	NATURAL GAS	170	MW	2	PPMVD, 15% O2	
AZ-0047	WELLTON MOHAWK GENERATING STATION	DOME VALLEY ENERGY PARTNERS	AZ	COMBINED CYCLE GAS-FIRED ELECTRICITY GENERATING STATION	COMBUSTION TURBINE GENERATORS AND HEAT RECOVERY STEAM GENERATORS GE7FA TURBINES OPTION	15.21	NATURAL GAS	170	MW	2	PPMVD, 15% O2	
AZ-0047	WELLTON MOHAWK GENERATING STATION	DOME VALLEY ENERGY PARTNERS	AZ	COMBINED CYCLE GAS-FIRED ELECTRICITY GENERATING STATION	COMBUSTION TURBINE GENERATORS AND HEAT RECOVERY STEAM GENERATORS SW501F TURBINES OPTION	15.21	NATURAL GAS	180	MW	2	PPMVD, 15% O2	
VA-0291	CPV WARREN LLC	CPV WARREN LLC	VA	COMBINED CYCLE POWER GENERATION	TURBINE, COMBINED CYCLE (2)	15.21	NATURAL GAS	1717	mmbtu/h	2	PPMVD, 15% O2	
NV-0037	COPPER MOUNTAIN POWER	SEMPRA ENERGY RESOURCES	NV	A 600 MW COMBINED CYCLE ELECTRICAL GENERATION FACILITY CONSISTING OF TWO COMBUSTION TURBINE GENERATORS WITH HEAT RECOVERY STEAM GENERATORS, ONE STEAM TURBINE GENERATOR, AND ONE AUXILIARY BOILER.	LARGE COMBUSTION TURBINES, COMBINED CYCLE & COGENERATION	15.21	NATURAL GAS	600	MW	2	PPMVD, 15% O2	3 hr

Table G.2-2
RBLC Database Natural Gas Fired, Combined-Cycle Combustion Turbines > 25 MW 1/1/2003 - 7/15/2008, Emission Limits for NO_X

RBLCID	FACILITY NAME	CORPORATE OR COMPANY NAME	FACILITY STATE	FACILITY DESCRIPTION	PROCESS NAME	PROC TYPE	FUEL	THRU PUT	THRU PUT UNIT	STD EMISS LIMIT	STD UNIT LIMIT	STD LIMIT AVG TIME CONDITION
NV-0038	IVANPAH ENERGY CENTER, L.P.	IVANPAH ENERGY CENTER, L.P.	NV	A 500 MW ELECTRICAL GENERATING PLANT CONSISTING OF TWO COMBUSTION TURBINE GENERATORS, TWO HEAT RECOVERY STEAM GENERATORS, ONE STEAM TURBINE GENERATOR. THE PROPOSED PLANT IS SURROUNDED BY UNOCCUPIED LAND FOR A DISTANCE OF AT LEAST TWO MILES IN ALL DIRECTIONS. THE UN-IMPROVED ACCESS ROAD TO THE PROPOSED PLANT SITE IS ABOUT 1.6 MILES IN LENGTH.	LARGE COMBUSTION TURBINES, COMBINED CYCLE & COGENERATION	15.21	NATURAL GAS	500	MW	2	PPMVD, 15% O2	1 hr
AZ-0043	DUKE ENERGY ARLINGTON VALLEY (AVEFII)	DUKE ENERGY ARLINGTON VALLEY	AZ	POWER PLANT	TURBINE, COMBINED CYCLE & DUCT BURNER	15.21	NATURAL GAS	325	MW	2	PPMVD, 15% O2	
AZ-0043	DUKE ENERGY ARLINGTON VALLEY (AVEFII)	DUKE ENERGY ARLINGTON VALLEY	AZ	POWER PLANT	TURBINE, COMBINED CYCLE	15.21	NATURAL GAS	325	MW	2	PPMVD, 15% O2	
*AZ-0049	LA PAZ GENERATING FACILITY	ALLEGHENY ENERGY SUPPLY LLC	AZ	NATURAL GAS FIRED, COMBINED CYCLE GENERATING STATION	GE COMBUSTION TURBINES AND HEAT RECOVERY STEAM GENERATORS	15.21	NATURAL GAS	1040	MW	2	PPMVD, 15% O2	3 hr
CA-0997	SACRAMENTO MUNICIPAL UTILITY DISTRICT	SACRAMENTO MUNICIPAL UTILITY DISTRICT	CA	COMBUSTION GAS TURBINE GE 7FA	GAS TURBINES, (2)	15.21	NATURAL GAS	1611	MMBTU/H	2	PPMVD, 15% O2	
CA-1096	VERNON CITY LIGHT & POWER	VERNON CITY LIGHT & POWER	CA		GAS TURBINE: COMBINED CYCLE < 50 MW	15.21	NATURAL GAS	43	MW GAS TURBINE, 55 MW STEAM TURBINE	2	PPMVD, 15% O2	
CA-1097	MAGNOLIA POWER PROJECT, SCPPA	MAGNOLIA POWER PROJECT, SCPPA	CA		GAS TURBINE: COMBINED CYCLE >= 50 MW	15.21	NATURAL GAS	181	NET MW (GAS TURBINE W/STEAM INJECTION)	2	PPMVD, 15% O2	3 hr
WA-0315	SUMAS ENERGY 2 GENERATION FACILITY	SUMAS ENERGY 2 GENERATION FACILITY	WA		TURBINES, COMBINED CYCLE, (2)	15.21	NATURAL GAS	660	MW	2	PPMVD, 15% O2	
AZ-0039	SALT RIVER PROJECT/SANTAN GEN. PLANT	SALT RIVER PROJECT/SANTAN GEN. PLANT	AZ	POWER PLANT	TURBINE, COMBINED CYCLE, DUCT BURNER, NATURAL GAS	15.21	NATURAL GAS	175	MW	2	PPMVD, 15% O2	

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RBLCID	FACILITY NAME	CORPORATE OR COMPANY NAME	FACILITY STATE	FACILITY DESCRIPTION	PROCESS NAME	PROC TYPE	FUEL	THRU PUT	THRU PUT UNIT	STD EMISS LIMIT	STD UNIT LIMIT	STD LIMIT AVG TIME CONDITION
not listed	ROSEVILLE ENERGY PARK	ROSEVILLE ELECTRIC	CA	160 MW, NATURAL GAS-FIRED, COMBINED-CYCLE GENERATING FACILITY LOCATED WEST OF DOWNTOWN ROSEVILLE, IN PLACER COUNTY. IT WILL HAVE TWO GE LM6000 PC SPRINT OR ALSTOM GTX100 CTGs, EQUIPPED WITH WATER INJECTION (LM6000) OR DRY LOW-NOx COMBUSTERS (GTX100), TWO HRSGs WITH DUCT BURNERS, ONE STEAM TURBINE, CONDENSERS AND A MECHANICAL DRAFT COOLING TOWER	TURBINE, COMBINED CYCLE, NATURAL GAS & HEAT RECOVERY STEAM GENERATOR	15.21	NATURAL GAS	160	MW	2	PPMVD	1 hr
not listed	EL CENTRO UNIT 3 REPOWER PROJECT	IMPERIAL IRRIGATION DISTRICT	CA	128 MW, NATURAL GAS-FIRED COMBINED-CYCLE GENERATING FACILITY WITHIN CURRENT EL CENTRO GENERATING STATION, IN IMPERIAL COUNTY. IT WILL ADD A GE 7EA CTG WITH DRY LOW NOX COMBUSTERS AND ONE HRSG WITH DUCT BURNER TO EXISTING FACILITY	TURBINE, COMBINED CYCLE, NATURAL GAS & HEAT RECOVERY STEAM GENERATOR	15.21	NATURAL GAS	128	MW	2	PPMVD	1 hr
not listed	BLYTHE ENERGY PROJECT, PHASE II	CAITHNESS BLYTHE II, LLC	CA	520 MW NATURAL GAS-FIRED COMBINED-CYCLE GENERATING FACILITY ADJACENT TO BLYTHE ENERGY PROJECT PHASE I. IT WILL HAVE TWO SEIMENS WESTINGHOUSE CGTS WITH DRY LOW-NOX COMBUSTERS, TWO HRSGs WITH DUCT BURNERS, ONE STEAM TURBINE, CONDENERS AND A COOLING TOWER	TURBINE, COMBINED CYCLE, NATURAL GAS & HEAT RECOVERY STEAM GENERATOR	15.21	NATURAL GAS	520	MW	2	PPMVD	1 hr
CEC DECISION PENDING	LOS ESTEROS CRITICAL ENERGY FACILITY, PHASE II	LOS ESTEROS CRITICAL ENERGY FACILITY, LLC	CA	CONVERSION OF EXISTING 180 MW SIMPLE-CYCLE POWER PLANT TO A 320 MW COMBINED-CYCLE PLANT WITH ADDITION OF FOUR HRSGs WITH DUCT BURNERS, STEAM TURBINE, CONDENSERS AND A COOLING TOWER	TURBINE, COMBINED CYCLE, NATURAL GAS & HEAT RECOVERY STEAM GENERATOR	15.21	NATURAL GAS	320	MW	2	PPMVD	1 hr
CEC DECISION PENDING	SOUTH BAY REPLACEMENT PROJECT	LSP SOUTH BAY, LLC	CA	REPLACEMENT OF EXISTING FACILITY IN CHULA VISTA IN SAN DIEGO COUNTY WITH A 620 MW NATURAL GAS-FIRED COMBINED-CYCLE PLANT WITH TWO CTGs, TWO HRSGs AND DUCT BURNERS AND STEAM TURBINE	TURBINE, COMBINED CYCLE, NATURAL GAS & HEAT RECOVERY STEAM GENERATOR	15.21	NATURAL GAS	620	MW	2	PPMVD	1 hr
UT-0066	CURRANT CREEK	PACIFICORP	UT	POWER GENERATION PLANT WITH TWO NATURAL GAS COMBINED CYCLE TURBINES	NATURAL GAS FIRED TURBINES AND HEAT RECOVERY STEAM GENERATORS	15.21	NATURAL GAS			2.25	PPMVD, 15% O2	3 hr
FL-0265	HINES POWER BLOCK 4	PROGRESS ENERGY	FL	COMBINED CYCLE POWER PLANT. THIS IS THE 4TH BLOCK OF POWER ADDED, MAKING THE TOTAL GENERATING CAPACITY OF THE FACILITY APPROXIMATELY 2090 MW.	COMBINED CYCLE TURBINE	15.21	NATURAL GAS	530	MW	2.5	PPMVD, 15% O2	
MI-0366	BERRIEN ENERGY, LLC	BERRIEN ENERGY, LLC	MI	ELECTRIC POWER GENERATING FACILITY.	3 COMBUSTION TURBINES AND DUCT BURNERS	15.21	NATURAL GAS	1584	MMBTU/H	2.5	PPMVD, 15% O2	
VA-0289	DUKE ENERGY WYTHE, LLC	DUKE ENERGY WYTHE, LLC	VA	POWER PLANT	TURBINE, COMBINED CYCLE, NATURAL GAS	15.21	NATURAL GAS	170	MW	2.5	PPMVD, 15% O2	

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RBLC Database Natural Gas Fired, Combined-Cycle Combustion Turbines > 25 MW 1/1/2003 - 7/15/2008, Emission Limits for NO_X

RBLCID	FACILITY NAME	CORPORATE OR COMPANY NAME	FACILITY STATE	FACILITY DESCRIPTION	PROCESS NAME	PROC TYPE	FUEL	THRU PUT	THRU PUT UNIT	STD EMISS LIMIT	STD UNIT LIMIT	STD LIMIT AVG TIME CONDITION
VA-0289	DUKE ENERGY WYTHE, LLC	DUKE ENERGY WYTHE, LLC	VA	POWER PLANT	TURBINE, COMBINED CYCLE, DUCT BURNER, NATURAL GAS	15.21	NATURAL GAS	170	MW	2.5	PPMVD, 15% O2	
OR-0039	COB ENERGY FACILITY, LLC	Peoples Energy Resources	OR	POWER GENERATION FACILITY	TURBINE, COMBINED CYCLE, DUCT BURNER, NAT GAS, (4)	15.21	NATURAL GAS	1150	MW	2.5	PPMVD, 15% O2	
VA-0287	JAMES CITY ENERGY PARK	JAMES CITY ENERGY PARK LLC	VA	POWER GENERATING FACILITY	TURBINE, COMBINED CYCLE, NATURAL GAS	15.21	NATURAL GAS	1973	MMBTU/H	2.5	PPMVD, 15% O2	
VA-0287	JAMES CITY ENERGY PARK	JAMES CITY ENERGY PARK LLC	VA	POWER GENERATING FACILITY	TURBINE, COMBINED CYCLE, NATURAL GAS,DUCT BURNER	15.21	NATURAL GAS	1973	MMBTU/H	2.5	PPMVD, 15% O2	
FL-0256	HINES ENERGY COMPLEX, POWER BLOCK 3	PROGRESS ENERGY FLORIDA	FL	POWER PLANT	COMBUSTION TURBINES, COMBINED CYCLE, NATURAL GAS,2	15.21	NATURAL GAS	1830	MMBTU/H	2.5	PPMVD, 15% O2	
GA-0105	MCINTOSH COMBINED CYCLE FACILITY	SAVANNAH ELECTRIC AND POWER CO	GA	ELECTRIC GENERATING FACILITY	TURBINE, COMBINED CYCLE, NATURAL GAS, (4)	15.21	NATURAL GAS	140	MW	2.5	PPMVD, 15% O2	
FL-0244	FPL MARTIN PLANT	FLORIDA POWER & LIGHT	FL	EXISTING POWER PLANT	TURBINE, COMBINED CYLE, NATURAL GAS, (4)	15.21	NATURAL GAS	170	MW	2.5	PPMVD, 15% O2	
FL-0244	FPL MARTIN PLANT	FLORIDA POWER & LIGHT	FL	EXISTING POWER PLANT	TURBINE, COMBINED CYCLE WITH DUCT BURNER, NAT GAS	15.21	NATURAL GAS	170	MW	2.5	PPMVD, 15% O2	
FL-0245	FPL MANATEE PLANT - UNIT 3	FLORIDA POWER & LIGHT	FL	EXISTING POWER PLANT	TURBINE, COMBINED CYCLE, NATURAL GAS (4)	15.21	NATURAL GAS	170	MW	2.5	PPMVD, 15% O2	24 hr
WY-0061	BLACK HILLS CORP./NEIL SIMPSON TWO	BLACK HILLS CORP.	WY	STEAM ELECTRIC GENERATING PLANT	TURBINE, COMBINED CYCLE, & DUCT BURNER	15.21	NATURAL GAS	40	MW	2.5	PPMVD, 15% O2	
OR-0040	KLAMATH GENERATION, LLC	KLAMATH GENERATION, LLC	OR	POWER GENERATION FACILITY	TURBINE, COMBINED CYCLE, DUCT BURNER, NAT GAS (2)	15.21	NATURAL GAS	480	MW	2.5	PPMVD, 15% O2	
WA-0291	WALLULA POWER PLANT	WALLULA GENERATION, LLC	WA	WALLULA GENERATION, LLC, PROPOSES TO CONSTRUCT AND OPERATE A 1,300 MW COMBINED CYCLE ELECTRIC POWER PLANT. THE PROJECT WILL CONSIST OF TWO INDEPENDENT POWER BLOCKS WITH CRITICAL BACK-UP SYSTEMS TO MAINTAIN OVERALL PLANT RELIABILITY AND AVAILABILITY.	TURBINE, COMBINED CYCLE, NATURAL GAS (4)	15.21	NATURAL GAS	1300	MW	2.5	PPMVD, 15% O2	
MN-0053	FAIRBAULT ENERGY PARK	MN MUNICIPAL POWER AGENCY	MN	LARGE COMBUSTION TURBINE ELECTRIC POWER PLANT - INITIAL OPERATION IN SIMPLE CYCLE AND CONVERSION TO COMBINED CYCLE IN THE FUTURE.	TURBINE, COMBINED CYCLE, NATURAL GAS (1)	15.21	NATURAL GAS	1876	MMBTU/H	3	PPMVD, 15% O2	3 hr

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MI-0357	KALKASKA GENERATING, INC	KALKASKA GENERATING LLC	MI	ELECTRICAL POWER PRODUCTION FACILITY.	TURBINE, COMBINED CYCLE, (2)	15.21	NATURAL GAS	605	MW	3	PPMVD, 15% O2	
MI-0361	SOUTH SHORE POWER LLC	SOUTH SHORE POWER LLC	MI	ELECTRIC POWER GENERATING FACILITY.	TURBINE, COMBINED CYCLE, (2)	15.21	NATURAL GAS	172	MW	3	PPMVD, 15% O2	
CO-0056	ROCKY MOUNTAIN ENERGY CENTER, LLC	CALPINE CORP.	CO	NATURAL GAS-FIRED, COMBINED-CYCLE COMBUSTION TURBINES.	NATURAL-GAS FIRED, COMBINED-CYCLE TURBINE	15.21	NATURAL GAS	300	MW	3	PPMVD, 15% O2	
NC-0101	FORSYTH ENERGY PLANT	FORSYTH ENERGY PROJECTS, LLC	NC	THREE COMBINED-CYCLE COMBUSTION TURBINE GENERATORS, EACH WITH A HEAT RECOVERY STEAM GENERATORS (HRSG) ALONG WITH NATURAL GAS-FIRED DUCT BURNERS TO MEET PEAK DEMAND. THE STEAM GENERATED THROUGH THE THREE HRSGS WILL DRIVE A STEAM TURBINE. THE ENTIRE PLANT WILL BE CAPABLE OF GENERATING A NOMINAL POWER OUTPUT OF 812 MEGAWATTS.	TURBINE, COMBINED CYCLE, NATURAL GAS, (3)	15.21	NATURAL GAS	1844.3	MMBTU/H	3	PPMVD, 15% O2	-
LA-0192	CRESCENT CITY POWER	CRESENT CITY POWER, LLC	LA	NEW 600 MW NATURAL GAS-FIRED COMBINED CYCLE POWER PLANT	GAS TURBINES - 187 MW (2)	15.21		2006	MMBTU/H	3	PPM	Annual
OH-0252	DUKE ENERGY HANGING ROCK ENERGY FACILITY	DUKE ENERGY HANGING ROCK, LLC	OH	FOUR NATURAL GAS (NG) FIRED COMBUSTION TURBINES, WITH DUCT BURNERS; COMBINED CYCLE, EACH 172 MW	TURBINES (4) (MODEL GE 7FA), DUCT BURNERS ON	15.21	NATURAL GAS	172	MW	3	PPM @ 15% O2	3 hr
OH-0252	DUKE ENERGY HANGING ROCK ENERGY FACILITY	DUKE ENERGY HANGING ROCK, LLC	OH	FOUR NATURAL GAS (NG) FIRED COMBUSTION TURBINES, WITH DUCT BURNERS; COMBINED CYCLE, EACH 172 MW	TURBINES (4) (MODEL GE 7FA), DUCT BURNERS OFF	15.21	NATURAL GAS	172	MW	3	PPMVD, 15% O2	3 hr
MN-0054	MANKATO ENERGY CENTER		MN	COMBINED CYCLE GAS TURBINE ELECTRIC POWER PLANT. TWO IDENTICAL GE FRAME F7A GAS TURBINES EACH WITH HRSG W/DUCT BURNERS FEEDING STEAM TO COMMON STEAM TURBINES. PRIMARY FUEL IS NG, NO. 2 VERY LOW SULFUR DISTILLATE OIL FOR BACKUP. ALSO, AUX. BOILER, DIESEL EMERGENCY GNERATOR, DIESEL FIRE PUMP, AND 900,000 GAL ABOVE GROUN OIL STORAGE TANK.	COMBUSTION TURBINE, LARGE, 2 EACH	15.21	NATURAL GAS	1916	MMBTU/H	3	PPMVD, 15% O2	

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TX-0374	CHOCOLATE BAYOU PLANT	BP AMOCO CHEMICAL CO	TX	BP AMOCO PROPOSES TO CONSTRUCT A GAS- FIRED STEAM AND ELECTRIC GENERATING FACILITY. THE PROPOSED PROJECT WILL BE CALLED THE GREEN POWER UNIT ONE. THE PROJECT WILL CONSIST OF TWO DUAL SHAFT GAS-FIRED ELECTRIC GENERATING TURBINES EACH RATED AT APPROX. 35 MW (BASE LOAD), EACH TURBINE WILL HAVE A HEAT RECOVERY STEAM GENERATOR (HRSG) EQUIPPED WITH 312 MMBTU/H DUCT BURNERS. GREEN POWER UNIT ONE WILL BE CAPABLE OF PRODUCING AN ESTIMATED NOMINAL 70 MW OF ELECTRICITY. STEAM PRODUCED IN THE HRSGS WILL BE USED IN THE CHOCOLATE BAYOU WORKS CHEMICAL COMPLEX. THE CHEMICAL COMPLEX WILL CONSUME APPROX. HALF OF THE ELECTRICAL OUTPUT PRODUCED BY THE TWO NEW TURBINES. EXCESS POWER PRODUCED BY THE COMBUSTION TURBINES WILL BE SOLD TO THE GRID. THE COMBUSTION TURBINES WILL ONLY BURN PIPELINE QUALITY SWEET NAT GAS. THE DUCT BURNERS WILL BURN NAT GAS, COMPLEX GAS, OR MIXTURES OF NAT GAS AND COMPLEX GAS.	(2) COGENERATION TRAINS 2 & 3, GT-2 & 3	15.21	NAT GAS	70	MW, TOTAL	3.5	PPMVD, 15% O2	
MI-0365	MIRANT WYANDOTTE LLC	MIRANT WYANDOTTE LLC	MI	COMBINED CYCLE POWER PLANT.	TURBINE, COMBINED CYCLE, (2)	15.21	NATURAL GAS	2200	MMBTU/H	3.5	PPMVD, 15% O2	
MS-0073	RELIANT ENERGY CHOCTAW COUNTY, LLC		MS	THREE GE COMBINE CYCLE TURBINED RATED @ 230 MEGAWATTS EACH WITH SCR FOR POLLUTION CONTROL	EMISSION POINT AA-001 GEN. ELEC. COMBUST. TURBINE	15.21	NATURAL GAS	230	MW	3.5	PPMVD, 15% O2	
MS-0073	RELIANT ENERGY CHOCTAW COUNTY, LLC		MS	THREE GE COMBINE CYCLE TURBINED RATED @ 230 MEGAWATTS EACH WITH SCR FOR POLLUTION CONTROL	EMISSION POINT AA-002 GEN ELEC. COMB. TURBINE	15.21		230	MW	3.5	PPMVD, 15% O2	
MS-0073	RELIANT ENERGY CHOCTAW COUNTY, LLC		MS	THREE GE COMBINE CYCLE TURBINED RATED @ 230 MEGAWATTS EACH WITH SCR FOR POLLUTION CONTROL	EMISSION POINT AA-003 GEN. ELEC COMB TURBINES	15.21		230	MW	3.5	PPMVD, 15% O2	
*NE-0023	BEATRICE POWER STATION	NEBRASKA PUBLIC POWER DISTRICT	NE	PERMIT TO CONSTRUCT: 2-NG TURBINES, 250 MW TOTAL AND ONE AUX. BOILER, 73 MMBTU/HR, OIL FIRED	2-COMBUSTION TURBINES W/ DUCT BURNER	15.21	NATURAL GAS	250	MW	3.5	PPMVD, 15% O2	
OH-0254	DUKE ENERGY WASHINGTON COUNTY LLC	DUKE ENERGY NORTH AMERICA	OH	TWO 170 MW NATURAL GAS-FIRED COMBUSTION TURBINES, COMBINED CYCLE	TURBINES (2) (MODEL GE 7FA), DUCT BURNERS ON	15.21	NATURAL GAS	170	MW	3.5	PPMVD, 15% O2	
OH-0254	DUKE ENERGY WASHINGTON COUNTY LLC	DUKE ENERGY NORTH AMERICA	OH	TWO 170 MW NATURAL GAS-FIRED COMBUSTION TURBINES, COMBINED CYCLE	TURBINES (2) (MODEL GE 7FA), DUCT BURNERS OFF	15.21	NATURAL GAS	170	MW	3.5	PPMVD, 15% O2	
OK-0096	REDBUD POWER PLANT	REDBUD ENERGY LP	OK	ELECTRICITY GENERATION	COMBUSTION TURBINE AND DUCT BURNERS	15.21	NATURAL GAS	1832	MMBTU/H	3.5	PPMVD, 15% O2	

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NE-0017	BEATRICE POWER STATION	NEBRASKA PUBLIC POWER DISTRICT	NE	ELECTRIC GENERATING FACILITY	TURBINE, COMBINED CYCLE, (2)	15.21	NATURAL GAS	80	MW	3.5	PPMVD, 15% O2	24 hr
OK-0090	DUKE ENERGY STEPHENS, LLC STEPHENS ENERGY	DUKE ENERGY	OK	MERCHANT POWER PLANT - NOMINAL TOTAL OF 620 MW.	TURBINES, COMBINED CYCLE (2)	15.21	NATURAL GAS	1701	MMBTU/H	3.5	PPMVD, 15% O2	
NV-0033	EL DORADO ENERGY, LLC	EL DORADO ENERGY, LLC	NV	THE FACILITY CONSIST OF TWO COMBUSTION TURBINE GENERATORS (CTGS) TWO HEAT RECOVERY STEAM GENERATORS (HRSGS) AND ONE STEAM TURBINE GENERATOR. THE FACILITY IS LOCATED IN AN ATTAINMENT AREA FOR ALL CRITERIA AIR POLLUTANTS. INSIGNIFICAN EMISSION UNITS INCLUDE A 140 HP EMERGENCY FIRE -WATER PUMP AND A WET SURFACE AIR COOLER.	COMBUSTION TURBINE, COMBINED CYCLE & COGEN(2)	15.21	NATURAL GAS	475	MW	3.7	PPMVD, 15% O2	
MI-0363	BLUEWATER ENERGY CENTER LLC	BLUEWATER ENERGY CENTER LLC	MI	COMBINED CYCLE ELECTRIC GENERATING POWER PLANT.	TURBINE, COMBINED CYCLE, (3)	15.21	NATURAL GAS	180	MW	4.5	PPMVD, 15% O2	
MN-0054	MANKATO ENERGY CENTER		MN	COMBINED CYCLE GAS TURBINE ELECTRIC POWER PLANT. TWO IDENTICAL GE FRAME F7A GAS TURBINES EACH WITH HRSG W/DUCT BURNERS FEEDING STEAM TO COMMON STEAM TURBINES. PRIMARY FUEL IS NG, NO. 2 VERY LOW SULFUR DISTILLATE OIL FOR BACKUP. ALSO, AUX. BOILER, DIESEL EMERGENCY GNERATOR, DIESEL FIRE PUMP, AND 900,000 GAL ABOVE GROUN OIL STORAGE TANK.	COMBUSTION TURBINE, LARGE 2 EACH	15.21	NATURAL GAS	1827	MMBTU/H	5.5	PPMVD, 15% O2	
MI-0362	MIDLAND COGENERATION (MCV)	MIDLAND COGENERATION VENTURE LIMITED PARTNERSHIP	MI	COGENERATION FACILITY TO PRODUCE STEAM AND ELECTRICITY.	TURBINE, COMBINED CYCLE, (1)	15.21	NATURAL GAS	984	MMBTU/H	25	PPMVD, 15% O2	
MI-0362	MIDLAND COGENERATION (MCV)	MIDLAND COGENERATION VENTURE LIMITED PARTNERSHIP	MI	COGENERATION FACILITY TO PRODUCE STEAM AND ELECTRICITY.	TURBINE, COMBINED CYCLE, (11)	15.21	NATURAL GAS	984	MMBTU/H	42	PPMVD, 15% O2	

Table G.2-3
RBLC Database Natural Gas Fired, Combined-Cycle Combustion Turbines > 25 MW 1/1/2003 - 7/15/2008, Emission Limits for CO

RBLCID	FACILITY NAME	CORPORATE OR COMPANY NAME	FACILITY STATE	FACILITY DESCRIPTION	PROCESS NAME	PROC TYPE	FUEL	THRU PUT	THRU PUT UNIT	STD EMISS LIMIT	STD UNIT LIMIT	STD LIMIT AVG TIME CONDITION
VA-0291	CPV WARREN LLC	CPV WARREN LLC	VA	COMBINED CYCLE POWER GENERATION	TURBINE, COMBINED CYCLE (2)	15.21	NATURAL GAS	1717	MMBTU/ HR	1.3	PPMVD, 15% O_2	
VA-0291	CPV WARREN LLC	CPV WARREN LLC	VA	COMBINED CYCLE POWER GENERATION	TURBINE, COMBINED CYCLE AND DUCT BURNER (2)	15.21	NATURAL GAS	1717	MMBTU/ HR	1.8	PPMVD, 15% O_2	
*OR-0041	WANAPA ENERGY CENTER	DIAMOND WANAPA I, L.P.	OR	A 1,200 MW NATURAL GAS-FIRED COMBINED CYCLE COMBUSTION TURBINE PROJECT EMPLOYING A WATER-COOLED STEAM CONDENSING SYSTEM. FOUR COMBUSTION TURBINES, FOUR HEAT RECOVERY STEAM GENERATORS, TWO STEAM TURBINES, AND TWO COOLING TOWERS EMPLOYED.	COMBUSTION TURBINE & HEAT RECOVERY STEAM GENERATOR	15.21	NATURAL GAS	2384.1	MMBTU/ HR	2	PPMVD, 15% O_2	
MI-0366	BERRIEN ENERGY, LLC	BERRIEN ENERGY, LLC	MI	ELECTRIC POWER GENERATING FACILITY.	3 COMBUSTION TURBINES AND DUCT BURNERS	15.21	NATURAL GAS	1584	MMBTU/ HR	2	PPMVD, 15% O_2	
OR-0039	COB ENERGY FACILITY, LLC	Peoples Energy Resources	OR	POWER GENERATION FACILITY	TURBINE, COMBINED CYCLE, DUCT BURNER, NAT GAS, (4)	15.21	NATURAL GAS	1150	MW	2	PPMVD, 15% O_2	
AZ-0043	DUKE ENERGY ARLINGTON VALLEY (AVEFII)	DUKE ENERGY ARLINGTON VALLEY	AZ	POWER PLANT	TURBINE, COMBINED CYCLE	15.21	NATURAL GAS	325	MW	2	PPMVD, 15% O_2	
CA-1096	VERNON CITY LIGHT & POWER	VERNON CITY LIGHT & POWER	CA		GAS TURBINE: COMBINED CYCLE < 50 MW	15.21	NATURAL GAS	43	MW GAS TURBINE, 55 MW STEAM TURBINE	2	PPMVD, 15% O_2	
CA-1097	MAGNOLIA POWER PROJECT, SCPPA	MAGNOLIA POWER PROJECT, SCPPA	CA		GAS TURBINE: COMBINED CYCLE >= 50 MW	15.21	NATURAL GAS	181	NET MW (GAS TURBINE W/STEAM INJECTION)	2	PPMVD, 15% O_2	
GA-0105	MCINTOSH COMBINED CYCLE FACILITY	SAVANNAH ELECTRIC AND POWER CO	GA	ELECTRIC GENERATING FACILITY	TURBINE, COMBINED CYCLE, NATURAL GAS, (4)	15.21	NATURAL GAS	140	MW	2	PPMVD, 15% O_2	
WA-0315	SUMAS ENERGY 2 GENERATION FACILITY	SUMAS ENERGY 2 GENERATION FACILITY	WA		TURBINES, COMBINED CYCLE, (2)	15.21	NATURAL GAS	660	MW	2	PPMVD, 15% O_2	
WA-0291	WALLULA POWER PLANT	WALLULA GENERATION, LLC	WA	WALLULA GENERATION, LLC, PROPOSES TO CONSTRUCT AND OPERATE A 1,300 MW COMBINED CYCLE ELECTRIC POWER PLANT. THE PROJECT WILL CONSIST OF TWO INDEPENDENT POWER BLOCKS WITH CRITICAL BACK-UP SYSTEMS TO MAINTAIN OVERALL PLANT RELIABILITY AND AVAILABILITY.	TURBINE, COMBINED CYCLE, NATURAL GAS (4)	15.21	NATURAL GAS	1300	MW	2	PPMVD, 15% O_2	

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RBLCID	FACILITY NAME	CORPORATE OR COMPANY NAME	FACILITY STATE	FACILITY DESCRIPTION	PROCESS NAME	PROC TYPE	FUEL	THRU PUT	THRU PUT UNIT	STD EMISS LIMIT	STD UNIT LIMIT	STD LIMIT AVG TIME CONDITION
CEC DECISION PENDING	SOUTH BAY REPLACEMENT PROJECT	LSP SOUTH BAY, LLC	CA	REPLACEMENT OF EXISTING FACILITY IN CHULA VISTA IN SAN DIEGO COUNTY WITH A 620 MW NATURAL GAS-FIRED COMBINED-CYCLE PLANT WITH TWO CTGs, TWO HRSGs AND DUCT BURNERS AND STEAM TURBINE	TURBINE, COMBINED CYCLE, NATURAL GAS & HEAT RECOVERY STEAM GENERATOR	15.21	NATURAL GAS	620	MW	2	PPMVD	1 hr
CO-0056	ROCKY MOUNTAIN ENERGY CENTER, LLC	CALPINE CORP.	CO	NATURAL GAS-FIRED, COMBINED-CYCLE COMBUSTION TURBINES.	NATURAL-GAS FIRED, COMBINED-CYCLE TURBINE	15.21	NATURAL GAS	300	MW	3	PPMVD, 15% O_2	
AZ-0047	WELLTON MOHAWK GENERATING STATION	DOME VALLEY ENERGY PARTNERS	AZ	COMBINED CYCLE GAS-FIRED ELECTRICITY GENERATING STATION	COMBUSTION TURBINE GENERATORS AND HEAT RECOVERY STEAM GENERATORS - GE7FA TURBINES OPTION	15.21	NATURAL GAS	170	MW	3	PPMVD, 15% O_2	
AZ-0047	WELLTON MOHAWK GENERATING STATION	DOME VALLEY ENERGY PARTNERS	AZ	COMBINED CYCLE GAS-FIRED ELECTRICITY GENERATING STATION	COMBUSTION TURBINE GENERATORS AND HEAT RECOVERY STEAM GENERATORS - SW501F TURBINES OPTION	15.21	NATURAL GAS	180	MW	3	PPMVD, 15% O_2	
UT-0066	CURRANT CREEK	PACIFICORP	UT	POWER GENERATION PLANT WITH TWO NATURAL GAS COMBINED CYCLE TURBINES	NATURAL GAS FIRED TURBINES AND HEAT RECOVERY STEAM GENERATORS	15.21	NATURAL GAS			3	PPMVD, 15% O_2	3 hr
NV-0037	COPPER MOUNTAIN POWER	SEMPRA ENERGY RESOURCES	NV	A 600 MW COMBINED CYCLE ELECTRICAL GENERATION FACILITY CONSISTING OF TWO COMBUSTION TURBINE GENERATORS WITH HEAT RECOVERY STEAM GENERATORS, ONE STEAM TURBINE GENERATOR, AND ONE AUXILIARY BOILER.	LARGE COMBUSTION TURBINES, COMBINED CYCLE & COGENERATION	15.21	NATURAL GAS	600	MW	3	PPMVD, 15% O_2	
AZ-0043	DUKE ENERGY ARLINGTON VALLEY (AVEFII)	DUKE ENERGY ARLINGTON VALLEY	AZ	POWER PLANT	TURBINE, COMBINED CYCLE & DUCT BURNER	15.21	NATURAL GAS	325	MW	3	PPMVD, 15% O_2	
*AZ-0049	LA PAZ GENERATING FACILITY	ALLEGHENY ENERGY SUPPLY LLC	AZ	NATURAL GAS FIRED, COMBINED CYCLE GENERATING STATION	GE COMBUSTION TURBINES AND HEAT RECOVERY STEAM GENERATORS	15.21	NATURAL GAS	1040	MW	3	PPMVD, 15% O_2	3 hr
NV-0035	TRACY SUBSTATION EXPANSION PROJECT	SIERRA PACIFIC POWER COMPANY	NV	2 - NATURAL GAS FIRED COMBINED CYCLE COMBUSTION TURBINE GENERATORS WITH HRSG"S AND DUCT BURNERS. 2 - NATURAL GAS FIRED FUEL PREHEATERS. 1 - NATURAL GAS FIRED AUXILIARY BOILER	TURBINE, COMBINED CYCLE COMBUSTION #1 WITH HRSG AND DUCT BURNER.	15.21	NATURAL GAS	306	MW	3.5	PPMVD, 15% O_2	

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RBLCID	FACILITY NAME	CORPORATE OR COMPANY NAME	FACILITY STATE	FACILITY DESCRIPTION	PROCESS NAME	PROC TYPE	FUEL	THRU PUT	THRU PUT UNIT	STD EMISS LIMIT	STD UNIT LIMIT	STD LIMIT AVG TIME CONDITION
NV-0035	TRACY SUBSTATION EXPANSION PROJECT	SIERRA PACIFIC POWER COMPANY	NV	2 - NATURAL GAS FIRED COMBINED CYCLE COMBUSTION TURBINE GENERATORS WITH HRSG"S AND DUCT BURNERS. 2 - NATURAL GAS FIRED FUEL PREHEATERS. 1 - NATURAL GAS FIRED AUXILIARY BOILER	TURBINE, COMBINED CYCLE COMBUSTION #2 WITH HRSG AND DUCT BURNER.	15.21	NATURAL GAS	306	MW	3.5	PPMVD, 15% O_2	
NV-0033	EL DORADO ENERGY, LLC	EL DORADO ENERGY, LLC	NV	THE FACILITY CONSIST OF TWO COMBUSTION TURBINE GENERATORS (CTGS) TWO HEAT RECOVERY STEAM GENERATORS (HRSGS) AND ONE STEAM TURBINE GENERATOR. THE FACILITY IS LOCATED IN AN ATTAINMENT AREA FOR ALL CRITERIA AIR POLLUTANTS. INSIGNIFICAN EMISSION UNITS INCLUDE A 140 HP EMERGENCY FIRE -WATER PUMP AND A WET SURFACE AIR COOLER.	COMBUSTION TURBINE, COMBINED CYCLE & COGEN(2)	15.21	NATURAL GAS	475	MW	3.5	PPMVD, 15% O_2	
MI-0365	MIRANT WYANDOTTE LLC	MIRANT WYANDOTTE LLC	MI	COMBINED CYCLE POWER PLANT.	TURBINE, COMBINED CYCLE, (2)	15.21	NATURAL GAS	2200	MMBTU/ HR	3.8	PPMVD, 15% O_2	
LA-0192	CRESCENT CITY POWER	CRESENT CITY POWER, LLC	LA	NEW 600 MW NATURAL GAS-FIRED COMBINED CYCLE POWER PLANT	GAS TURBINES - 187 MW (2)	15.21		2006	MMBTU/ HR	4	PPMVD, 15% O_2	Annual
NV-0038	IVANPAH ENERGY CENTER, L.P.	IVANPAH ENERGY CENTER, L.P.	NV	A 500 MW ELECTRICAL GENERATING PLANT CONSISTING OF TWO COMBUSTION TURBINE GENERATORS, TWO HEAT RECOVERY STEAM GENERATORS, ONE STEAM TURBINE GENERATOR. THE PROPOSED PLANT IS SURROUNDED BY UNOCCUPIED LAND FOR A DISTANCE OF AT LEAST TWO MILES IN ALL DIRECTIONS. THE UN-IMPROVED ACCESS ROAD TO THE PROPOSED PLANT SITE IS ABOUT 1.6 MILES IN LENGTH.	LARGE COMBUSTION TURBINES, COMBINED CYCLE & COGENERATION	15.21	NATURAL GAS	500	MW	4	PPMVD, 15% O_2	1 hr
MN-0054	MANKATO ENERGY CENTER		MN	COMBINED CYCLE GAS TURBINE ELECTRIC POWER PLANT. TWO IDENTICAL GE FRAME F7A GAS TURBINES EACH WITH HRSG W/DUCT BURNERS FEEDING STEAM TO COMMON STEAM TURBINES. PRIMARY FUEL IS NG, NO. 2 VERY LOW SULFUR DISTILLATE OIL FOR BACKUP. ALSO, AUX. BOILER, DIESEL EMERGENCY GNERATOR, DIESEL FIRE PUMP, AND 900,000 GAL ABOVE GROUN OIL STORAGE TANK	COMBUSTION TURBINE, LARGE, 2 EACH	15.21	NATURAL GAS	1916	MMBTU/ HR	4	PPMVD, 15% O_2	
CA-0997	SACRAMENTO MUNICIPAL UTILITY DISTRICT	SACRAMENTO MUNICIPAL UTILITY DISTRICT	CA	COMBUSTION GAS TURBINE GE 7FA	GAS TURBINES, (2)	15.21	NATURAL GAS	1611	MMBTU/ HR	4	PPMVD, 15% O_2	
MI-0361	SOUTH SHORE POWER LLC	SOUTH SHORE POWER LLC	MI	ELECTRIC POWER GENERATING FACILITY.	TURBINE, COMBINED CYCLE, (2)	15.21	NATURAL GAS	172	MW	4	PPMVD, 15% O_2	

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RBLCID	FACILITY NAME	CORPORATE OR COMPANY NAME	FACILITY STATE	FACILITY DESCRIPTION	PROCESS NAME	PROC TYPE	FUEL	THRU PUT	THRU PUT UNIT	STD EMISS LIMIT	STD UNIT LIMIT	STD LIMIT AVG TIME CONDITION
not listed	ROSEVILLE ENERGY PARK	ROSEVILLE ELECTRIC	CA	160 MW, NATURAL GAS-FIRED, COMBINED-CYCLE GENERATING FACILITY LOCATED WEST OF DOWNTOWN ROSEVILLE, IN PLACER COUNTY. IT WILL HAVE TWO GE LM6000 PC SPRINT OR ALSTOM GTX100 CTGs, EQUIPPED WITH WATER INJECTION (LM6000) OR DRY LOW-NOx COMBUSTERS (GTX100), TWO HRSGs WITH DUCT BURNERS, ONE STEAM TURBINE, CONDENSERS AND A MECHANICAL DRAFT COOLING TOWER	TURBINE, COMBINED CYCLE, NATURAL GAS & HEAT RECOVERY STEAM GENERATOR	15.21	NATURAL GAS	160	MW	4	PPMVD	1 hr
not listed	EL CENTRO UNIT 3 REPOWER PROJECT	IMPERIAL IRRIGATION DISTRICT	CA	128 MW, NATURAL GAS-FIRED COMBINED-CYCLE GENERATING FACILITY WITHIN CURRENT EL CENTRO GENERATING STATION, IN IMPERIAL COUNTY. IT WILL ADD A GE 7EA CTG WITH DRY LOW NOX COMBUSTERS AND ONE HRSG WITH DUCT BURNER TO EXISTING FACILITY	TURBINE, COMBINED CYCLE, NATURAL GAS & HEAT RECOVERY STEAM GENERATOR	15.21	NATURAL GAS	128	MW	4	PPMVD	1 hr
not listed	BLYTHE ENERGY PROJECT, PHASE II	CAITHNESS BLYTHE II, LLC	CA	520 MW NATURAL GAS-FIRED COMBINED-CYCLE GENERATING FACILITY ADJACENT TO BLYTHE ENERGY PROJECT PHASE I. IT WILL HAVE TWO SEIMENS WESTINGHOUSE CGTS WITH DRY LOW-NOX COMBUSTERS, TWO HRSGs WITH DUCT BURNERS, ONE STEAM TURBINE, CONDENERS AND A COOLING TOWER	TURBINE, COMBINED CYCLE, NATURAL GAS & HEAT RECOVERY STEAM GENERATOR	15.21	NATURAL GAS	520	MW	4	PPMVD	1 hr
MN-0054	MANKATO ENERGY CENTER		MN	COMBINED CYCLE GAS TURBINE ELECTRIC POWER PLANT. TWO IDENTICAL GE FRAME F7A GAS TURBINES EACH WITH HRSG W/DUCT BURNERS FEEDING STEAM TO COMMON STEAM TURBINES. PRIMARY FUEL IS NG, NO. 2 VERY LOW SULFUR DISTILLATE OIL FOR BACKUP. ALSO, AUX. BOILER, DIESEL EMERGENCY GNERATOR, DIESEL FIRE PUMP, AND 900,000 GAL ABOVE GROUN OIL STORAGE TANK	COMBUSTION TURBINE, LARGE 2 EACH	15.21	NATURAL GAS	1827	MMBTU/ HR	4.8	PPMVD, 15% O_2	
OR-0040	KLAMATH GENERATION, LLC	KLAMATH GENERATION, LLC	OR	POWER GENERATION FACILITY	TURBINE, COMBINED CYCLE, DUCT BURNER, NAT GAS (2)	15.21	NATURAL GAS	480	MW	5	PPMVD, 15% O_2	
MI-0357	KALKASKA GENERATING, INC	KALKASKA GENERATING LLC	MI	ELECTRICAL POWER PRODUCTION FACILITY.	TURBINE, COMBINED CYCLE, (2)	15.21	NATURAL GAS	605	MW	5	PPMVD, 15% O_2	
OH-0252	DUKE ENERGY HANGING ROCK ENERGY FACILITY	DUKE ENERGY HANGING ROCK, LLC	OH	FOUR NATURAL GAS (NG) FIRED COMBUSTION TURBINES, WITH DUCT BURNERS; COMBINED CYCLE, EACH 172 MW	TURBINES (4) (MODEL GE 7FA), DUCT BURNERS OFF	15.21	NATURAL GAS	172	MW	6	PPMVD, 15% O_2	24 hr

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FL-0245	FPL MANATEE PLANT - UNIT 3	FLORIDA POWER & LIGHT	FL	EXISTING POWER PLANT	TURBINE, COMBINED CYCLE, NATURAL GAS (4)	15.21	NATURAL GAS	170	MW	7.4	PPMVD, 15% O_2	
FL-0263	FPL TURKEY POINT POWER PLANT	FLORIDA POWER AND LIGHT	FL	RESPECTIVELY."	170 MW COMBUSTION TURBINE, 4 UNITS	15.21	NATURAL GAS	170	MW	7.6	PPMVD, 15% O_2	
FL-0265	HINES POWER BLOCK 4	PROGRESS ENERGY	FL	COMBINED CYCLE POWER PLANT. THIS IS THE 4TH BLOCK OF POWER ADDED, MAKING THE TOTAL GENERATING CAPACITY OF THE FACILITY APPROXIMATELY 2090 MW.	COMBINED CYCLE TURBINE	15.21	NATURAL GAS	530	MW	8	PPMVD, 15% O_2	
MI-0363	BLUEWATER ENERGY CENTER LLC	BLUEWATER ENERGY CENTER LLC	MI	COMBINED CYCLE ELECTRIC GENERATING POWER PLANT.	TURBINE, COMBINED CYCLE, (3)	15.21	NATURAL GAS	180	MW	8	PPMVD, 15% O_2	
OH-0252	DUKE ENERGY HANGING ROCK ENERGY FACILITY	DUKE ENERGY HANGING ROCK, LLC	OH	FOUR NATURAL GAS (NG) FIRED COMBUSTION TURBINES, WITH DUCT BURNERS; COMBINED CYCLE, EACH 172 MW	TURBINES (4) (MODEL GE 7FA), DUCT BURNERS ON	15.21	NATURAL GAS	172	MW	9	PPMVD, 15% O_2	24 hr
VA-0289	DUKE ENERGY WYTHE, LLC	DUKE ENERGY WYTHE, LLC	VA	POWER PLANT	TURBINE, COMBINED CYCLE, NATURAL GAS	15.21	NATURAL GAS	170	MW	9	PPMVD, 15% O_2	
VA-0287	JAMES CITY ENERGY PARK	JAMES CITY ENERGY PARK LLC	VA	POWER GENERATING FACILITY	TURBINE, COMBINED CYCLE, NATURAL GAS	15.21	NATURAL GAS	1973	MMBTU/ HR	9	PPMVD, 15% O_2	
CEC DECISION PENDING	LOS ESTEROS CRITICAL ENERGY FACILITY, PHASE II	LOS ESTEROS CRITICAL ENERGY FACILITY, LLC	CA	CONVERSION OF EXISTING 180 MW SIMPLE-CYCLE POWER PLANT TO A 320 MW COMBINED CYCLE PLANT IN SANTA CLARA COUNTY WITH ADDITION OF FOUR HRSGs WITH DUCT BURNERS, STEAM TURBINE, CONDENSERS AND A COOLING TOWER	TURBINE, COMBINED CYCLE, NATURAL GAS & HEAT RECOVERY STEAM GENERATOR	15.21	NATURAL GAS	320	MW	9	PPMVD	1 hr
MN-0053	FAIRBAULT ENERGY PARK	MN MUNICIPAL POWER AGENCY	MN	LARGE COMBUSTION TURBINE ELECTRIC POWER PLANT - INITIAL OPERATION IN SIMPLE CYCLE AND CONVERSION TO COMBINED CYCLE IN THE FUTURE.	TURBINE, COMBINED CYCLE, NATURAL GAS (1)	15.21	NATURAL GAS	1876	MMBTU/ HR	10	PPMVD, 15% O_2	3 hr
FL-0256	HINES ENERGY COMPLEX, POWER BLOCK 3	PROGRESS ENERGY FLORIDA	FL	POWER PLANT	COMBUSTION TURBINES, COMBINED CYCLE, NATURAL GAS,2	15.21	NATURAL GAS	1830	MMBTU/ HR	10	PPMVD, 15% O_2	
OH-0254	DUKE ENERGY WASHINGTON COUNTY LLC	DUKE ENERGY NORTH AMERICA	OH	TWO 170 MW NATURAL GAS-FIRED COMBUSTION TURBINES, COMBINED CYCLE	TURBINES (2) (MODEL GE 7FA), DUCT BURNERS OFF	15.21	NATURAL GAS	170	MW	10	PPMVD, 15% O_2	
FL-0244	FPL MARTIN PLANT	FLORIDA POWER & LIGHT	FL	EXISTING POWER PLANT	TURBINE, COMBINED CYLE, NATURAL GAS, (4)	15.21	NATURAL GAS	170	MW	10	PPMVD, 15% O_2	
OK-0090	DUKE ENERGY STEPHENS, LLC STEPHENS ENERGY	DUKE ENERGY	OK	MERCHANT POWER PLANT - NOMINAL TOTAL OF 620 MW.	TURBINES, COMBINED CYCLE (2)	15.21	NATURAL GAS	1701	MMBTU/ HR	10	PPMVD, 15% O_2	

Table G.2-3
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NC-0101	FORSYTH ENERGY PLANT	FORSYTH ENERGY PROJECTS, LLC	NC	THREE COMBINED-CYCLE COMBUSTION TURBINE GENERATORS, EACH WITH A HEAT RECOVERY STEAM GENERATORS (HRSG) ALONG WITH NATURAL GAS-FIRED DUCT BURNERS TO MEET PEAK DEMAND. THE STEAM GENERATED THROUGH THE THREE HRSGS WILL DRIVE A STEAM TURBINE. THE ENTIRE PLANT WILL BE CAPABLE OF GENERATING A NOMINAL POWER OUTPUT OF 812 MEGAWATTS	TURBINE, COMBINED CYCLE, NATURAL GAS, (3)	15.21	NATURAL GAS	1844.3	MMBTU/ HR	11.6	PPMVD, 15% O_2	
VA-0287	JAMES CITY ENERGY PARK	JAMES CITY ENERGY PARK LLC	VA	POWER GENERATING FACILITY	TURBINE, COMBINED CYCLE, NATURAL GAS,DUCT BURNER	15.21	NATURAL GAS	1973	MMBTU/ HR	12	PPMVD, 15% O_2	
MI-0362	MIDLAND COGENERATION (MCV)	MIDLAND COGENERATION VENTURE LIMITED PARTNERSHIP	MI	COGENERATION FACILITY TO PRODUCE STEAM AND ELECTRICITY.	TURBINE, COMBINED CYCLE, (11)	15.21	NATURAL GAS	984	MMBTU/ HR	12	PPMVD, 15% O_2	
MI-0362	MIDLAND COGENERATION (MCV)	MIDLAND COGENERATION VENTURE LIMITED PARTNERSHIP	MI	COGENERATION FACILITY TO PRODUCE STEAM AND ELECTRICITY.	TURBINE, COMBINED CYCLE, (1)	15.21	NATURAL GAS	984	MMBTU/ HR	12	PPMVD, 15% O_2	
OH-0254	DUKE ENERGY WASHINGTON COUNTY LLC	DUKE ENERGY NORTH AMERICA	OH	TWO 170 MW NATURAL GAS-FIRED COMBUSTION TURBINES, COMBINED CYCLE	TURBINES (2) (MODEL GE 7FA), DUCT BURNERS ON	15.21	NATURAL GAS	170	MW	14	PPMVD, 15% O_2	
VA-0289	DUKE ENERGY WYTHE, LLC	DUKE ENERGY WYTHE, LLC	VA	POWER PLANT	TURBINE, COMBINED CYCLE, DUCT BURNER, NATURAL GAS	15.21	NATURAL GAS	170	MW	14.6	PPMVD, 15% O_2	
OK-0096	REDBUD POWER PLANT	REDBUD ENERGY LP	OK	ELECTRICITY GENERATION	COMBUSTION TURBINE AND DUCT BURNERS	15.21	NATURAL GAS	1832	MMBTU/ HR	17.2	PPMVD, 15% O_2	
MN-0060	HIGH BRIDGE GENERATING PLANT	NORTHERN STATES POWER CO. DBA XCEL ENERGY	MN	EXISTING COAL-FIRED ELECTRIC UTILITY THAT WILL BE REPLACED BY NEW TWIN NATURAL GAS-FIRED COMBINED CYCLE COMBUSTION TURBINE.	2 COMBINED-CYCLE COMBUSTION TURBINES	15.21	NATURAL GAS ONLY	330	MEGAWATTS	18	PPMVD, 15% O_2	
MS-0073	RELIANT ENERGY CHOCTAW COUNTY, LLC		MS	THREE GE COMBINE CYCLE TURBINED RATED @ 230 MEGAWATTS EACH WITH SCR FOR POLLUTION CONTROL	EMISSION POINT AA-001 GEN. ELEC. COMBUST. TURBINE	15.21	NATURAL GAS	230	MW	18	PPMVD, 15% O_2	
MS-0073	RELIANT ENERGY CHOCTAW COUNTY, LLC		MS	THREE GE COMBINE CYCLE TURBINED RATED @ 230 MEGAWATTS EACH WITH SCR FOR POLLUTION CONTROL	EMISSION POINT AA-002 GEN ELEC. COMB. TURBINE	15.21		230	MW	18.36	PPMVD, 15% O_2	

Table G.2-3
RBLC Database Natural Gas Fired, Combined-Cycle Combustion Turbines > 25 MW 1/1/2003 - 7/15/2008, Emission Limits for CO

RBLCID	FACILITY NAME	CORPORATE OR COMPANY NAME	FACILITY STATE	FACILITY DESCRIPTION	PROCESS NAME	PROC TYPE	FUEL	THRU PUT	THRU PUT UNIT	STD EMISS LIMIT	STD UNIT LIMIT	STD LIMIT AVG TIME CONDITION
MS-0073	RELIANT ENERGY CHOCTAW COUNTY, LLC		MS	THREE GE COMBINE CYCLE TURBINED RATED @ 230 MEGAWATTS EACH WITH SCR FOR POLLUTION CONTROL	EMISSION POINT AA-003 GEN. ELEC COMB TURBINES	15.21		230	MW	18.36	PPMVD, 15% O_2	
TX-0374	CHOCOLATE BAYOU PLANT	BP AMOCO CHEMICAL CO	TX	BP AMOCO PROPOSES TO CONSTRUCT A GAS-FIRED STEAM AND ELECTRIC GENERATING FACILITY. THE PROPOSED PROJECT WILL BE CALLED THE GREEN POWER UNIT ONE. THE PROJECT WILL CONSIST OF TWO DUAL SHAFT GAS-FIRED ELECTRIC GENERATING TURBINES EACH RATED AT APPROX. 35 MW (BASE LOAD), EACH TURBINE WILL HAVE A HEAT RECOVERY STEAM GENERATOR (HRSG) EQUIPPED WITH 312 MMBTU/H DUCT BURNERS. GREEN POWER UNIT ONE WILL BE CAPABLE OF PRODUCING AN ESTIMATED NOMINAL 70 MW OF ELECTRICITY. STEAM PRODUCED IN THE HRSGS WILL BE USED IN THE CHOCOLATE BAYOU WORKS CHEMICAL COMPLEX. THE CHEMICAL COMPLEX WILL CONSUME APPROX. HALF OF THE ELECTRICAL OUTPUT PRODUCED BY THE TWO NEW TURBINES. EXCESS POWER PRODUCED BY THE COMBUSTION TURBINES WILL BE SOLD TO THE GRID. THE COMBUSTION TURBINES WILL ONLY BURN PIPELINE QUALITY SWEET NAT GAS. THE DUCT BURNERS WILL BURN NAT GAS, COMPLEX GAS, OR MIXTURES OF NAT GAS AND COMPLEX GAS.	(2) COGENERATION TRAINS 2 & 3, GT-2 & 3	15.21	NAT GAS	70	MW, TOTAL	24.4	PPMVD, 15% O_2	Annual
NC-0101	FORSYTH ENERGY PLANT	FORSYTH ENERGY PROJECTS, LLC	NC	THREE COMBINED-CYCLE COMBUSTION TURBINE GENERATORS, EACH WITH A HEAT RECOVERY STEAM GENERATORS (HRSG) ALONG WITH NATURAL GAS-FIRED DUCT BURNERS TO MEET PEAK DEMAND. THE STEAM GENERATED THROUGH THE THREE HRSGS WILL DRIVE A STEAM TURBINE. THE ENTIRE PLANT WILL BE CAPABLE OF GENERATING A NOMINAL POWER OUTPUT OF 812 MEGAWATTS.	TURBINE & DUCT BURNER, COMBINED CYCLE, NAT GAS, 3	15.21	NATURAL GAS	1844.3	MMBTU/ HR	25.9	PPMVD, 15% O_2	
WY-0061	BLACK HILLS CORP./NEIL SIMPSON TWO	BLACK HILLS CORP.	WY	STEAM ELECTRIC GENERATING PLANT	TURBINE, COMBINED CYCLE, & DUCT BURNER	15.21	NATURAL GAS	40	MW	37.2	PPMVD, 15% O_2	

Table G.2-3
RBLC Database Natural Gas Fired, Combined-Cycle Combustion Turbines > 25 MW 1/1/2003 - 7/15/2008, Emission Limits for CO

RBLCID	FACILITY NAME	CORPORATE OR COMPANY NAME	FACILITY STATE	FACILITY DESCRIPTION	PROCESS NAME	PROC TYPE	FUEL	THRU PUT	THRU PUT UNIT	STD EMISS LIMIT	STD UNIT LIMIT	STD LIMIT AVG TIME CONDITION
*LA-0224	ARSENAL HILL POWER PLANT	SOUTHWEST ELECTRIC POWER COMPANY (SWEPCO)	LA	2 COMBUSTION TURBINE GENERATOR (CTG)/DUCT BURNER	COMBUSTION TURBINE GENERATOR (CTG)/DUCT BURNERLOW-NOx BURNER (LNB), SELECTIVE CATALYTIC REDUCTION (SCR)	15.21	NATURAL GAS	2110	MMBTU/ HR	10	PPMVD, 15% O_2	ANNUAL AVERAGE
*CT-0151	KLEEN ENERGY SYSTEMS, LLC	KLEEN ENERGY SYSTEMS, LLC	CT	2 SIEMENS SGT6-5000F CTG WITH DUCT BURNER	2 SIEMENS SGT6-5000F CTG WITH DUCT BURNER, LNB, SCR, OXIDATION CATALYST (OC)	15.21	NATURAL GAS	CTG: 2136, DUCT BURNER : 445	MMBTU/ HR	1.7 W/ DUCT BURNER, 0.9 W/O DUCT BURNER	PPMVD, 15% O_2	1-HR
*VA-0304	CPV WARREN	CPV WARREN	VA	2 GE MODEL 7FA COMBINED CYCLE CTG EACH RATED AT 180,000 KW	2 GE MODEL 7FA COMBINED CYCLE CTG EACH RATED AT 180,000 KW, LEAN PREMIX DRY LOW-NOx COMBUSTION, SCR, OC, GOOD COMBUSTION PRACTICES.	15.21	NATURAL GAS	1717	MMBTU/ HR	2.5 W/ POWER AUGMENTATION AND DUCT BURNER, 1.3 W/O POWER AUGMENTATION, 1.8 W/ POWER AUGMENTION AND W/O DUCT BURNER	PPMVD	
OK-0117	PSO SOUTHWESTERN POWER PLT	PUBLIC SERVICE CO OF OKLAHOMA	OK		DLN, COMBUSTION CONTROL, USE OF LOW ASH FUEL (NATURAL GAS) AND EFFICIENT COMBUSTION	15.21	NATURAL GAS			25	PPMVD, 15% O_2	
OK-0115	LAWTON ENERGY COGEN FACILITY	ENERGETIX	OK	CTG AND DUCT BURNER	CTG AND DUCT BURNER, SCR W/ DRY LNB	15.21	NATURAL GAS			16.38	PPMVD, 15% O_2	
*TX-0497	INEOS CHOCOLATE BAYOU FACILITY	INEOS USA LLC	TX	GAS FIRED TURBINES WITH DUCT BURNERS	GAS FIRED TURBINES WITH DUCT BURNERS, SCR	15.21	NATURAL GAS	35-TURBINES, 312-DUCT BURNERS	MW-TURBINES, MMBTU/HR DUCT BURNERS	15	PPMVD	
MN-0066	NORTHERN STATES POWER CO. DBA XCEL ENERGY - RIVERSIDE PLANT	NORTHERN STATES POWER CO. DBA XCEL ENERGY	MN	2 COMBUSTION TURBINE	2 CT, GOOD COMBUSTION PRACTICES	15.21	NATURAL GAS	1885	MMBTU/ HR	10	PPMVD, 15% O_2	3-HR

Table G.2-3
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RBLCID	FACILITY NAME	CORPORATE OR COMPANY NAME	FACILITY STATE	FACILITY DESCRIPTION	PROCESS NAME	PROC TYPE	FUEL	THRU PUT	THRU PUT UNIT	STD EMISS LIMIT	STD UNIT LIMIT	STD LIMIT AVG TIME CONDITION
*NY-0095	CAITHNES BELLPORT ENERGY CENTER	CAITHNESS BELLPORT, LLC	NY	COMBINED CYCLE WITH DUCT FIRING UP TO 494 MMBTU/H	COMBINED CYCLE WITH DUCT FIRING UP TO 494 MMBTU/H, SCR, OXIDATION CATALYST	15.21	NATURAL GAS	2221	MMBTU/ HR	2	PPMVD, 15% O_2	
*WA-0328	BP CHERRY POINT COGENERATION PROJECT	BP WEST COAST PRODUCTS, LLC	WA	3 CT & HSRG UNITS. EACH CT OF 1614 MMBTU/HR. EACH HRSG DUCT BURNER FIRING RATE OF 105 MMBTU/HR.	3 CT & HSRG UNITS. EACH CT OF 1614 MMBTU/HR. EACH HRSG DUCT BURNER FIRING RATE OF 105 MMBTU/HR., LEAN PRE-MIX DLN, SCR., OC	15.21	NATURAL GAS	174	MW	14.1	PPMVD, 15% O_2	24-HR

Table G.2-4
RBLC Database Natural Gas Fired, Combined-Cycle Combustion Turbines > 25 MW 1/1/2003 - 7/15/2008, Emission Limits for VOC

RBLCID	FACILITY NAME	CORPORATE OR COMPANY NAME	FACILITY STATE	FACILITY DESCRIPTION	PROCESS NAME	PROC TYPE	FUEL	THRU PUT	THRU PUT UNIT	EMIS LIMIT1	EMIS LIMIT1 UNIT	EMIS LIMIT1 AVG TIME CONDITION	EMIS LIMIT2	EMIS LIMIT2 UNIT	EMIS LIMIT2 AVG TIME CONDI-TION
CO-0056	ROCKY MOUNTAIN ENERGY CENTER, LLC	CALPINE CORP.	CO	NATURAL GAS-FIRED, COMBINED-CYCLE COMBUSTION TURBINES.	NATURAL-GAS FIRED, COMBINED-CYCLE TURBINE	15.21	NATURAL GAS	300	MW	0.0029	LB/MMBTU				
VA-0291	CPV WARREN LLC	CPV WARREN LLC	VA	COMBINED CYCLE POWER GENERATION	TURBINE, COMBINED CYCLE (2)	15.21	NATURAL GAS	1717	MMBTU/HR	0.7	PPMVD				
VA-0291	CPV WARREN LLC	CPV WARREN LLC	VA	COMBINED CYCLE POWER GENERATION	TURBINE, COMBINED CYCLE AND DUCT BURNER (2)	15.21	NATURAL GAS	1717	MMBTU/HR	1	PPMVD		1.4	PPMVD	
MN-0053	FAIRBAULT ENERGY PARK	MN MUNICIPAL POWER AGENCY	MN	LARGE COMBUSTION TURBINE ELECTRIC POWER PLANT - INITIAL OPERATION IN SIMPLE CYCLE AND CONVERSION TO COMBINED CYCLE IN THE FUTURE.	TURBINE, COMBINED CYCLE, NATURAL GAS (1)	15.21	NATURAL GAS	1876	MMBTU/HR	1	PPMVD, 15% O_2	3 hr			
not listed	BLYTHE ENERGY PROJECT, PHASE II	CAITHNESS BLYTHE II, LLC	CA	520 MW NATURAL GAS-FIRED COMBINED-CYCLE GENERATING FACILITY ADJACENT TO BLYTHE ENERGY PROJECT PHASE I. IT WILL HAVE TWO SEIMENS WESTINGHOUSE CGTS WITH DRY LOW-NOX COMBUSTERS, TWO HRSGs WITH DUCT BURNERS, ONE STEAM TURBINE, CONDENERS AND A COOLING TOWER	TURBINE, COMBINED CYCLE, NATURAL GAS & HEAT RECOVERY STEAM GENERATOR	15.21	NATURAL GAS	520	MW	1	PPMVD	1 hr			
FL-0263	FPL TURKEY POINT POWER PLANT	FLORIDA POWER AND LIGHT	FL	RESPECTIVELY."	170 MW COMBUSTION TURBINE, 4 UNITS	15.21	NATURAL GAS	170	MW	1.3	PPMVD, 15% O_2		1.9	PPMVD, 15% O_2	
FL-0244	FPL MARTIN PLANT	FLORIDA POWER & LIGHT	FL	EXISTING POWER PLANT	TURBINE, COMBINED CYLE, NATURAL GAS, (4)	15.21	NATURAL GAS	170	MW	1.3	PPMVD, 15% O_2		2.8	LB/H	
FL-0245	FPL MANATEE PLANT - UNIT 3	FLORIDA POWER & LIGHT	FL	EXISTING POWER PLANT	TURBINE, COMBINED CYCLE, NATURAL GAS (4)	15.21	NATURAL GAS	170	MW	1.3	PPMVD, 15% O_2		4	PPMVD, 15% O_2	
VA-0287	JAMES CITY ENERGY PARK	JAMES CITY ENERGY PARK LLC	VA	POWER GENERATING FACILITY	TURBINE, COMBINED CYCLE, NATURAL GAS	15.21	NATURAL GAS	1973	MMBTU/HR	1.4	PPM				
CA-0997	SACRAMENTO MUNICIPAL UTILITY DISTRICT	SACRAMENTO MUNICIPAL UTILITY DISTRICT	CA	COMBUSTION GAS TURBINE GE 7FA	GAS TURBINES, (2)	15.21	NATURAL GAS	1611	MMBTU/HR	1.4	PPMVD, 15% O_2		30	T/YR	

Table G.2-4

RBLC Database Natural Gas Fired, Combined-Cycle Combustion Turbines > 25 MW 1/1/2003 - 7/15/2008, Emission Limits for VOC

RBLCID	FACILITY NAME	CORPORATE OR COMPANY NAME	FACILITY STATE	FACILITY DESCRIPTION	PROCESS NAME	PROC TYPE	FUEL	THRU PUT	THRU PUT UNIT	EMIS LIMIT1	EMIS LIMIT1 UNIT	EMIS LIMIT1 AVG TIME CONDITION	EMIS LIMIT2	EMIS LIMIT2 UNIT	EMIS LIMIT2 AVG TIME CONDI-TION
CEC DECISIO N PENDING	SOUTH BAY REPLACEMENT PROJECT	LSP SOUTH BAY, LLC	CA	REPLACEMENT OF EXISTING FACILITY IN CHULA VISTA IN SAN DIEGO COUNTY WITH A 620 MW NATURAL GAS-FIRED COMBINED-CYCLE PLANT WITH TWO CTGs, TWO HRSGs AND DUCT BURNERS AND STEAM TURBINE	TURBINE, COMBINED CYCLE, NATURAL GAS & HEAT RECOVERY STEAM GENERATOR	15.21	NATURAL GAS	620	MW	1.5	PPMVD	1 hr			
not listed	ROSEVILLE ENERGY PARK	ROSEVILLE ELECTRIC	CA	160 MW, NATURAL GAS-FIRED, COMBINED-CYCLE GENERATING FACILITY LOCATED WEST OF DOWNTOWN ROSEVILLE, IN PLACER COUNTY. IT WILL HAVE TWO GE LM6000 PC SPRINT OR ALSTOM GTX100 CTGs, EQUIPPED WITH WATER INJECTION (LM6000) OR DRY LOW-NOx COMBUSTERS (GTX100), TWO HRSGs WITH DUCT BURNERS, ONE STEAM TURBINE, CONDENSERS AND A MECHANICAL DRAFT COOLING TOWER	TURBINE, COMBINED CYCLE, NATURAL GAS & HEAT RECOVERY STEAM GENERATOR	15.21	NATURAL GAS	160	MW	2	PPMVD	1 hr			
not listed	EL CENTRO UNIT 3 REPOWER PROJECT	IMPERIAL IRRIGATION DISTRICT	CA	128 MW, NATURAL GAS-FIRED COMBINED-CYCLE GENERATING FACILITY WITHIN CURRENT EL CENTRO GENERATING STATION, IN IMPERIAL COUNTY. IT WILL ADD A GE 7EA CTG WITH DRY LOW NOX COMBUSTERS AND ONE HRSG WITH DUCT BURNER TO EXISTING FACILITY	TURBINE, COMBINED CYCLE, NATURAL GAS & HEAT RECOVERY STEAM GENERATOR	15.21	NATURAL GAS	128	MW	2	PPMVD	1 hr			
CEC DECISIO N PENDING	LOS ESTEROS CRITICAL ENERGY FACILITY, PHASE II	LOS ESTEROS CRITICAL ENERGY FACILITY, LLC	CA	CONVERSION OF EXISTING 180 MW SIMPLE-CYCLE POWER PLANT TO A 320 MW COMBINED-CYCLE PLANT WITH ADDITION OF FOUR HRSGs WITH DUCT BURNERS, STEAM TURBINE, CONDENSERS AND A COOLING TOWER	TURBINE, COMBINED CYCLE, NATURAL GAS & HEAT RECOVERY STEAM GENERATOR	15.21	NATURAL GAS	320	MW	2	PPMVD	1 hr			
MN-0060	HIGH BRIDGE GENERATING PLANT	NORTHERN STATES POWER CO. DBA XCEL ENERGY	MN	EXISTING COAL-FIRED ELECTRIC UTILITY THAT WILL BE REPLACED BY NEW TWIN NATURAL GAS-FIRED COMBINED CYCLE COMBUSTION TURBINE.	2 COMBINED-CYCLE COMBUSTION TURBINES	15.21	NATURAL GAS ONLY	330	MEGA WATTS	2	PPMVD, 15% O_2		13	PPMVD, 15% O_2	
FL-0256	HINES ENERGY COMPLEX, POWER BLOCK 3	PROGRESS ENERGY FLORIDA	FL	POWER PLANT	COMBUSTION TURBINES, COMBINED CYCLE, NATURAL GAS,2	15.21	NATURAL GAS	1830	MMBTU/ HR	2	PPMVD, 15% O_2				

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CA-1096	VERNON CITY LIGHT & POWER	VERNON CITY LIGHT & POWER	CA		GAS TURBINE: COMBINED CYCLE < 50 MW	15.21	NATURAL GAS	43	MW GAS TURBINE, 55 MW STEAM TURBINE	2	PPMVD, 15% O_2	1 hr			
CA-1097	MAGNOLIA POWER PROJECT, SCPPA	MAGNOLIA POWER PROJECT, SCPPA	CA		GAS TURBINE: COMBINED CYCLE >= 50 MW	15.21	NATURAL GAS	181	NET MW (GAS TURBINE W/STEAM INJECTIO N)	2	PPMVD, 15% O_2	1 hr			
GA-0105	MCINTOSH COMBINED CYCLE FACILITY	SAVANNAH ELECTRIC AND POWER CO	GA	ELECTRIC GENERATING FACILITY	TURBINE, COMBINED CYCLE, NATURAL GAS, (4)	15.21	NATURAL GAS	140	MW	2	PPMVD, 15% O_2				
NV-0038	IVANPAH ENERGY CENTER, L.P.	IVANPAH ENERGY CENTER, L.P.	NV	A 500 MW ELECTRICAL GENERATING PLANT CONSISTING OF TWO COMBUSTION TURBINE GENERATORS, TWO HEAT RECOVERY STEAM GENERATORS, ONE STEAM TURBINE GENERATOR. THE PROPOSED PLANT IS SURROUNDED BY UNOCCUPIED LAND FOR A DISTANCE OF AT LEAST TWO MILES IN ALL DIRECTIONS. THE UN-IMPROVED ACCESS ROAD TO THE PROPOSED PLANT SITE IS ABOUT 1.6 MILES IN LENGTH.	LARGE COMBUSTION TURBINES, COMBINED CYCLE & COGENERATION	15.21	NATURAL GAS	500	MW	2.3	PPMVD		5.6	LB/H	
LA-0192	CRESCENT CITY POWER	CRESENT CITY POWER, LLC	LA	NEW 600 MW NATURAL GAS-FIRED COMBINED CYCLE POWER PLANT	GAS TURBINES - 187 MW (2)	15.21		2006	MMBTU/ HR	2.8	LB/H	1 hr	12.3	T/YR	Annual
AZ-0047	WELLTON MOHAWK GENERATING STATION	DOME VALLEY ENERGY PARTNERS	AZ	COMBINED CYCLE GAS-FIRED ELECTRICITY GENERATING STATION	COMBUSTION TURBINE GENERATORS AND HEAT RECOVERY STEAM GENERATORS GE7FA TURBINES OPTION	15.21	NATURAL GAS	170	MW	3	PPMVD, 15% O_2	3 hr	8.4	LB/H	3 hr

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RBLCID	FACILITY NAME	CORPORATE OR COMPANY NAME	FACILITY STATE	FACILITY DESCRIPTION	PROCESS NAME	PROC TYPE	FUEL	THRU PUT	THRU PUT UNIT	EMIS LIMIT1	EMIS LIMIT1 UNIT	EMIS LIMIT1 AVG TIME CONDITION	EMIS LIMIT2	EMIS LIMIT2 UNIT	EMIS LIMIT2 AVG TIME CONDI-TION
AZ-0047	WELLTON MOHAWK GENERATING STATION	DOME VALLEY ENERGY PARTNERS	AZ	COMBINED CYCLE GAS-FIRED ELECTRICITY GENERATING STATION	COMBUSTION TURBINE GENERATORS AND HEAT RECOVERY STEAM GENERATORS SW501F TURBINES OPTION	15.21	NATURAL GAS	180	MW	3	PPMVD, 15% O_2	3 hr	9.5	LB/H	3 hr
VA-0289	DUKE ENERGY WYTHE, LLC	DUKE ENERGY WYTHE, LLC	VA	POWER PLANT	TURBINE, COMBINED CYCLE, NATURAL GAS	15.21	NATURAL GAS	170	MW	3	LB/H				
OH-0254	DUKE ENERGY WASHINGTON COUNTY LLC	DUKE ENERGY NORTH AMERICA	OH	TWO 170 MW NATURAL GAS-FIRED COMBUSTION TURBINES, COMBINED CYCLE	TURBINES (2) (MODEL GE 7FA), DUCT BURNERS OFF	15.21	NATURAL GAS	170	MW	3	LB/H				
MI-0366	BERRIEN ENERGY, LLC	BERRIEN ENERGY, LLC	MI	ELECTRIC POWER GENERATING FACILITY.	3 COMBUSTION TURBINES AND DUCT BURNERS	15.21	NATURAL GAS	1584	MMBTU/ HR	3.2	LB/H		95.3	T/YR	
OH-0252	DUKE ENERGY HANGING ROCK ENERGY FACILITY	DUKE ENERGY HANGING ROCK, LLC	OH	FOUR NATURAL GAS (NG) FIRED COMBUSTION TURBINES, WITH DUCT BURNERS; COMBINED CYCLE, EACH 172 MW	TURBINES (4) (MODEL GE 7FA), DUCT BURNERS OFF	15.21	NATURAL GAS	172	MW	3.2	LB/H				
MI-0357	KALKASKA GENERATING, INC	KALKASKA GENERATING LLC	MI	ELECTRICAL POWER PRODUCTION FACILITY.	TURBINE, COMBINED CYCLE, (2)	15.21	NATURAL GAS	605	MW	3.5	PPM		37.9	T/YR	
MS-0073	RELIANT ENERGY CHOCTAW COUNTY, LLC		MS	THREE GE COMBINE CYCLE TURBINED RATED @ 230 MEGAWATTS EACH WITH SCR FOR POLLUTION CONTROL	EMISSION POINT AA-001 GEN. ELEC. COMBUST. TURBINE	15.21	NATURAL GAS	230	MW	3.64	PPMVD, 15% O_2	3 hr	9.33	LB/H	
MS-0073	RELIANT ENERGY CHOCTAW COUNTY, LLC		MS	THREE GE COMBINE CYCLE TURBINED RATED @ 230 MEGAWATTS EACH WITH SCR FOR POLLUTION CONTROL	EMISSION POINT AA-002 GEN ELEC. COMB. TURBINE	15.21		230	MW	3.64	PPMVD, 15% O_2	3 hr	9.33	LB/H	
MS-0073	RELIANT ENERGY CHOCTAW COUNTY, LLC		MS	THREE GE COMBINE CYCLE TURBINED RATED @ 230 MEGAWATTS EACH WITH SCR FOR POLLUTION CONTROL	EMISSION POINT AA-003 GEN. ELEC COMB TURBINES	15.21		230	MW	3.64	PPMVD, 15% O_2	3 hr	9.33	LB/H	
NV-0035	TRACY SUBSTATION EXPANSION PROJECT	SIERRA PACIFIC POWER COMPANY	NV	2 - NATURAL GAS FIRED COMBINED CYCLE COMBUSTION TURBINE GENERATORS WITH HRSG"S AND DUCT BURNERS. 2 - NATURAL GAS FIRED FUEL PREHEATERS. 1 - NATURAL GAS FIRED AUXILIARY BOILER	TURBINE, COMBINED CYCLE COMBUSTION #1 WITH HRSG AND DUCT BURNER.	15.21	NATURAL GAS	306	MW	4	PPMVD, 15% O_2	3 hr			

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NV-0035	TRACY SUBSTATION EXPANSION PROJECT	SIERRA PACIFIC POWER COMPANY	NV	2 - NATURAL GAS FIRED COMBINED CYCLE COMBUSTION TURBINE GENERATORS WITH HRSG"S AND DUCT BURNERS. 2 - NATURAL GAS FIRED FUEL PREHEATERS. 1 - NATURAL GAS FIRED AUXILIARY BOILER	TURBINE, COMBINED CYCLE COMBUSTION #2 WITH HRSG AND DUCT BURNER.	15.21	NATURAL GAS	306	MW	4	PPMVD, 15% O_2	3 hr			
NV-0037	COPPER MOUNTAIN POWER	SEMPRA ENERGY RESOURCES	NV	A 600 MW COMBINED CYCLE ELECTRICAL GENERATION FACILITY CONSISTING OF TWO COMBUSTION TURBINE GENERATORS WITH HEAT RECOVERY STEAM GENERATORS, ONE STEAM TURBINE GENERATOR, AND ONE AUXILIARY BOILER.	LARGE COMBUSTION TURBINES, COMBINED CYCLE & COGENERATION	15.21	NATURAL GAS	600	MW	4	PPMVD	3 hr	1.9	PPMVD	3 hr
VA-0287	JAMES CITY ENERGY PARK	JAMES CITY ENERGY PARK LLC	VA	POWER GENERATING FACILITY	TURBINE, COMBINED CYCLE, NATURAL GAS,DUCT BURNER	15.21	NATURAL GAS	1973	MMBTU/ HR	4	PPM				
AZ-0043	DUKE ENERGY ARLINGTON VALLEY (AVEFII)	DUKE ENERGY ARLINGTON VALLEY	AZ	POWER PLANT	TURBINE, COMBINED CYCLE & DUCT BURNER	15.21	NATURAL GAS	325	MW	4	PPM	3 hr			
FL-0244	FPL MARTIN PLANT	FLORIDA POWER & LIGHT	FL	EXISTING POWER PLANT	TURBINE, COMBINED CYCLE WITH DUCT BURNER, NAT GAS	15.21	NATURAL GAS	170	MW	4	PPMVD, 15% O_2		10.5	LB/H	
AZ-0039	SALT RIVER PROJECT/SANTA N GEN. PLANT	SALT RIVER PROJECT/SAN TAN GEN. PLANT	AZ	POWER PLANT	TURBINE, COMBINED CYCLE, DUCT BURNER, NATURAL GAS	15.21	NATURAL GAS	175	MW	4	PPMVD, 15% O_2	3 hr			
*AZ-0049	LA PAZ GENERATING FACILITY	ALLEGHENY ENERGY SUPPLY LLC	AZ	NATURAL GAS FIRED, COMBINED CYCLE GENERATING STATION	GE COMBUSTION TURBINES AND HEAT RECOVERY STEAM GENERATORS	15.21	NATURAL GAS	1040	MW	4.5	PPMVD	3 hr	12.6	LB/H	
WA-0291	WALLULA POWER PLANT	WALLULA GENERATION, LLC	WA	WALLULA GENERATION, LLC, PROPOSES TO CONSTRUCT AND OPERATE A 1,300 MW COMBINED CYCLE ELECTRIC POWER PLANT. THE PROJECT WILL CONSIST OF TWO INDEPENDENT POWER BLOCKS WITH CRITICAL BACK-UP SYSTEMS TO MAINTAIN OVERALL PLANT RELIABILITY AND AVAILABILITY	TURBINE, COMBINED CYCLE, NATURAL GAS (4)	15.21	NATURAL GAS	1300	MW	5	PPMVD, 15% O_2	1 hr	16.2	LB/H	24 hr

Table G.2-4
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RBLCID	FACILITY NAME	CORPORATE OR COMPANY NAME	FACILITY STATE	FACILITY DESCRIPTION	PROCESS NAME	PROC TYPE	FUEL	THRU PUT	THRU PUT UNIT	EMIS LIMIT1	EMIS LIMIT1 UNIT	EMIS LIMIT1 AVG TIME CONDITION	EMIS LIMIT2	EMIS LIMIT2 UNIT	EMIS LIMIT2 AVG TIME CONDI-TION
NV-0033	EL DORADO ENERGY, LLC	EL DORADO ENERGY, LLC	NV	THE FACILITY CONSIST OF TWO COMBUSTION TURBINE GENERATORS (CTGS) TWO HEAT RECOVERY STEAM GENERATORS (HRSGS) AND ONE STEAM TURBINE GENERATOR. THE FACILITY IS LOCATED IN AN ATTAINMENT AREA FOR ALL CRITERIA AIR POLLUTANTS. INSIGNIFICAN EMISSION UNITS INCLUDE A 140 HP EMERGENCY FIRE -WATER PUMP AND A WET SURFACE AIR COOLER.	COMBUSTION TURBINE, COMBINED CYCLE & COGEN(2)	15.21	NATURAL GAS	475	MW	5.2	LB/H		6.6	LB/H	
NC-0101	FORSYTH ENERGY PLANT	FORSYTH ENERGY PROJECTS, LLC	NC	THREE COMBINED-CYCLE COMBUSTION TURBINE GENERATORS, EACH WITH A HEAT RECOVERY STEAM GENERATORS (HRSG) ALONG WITH NATURAL GAS-FIRED DUCT BURNERS TO MEET PEAK DEMAND. THE STEAM GENERATED THROUGH THE THREE HRSGS WILL DRIVE A STEAM TURBINE. THE ENTIRE PLANT WILL BE CAPABLE OF GENERATING A NOMINAL POWER OUTPUT OF 812 MEGAWATTS.	TURBINE & DUCT BURNER, COMBINED CYCLE, NAT GAS, 3	15.21	NATURAL GAS	1844.3	MMBTU/ HR	5.7	PPMVD, 15% O_2				

Table G.2-4

RBLC Database Natural Gas Fired, Combined-Cycle Combustion Turbines > 25 MW 1/1/2003 - 7/15/2008, Emission Limits for VOC

RBLCID	FACILITY NAME	CORPORATE OR COMPANY NAME	FACILITY STATE	FACILITY DESCRIPTION	PROCESS NAME	PROC TYPE	FUEL	THRU PUT	THRU PUT UNIT	EMIS LIMIT1	EMIS LIMIT1 UNIT	EMIS LIMIT1 AVG TIME CONDITION	EMIS LIMIT2	EMIS LIMIT2 UNIT	EMIS LIMIT2 AVG TIME CONDI-TION
TX-0374	CHOCOLATE BAYOU PLANT	BP AMOCO CHEMICAL CO	TX	BP AMOCO PROPOSES TO CONSTRUCT A GAS- FIRED STEAM AND ELECTRIC GENERATING FACILITY. THE PROPOSED PROJECT WILL BE CALLED THE GREEN POWER UNIT ONE. THE PROJECT WILL CONSIST OF TWO DUAL SHAFT GAS-FIRED ELECTRIC GENERATING TURBINES EACH RATED AT APPROX. 35 MW (BASE LOAD), EACH TURBINE WILL HAVE A HEAT RECOVERY STEAM GENERATOR (HRSG) EQUIPPED WITH 312 MMBTU/H DUCT BURNERS. GREEN POWER UNIT ONE WILL BE CAPABLE OF PRODUCING AN ESTIMATED NOMINAL 70 MW OF ELECTRICITY. STEAM PRODUCED IN THE HRSGS WILL BE USED IN THE CHOCOLATE BAYOU WORKS CHEMICAL COMPLEX. THE CHEMICAL COMPLEX WILL CONSUME APPROX. HALF OF THE ELECTRICAL OUTPUT PRODUCED BY THE TWO NEW TURBINES. EXCESS POWER PRODUCED BY THE COMBUSTION TURBINES WILL BE SOLD TO THE GRID. THE COMBUSTION TURBINES WILL ONLY BURN PIPELINE QUALITY SWEET NAT GAS. THE DUCT BURNERS WILL BURN NAT GAS, COMPLEX GAS, OR MIXTURES OF NAT GAS AND COMPLEX GAS.	(2) COGENERATION TRAINS 2 & 3, GT-2 & 3	15.21	NAT GAS	70	MW, TOTAL	6.14	LB/H		40.88	T/YR	
OR-0039	COB ENERGY FACILITY, LLC	Peoples Energy Resources	OR	POWER GENERATION FACILITY	TURBINE, COMBINED CYCLE, DUCT BURNER, NAT GAS, (4)	15.21	NATURAL GAS	1150	MW	7.1	LB/H	3 hr			

Table G.2-4
RBLC Database Natural Gas Fired, Combined-Cycle Combustion Turbines > 25 MW 1/1/2003 - 7/15/2008, Emission Limits for VOC

RBLCID	FACILITY NAME	CORPORATE OR COMPANY NAME	FACILITY STATE	FACILITY DESCRIPTION	PROCESS NAME	PROC TYPE	FUEL	THRU PUT	THRU PUT UNIT	EMIS LIMIT1	EMIS LIMIT1 UNIT	EMIS LIMIT1 AVG TIME CONDITION	EMIS LIMIT2	EMIS LIMIT2 UNIT	EMIS LIMIT2 AVG TIME CONDI-TION
MN-0054	MANKATO ENERGY CENTER		MN	COMBINED CYCLE GAS TURBINE ELECTRIC POWER PLANT. TWO IDENTICAL GE FRAME F7A GAS TURBINES EACH WITH HRSG W/DUCT BURNERS FEEDING STEAM TO COMMON STEAM TURBINES. PRIMARY FUEL IS NG, NO. 2 VERY LOW SULFUR DISTILLATE OIL FOR BACKUP. ALSO, AUX. BOILER, DIESEL EMERGENCY GNERATOR, DIESEL FIRE PUMP, AND 900,000 GAL ABOVE GROUN OIL STORAGE TANK.	COMBUSTION TURBINE, LARGE 2 EACH	15.21	NATURAL GAS	1827	MMBTU/ HR	7.1	PPMVD, 15% O_2	3 hr			
OR-0040	KLAMATH GENERATION, LLC	KLAMATH GENERATION, LLC	OR	POWER GENERATION FACILITY	TURBINE, COMBINED CYCLE, DUCT BURNER, NAT GAS (2)	15.21	NATURAL GAS	480	MW	7.2	LB/H	3 hr			
MI-0361	SOUTH SHORE POWER LLC	SOUTH SHORE POWER LLC	MI	ELECTRIC POWER GENERATING FACILITY.	TURBINE, COMBINED CYCLE, (2)	15.21	NATURAL GAS	172	MW	7.3	LB/H		31.8	T/YR	
MI-0365	MIRANT WYANDOTTE LLC	MIRANT WYANDOTTE LLC	MI	COMBINED CYCLE POWER PLANT.	TURBINE, COMBINED CYCLE, (2)	15.21	NATURAL GAS	2200	MMBTU/ HR	10	PPM				
OH-0254	DUKE ENERGY WASHINGTON COUNTY LLC	DUKE ENERGY NORTH AMERICA	OH	TWO 170 MW NATURAL GAS-FIRED COMBUSTION TURBINES, COMBINED CYCLE	TURBINES (2) (MODEL GE 7FA), DUCT BURNERS ON	15.21	NATURAL GAS	170	MW	19.6	LB/H		94	LB/H	MAXIMUM DURING STARTUP OR SHUTDOWN
OH-0252	DUKE ENERGY HANGING ROCK ENERGY FACILITY	DUKE ENERGY HANGING ROCK, LLC	OH	FOUR NATURAL GAS (NG) FIRED COMBUSTION TURBINES, WITH DUCT BURNERS; COMBINED CYCLE, EACH 172 MW	TURBINES (4) (MODEL GE 7FA), DUCT BURNERS ON	15.21	NATURAL GAS	172	MW	20.4	LB/H		94	LB/H	MAXIMUM DURING STARTUP OR SHUTDOWN
VA-0289	DUKE ENERGY WYTHE, LLC	DUKE ENERGY WYTHE, LLC	VA	POWER PLANT	TURBINE, COMBINED CYCLE, DUCT BURNER, NATURAL GAS	15.21	NATURAL GAS	170	MW	21	LB/H				
MI-0363	BLUEWATER ENERGY CENTER LLC	BLUEWATER ENERGY CENTER LLC	MI	COMBINED CYCLE ELECTRIC GENERATING POWER PLANT.	TURBINE, COMBINED CYCLE, (3)	15.21	NATURAL GAS	180	MW	28	LB/H		246	T/YR	

Table G.2-4
RBLC Database Natural Gas Fired, Combined-Cycle Combustion Turbines > 25 MW 1/1/2003 - 7/15/2008, Emission Limits for VOC

RBLCID	FACILITY NAME	CORPORATE OR COMPANY NAME	FACILITY STATE	FACILITY DESCRIPTION	PROCESS NAME	PROC TYPE	FUEL	THRU PUT	THRU PUT UNIT	EMIS LIMIT1	EMIS LIMIT1 UNIT	EMIS LIMIT1 AVG TIME CONDITION	EMIS LIMIT2	EMIS LIMIT2 UNIT	EMIS LIMIT2 AVG TIME CONDI-TION
MN-0054	MANKATO ENERGY CENTER		MN	COMBINED CYCLE GAS TURBINE ELECTRIC POWER PLANT. TWO IDENTICAL GE FRAME F7A GAS TURBINES EACH WITH HRSG W/DUCT BURNERS FEEDING STEAM TO COMMON STEAM TURBINES. PRIMARY FUEL IS NG, NO. 2 VERY LOW SULFUR DISTILLATE OIL FOR BACKUP. ALSO, AUX. BOILER, DIESEL EMERGENCY GNERATOR, DIESEL FIRE PUMP, AND 900,000 GAL ABOVE GROUN OIL STORAGE TANK.	COMBUSTION TURBINE, LARGE, 2 EACH	15.21	NATURAL GAS	1916	MMBTU/ HR	34	PPMVD, 15% O_2	3 hr			
OK-0090	DUKE ENERGY STEPHENS, LLC STEPHENS ENERGY	DUKE ENERGY	OK	MERCHANT POWER PLANT - NOMINAL TOTAL OF 620 MW.	TURBINES, COMBINED CYCLE (2)	15.21	NATURAL GAS	1701	MMBTU/H	45.6	LB/H				
WA-0315	SUMAS ENERGY 2 GENERATION FACILITY	SUMAS ENERGY 2 GENERATION FACILITY	WA		TURBINES, COMBINED CYCLE, (2)	15.21	NATURAL GAS	660	MW	420	LB/D				
*LA-0224	ARSENAL HILL POWER PLANT	SOUTHWEST ELECTRIC POWER COMPANY (SWEPCO)	LA	2 COMBUSTION TURBINE GENERATOR (CTG)/DUCT BURNER	COMBUSTION TURBINE GENERATOR (CTG)/DUCT BURNERLOW-NOx BURNER (LNB), SELECTIVE CATALYTIC REDUCTION (SCR)	15.21	NATURAL GAS	2110	MMBTU/H R	4.9	PPMVD, 15% O_2	ANNUAL AVERAGE			
*CT-0151	KLEEN ENERGY SYSTEMS, LLC	KLEEN ENERGY SYSTEMS, LLC	CT	2 SIEMENS SGT6-5000F CTG WITH DUCT BURNER	2 SIEMENS SGT6-5000F CTG WITH DUCT BURNER, LNB, SCR, OXIDATION CATALYST (OC)	15.21	NATURAL GAS	CTG: 2136, DUCT BURNER : 445	MMBTU/ HR	10.8-W DUCT BURNER, 10.0-W/O DUCT BURNER	LB/HR				
*VA-0304	CPV WARREN	CPV WARREN	VA	2 GE MODEL 7FA COMBINED CYCLE CTG EACH RATED AT 180,000 KW	2 GE MODEL 7FA COMBINED CYCLE CTG EACH RATED AT 180,000 KW, LEAN PREMIX DRY LOW-NOx COMBUSTION, SCR, OC, GOOD COMBUSTION PRACTICES.	15.21	NATURAL GAS	1717	MMBTU/H R	1.0-W DUCT BURNER, 1.4 W DUCT BURNER AND POWER AUGMENTATION , 0.7 W/O DUCT BURNER	PPMVD				

Table G.2-4
RBLC Database Natural Gas Fired, Combined-Cycle Combustion Turbines > 25 MW 1/1/2003 - 7/15/2008, Emission Limits for VOC

RBLCID	FACILITY NAME	CORPORATE OR COMPANY NAME	FACILITY STATE	FACILITY DESCRIPTION	PROCESS NAME	PROC TYPE	FUEL	THRU PUT	THRU PUT UNIT	EMIS LIMIT1	EMIS LIMIT1 UNIT	EMIS LIMIT1 AVG TIME CONDITION	EMIS LIMIT2	EMIS LIMIT2 UNIT	EMIS LIMIT2 AVG TIME CONDI-TION
*TX-0497	INEOS CHOCOLATE BAYOU FACILITY	INEOS USA LLC	TX	GAS FIRED TURBINES WITH DUCT BURNERS	GAS FIRED TURBINES WITH DUCT BURNERS, SCR	15.21	NATURAL GAS	35-TURBINES, 312-DUCT BURNERS	MW-TURBINES, MMBTU/HR -DUCT BURNERS	6.14	LB/HR				
MN-0066	NORTHERN STATES POWER CO. DBA XCEL ENERGY - RIVERSIDE PLANT	NORTHERN STATES POWER CO. DBA XCEL ENERGY	MN	2 COMBUSTION TURBINE	2 CT, GOOD COMBUSTION PRACTICES	15.21	NATURAL GAS	1885	MMBTU/HR	4.6	PPMVD, 15% O_2	3-HR			

Table G.2-5

RBLC Database Natural Gas Fired, Combined-Cycle Combustion Turbines > 25 MW 1/1/2003 - 7/15/2008, Emission Limits for PM/PM10

RBLCID	FACILITY NAME	CORPORATE OR COMPANY NAME	FACILITY STATE	FACILITY DESCRIPTION	PROCESS NAME	PROC TYPE	FUEL	THRU PUT	THRU PUT UNIT	POLLUTANT	EMIS LIMIT1	EMIS LIMIT1 UNIT	EMIS LIMIT1 AVG TIME CONDITION
WA-0291	WALLULA POWER PLANT	WALLULA GENERATION, LLC	WA	WALLULA GENERATION, LLC, PROPOSES TO CONSTRUCT AND OPERATE A 1,300 MW COMBINED CYCLE ELECTRIC POWER PLANT. THE PROJECT WILL CONSIST OF TWO INDEPENDENT POWER BLOCKS WITH CRITICAL BACK-UP SYSTEMS TO MAINTAIN OVERALL PLANT RELIABILITY AND AVAILABILITY.	TURBINE, COMBINED CYCLE, NATURAL GAS (4)	15.21	NATURAL GAS	1300	MW	PM	0.0029	GR/DSCF	
WA-0291	WALLULA POWER PLANT	WALLULA GENERATION, LLC	WA	WALLULA GENERATION, LLC, PROPOSES TO CONSTRUCT AND OPERATE A 1,300 MW COMBINED CYCLE ELECTRIC POWER PLANT. THE PROJECT WILL CONSIST OF TWO INDEPENDENT POWER BLOCKS WITH CRITICAL BACK-UP SYSTEMS TO MAINTAIN OVERALL PLANT RELIABILITY AND AVAILABILITY.	TURBINE, COMBINED CYCLE, NATURAL GAS (4)	15.21	NATURAL GAS	1300	MW	PM10	0.0029	GR/DSCF	1 hr
OR-0040	KLAMATH GENERATION, LLC	KLAMATH GENERATION, LLC	OR	POWER GENERATION FACILITY	TURBINE, COMBINED CYCLE, DUCT BURNER, NAT GAS (2)	15.21	NATURAL GAS	480	MW	PM10	0.0042	LB/MMBTU	8 hr
CO-0056	ROCKY MOUNTAIN ENERGY CENTER, LLC	CALPINE CORP.	CO	NATURAL GAS-FIRED, COMBINED-CYCLE COMBUSTION TURBINES.	NATURAL-GAS FIRED, COMBINED-CYCLE TURBINE	15.21	NATURAL GAS	300	MW	PM10	0.0074	LB/MMBTU	
MN-0054	MANKATO ENERGY CENTER		MN	COMBINED CYCLE GAS TURBINE ELECTRIC POWER PLANT. TWO IDENTICAL GE FRAME F7A GAS TURBINES EACH WITH HRSG W/DUCT BURNERS FEEDING STEAM TO COMMON STEAM TURBINES. PRIMARY FUEL IS NG, NO. 2 VERY LOW SULFUR DISTILLATE OIL FOR BACKUP. ALSO, AUX. BOILER, DIESEL EMERGENCY GNERATOR, DIESEL FIRE PUMP, AND 900,000 GAL ABOVE GROUN OIL STORAGE TANK.	COMBUSTION TURBINE, LARGE, 2 EACH	15.21	NATURAL GAS	1916	MMBTU/HR	PM	0.009	LB/MMBTU	3 hr
GA-0105	MCINTOSH COMBINED CYCLE FACILITY	SAVANNAH ELECTRIC AND POWER CO	GA	ELECTRIC GENERATING FACILITY	TURBINE, COMBINED CYCLE, NATURAL GAS, (4)	15.21	NATURAL GAS	140	MW	PM	0.009	LB/MMBTU	
MN-0054	MANKATO ENERGY CENTER		MN	COMBINED CYCLE GAS TURBINE ELECTRIC POWER PLANT. TWO IDENTICAL GE FRAME F7A GAS TURBINES EACH WITH HRSG W/DUCT BURNERS FEEDING STEAM TO COMMON STEAM TURBINES. PRIMARY FUEL IS NG, NO. 2 VERY LOW SULFUR DISTILLATE OIL FOR BACKUP. ALSO, AUX. BOILER, DIESEL EMERGENCY GNERATOR, DIESEL FIRE PUMP, AND 900,000 GAL ABOVE GROUN OIL STORAGE TANK.	COMBUSTION TURBINE, LARGE, 2 EACH	15.21	NATURAL GAS	1916	MMBTU/HR	PM10	0.009	LB/MMBTU	3 hr
MN-0053	FAIRBAULT ENERGY PARK	MN MUNICIPAL POWER AGENCY	MN	LARGE COMBUSTION TURBINE ELECTRIC POWER PLANT - INITIAL OPERATION IN SIMPLE CYCLE AND CONVERSION TO COMBINED CYCLE IN THE FUTURE.	TURBINE, COMBINED CYCLE, NATURAL GAS (1)	15.21	NATURAL GAS	1876	MMBTU/HR	PM	0.01	LB/MMBTU	3 hr

Table G.2-5
RBLC Database Natural Gas Fired, Combined-Cycle Combustion Turbines > 25 MW 1/1/2003 - 7/15/2008, Emission Limits for PM/PM10

RBLCID	FACILITY NAME	CORPORATE OR COMPANY NAME	FACILITY STATE	FACILITY DESCRIPTION	PROCESS NAME	PROC TYPE	FUEL	THRU PUT	THRU PUT UNIT	POLLUTANT	EMIS LIMIT1	EMIS LIMIT1 UNIT	EMIS LIMIT1 AVG TIME CONDITION
CA-1096	VERNON CITY LIGHT & POWER	VERNON CITY LIGHT & POWER	CA		GAS TURBINE: COMBINED CYCLE < 50 MW	15.21	NATURAL GAS	43	MW GAS TURBINE, 55 MW STEAM TURBINE	PM	0.01	G/SCF	
CA-1097	MAGNOLIA POWER PROJECT, SCPPA	MAGNOLIA POWER PROJECT, SCPPA	CA		GAS TURBINE: COMBINED CYCLE >= 50 MW	15.21	NATURAL GAS	181	NET MW (GAS TURBINE W/STEAM INJECTION)	PM	0.01	G/SCF	
AZ-0039	SALT RIVER PROJECT/SANTAN GEN. PLANT	SALT RIVER PROJECT/SANTAN GEN. PLANT	AZ	POWER PLANT	TURBINE, COMBINED CYCLE, DUCT BURNER, NATURAL GAS	15.21	NATURAL GAS	175	MW	PM10	0.01	LB/MMBTU	3 hr
NV-0035	TRACY SUBSTATION EXPANSION PROJECT	SIERRA PACIFIC POWER COMPANY	NV	2 - NATURAL GAS FIRED COMBINED CYCLE COMBUSTION TURBINE GENERATORS WITH HRSG"S AND DUCT BURNERS. 2 - NATURAL GAS FIRED FUEL PREHEATERS. 1 - NATURAL GAS FIRED AUXILIARY BOILER	TURBINE, COMBINED CYCLE COMBUSTION #1 WITH HRSG AND DUCT BURNER.	15.21	NATURAL GAS	306	MW	PM10	0.011	LB/MMBTU	3 hr
NV-0035	TRACY SUBSTATION EXPANSION PROJECT	SIERRA PACIFIC POWER COMPANY	NV	2 - NATURAL GAS FIRED COMBINED CYCLE COMBUSTION TURBINE GENERATORS WITH HRSG"S AND DUCT BURNERS. 2 - NATURAL GAS FIRED FUEL PREHEATERS. 1 - NATURAL GAS FIRED AUXILIARY BOILER	TURBINE, COMBINED CYCLE COMBUSTION #2 WITH HRSG AND DUCT BURNER.	15.21	NATURAL GAS	306	MW	PM10	0.011	LB/MMBTU	3 hr
OK-0096	REDBUD POWER PLANT	REDBUD ENERGY LP	OK	ELECTRICITY GENERATION	COMBUSTION TURBINE AND DUCT BURNERS	15.21	NATURAL GAS	1832	MMBTU/HR	PM	0.012	LB/MMBTU	
VA-0291	CPV WARREN LLC	CPV WARREN LLC	VA	COMBINED CYCLE POWER GENERATION	TURBINE, COMBINED CYCLE (2)	15.21	NATURAL GAS	1717	MMBTU/HR	PM10	0.013	LB/MMBTU	
OK-0090	DUKE ENERGY STEPHENS, LLC STEPHENS ENERGY	DUKE ENERGY	OK	MERCHANT POWER PLANT - NOMINAL TOTAL OF 620 MW.	TURBINES, COMBINED CYCLE (2)	15.21	NATURAL GAS	1701	MMBTU/HR	PM10	0.015	LB/MMBTU	

Table G.2-5
RBLC Database Natural Gas Fired, Combined-Cycle Combustion Turbines > 25 MW 1/1/2003 - 7/15/2008, Emission Limits for PM/PM10

RBLCID	FACILITY NAME	CORPORATE OR COMPANY NAME	FACILITY STATE	FACILITY DESCRIPTION	PROCESS NAME	PROC TYPE	FUEL	THRU PUT	THRU PUT UNIT	POLLUTANT	EMIS LIMIT1	EMIS LIMIT1 UNIT	EMIS LIMIT1 AVG TIME CONDITION
NC-0101	FORSYTH ENERGY PLANT	FORSYTH ENERGY PROJECTS, LLC	NC	THREE COMBINED-CYCLE COMBUSTION TURBINE GENERATORS, EACH WITH A HEAT RECOVERY STEAM GENERATORS (HRSG) ALONG WITH NATURAL GAS-FIRED DUCT BURNERS TO MEET PEAK DEMAND. THE STEAM GENERATED THROUGH THE THREE HRSGS WILL DRIVE A STEAM TURBINE. THE ENTIRE PLANT WILL BE CAPABLE OF GENERATING A NOMINAL POWER OUTPUT OF 812 MEGAWATTS.	TURBINE, COMBINED CYCLE, NATURAL GAS, (3)	15.21	NATURAL GAS	1844.3	MMBTU/ HR	PM10	0.019	LB/MMBTU	3 hr
NC-0101	FORSYTH ENERGY PLANT	FORSYTH ENERGY PROJECTS, LLC	NC	THREE COMBINED-CYCLE COMBUSTION TURBINE GENERATORS, EACH WITH A HEAT RECOVERY STEAM GENERATORS (HRSG) ALONG WITH NATURAL GAS-FIRED DUCT BURNERS TO MEET PEAK DEMAND. THE STEAM GENERATED THROUGH THE THREE HRSGS WILL DRIVE A STEAM TURBINE. THE ENTIRE PLANT WILL BE CAPABLE OF GENERATING A NOMINAL POWER OUTPUT OF 812 MEGAWATTS.	TURBINE & DUCT BURNER, COMBINED CYCLE, NAT GAS, 3	15.21	NATURAL GAS	1844.3	MMBTU/ HR	PM10	0.021	LB/MMBTU	3 hr
MN-0054	MANKATO ENERGY CENTER		MN	COMBINED CYCLE GAS TURBINE ELECTRIC POWER PLANT. TWO IDENTICAL GE FRAME F7A GAS TURBINES EACH WITH HRSG W/DUCT BURNERS FEEDING STEAM TO COMMON STEAM TURBINES. PRIMARY FUEL IS NG, NO. 2 VERY LOW SULFUR DISTILLATE OIL FOR BACKUP. ALSO, AUX. BOILER, DIESEL EMERGENCY GNERATOR, DIESEL FIRE PUMP, AND 900,000 GAL ABOVE GROUN OIL STORAGE TANK.	COMBUSTION TURBINE, LARGE 2 EACH	15.21	NATURAL GAS	1827	MMBTU/ HR	PM	0.057	LB/MMBTU	3 hr
MN-0054	MANKATO ENERGY CENTER		MN	COMBINED CYCLE GAS TURBINE ELECTRIC POWER PLANT. TWO IDENTICAL GE FRAME F7A GAS TURBINES EACH WITH HRSG W/DUCT BURNERS FEEDING STEAM TO COMMON STEAM TURBINES. PRIMARY FUEL IS NG, NO. 2 VERY LOW SULFUR DISTILLATE OIL FOR BACKUP. ALSO, AUX. BOILER, DIESEL EMERGENCY GNERATOR, DIESEL FIRE PUMP, AND 900,000 GAL ABOVE GROUN OIL STORAGE TANK.	COMBUSTION TURBINE, LARGE 2 EACH	15.21	NATURAL GAS	1827	MMBTU/ HR	PM10	0.057	LB/MMBTU	3 hr
UT-0066	CURRANT CREEK	PACIFICORP	UT	POWER GENERATION PLANT WITH TWO NATURAL GAS COMBINED CYCLE TURBINES	NATURAL GAS FIRED TURBINES AND HEAT RECOVERY STEAM GENERATORS	15.21	NATURAL GAS			PM10	0.066	LB/MMBTU	18 hr
MI-0365	MIRANT WYANDOTTE LLC	MIRANT WYANDOTTE LLC	MI	COMBINED CYCLE POWER PLANT.	TURBINE, COMBINED CYCLE, (2)	15.21	NATURAL GAS	2200	MMBTU/ HR	PM10	5.6	MG/CM	

Table G.2-5
RBLC Database Natural Gas Fired, Combined-Cycle Combustion Turbines > 25 MW 1/1/2003 - 7/15/2008, Emission Limits for PM/PM10

RBLCID	FACILITY NAME	CORPORATE OR COMPANY NAME	FACILITY STATE	FACILITY DESCRIPTION	PROCESS NAME	PROC TYPE	FUEL	THRU PUT	THRU PUT UNIT	POLLUTANT	EMIS LIMIT1	EMIS LIMIT1 UNIT	EMIS LIMIT1 AVG TIME CONDITION
CEC DECISION PENDING	LOS ESTEROS CRITICAL ENERGY FACILITY, PHASE II	LOS ESTEROS CRITICAL ENERGY FACILITY, LLC	CA	CONVERSION OF EXISTING 180 MW SIMPLE-CYCLE POWER PLANT TO A 320 MW COMBINED-CYCLE PLANT WITH ADDITION OF FOUR HRSGs WITH DUCT BURNERS, STEAM TURBINE, CONDENSERS AND A COOLING TOWER	TURBINE, COMBINED CYCLE, NATURAL GAS & HEAT RECOVERY STEAM GENERATOR	15.21	NATURAL GAS	320	MW	PM10	2.5	LB/ HR	
not listed	BLYTHE ENERGY PROJECT, PHASE II	CAITHNESS BLYTHE II, LLC	CA	520 MW NATURAL GAS-FIRED COMBINED-CYCLE GENERATING FACILITY ADJACENT TO BLYTHE ENERGY PROJECT PHASE I. IT WILL HAVE TWO SEIMENS WESTINGHOUSE CGTS WITH DRY LOW-NOX COMBUSTERS, TWO HRSGs WITH DUCT BURNERS, ONE STEAM TURBINE, CONDENSERS AND A COOLING TOWER	TURBINE, COMBINED CYCLE, NATURAL GAS & HEAT RECOVERY STEAM GENERATOR	15.21	NATURAL GAS	520	MW	PM10	6	LB/ HR	
LA-0191	MICHOUD ELECTRIC GENERATING PLANT	ENTERGY NEW ORLEANS, INC.	LA	EXISTING POWER PLANT COMPRISED OF 3 BOILERS CAPABLE OF FIRING NATURAL GAS & NO. 6 FUEL OIL. PROJECT INVOLVES ADDITION OF A 498 MW COMBINED CYCLE OPERATION CONSISTING OF 2 TURBINES AND SUPPLEMENTARY FIRED HRSGS (DUCT BURNERS). DURING PHASE I OF THE PROJECT, THE TURBINES WILL BE OPERATED IN SIMPLE CYCLE MODE.	COMBUSTION GAS TURBINES 4 & 5 (COMBINED CYCLE)	15.21		1595	MM BTU/ HR ea.	PM10	7.85	LB/H*	1 hr
NV-0033	EL DORADO ENERGY, LLC	EL DORADO ENERGY, LLC	NV	THE FACILITY CONSIST OF TWO COMBUSTION TURBINE GENERATORS (CTGS) TWO HEAT RECOVERY STEAM GENERATORS (HRSGS) AND ONE STEAM TURBINE GENERATOR. THE FACILITY IS LOCATED IN AN ATTAINMENT AREA FOR ALL CRITERIA AIR POLLUTANTS. INSIGNIFICAN EMISSION UNITS INCLUDE A 140 HP EMERGENCY FIRE -WATER PUMP AND A WET SURFACE AIR COOLER.	COMBUSTION TURBINE, COMBINED CYCLE & COGEN(2)	15.21	NATURAL GAS	475	MW	PM10	9	LB/ HR	
CA-0997	SACRAMENTO MUNICIPAL UTILITY DISTRICT	SACRAMENTO MUNICIPAL UTILITY DISTRICT	CA	COMBUSTION GAS TURBINE GE 7FA	GAS TURBINES, (2)	15.21	NATURAL GAS	1611	MMBTU/ HR	PM10	9	LB/ HR	
FL-0265	HINES POWER BLOCK 4	PROGRESS ENERGY	FL	COMBINED CYCLE POWER PLANT. THIS IS THE 4TH BLOCK OF POWER ADDED, MAKING THE TOTAL GENERATING CAPACITY OF THE FACILITY APPROXIMATELY 2090 MW.	COMBINED CYCLE TURBINE	15.21	NATURAL GAS	530	MW	PM10	10	% OPACITY	6 min block avg.

Table G.2-5
RBLC Database Natural Gas Fired, Combined-Cycle Combustion Turbines > 25 MW 1/1/2003 - 7/15/2008, Emission Limits for PM/PM10

RBLCID	FACILITY NAME	CORPORATE OR COMPANY NAME	FACILITY STATE	FACILITY DESCRIPTION	PROCESS NAME	PROC TYPE	FUEL	THRU PUT	THRU PUT UNIT	POLLUTANT	EMIS LIMIT1	EMIS LIMIT1 UNIT	EMIS LIMIT1 AVG TIME CONDITION
TX-0374	CHOCOLATE BAYOU PLANT	BP AMOCO CHEMICAL CO	TX	BP AMOCO PROPOSES TO CONSTRUCT A GAS- FIRED STEAM AND ELECTRIC GENERATING FACILITY. THE PROPOSED PROJECT WILL BE CALLED THE GREEN POWER UNIT ONE. THE PROJECT WILL CONSIST OF TWO DUAL SHAFT GAS-FIRED ELECTRIC GENERATING TURBINES EACH RATED AT APPROX. 35 MW (BASE LOAD), EACH TURBINE WILL HAVE A HEAT RECOVERY STEAM GENERATOR (HRSG) EQUIPPED WITH 312 MMBTU/H DUCT BURNERS. GREEN POWER UNIT ONE WILL BE CAPABLE OF PRODUCING AN ESTIMATED NOMINAL 70 MW OF ELECTRICITY. STEAM PRODUCED IN THE HRSGS WILL BE USED IN THE CHOCOLATE BAYOU WORKS CHEMICAL COMPLEX. THE CHEMICAL COMPLEX WILL CONSUME APPROX. HALF OF THE ELECTRICAL OUTPUT PRODUCED BY THE TWO NEW TURBINES. EXCESS POWER PRODUCED BY THE COMBUSTION TURBINES WILL BE SOLD TO THE GRID. THE COMBUSTION TURBINES WILL ONLY BURN PIPELINE QUALITY SWEET NAT GAS. THE DUCT BURNERS WILL BURN NAT GAS, COMPLEX GAS, OR MIXTURES OF NAT GAS AND COMPLEX GAS.	(2) COGENERATION TRAINS 2 & 3, GT-2 & 3	15.21	NAT GAS	70	MW, TOTAL	PM10	10.03	LB/ HR	
*NE-0023	BEATRICE POWER STATION	NEBRASKA PUBLIC POWER DISTRICT	NE	PERMIT TO CONSTRUCT: 2-NG TURBINES, 250 MW TOTAL AND ONE AUX. BOILER, 73 MMBTU/HR, OIL FIRED	2-COMBUSTION TURBINES W/ DUCT BURNER	15.21	NATURAL GAS	250	MW	PM	10.8	LB/ HR	
NE-0017	BEATRICE POWER STATION	NEBRASKA PUBLIC POWER DISTRICT	NE	ELECTRIC GENERATING FACILITY	TURBINE, COMBINED CYCLE, (2)	15.21	NATURAL GAS	80	MW	PM	10.8	LB/ HR	
NV-0038	IVANPAH ENERGY CENTER, L.P.	IVANPAH ENERGY CENTER, L.P.	NV	A 500 MW ELECTRICAL GENERATING PLANT CONSISTING OF TWO COMBUSTION TURBINE GENERATORS, TWO HEAT RECOVERY STEAM GENERATORS, ONE STEAM TURBINE GENERATOR. THE PROPOSED PLANT IS SURROUNDED BY UNOCCUPIED LAND FOR A DISTANCE OF AT LEAST TWO MILES IN ALL DIRECTIONS. THE UN-IMPROVED ACCESS ROAD TO THE PROPOSED PLANT SITE IS ABOUT 1.6 MILES IN LENGTH.	LARGE COMBUSTION TURBINES, COMBINED CYCLE & COGENERATION	15.21	NATURAL GAS	500	MW	PM10	11.25	LB/ HR	
OR-0039	COB ENERGY FACILITY, LLC	Peoples Energy Resources	OR	POWER GENERATION FACILITY	TURBINE, COMBINED CYCLE, DUCT BURNER, NAT GAS, (4)	15.21	NATURAL GAS	1150	MW	PM10	14	LB/ HR	
OH-0252	DUKE ENERGY HANGING ROCK ENERGY FACILITY	DUKE ENERGY HANGING ROCK, LLC	OH	FOUR NATURAL GAS (NG) FIRED COMBUSTION TURBINES, WITH DUCT BURNERS; COMBINED CYCLE, EACH 172 MW	TURBINES (4) (MODEL GE 7FA), DUCT BURNERS OFF	15.21	NATURAL GAS	172	MW	PM10	15	LB/ HR	

Table G.2-5

RBLC Database Natural Gas Fired, Combined-Cycle Combustion Turbines > 25 MW 1/1/2003 - 7/15/2008, Emission Limits for PM/PM10

RBLCID	FACILITY NAME	CORPORATE OR COMPANY NAME	FACILITY STATE	FACILITY DESCRIPTION	PROCESS NAME	PROC TYPE	FUEL	THRU PUT	THRU PUT UNIT	POLLUTANT	EMIS LIMIT1	EMIS LIMIT1 UNIT	EMIS LIMIT1 AVG TIME CONDITION
MD-0032	DICKERSON	MIRANT MID-ATLANTIC, LLC	MD	PROJECT IS TO CONVERT EXISTING SIMPLE CYCLE CTS TO COMBINED CYCLE OPERATION, WITH INSTALLATION OF HRSGS AND STEAM TURBINE; AND CONSTRUCTION OF A NEW SIMILAR COMBINED CYCLE UNIT, PERMIT INCLUDES LIMITS FOR BOTH COMBINED AND SIMPLE CYCLE OPERATION AND WITH AND WITHOUT DUCT FIRING	UNIT 5 -GE FRAME 7F COMB. TURBINES W/ HRSG - NG CC	15.21	NATURAL GAS	196	MW	PM10	15	LB/ HR	3 hr
VA-0289	DUKE ENERGY WYTHE, LLC	DUKE ENERGY WYTHE, LLC	VA	POWER PLANT	TURBINE, COMBINED CYCLE, NATURAL GAS	15.21	NATURAL GAS	170	MW	PM10	17.5	LB/ HR	
VA-0287	JAMES CITY ENERGY PARK	JAMES CITY ENERGY PARK LLC	VA	POWER GENERATING FACILITY	TURBINE, COMBINED CYCLE, NATURAL GAS	15.21	NATURAL GAS	1973	MMBTU/ HR	PM	18	LB/ HR	
VA-0287	JAMES CITY ENERGY PARK	JAMES CITY ENERGY PARK LLC	VA	POWER GENERATING FACILITY	TURBINE, COMBINED CYCLE, NATURAL GAS	15.21	NATURAL GAS	1973	MMBTU/ HR	PM10	18	LB/ HR	
AZ-0043	DUKE ENERGY ARLINGTON VALLEY (AVEFII)	DUKE ENERGY ARLINGTON VALLEY	AZ	POWER PLANT	TURBINE, COMBINED CYCLE	15.21	NATURAL GAS	325	MW	PM10	18	LB/ HR	
MI-0366	BERRIEN ENERGY, LLC	BERRIEN ENERGY, LLC	MI	ELECTRIC POWER GENERATING FACILITY.	3 COMBUSTION TURBINES AND DUCT BURNERS	15.21	NATURAL GAS	1584	MMBTU/ HR	PM10	19	LB/ HR	
OH-0254	DUKE ENERGY WASHINGTON COUNTY LLC	DUKE ENERGY NORTH AMERICA	OH	TWO 170 MW NATURAL GAS-FIRED COMBUSTION TURBINES, COMBINED CYCLE	TURBINES (2) (MODEL GE 7FA), DUCT BURNERS OFF	15.21	NATURAL GAS	170	MW	PM10	19	LB/ HR	
MI-0363	BLUEWATER ENERGY CENTER LLC	BLUEWATER ENERGY CENTER LLC	MI	COMBINED CYCLE ELECTRIC GENERATING POWER PLANT.	TURBINE, COMBINED CYCLE, (3)	15.21	NATURAL GAS	180	MW	PM10	19.6	LB/ HR	
MS-0073	RELIANT ENERGY CHOCTAW COUNTY, LLC		MS	THREE GE COMBINE CYCLE TURBINED RATED @ 230 MEGAWATTS EACH WITH SCR FOR POLLUTION CONTROL	EMISSION POINT AA-001 GEN. ELEC. COMBUST. TURBINE	15.21	NATURAL GAS	230	MW	PM10	20.59	LB/ HR	
MS-0073	RELIANT ENERGY CHOCTAW COUNTY, LLC		MS	THREE GE COMBINE CYCLE TURBINED RATED @ 230 MEGAWATTS EACH WITH SCR FOR POLLUTION CONTROL	EMISSION POINT AA-002 GEN ELEC. COMB. TURBINE	15.21		230	MW	PM10	20.59	LB/ HR	
MS-0073	RELIANT ENERGY CHOCTAW COUNTY, LLC		MS	THREE GE COMBINE CYCLE TURBINED RATED @ 230 MEGAWATTS EACH WITH SCR FOR POLLUTION CONTROL	EMISSION POINT AA-003 GEN. ELEC COMB TURBINES	15.21		230	MW	PM10	20.59	LB/ HR	
NV-0037	COPPER MOUNTAIN POWER	SEMPRA ENERGY RESOURCES	NV	A 600 MW COMBINED CYCLE ELECTRICAL GENERATION FACILITY CONSISTING OF TWO COMBUSTION TURBINE GENERATORS WITH HEAT RECOVERY STEAM GENERATORS, ONE STEAM TURBINE GENERATOR, AND ONE AUXILIARY BOILER.	LARGE COMBUSTION TURBINES, COMBINED CYCLE & COGENERATION	15.21	NATURAL GAS	600	MW	PM10	21.3	LB/ HR	

Table G.2-5
RBLC Database Natural Gas Fired, Combined-Cycle Combustion Turbines > 25 MW 1/1/2003 - 7/15/2008, Emission Limits for PM/PM10

RBLCID	FACILITY NAME	CORPORATE OR COMPANY NAME	FACILITY STATE	FACILITY DESCRIPTION	PROCESS NAME	PROC TYPE	FUEL	THRU PUT	THRU PUT UNIT	POLLUTANT	EMIS LIMIT1	EMIS LIMIT1 UNIT	EMIS LIMIT1 AVG TIME CONDITION
OH-0252	DUKE ENERGY HANGING ROCK ENERGY FACILITY	DUKE ENERGY HANGING ROCK, LLC	OH	FOUR NATURAL GAS (NG) FIRED COMBUSTION TURBINES, WITH DUCT BURNERS; COMBINED CYCLE, EACH 172 MW	TURBINES (4) (MODEL GE 7FA), DUCT BURNERS ON	15.21	NATURAL GAS	172	MW	PM10	23.3	LB/ HR	
VA-0289	DUKE ENERGY WYTHE, LLC	DUKE ENERGY WYTHE, LLC	VA	POWER PLANT	TURBINE, COMBINED CYCLE, DUCT BURNER, NATURAL GAS	15.21	NATURAL GAS	170	MW	PM10	23.7	LB/ HR	
MI-0361	SOUTH SHORE POWER LLC	SOUTH SHORE POWER LLC	MI	ELECTRIC POWER GENERATING FACILITY.	TURBINE, COMBINED CYCLE, (2)	15.21	NATURAL GAS	172	MW	PM10	24	LB/ HR	
VA-0287	JAMES CITY ENERGY PARK	JAMES CITY ENERGY PARK LLC	VA	POWER GENERATING FACILITY	TURBINE, COMBINED CYCLE, NATURAL GAS,DUCT BURNER	15.21	NATURAL GAS	1973	MMBTU/ HR	PM	24.7	LB/ HR	
VA-0287	JAMES CITY ENERGY PARK	JAMES CITY ENERGY PARK LLC	VA	POWER GENERATING FACILITY	TURBINE, COMBINED CYCLE, NATURAL GAS,DUCT BURNER	15.21	NATURAL GAS	1973	MMBTU/ HR	PM10	24.7	LB/ HR	
AZ-0043	DUKE ENERGY ARLINGTON VALLEY (AVEFII)	DUKE ENERGY ARLINGTON VALLEY	AZ	POWER PLANT	TURBINE, COMBINED CYCLE & DUCT BURNER	15.21	NATURAL GAS	325	MW	PM10	25	LB/ HR	
MD-0032	DICKERSON	MIRANT MID-ATLANTIC, LLC	MD	PROJECT IS TO CONVERT EXISTING SIMPLE CYCLE CTS TO COMBINED CYCLE OPERATION, WITH INSTALLATION OF HRSGS AND STEAM TURBINE; AND CONSTRUCTION OF A NEW SIMILAR COMBINED CYCLE UNIT, PERMIT INCLUDES LIMITS FOR BOTH COMBINED AND SIMPLE CYCLE OPERATION AND WITH AND WITHOUT DUCT FIRING	UNIT 4 -GE FRAME 7F COMB. TURBINES W/ HRSG - NG CC	15.21	NATURAL GAS	196	MW	PM10	26	LB/ HR	3 hr
OH-0254	DUKE ENERGY WASHINGTON COUNTY LLC	DUKE ENERGY NORTH AMERICA	OH	TWO 170 MW NATURAL GAS-FIRED COMBUSTION TURBINES, COMBINED CYCLE	TURBINES (2) (MODEL GE 7FA), DUCT BURNERS ON	15.21	NATURAL GAS	170	MW	PM10	28	LB/ HR	
LA-0192	CRESCENT CITY POWER	CRESENT CITY POWER, LLC	LA	NEW 600 MW NATURAL GAS-FIRED COMBINED CYCLE POWER PLANT	GAS TURBINES - 187 MW (2)	15.21		2006	MMBTU/ HR	PM10	29.4	LB/ HR	1 hr
AZ-0047	WELLTON MOHAWK GENERATING STATION	DOME VALLEY ENERGY PARTNERS	AZ	COMBINED CYCLE GAS-FIRED ELECTRICITY GENERATING STATION	COMBUSTION TURBINE GENERATORS AND HEAT RECOVERY STEAM GENERATORS GE7FA TURBINES OPTION	15.21	NATURAL GAS	170	MW	PM10	29.8	LB/ HR	3 hr

Table G.2-5
RBLC Database Natural Gas Fired, Combined-Cycle Combustion Turbines > 25 MW 1/1/2003 - 7/15/2008, Emission Limits for PM/PM10

RBLCID	FACILITY NAME	CORPORATE OR COMPANY NAME	FACILITY STATE	FACILITY DESCRIPTION	PROCESS NAME	PROC TYPE	FUEL	THRU PUT	THRU PUT UNIT	POLLUTANT	EMIS LIMIT1	EMIS LIMIT1 UNIT	EMIS LIMIT1 AVG TIME CONDITION
AZ-0047	WELLTON MOHAWK GENERATING STATION	DOME VALLEY ENERGY PARTNERS	AZ	COMBINED CYCLE GAS-FIRED ELECTRICITY GENERATING STATION	COMBUSTION TURBINE GENERATORS AND HEAT RECOVERY STEAM GENERATORS SW501F TURBINES OPTION	15.21	NATURAL GAS	180	MW	PM10	33.1	LB/ HR	3 hr
MI-0357	KALKASKA GENERATING, INC	KALKASKA GENERATING LLC	MI	ELECTRICAL POWER PRODUCTION FACILITY.	TURBINE, COMBINED CYCLE, (2)	15.21	NATURAL GAS	605	MW	PM10	38	LB/ HR	
*AZ-0049	LA PAZ GENERATING FACILITY	ALLEGHENY ENERGY SUPPLY LLC	AZ	NATURAL GAS FIRED, COMBINED CYCLE GENERATING STATION	GE COMBUSTION TURBINES AND HEAT RECOVERY STEAM GENERATORS	15.21	NATURAL GAS	1040	MW	PM10	45.5	LB/ HR	
WA-0315	SUMAS ENERGY 2 GENERATION FACILITY	SUMAS ENERGY 2 GENERATION FACILITY	WA		TURBINES, COMBINED CYCLE, (2)	15.21	NATURAL GAS	660	MW	PM, Filterable	194	LB/D	
WA-0315	SUMAS ENERGY 2 GENERATION FACILITY	SUMAS ENERGY 2 GENERATION FACILITY	WA		TURBINES, COMBINED CYCLE, (2)	15.21	NATURAL GAS	660	MW	PM	377	LB/D	

Table G.2-6
RBLC Database Natural Gas Fired, Combined-Cycle Combustion Turbines > 25 MW 1/1/2003 - 7/15/2008, Emission Limits for SO_2

RBLCID	FACILITY NAME	CORPORATE OR COMPANY NAME	FACILITYSTATE	FACILITY DESCRIPTION	PROCESS NAME	PROC TYPE	FUEL	THRU PUT	THRU PUT UNIT	EMIS LIMIT1	EMIS LIMIT1 UNIT	EMIS LIMIT1 AVG TIME CONDITION
NC-0101	FORSYTH ENERGY PLANT	FORSYTH ENERGY PROJECTS, LLC	NC	THREE COMBINED-CYCLE COMBUSTION TURBINE GENERATORS, EACH WITH A HEAT RECOVERY STEAM GENERATORS (HRSG) ALONG WITH NATURAL GAS-FIRED DUCT BURNERS TO MEET PEAK DEMAND. THE STEAM GENERATED THROUGH THE THREE HRSGS WILL DRIVE A STEAM TURBINE. THE ENTIRE PLANT WILL BE CAPABLE OF GENERATING A NOMINAL POWER OUTPUT OF 812 MEGAWATTS.	TURBINE, COMBINED CYCLE, NATURAL GAS, (3)	15.21	NATURAL GAS	1844.3	MMBTU/ HR	0.0006	LB/ MMBTU	3 hr
NC-0101	FORSYTH ENERGY PLANT	FORSYTH ENERGY PROJECTS, LLC	NC	THREE COMBINED-CYCLE COMBUSTION TURBINE GENERATORS, EACH WITH A HEAT RECOVERY STEAM GENERATORS (HRSG) ALONG WITH NATURAL GAS-FIRED DUCT BURNERS TO MEET PEAK DEMAND. THE STEAM GENERATED THROUGH THE THREE HRSGS WILL DRIVE A STEAM TURBINE. THE ENTIRE PLANT WILL BE CAPABLE OF GENERATING A NOMINAL POWER OUTPUT OF 812 MEGAWATTS.	TURBINE & DUCT BURNER, COMBINED CYCLE, NAT GAS, 3	15.21	NATURAL GAS	1844.3	MMBTU/ HR	0.0006	LB/ MMBTU	3 hr
*AZ-0049	LA PAZ GENERATING FACILITY	ALLEGHENY ENERGY SUPPLY LLC	AZ	NATURAL GAS FIRED, COMBINED CYCLE GENERATING STATION	GE COMBUSTION TURBINES AND HEAT RECOVERY STEAM GENERATORS	15.21	NATURAL GAS	1040	MW	0.0021	LB/ MMBTU	3 hr
AZ-0047	WELLTON MOHAWK GENERATING STATION	DOME VALLEY ENERGY PARTNERS	AZ	COMBINED CYCLE GAS-FIRED ELECTRICITY GENERATING STATION	COMBUSTION TURBINE GENERATORS AND HEAT RECOVERY STEAM GENERATORS GE7FA TURBINES OPTION	15.21	NATURAL GAS	170	MW	0.0023	LB/ MMBTU	3 hr
AZ-0047	WELLTON MOHAWK GENERATING STATION	DOME VALLEY ENERGY PARTNERS	AZ	COMBINED CYCLE GAS-FIRED ELECTRICITY GENERATING STATION	COMBUSTION TURBINE GENERATORS AND HEAT RECOVERY STEAM GENERATORS SW501F TURBINES OPTION	15.21	NATURAL GAS	180	MW	0.0023	LB/ MMBTU	3 hr
OK-0096	REDBUD POWER PLANT	REDBUD ENERGY LP	OK	ELECTRICITY GENERATION	COMBUSTION TURBINE AND DUCT BURNERS	15.21	NATURAL GAS	1832	MMBTU/ HR	0.003	LB/ MMBTU	
OK-0090	DUKE ENERGY STEPHENS, LLC STEPHENS ENERGY	DUKE ENERGY	OK	MERCHANT POWER PLANT - NOMINAL TOTAL OF 620 MW.	TURBINES, COMBINED CYCLE (2)	15.21	NATURAL GAS	1701	MMBTU/ HR	0.006	LB/ MMBTU	

Table G.2-6

RBLC Database Natural Gas Fired, Combined-Cycle Combustion Turbines > 25 MW 1/1/2003 - 7/15/2008, Emission Limits for SO_2

RBLCID	FACILITY NAME	CORPORATE OR COMPANY NAME	FACILITYSTATE	FACILITY DESCRIPTION	PROCESS NAME	PROC TYPE	FUEL	THRU PUT	THRU PUT UNIT	EMIS LIMIT1	EMIS LIMIT1 UNIT	EMIS LIMIT1 AVG TIME CONDITION
MN-0054	MANKATO ENERGY CENTER		MN	COMBINED CYCLE GAS TURBINE ELECTRIC POWER PLANT. TWO IDENTICAL GE FRAME F7A GAS TURBINES EACH WITH HRSG W/DUCT BURNERS FEEDING STEAM TO COMMON STEAM TURBINES. PRIMARY FUEL IS NG, NO. 2 VERY LOW SULFUR DISTILLATE OIL FOR BACKUP. ALSO, AUX. BOILER, DIESEL EMERGENCY GNERATOR, DIESEL FIRE PUMP, AND 900,000 GAL ABOVE GROUN OIL STORAGE TANK.	COMBUSTION TURBINE, LARGE 2 EACH	15.21	NATURAL GAS	1827	MMBTU/ HR	0.05	% SULFUR BY WT.	Instantaneous
MI-0362	MIDLAND COGENERATION (MCV)	MIDLAND COGENERATION VENTURE LIMITED PARTNERSHIP	MI	COGENERATION FACILITY TO PRODUCE STEAM AND ELECTRICITY.	TURBINE, COMBINED CYCLE, (11)	15.21	NATURAL GAS	984	MMBTU/ HR	0.2	GR/100 SCF	
MI-0361	SOUTH SHORE POWER LLC	SOUTH SHORE POWER LLC	MI	ELECTRIC POWER GENERATING FACILITY.	TURBINE, COMBINED CYCLE, (2)	15.21	NATURAL GAS	172	MW	0.2	GR/100 SCF	
WA-0291	WALLULA POWER PLANT	WALLULA GENERATION, LLC	WA	WALLULA GENERATION, LLC, PROPOSES TO CONSTRUCT AND OPERATE A 1,300 MW COMBINED CYCLE ELECTRIC POWER PLANT. THE PROJECT WILL CONSIST OF TWO INDEPENDENT POWER BLOCKS WITH CRITICAL BACK-UP SYSTEMS TO MAINTAIN OVERALL PLANT RELIABILITY AND AVAILABILITY.	TURBINE, COMBINED CYCLE, NATURAL GAS (4)	15.21	NATURAL GAS	1300	MW	0.35	PPMVD, 15% O2	1 hr
not listed	BLYTHE ENERGY PROJECT, PHASE II	CAITHNESS BLYTHE II, LLC	CA	520 MW NATURAL GAS-FIRED COMBINED-CYCLE GENERATING FACILITY ADJACENT TO BLYTHE ENERGY PROJECT PHASE I. IT WILL HAVE TWO SEIMENS WESTINGHOUSE CGTS WITH DRY LOW-NOX COMBUSTERS, TWO HRSGs WITH DUCT BURNERS, ONE STEAM TURBINE, CONDENERS AND A COOLING TOWER	TURBINE, COMBINED CYCLE, NATURAL GAS & HEAT RECOVERY STEAM GENERATOR	15.21	NATURAL GAS	520	MW	0.5	GRAIN/100 CF GAS	
MN-0053	FAIRBAULT ENERGY PARK	MN MUNICIPAL POWER AGENCY	MN	LARGE COMBUSTION TURBINE ELECTRIC POWER PLANT - INITIAL OPERATION IN SIMPLE CYCLE AND CONVERSION TO COMBINED CYCLE IN THE FUTURE.	TURBINE, COMBINED CYCLE, NATURAL GAS (1)	15.21	NATURAL GAS	1876	MMBTU/ HR	0.8	GR/SCF	Annual
MN-0054	MANKATO ENERGY CENTER		MN	COMBINED CYCLE GAS TURBINE ELECTRIC POWER PLANT. TWO IDENTICAL GE FRAME F7A GAS TURBINES EACH WITH HRSG W/DUCT BURNERS FEEDING STEAM TO COMMON STEAM TURBINES. PRIMARY FUEL IS NG, NO. 2 VERY LOW SULFUR DISTILLATE OIL FOR BACKUP. ALSO, AUX. BOILER, DIESEL EMERGENCY GNERATOR, DIESEL FIRE PUMP, AND 900,000 GAL ABOVE GROUN OIL STORAGE TANK.	COMBUSTION TURBINE, LARGE, 2 EACH	15.21	NATURAL GAS	1916	MMBTU/ HR	0.8	GR/100SCF	Annual
WA-0315	SUMAS ENERGY 2 GENERATION FACILITY	SUMAS ENERGY 2 GENERATION FACILITY	WA		TURBINES, COMBINED CYCLE, (2)	15.21	NATURAL GAS	660	MW	1	PPMVD	1 hr
CA-0997	SACRAMENTO MUNICIPAL UTILITY DISTRICT	SACRAMENTO MUNICIPAL UTILITY DISTRICT	CA	COMBUSTION GAS TURBINE GE 7FA	GAS TURBINES, (2)	15.21	NATURAL GAS	1611	MMBTU/ HR	1	GR/100 SCF	

Table G.2-6

RBLC Database Natural Gas Fired, Combined-Cycle Combustion Turbines > 25 MW 1/1/2003 - 7/15/2008, Emission Limits for SO_2

RBLCID	FACILITY NAME	CORPORATE OR COMPANY NAME	FACILITYSTATE	FACILITY DESCRIPTION	PROCESS NAME	PROC TYPE	FUEL	THRU PUT	THRU PUT UNIT	EMIS LIMIT1	EMIS LIMIT1 UNIT	EMIS LIMIT1 AVG TIME CONDITION
NV-0033	EL DORADO ENERGY, LLC	EL DORADO ENERGY, LLC	NV	THE FACILITY CONSIST OF TWO COMBUSTION TURBINE GENERATORS (CTGS) TWO HEAT RECOVERY STEAM GENERATORS (HRSGS) AND ONE STEAM TURBINE GENERATOR. THE FACILITY IS LOCATED IN AN ATTAINMENT AREA FOR ALL CRITERIA AIR POLLUTANTS. INSIGNIFICAN EMISSION UNITS INCLUDE A 140 HP EMERGENCY FIRE -WATER PUMP AND A WET SURFACE AIR COOLER.	COMBUSTION TURBINE, COMBINED CYCLE & COGEN(2)	15.21	NATURAL GAS	475	MW	1.03	LB/H	
MS-0073	RELIANT ENERGY CHOCTAW COUNTY, LLC		MS	THREE GE COMBINE CYCLE TURBINED RATED @ 230 MEGAWATTS EACH WITH SCR FOR POLLUTION CONTROL	EMISSION POINT AA-001 GEN. ELEC. COMBUST. TURBINE	15.21	NATURAL GAS	230	MW	1.38	LB/H	
MS-0073	RELIANT ENERGY CHOCTAW COUNTY, LLC		MS	THREE GE COMBINE CYCLE TURBINED RATED @ 230 MEGAWATTS EACH WITH SCR FOR POLLUTION CONTROL	EMISSION POINT AA-002 GEN ELEC. COMB. TURBINE	15.21		230	MW	1.38	LB/H	
MS-0073	RELIANT ENERGY CHOCTAW COUNTY, LLC		MS	THREE GE COMBINE CYCLE TURBINED RATED @ 230 MEGAWATTS EACH WITH SCR FOR POLLUTION CONTROL	EMISSION POINT AA-003 GEN. ELEC COMB TURBINES	15.21		230	MW	1.38	LB/H	
NV-0038	IVANPAH ENERGY CENTER, L.P.	IVANPAH ENERGY CENTER, L.P.	NV	A 500 MW ELECTRICAL GENERATING PLANT CONSISTING OF TWO COMBUSTION TURBINE GENERATORS, TWO HEAT RECOVERY STEAM GENERATORS, ONE STEAM TURBINE GENERATOR. THE PROPOSED PLANT IS SURROUNDED BY UNOCCUPIED LAND FOR A DISTANCE OF AT LEAST TWO MILES IN ALL DIRECTIONS. THE UN-IMPROVED ACCESS ROAD TO THE PROPOSED PLANT SITE IS ABOUT 1.6 MILES IN LENGTH.	LARGE COMBUSTION TURBINES, COMBINED CYCLE & COGENERATION	15.21	NATURAL GAS	500	MW	1.55	LB/H	
VA-0289	DUKE ENERGY WYTHE, LLC	DUKE ENERGY WYTHE, LLC	VA	POWER PLANT	TURBINE, COMBINED CYCLE, NATURAL GAS	15.21	NATURAL GAS	170	MW	1.74	LB/H	
FL-0265	HINES POWER BLOCK 4	PROGRESS ENERGY	FL	COMBINED CYCLE POWER PLANT. THIS IS THE 4TH BLOCK OF POWER ADDED, MAKING THE TOTAL GENERATING CAPACITY OF THE FACILITY APPROXIMATELY 2090 MW.	COMBINED CYCLE TURBINE	15.21	NATURAL GAS	530	MW	2	GRAIN/100 CF GAS	
FL-0263	FPL TURKEY POINT POWER PLANT	FLORIDA POWER AND LIGHT	FL	RESPECTIVELY."	170 MW COMBUSTION TURBINE, 4 UNITS	15.21	NATURAL GAS	170	MW	2	GR S/100 SCF GAS	
FL-0245	FPL MANATEE PLANT - UNIT 3	FLORIDA POWER & LIGHT	FL	EXISTING POWER PLANT	TURBINE, COMBINED CYCLE, NATURAL GAS (4)	15.21	NATURAL GAS	170	MW	2	GR/100 SCF	
VA-0289	DUKE ENERGY WYTHE, LLC	DUKE ENERGY WYTHE, LLC	VA	POWER PLANT	TURBINE, COMBINED CYCLE, DUCT BURNER, NATURAL GAS	15.21	NATURAL GAS	170	MW	2.08	LB/H	

Table G.2-6
RBLC Database Natural Gas Fired, Combined-Cycle Combustion Turbines > 25 MW 1/1/2003 - 7/15/2008, Emission Limits for SO_2

RBLCID	FACILITY NAME	CORPORATE OR COMPANY NAME	FACILITYSTATE	FACILITY DESCRIPTION	PROCESS NAME	PROC TYPE	FUEL	THRU PUT	THRU PUT UNIT	EMIS LIMIT1	EMIS LIMIT1 UNIT	EMIS LIMIT1 AVG TIME CONDITION
NV-0037	COPPER MOUNTAIN POWER	SEMPRA ENERGY RESOURCES	NV	A 600 MW COMBINED CYCLE ELECTRICAL GENERATION FACILITY CONSISTING OF TWO COMBUSTION TURBINE GENERATORS WITH HEAT RECOVERY STEAM GENERATORS, ONE STEAM TURBINE GENERATOR, AND ONE AUXILIARY BOILER.	LARGE COMBUSTION TURBINES, COMBINED CYCLE & COGENERATION	15.21	NATURAL GAS	600	MW	5.1	LB/H	
MI-0357	KALKASKA GENERATING, INC	KALKASKA GENERATING LLC	MI	ELECTRICAL POWER PRODUCTION FACILITY.	TURBINE, COMBINED CYCLE, (2)	15.21	NATURAL GAS	605	MW	5.2	LB/H	
LA-0192	CRESCENT CITY POWER	CRESENT CITY POWER, LLC	LA	NEW 600 MW NATURAL GAS-FIRED COMBINED CYCLE POWER PLANT	GAS TURBINES - 187 MW (2)	15.21		2006	MMBTU/ HR	10.1	LB/H	1 hr
OH-0252	DUKE ENERGY HANGING ROCK ENERGY FACILITY	DUKE ENERGY HANGING ROCK, LLC	OH	FOUR NATURAL GAS (NG) FIRED COMBUSTION TURBINES, WITH DUCT BURNERS; COMBINED CYCLE, EACH 172 MW	TURBINES (4) (MODEL GE 7FA), DUCT BURNERS OFF	15.21	NATURAL GAS	172	MW	11	LB/H	
MD-0032	DICKERSON	MIRANT MID-ATLANTIC, LLC	MD	PROJECT IS TO CONVERT EXISTING SIMPLE CYCLE CTS TO COMBINED CYCLE OPERATION, WITH INSTALLATION OF HRSGS AND STEAM TURBINE; AND CONSTRUCTION OF A NEW SIMILAR COMBINED CYCLE UNIT, PERMIT INCLUDES LIMITS FOR BOTH COMBINED AND SIMPLE CYCLE OPERATION AND WITH AND WITHOUT DUCT FIRING	UNIT 4 -GE FRAME 7F COMB. TURBINES W/ HRSG - NG CC	15.21	NATURAL GAS	196	MW	11	LB/H	3 hr
OH-0254	DUKE ENERGY WASHINGTON COUNTY LLC	DUKE ENERGY NORTH AMERICA	OH	TWO 170 MW NATURAL GAS-FIRED COMBUSTION TURBINES, COMBINED CYCLE	TURBINES (2) (MODEL GE 7FA), DUCT BURNERS OFF	15.21	NATURAL GAS	170	MW	11.2	LB/H	
VA-0287	JAMES CITY ENERGY PARK	JAMES CITY ENERGY PARK LLC	VA	POWER GENERATING FACILITY	TURBINE, COMBINED CYCLE, NATURAL GAS,DUCT BURNER	15.21	NATURAL GAS	1973	MMBTU/ HR	11.3	LB/H	
VA-0287	JAMES CITY ENERGY PARK	JAMES CITY ENERGY PARK LLC	VA	POWER GENERATING FACILITY	TURBINE, COMBINED CYCLE, NATURAL GAS	15.21	NATURAL GAS	1973	MMBTU/ HR	11.4	LB/H	
MD-0032	DICKERSON	MIRANT MID-ATLANTIC, LLC	MD	PROJECT IS TO CONVERT EXISTING SIMPLE CYCLE CTS TO COMBINED CYCLE OPERATION, WITH INSTALLATION OF HRSGS AND STEAM TURBINE; AND CONSTRUCTION OF A NEW SIMILAR COMBINED CYCLE UNIT, PERMIT INCLUDES LIMITS FOR BOTH COMBINED AND SIMPLE CYCLE OPERATION AND WITH AND WITHOUT DUCT FIRING	UNIT 5 -GE FRAME 7F COMB. TURBINES W/ HRSG - NG CC	15.21	NATURAL GAS	196	MW	12	LB/H	3 hr

Table G.2-6

RBLC Database Natural Gas Fired, Combined-Cycle Combustion Turbines > 25 MW 1/1/2003 - 7/15/2008, Emission Limits for SO_2

RBLCID	FACILITY NAME	CORPORATE OR COMPANY NAME	FACILITYSTATE	FACILITY DESCRIPTION	PROCESS NAME	PROC TYPE	FUEL	THRU PUT	THRU PUT UNIT	EMIS LIMIT1	EMIS LIMIT1 UNIT	EMIS LIMIT1 AVG TIME CONDITION
TX-0374	CHOCOLATE BAYOU PLANT	BP AMOCO CHEMICAL CO	TX	BP AMOCO PROPOSES TO CONSTRUCT A GAS- FIRED STEAM AND ELECTRIC GENERATING FACILITY. THE PROPOSED PROJECT WILL BE CALLED THE GREEN POWER UNIT ONE. THE PROJECT WILL CONSIST OF TWO DUAL SHAFT GAS-FIRED ELECTRIC GENERATING TURBINES EACH RATED AT APPROX. 35 MW (BASE LOAD), EACH TURBINE WILL HAVE A HEAT RECOVERY STEAM GENERATOR (HRSG) EQUIPPED WITH 312 MMBTU/H DUCT BURNERS. GREEN POWER UNIT ONE WILL BE CAPABLE OF PRODUCING AN ESTIMATED NOMINAL 70 MW OF ELECTRICITY. STEAM PRODUCED IN THE HRSGS WILL BE USED IN THE CHOCOLATE BAYOU WORKS CHEMICAL COMPLEX. THE CHEMICAL COMPLEX WILL CONSUME APPROX. HALF OF THE ELECTRICAL OUTPUT PRODUCED BY THE TWO NEW TURBINES. EXCESS POWER PRODUCED BY THE COMBUSTION TURBINES WILL BE SOLD TO THE GRID. THE COMBUSTION TURBINES WILL ONLY BURN PIPELINE QUALITY SWEET NAT GAS. THE DUCT BURNERS WILL BURN NAT GAS, COMPLEX GAS, OR MIXTURES OF NAT GAS AND COMPLEX GAS.	(2) COGENERATION TRAINS 2 & 3, GT-2 & 3	15.21	NAT GAS	70	MW, TOTAL	12.66	LB/H	
OH-0252	DUKE ENERGY HANGING ROCK ENERGY FACILITY	DUKE ENERGY HANGING ROCK, LLC	OH	FOUR NATURAL GAS (NG) FIRED COMBUSTION TURBINES, WITH DUCT BURNERS; COMBINED CYCLE, EACH 172 MW	TURBINES (4) (MODEL GE 7FA), DUCT BURNERS ON	15.21	NATURAL GAS	172	MW	14.4	LB/H	
OH-0254	DUKE ENERGY WASHINGTON COUNTY LLC	DUKE ENERGY NORTH AMERICA	OH	TWO 170 MW NATURAL GAS-FIRED COMBUSTION TURBINES, COMBINED CYCLE	TURBINES (2) (MODEL GE 7FA), DUCT BURNERS ON	15.21	NATURAL GAS	170	MW	14.5	LB/H	
MI-0365	MIRANT WYANDOTTE LLC	MIRANT WYANDOTTE LLC	MI	COMBINED CYCLE POWER PLANT.	TURBINE, COMBINED CYCLE, (2)	15.21	NATURAL GAS	2200	MMBTU/ HR	53.4	T/YR	
MI-0363	BLUEWATER ENERGY CENTER LLC	BLUEWATER ENERGY CENTER LLC	MI	COMBINED CYCLE ELECTRIC GENERATING POWER PLANT.	TURBINE, COMBINED CYCLE, (3)	15.21	NATURAL GAS	180	MW	177	T/YR	

Table G.2-7
RBLC Database Natural Gas Fired, Combined-Cycle Combustion Turbines > 25 MW 1/1/2003 - 7/15/2008, Emission Limits for NH_3

RBLCID	FACILITY NAME	CORPORATE OR COMPANY NAME	FACILITYSTATE	FACILITY DESCRIPTION	PROCESS NAME	PROC TYPE	FUEL	THRU PUT	THRU PUT UNIT	EMIS LIMIT1	EMIS LIMIT1 UNIT	EMIS LIMIT1 AVG TIME CONDITION
MI-0361	SOUTH SHORE POWER LLC	SOUTH SHORE POWER LLC	MI	ELECTRIC POWER GENERATING FACILITY.	TURBINE, COMBINED CYCLE, (2)	15.21	NATURAL GAS	172	MW	3.3	T/YR	
*OR-0041	WANAPA ENERGY CENTER	DIAMOND WANAPA I, L.P.	OR	A 1,200 MW NATURAL GAS-FIRED COMBINED CYCLE COMBUSTION TURBINE PROJECT EMPLOYING A WATER-COOLED STEAM CONDENSING SYSTEM. FOUR COMBUSTION TURBINES, FOUR HEAT RECOVERY STEAM GENERATORS, TWO STEAM TURBINES, AND TWO COOLING TOWERS EMPLOYED.	COMBUSTION TURBINE & HEAT RECOVERY STEAM GENERATOR	15.21	NATURAL GAS	2384.1	MMBTU/ HR	5	PPMVD, 15% O2	3 hr
FL-0263	FPL TURKEY POINT POWER PLANT	FLORIDA POWER AND LIGHT	FL	RESPECTIVELY."	170 MW COMBUSTION TURBINE, 4 UNITS	15.21	NATURAL GAS	170	MW	5	PPMVD, 15% O2	
*WA-0328	BP CHERRY POINT COGENERATION PROJECT	BP WEST COAST PRODUCTS, LLC	WA	720 MW NATURAL GAS-FIRED COMBINED CYCLE COMBUSTION TURBINE COGENERATION FACILITY ADJACENT TO BP CHERRY POINT PETROEUM REFINERY. THE FACILITY WILL EMPLOY THREE COMBUSTION TURBINES AND HEAT RECOVERY STEAM GENERATORS, ONE STEAM TURBINE, AND A WATER-COOLED STEAM CONDENSING SYSTEM WITH ONE COOLING TOWER.	GE 7FA COMBUSTION TURBINE & HEAT RECOVERY STEAM GENERATOR	15.21	NATURAL GAS	174	MW	5	PPMDV	3 hr
OR-0039	COB ENERGY FACILITY, LLC	Peoples Energy Resources	OR	POWER GENERATION FACILITY	TURBINE, COMBINED CYCLE, DUCT BURNER, NAT GAS, (4)	15.21	NATURAL GAS	1150	MW	5	PPMVD, 15% O2	3 hr
FL-0256	HINES ENERGY COMPLEX, POWER BLOCK 3	PROGRESS ENERGY FLORIDA	FL	POWER PLANT	COMBUSTION TURBINES, COMBINED CYCLE, NATURAL GAS,2	15.21	NATURAL GAS	1830	MMBTU/ HR	5	PPMVD, 15% O2	
CA-1096	VERNON CITY LIGHT & POWER	VERNON CITY LIGHT & POWER	CA		GAS TURBINE: COMBINED CYCLE < 50 MW	15.21	NATURAL GAS	43	MW GAS TURBINE, 55 MW STEAM TURBINE	5	PPMVD, 15% O2	1 hr
CA-1097	MAGNOLIA POWER PROJECT, SCPPA	MAGNOLIA POWER PROJECT, SCPPA	CA		GAS TURBINE: COMBINED CYCLE >= 50 MW	15.21	NATURAL GAS	181	NET MW (GAS TURBINE W/STEAM INJECTION)	5	PPMVD, 15% O2	1 hr
WA-0315	SUMAS ENERGY 2 GENERATION FACILITY	SUMAS ENERGY 2 GENERATION FACILITY	WA		TURBINES, COMBINED CYCLE, (2)	15.21	NATURAL GAS	660	MW	5	PPMVD	1 hr
FL-0244	FPL MARTIN PLANT	FLORIDA POWER & LIGHT	FL	EXISTING POWER PLANT	TURBINE, COMBINED CYLE, NATURAL GAS, (4)	15.21	NATURAL GAS	170	MW	5	PPMVD, 15% O2	
FL-0245	FPL MANATEE PLANT - UNIT 3	FLORIDA POWER & LIGHT	FL	EXISTING POWER PLANT	TURBINE, COMBINED CYCLE, NATURAL GAS (4)	15.21	NATURAL GAS	170	MW	5	PPMVD, 15% O2	

Table G.2-7
RBLC Database Natural Gas Fired, Combined-Cycle Combustion Turbines > 25 MW 1/1/2003 - 7/15/2008, Emission Limits for NH_3

RBLCID	FACILITY NAME	CORPORATE OR COMPANY NAME	FACILITYSTATE	FACILITY DESCRIPTION	PROCESS NAME	PROC TYPE	FUEL	THRU PUT	THRU PUT UNIT	EMIS LIMIT1	EMIS LIMIT1 UNIT	EMIS LIMIT1 AVG TIME CONDITION
WA-0291	WALLULA POWER PLANT	WALLULA GENERATION, LLC	WA	WALLULA GENERATION, LLC, PROPOSES TO CONSTRUCT AND OPERATE A 1,300 MW COMBINED CYCLE ELECTRIC POWER PLANT. THE PROJECT WILL CONSIST OF TWO INDEPENDENT POWER BLOCKS WITH CRITICAL BACK-UP SYSTEMS TO MAINTAIN OVERALL PLANT RELIABILITY AND AVAILABILITY.	TURBINE, COMBINED CYCLE, NATURAL GAS (4)	15.21	NATURAL GAS	1300	MW	5	PPMVD, 15% O2	24 hr
not listed	EL CENTRO UNIT 3 REPOWER PROJECT	IMPERIAL IRRIGATION DISTRICT	CA	128 MW, NATURAL GAS-FIRED COMBINED-CYCLE GENERATING FACILITY WITHIN CURRENT EL CENTRO GENERATING STATION, IN IMPERIAL COUNTY. IT WILL ADD A GE 7EA CTG WITH DRY LOW NOX COMBUSTERS AND ONE HRSG WITH DUCT BURNER TO EXISTING FACILITY	TURBINE, COMBINED CYCLE, NATURAL GAS & HEAT RECOVERY STEAM GENERATOR	15.21	NATURAL GAS	128	MW	5	PPMVD	1 hr
TX-0374	CHOCOLATE BAYOU PLANT	BP AMOCO CHEMICAL CO	TX	BP AMOCO PROPOSES TO CONSTRUCT A GAS-FIRED STEAM AND ELECTRIC GENERATING FACILITY. THE PROPOSED PROJECT WILL BE CALLED THE GREEN POWER UNIT ONE. THE PROJECT WILL CONSIST OF TWO DUAL SHAFT GAS-FIRED ELECTRIC GENERATING TURBINES EACH RATED AT APPROX. 35 MW (BASE LOAD), EACH TURBINE WILL HAVE A HEAT RECOVERY STEAM GENERATOR (HRSG) EQUIPPED WITH 312 MMBTU/H DUCT BURNERS. GREEN POWER UNIT ONE WILL BE CAPABLE OF PRODUCING AN ESTIMATED NOMINAL 70 MW OF ELECTRICITY. STEAM PRODUCED IN THE HRSGS WILL BE USED IN THE CHOCOLATE BAYOU WORKS CHEMICAL COMPLEX. THE CHEMICAL COMPLEX WILL CONSUME APPROX. HALF OF THE ELECTRICAL OUTPUT PRODUCED BY THE TWO NEW TURBINES. EXCESS POWER PRODUCED BY THE COMBUSTION TURBINES WILL BE SOLD TO THE GRID. THE COMBUSTION TURBINES WILL ONLY BURN PIPELINE QUALITY SWEET NAT GAS. THE DUCT BURNERS WILL BURN NAT GAS, COMPLEX GAS, OR MIXTURES OF NAT GAS AND COMPLEX GAS.	(2) COGENERATION TRAINS 2 & 3, GT-2 & 3	15.21	NAT GAS	70	MW, TOTAL	8.45	LB/H	
not listed	ROSEVILLE ENERGY PARK	ROSEVILLE ELECTRIC	CA	160 MW, NATURAL GAS-FIRED, COMBINED-CYCLE GENERATING FACILITY LOCATED WEST OF DOWNTOWN ROSEVILLE, IN PLACER COUNTY. IT WILL HAVE TWO GE LM6000 PC SPRINT OR ALSTOM GTX100 CTGs, EQUIPPED WITH WATER INJECTION (LM6000) OR DRY LOW-NOx COMBUSTERS (GTX100), TWO HRSGs WITH DUCT BURNERS, ONE STEAM TURBINE, CONDENSERS AND A MECHANICAL DRAFT COOLING TOWER	TURBINE, COMBINED CYCLE, NATURAL GAS & HEAT RECOVERY STEAM GENERATOR	15.21	NATURAL GAS	160	MW	10	PPMVD	1 hr

Table G.2-7
RBLC Database Natural Gas Fired, Combined-Cycle Combustion Turbines > 25 MW 1/1/2003 - 7/15/2008, Emission Limits for NH_3

RBLCID	FACILITY NAME	CORPORATE OR COMPANY NAME	FACILITYSTATE	FACILITY DESCRIPTION	PROCESS NAME	PROC TYPE	FUEL	THRU PUT	THRU PUT UNIT	EMIS LIMIT1	EMIS LIMIT1 UNIT	EMIS LIMIT1 AVG TIME CONDITION
not listed	BLYTHE ENERGY PROJECT, PHASE II	CAITHNESS BLYTHE II, LLC	CA	520 MW NATURAL GAS-FIRED COMBINED-CYCLE GENERATING FACILITY ADJACENT TO BLYTHE ENERGY PROJECT PHASE I. IT WILL HAVE TWO SEIMENS WESTINGHOUSE CGTS WITH DRY LOW-NOX COMBUSTERS, TWO HRSGs WITH DUCT BURNERS, ONE STEAM TURBINE, CONDENERS AND A COOLING TOWER	TURBINE, COMBINED CYCLE, NATURAL GAS & HEAT RECOVERY STEAM GENERATOR	15.21	NATURAL GAS	520	MW	10	PPMVD	1 hr
CEC DECISION PENDING	LOS ESTEROS CRITICAL ENERGY FACILITY, PHASE II	LOS ESTEROS CRITICAL ENERGY FACILITY, LLC	CA	CONVERSION OF EXISTING 180 MW SIMPLE-CYCLE POWER PLANT TO A 320 MW COMBINED-CYCLE PLANT WITH ADDITION OF FOUR HRSGs WITH DUCT BURNERS, STEAM TURBINE, CONDENSERS AND A COOLING TOWER	TURBINE, COMBINED CYCLE, NATURAL GAS & HEAT RECOVERY STEAM GENERATOR	15.21	NATURAL GAS	320	MW	10	PPMVD	1 hr
MI-0366	BERRIEN ENERGY, LLC	BERRIEN ENERGY, LLC	MI	ELECTRIC POWER GENERATING FACILITY.	3 COMBUSTION TURBINES AND DUCT BURNERS	15.21	NATURAL GAS	1584	MMBTU/ HR	10	PPM	
NV-0033	EL DORADO ENERGY, LLC	EL DORADO ENERGY, LLC	NV	THE FACILITY CONSIST OF TWO COMBUSTION TURBINE GENERATORS (CTGS) TWO HEAT RECOVERY STEAM GENERATORS (HRSGS) AND ONE STEAM TURBINE GENERATOR. THE FACILITY IS LOCATED IN AN ATTAINMENT AREA FOR ALL CRITERIA AIR POLLUTANTS. INSIGNIFICAN EMISSION UNITS INCLUDE A 140 HP EMERGENCY FIRE -WATER PUMP AND A WET SURFACE AIR COOLER.	COMBUSTION TURBINE, COMBINED CYCLE & COGEN(2)	15.21	NATURAL GAS	475	MW	10	PPMVD, 15% O2	
NV-0037	COPPER MOUNTAIN POWER	SEMPRA ENERGY RESOURCES	NV	A 600 MW COMBINED CYCLE ELECTRICAL GENERATION FACILITY CONSISTING OF TWO COMBUSTION TURBINE GENERATORS WITH HEAT RECOVERY STEAM GENERATORS, ONE STEAM TURBINE GENERATOR, AND ONE AUXILIARY BOILER.	LARGE COMBUSTION TURBINES, COMBINED CYCLE & COGENERATION	15.21	NATURAL GAS	600	MW	10	PPMVD	3 hr
NV-0038	IVANPAH ENERGY CENTER, L.P.	IVANPAH ENERGY CENTER, L.P.	NV	A 500 MW ELECTRICAL GENERATING PLANT CONSISTING OF TWO COMBUSTION TURBINE GENERATORS, TWO HEAT RECOVERY STEAM GENERATORS, ONE STEAM TURBINE GENERATOR. THE PROPOSED PLANT IS SURROUNDED BY UNOCCUPIED LAND FOR A DISTANCE OF AT LEAST TWO MILES IN ALL DIRECTIONS. THE UN-IMPROVED ACCESS ROAD TO THE PROPOSED PLANT SITE IS ABOUT 1.6 MILES IN LENGTH.	LARGE COMBUSTION TURBINES, COMBINED CYCLE & COGENERATION	15.21	NATURAL GAS	500	MW	10	PPMVD	1 hr
OR-0040	KLAMATH GENERATION, LLC	KLAMATH GENERATION, LLC	OR	POWER GENERATION FACILITY	TURBINE, COMBINED CYCLE, DUCT BURNER, NAT GAS (2)	15.21	NATURAL GAS	480	MW	10	PPMVD, 15% O2	3 hr
MI-0357	KALKASKA GENERATING, INC	KALKASKA GENERATING LLC	MI	ELECTRICAL POWER PRODUCTION FACILITY.	TURBINE, COMBINED CYCLE, (2)	15.21	NATURAL GAS	605	MW	10	PPM	

Table G.2-7
RBLC Database Natural Gas Fired, Combined-Cycle Combustion Turbines > 25 MW 1/1/2003 - 7/15/2008, Emission Limits for NH_3

RBLCID	FACILITY NAME	CORPORATE OR COMPANY NAME	FACILITYSTATE	FACILITY DESCRIPTION	PROCESS NAME	PROC TYPE	FUEL	THRU PUT	THRU PUT UNIT	EMIS LIMIT1	EMIS LIMIT1 UNIT	EMIS LIMIT1 AVG TIME CONDITION
MI-0365	MIRANT WYANDOTTE LLC	MIRANT WYANDOTTE LLC	MI	COMBINED CYCLE POWER PLANT.	TURBINE, COMBINED CYCLE, (2)	15.21	NATURAL GAS	2200	MMBTU/ HR	10	PPM	
MI-0363	BLUEWATER ENERGY CENTER LLC	BLUEWATER ENERGY CENTER LLC	MI	COMBINED CYCLE ELECTRIC GENERATING POWER PLANT.	TURBINE, COMBINED CYCLE, (3)	15.21	NATURAL GAS	180	MW	10	PPMVD	
OH-0254	DUKE ENERGY WASHINGTON COUNTY LLC	DUKE ENERGY NORTH AMERICA	OH	TWO 170 MW NATURAL GAS-FIRED COMBUSTION TURBINES, COMBINED CYCLE	TURBINES (2) (MODEL GE 7FA), DUCT BURNERS OFF	15.21	NATURAL GAS	170	MW	26.6	LB/H	
OH-0252	DUKE ENERGY HANGING ROCK ENERGY FACILITY	DUKE ENERGY HANGING ROCK, LLC	OH	FOUR NATURAL GAS (NG) FIRED COMBUSTION TURBINES, WITH DUCT BURNERS; COMBINED CYCLE, EACH 172 MW	TURBINES (4) (MODEL GE 7FA), DUCT BURNERS OFF	15.21	NATURAL GAS	172	MW	28	LB/H	
OH-0254	DUKE ENERGY WASHINGTON COUNTY LLC	DUKE ENERGY NORTH AMERICA	OH	TWO 170 MW NATURAL GAS-FIRED COMBUSTION TURBINES, COMBINED CYCLE	TURBINES (2) (MODEL GE 7FA), DUCT BURNERS ON	15.21	NATURAL GAS	170	MW	34.6	LB/H	
OH-0252	DUKE ENERGY HANGING ROCK ENERGY FACILITY	DUKE ENERGY HANGING ROCK, LLC	OH	FOUR NATURAL GAS (NG) FIRED COMBUSTION TURBINES, WITH DUCT BURNERS; COMBINED CYCLE, EACH 172 MW	TURBINES (4) (MODEL GE 7FA), DUCT BURNERS ON	15.21	NATURAL GAS	172	MW	37.8	LB/H	

APPENDIX G.3

Construction and Operations Phase Emissions

Prepared for:
City of Palmdale
Palmdale Hybrid Power Project

Appendix G.3
Construction and Operations Air Emissions Calculations

ENSR Corporation
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Prepared for:
City of Palmdale
Palmdale Hybrid Power Project

Appendix G.3
Construction and Operations
Air Emissions Calculations

Prepared By Russ Kingsley

Reviewed By Steven Heisler

ENSR Corporation
July 2008
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1.0 Introduction

This appendix contains a description of the emissions calculated for the Palmdale Hybrid Power Project (PHPP or Project). Section 2 describes the methodology used to calculate emissions related to construction of the PHPP. Emissions during operation of the PHPP of criteria pollutants are addressed in Section 3, air toxic emissions in Section 4, and greenhouse gas emissions in Section 5. References are provided in Section 6. Tables which contain the emissions during construction and operation of the PHPP are provided in Attachment A.

2.0 Construction Emissions

During the construction of the PHPP, there will be emissions similar to those associated with any large industrial construction project. On-site emissions will arise primarily from heavy duty vehicles and equipment. On-site fugitive dust emissions will also be generated during site preparation and during construction. Off-site emissions will occur from construction worker vehicles and material delivery trucks. The construction-related emissions are transient in nature and will cause some unavoidable but minor localized short-term impacts.

The Project will include construction of the combined cycle facility, the solar array facility, the reclaimed water supply pipeline, the sanitary wastewater pipeline, the natural gas supply pipeline, the potable water supply pipeline, and two segments of an electricity transmission line. On-site and off-site emissions during each month of construction were calculated separately for the combined cycle facility, the solar array facility, the potable water supply pipeline, and one segment of the electricity transmission line. Emissions during each week of construction of each of the other transmission line segment were also calculated.

2.1 Emission Calculation Methodology

2.1.1 Construction Equipment Exhaust Emissions

The combustion of fuel to provide power for the operation of various construction activities and equipment results in the generation of criteria pollutants (carbon monoxide [CO], volatile organic compounds [VOC], nitrogen oxides [NOx], sulfur oxides [SO_X], respirable particulate matter [PM10] and fine particulate matter [PM2.5]) emissions. The following predictive emission equation was used to calculate exhaust emissions from each type of construction equipment:

$$\text{Exhaust Emissions}_{i,j}\,(\text{lb}) = E_{FC,i,j} \times T_{H,j} \qquad \text{(Eq. 2-1)}$$

Where: $EF_{C,i,j}$ = Emission factor for specific air contaminant i from construction equipment type j (lb/hr)

$T_{H,j}$ = Operating time for equipment of type j (hr)

The exhaust emission factors used for the calculations of CO, VOC, NOx, SO_X and PM10 are composite horsepower-based off-road emission factors for 2009 derived from the California Air Resources Board's (ARB) OFFROAD2007 Model (version 2.0.1.2, December 15, 2007) (ARB, 2007a). The OFFROAD2007 Model calculates total daily emissions by equipment category (crane, dozer, grader, etc.) and type of fuel (diesel, gasoline, etc.) within engine horsepower ranges in a geographic area, such as the Antelope Valley Air Quality Management District (AVAQMD) jurisdiction. The model also calculates total daily operating hours within the geographic area by equipment category, fuel and horsepower range. The total daily emissions were divided by the total daily operating hours to calculate emission factors, in pounds per hour, by equipment category, fuel and horsepower range.

The model can calculate the emissions and operating hours for equipment within individual model years or for equipment of all model years combined. The emission factors were calculated for all model years combined for all of the equipment except for large scrapers that will be used to grade the solar array site. In order to minimize emissions from the large engines in the scrapers, the scrapers will be required to be model year 2006 or newer, which must meet California Tier 3 emission standards for off-road engines. These standards are more stringent than emission standards for earlier model year engines, so the emission factors are lower.

The diesel and gasoline off-road equipment emission factors for all model years combined during 2009 are in Tables 1 and 2 at the end of this appendix, and the emission factors for model year 2006 scrapers during calendar year 2009 are in Table 3.

PM2.5 emission factors were calculated from PM10 emission factors using the following equation:

$$EF_{C,PM2.5,j}\,(lb/hr) = EF_{C,PM10,j} \times F_{PM2.5,j} \qquad \text{(Eq. 2-2)}$$

Where: $EF_{C,PM2.5,,j}$ = PM2.5 emission factor for construction equipment type j (lb/hr)

$EF_{C,PM10,,j}$ = PM10 emission factor for construction equipment type j (lb/hr)

$F_{PM2.5,,j}$ = Mass fraction of PM2.5 emissions in PM10 emissions from equipment of type j (unitless)

The mass fractions of PM2.5 in PM10 emissions from construction equipment exhaust depend on the type of fuel (diesel or gasoline). South Coast Air Quality Management District (SCAQMD) has compiled PM2.5 fractions in PM10 emissions from several emission source categories in "Final –Methodology to Calculate Particulate Matter (PM) 2.5 and PM 2.5 Significance Thresholds" (SCAQMD, 2006). These PM2.5 mass fractions are from PM profiles in the California Emission Inventory Data and Reporting System (CEIDARS) developed by ARB.

The construction equipment emission factors for the construction equipment to be used for construction of the PHPP are listed in Table 4.

2.1.2 Motor Vehicle Exhaust, Break Wear and Tire Wear Emissions

The combustion of fuel in motor vehicle engines results in the generation of CO, VOC NO_X, SO_X, PM10 and PM2.5 emissions. Motor vehicle brake and tire wear results in the generation of PM10 and PM2.5 emissions. The following predictive emission equation was used to calculate emissions from both on-site and off-site motor vehicles:

$$\text{Exhaust Emissions}_{i,j}\,(lb) = EF_{V,i,j} \times VMT_j \qquad \text{(Eq. 2-3)}$$

Where: $EF_{V,i,j}$ = Emission factor for specific air contaminant i from motor vehicle type j (lb/mi)

VMT_j = Distance traveled each day by motor vehicle of type j (mi)

CO, VOC, NO_X, SO_X and PM10 emission factors were compiled by running the ARB's EMFAC2007 (version 2.3) Burden Model (ARB, 2007b) for the AVAQMD jurisdiction during calendar year 2009. Daily emissions by vehicle class (light-duty truck, heavy, heavy-heavy duty diesel vehicle, etc.) from the Burden model were divided by the daily mileage traveled by vehicles within the class from the Burden Model to calculate the emission factors. The emission factors account for the emissions from start, running and idling exhaust. In addition, the VOC emission factors take into account diurnal, hot soak, running and resting emissions, and the PM10 emission factors account for exhaust, brake wear and tire wear emissions separately.

PM2.5 emission factors were calculated by multiplying the PM10 emission factors by the mass fraction of PM2.5 emissions in motor vehicle exhaust, brake wear and tire wear PM10 emissions. The PM2.5 mass fractions in PM10 emissions from gasoline and diesel-fueled engine exhaust were from "Final –Methodology to Calculate Particulate Matter (PM) 2.5 and PM 2.5 Significance Thresholds" (SCAQMD, 2006).

The motor vehicle emission factors from the Burden Model and the calculated PM2.5 emission factors are listed in Table 5-A. The motor vehicle emission factors for the vehicles to be used for construction of PHPP are listed in Table 6-A.

2.1.3 Motor Vehicle Entrained Paved Road Dust Emissions

Vehicle travel on paved roads generates fugitive PM10 and PM2.5 emissions by entrainment of dust on the roads. The following predictive emission equation was used to calculate entrained paved road dust emissions:

$$\text{Entrained Dust PM10 Emissions}_j\ (\text{lb}) = EF_{D,j} \times VMT_j \qquad \text{(Eq. 2-4)}$$

Where: $EF_{D,j}$ = Emission factor for entrained road dust PM10 from motor vehicle type j (lb/mi)

VMT_j = Distance traveled each day by motor vehicles of type j (mi)

The emission factor was calculated from the following equation from ARB Emission Inventory Methodology 7.9, "Entrained Paved Road Dust" (ARB, 1997):

$$EF_{D,j}\ (\text{lb/mi}) = 7.26 / 453.6 \times (sL_j/2)^{0.65} \times (W_j/3)^{1.5} \qquad \text{(Eq. 2-5)}$$

Where: 7.26 = A constant for PM10 emissions (g/mi)

453.6 = Factor to convert from grams to pounds (g/lb)

sL_j = Silt loading on roads traveled by motor vehicle of type j (g/m^2)

W_j = Average weight of vehicles on roads traveled by vehicles of type j (tons)

The silt loadings were taken from Table 3 of ARB Emission Inventory Methodology 7.9 (ARB, 1997). As indicated in Table 6-B, off-site motor vehicles were assumed to travel on paved collector roads.

The average weight of vehicles on roads traveled by off-site motor vehicles was assumed to be 2.4 tons, as listed in Table 3 of ARB Emission Inventory Methodology 7.9 (ARB, 1997) for the Kern County portion of the Southeast Desert Air Basin.

PM2.5 emission factors were calculated by multiplying the PM10 emission factors by the mass fraction of PM2.5 emissions in PM10 emissions from entrained paved road dust. The PM2.5 mass fractions were from "Final–Methodology to Calculate Particulate Matter (PM) 2.5 and PM 2.5 Significance Thresholds" (SCAQMD, 2006). The calculated PM10 and PM2.5 entrained paved road dust emission factors are in Table 6-B.

2.1.4 Fugitive PM10 and PM2.5 Emissions

Excavation and grading during construction will generate fugitive PM10 and PM2.5 emissions from soil handling (i.e., dropping), wind erosion of temporary storage piles, bulldozing and grading, and on-site vehicles traveling on unpaved roads and surfaces. Although fugitive dust emissions from construction activities are temporary, they may have an impact on local air quality. Fugitive dust emissions often vary substantially from day to day, depending on the level of activity, the specific operations, and the prevailing meteorological conditions. The following methodologies provide the predictive emission equations, emission factors, and default values used to calculate fugitive dust emissions for the project.

<u>Emissions from Soil Handling</u>

Fugitive PM10 and PM2.5 emissions are generated during excavation when excavated material is dropped onto the ground at the side of the excavation location or dropped into trucks for removal from the site. The following equation was used to estimate these emissions:

$$\text{Emissions (lb/day)} = EF_S \times V_s \qquad \text{(Eq. 2-6)}$$

Where: EF_S = Controlled PM10 emission factor for soil dropping (lb/yd^3)

V_S = Volume of soil handled (yd^3)

The controlled emission factor was calculated from:

EF_S (lb/yd^3) = 0.0011 x $(U/5)^{1.3}$ / $(M/2)^{1.4}$ x D x N_D (Eq. 2.7)

Where: U = Mean wind speed (mph)

M = Soil moisture content (percent)

D = Soil density (tons/yd^3)

N_D = Number of times soil is dropped

Source: (EPA, 1995a)

The mean wind speed was assumed to be the default value of 12 mph, from Table 9-9-G of the SCAQMD CEQA Handbook (SCAQMD, 1993a). The moisture content was assumed to be 15 percent, from "Open Fugitive Dust PM10 Control Strategies Study" (MRI, 1990) for moist conditions. Soil density was assumed to be 1.215 tons per cubic yard, from Table 2.46, Handbook of Solid Waste Management (K. Frank, et. al., 2001). Watering will be used to maintain moist conditions. It was conservatively assumed that soil would be dropped four times: 1) onto the ground at the side of the excavation; 2) onto a temporary storage pile; 3) into a truck; and 4) out of the truck.

The PM2.5 emission factor was calculated by multiplying the PM10 emission factor by the mass fraction of PM2.5 emissions in PM10 emissions from construction dust. The PM2.5 mass fraction was from "Final–Methodology to Calculate Particulate Matter (PM) 2.5 and PM 2.5 Significance Thresholds," (SCAQMD, 2006). The emission factors are listed in Table 7.

Wind Erosion from Temporary Storage Piles

Wind erosion of temporary soil storage piles during excavation generates fugitive PM10 and PM2.5 emissions. The following equation was used to estimate these emissions:

Emissions (lb) = EF_W x A (Eq. 2-8)

Where: EF_W = Controlled PM10 emission factor for storage pile wind erosion (lb/acre-day)

A = Temporary storage pile surface area (acres)

The controlled emission factor was calculated from:

EF_W (lb/acre-day) = 0.85 x (s/1.5) x (365-p/235) x (U_{12}/15) x (1-CE/100) (Eq. 2-9)

Where: s = Soil silt content (percent)

p = Number of days per year with precipitation of 0.01 inches or more

U_{12} = Percentage of time unobstructed wind speed exceeds 12 mph

CE = Control efficiency from watering twice per day (percent)

Source: (EPA, 1992)

The storage pile silt contents were assumed to be 7.5 percent, as listed in Table A9-9-F-1 of the SCAQMD CEQA Air Quality Handbook (SCAQMD, 1993b) for overburden. The number of days with precipitation was conservatively assumed to be zero, and the percentage of the time that the wind speeds exceeds 12 mph was conservatively assumed to be 100 percent. The control efficiency from watering twice per day was assumed to be 50 percent.

The PM2.5 emission factor was calculated by multiplying the PM10 emission factor by the mass fraction of PM2.5 emissions in PM10 emissions from construction dust. The PM2.5 mass fraction was from "Final–Methodology to Calculate Particulate Matter (PM) 2.5 and PM 2.5 Significance Thresholds" (SCAQMD, 2006). The emission factors are listed in Table 7.

Bulldozing, Scraping and Grading

Bulldozing, scraping and grading generate fugitive PM10 and PM2.5 emissions. The following equation was used to estimate these emissions:

$$\text{Emissions (lb)} = EF_B \times T_B \qquad \text{(Eq. 2-10)}$$

Where: EF_B = Controlled PM10 emission factor for bulldozing and grading (lb/hr)

T_B = Bulldozing and grading duration (hr)

The controlled emission factor was calculated from:

$$EF_B \text{ (lb/hr)} = 0.75 \times s^{1.5} / M^{1.4} \qquad \text{(Eq. 2-11)}$$

Where: s = Soil silt content (percent)

M = Soil moisture (percent)

Source: (EPA, 1998a)

The silt content was assumed to be 7.5 percent, as listed in Table A9-9-F-1 of the SCAQMD CEQA Air Quality Handbook (SCAQMD, 1993b) for overburden and the moisture content was assumed to be 15 percent, from "Open Fugitive Dust PM10 Control Strategies Study" (MRI, 1990), for moist conditions. Watering will be used to maintain moist conditions.

The PM2.5 emission factor was calculated by multiplying the PM10 emission factor by the mass fraction of PM2.5 emissions in PM10 emissions from construction dust. The PM2.5 mass fraction was from "Final–Methodology to Calculate Particulate Matter (PM) 2.5 and PM 2.5 Significance Thresholds" (SCAQMD, 2006). The emission factors are listed in Table 7.

Vehicle Travel on Unpaved Surfaces

Vehicles traveling on unpaved surfaces generate fugitive PM10 and PM2.5 emissions. The following equation was used to estimate these emissions:

$$\text{Emissions (lb)} = EF_U \times VMT_U \qquad \text{(Eq. 2-12)}$$

Where: EF_U = Controlled PM10 emission factor for vehicle travel on unpaved surfaces (lb/mi)

VMT_U = Distance traveled on unpaved surfaces (mi)

The controlled emission factor was calculated from:

$$EFU \text{ (lb/mi)} = 1.5\,(s/12)^{0.9} \times (W/3)^{0.45} \times (1\text{-}CE/100) \qquad \text{(Eq. 2-13)}$$

Where: s = Surface silt content (percent)

W = Average vehicle weight (tons)

CE = Control efficiency from watering twice per day (percent)

Source: (EPA, 2006)

The silt content was assumed to be 7.5 percent, as listed in Table A9-9-F-1 of the SCAQMD CEQA Air Quality Handbook (SCAQMD, 1993b) for overburden. The average weight of vehicles on unpaved surfaces was assumed to be 20 tons, which is the average of a 10 ton empty and a 30 ton full dump truck. The control efficiency from watering twice per day was assumed to be 50 percent.

The PM2.5 emission factor was calculated by multiplying the PM10 emission factor by the mass fraction of PM2.5 emissions in PM10 emissions from construction dust. The PM2.5 mass fraction was from "Final--Methodology to Calculate Particulate Matter (PM) 2.5 and PM 2.5 Significance Thresholds" (SCAQMD, 2006). The emission factors are listed in Table 7.

2.2 Emission Calculations

Emissions were calculated from estimates of (1) the types, number, horsepower rating and daily operating hours for construction equipment; (2) the types, number and daily miles traveled by on-site and off-site motor vehicles; and (3) the activity levels (e.g., hours of bulldozing, scraping and grading) for fugitive particulate matter producing activities. These estimates were made by construction month for construction of the combined cycle facility, the solar array, the reclaimed water supply pipeline, the natural gas supply pipeline, the sanitary wastewater pipeline, the potable water supply pipeline, and one of the transmission line segments. They were made by week for construction of the second transmission line segment. It was assumed that all on-site motor vehicle travel will be on unpaved surfaces and that all off-site motor vehicle travel will be on paved surfaces.

Hourly, daily, monthly and annual emissions were calculated for construction of the combined cycle facility and the solar array. On-site emission rates used to model impacts of combined cycle facility and solar array construction emissions on ambient air quality were derived from the hourly, daily and annual emissions.

Daily emissions were calculated for construction of the reclaimed water supply pipeline, the natural gas supply pipeline, the sanitary wastewater pipeline, the potable water supply pipeline, and each of the transmission line segments.

2.2.1 Combined Cycle and Solar Facility Construction Emission Calculations

Construction equipment and motor vehicle requirements as well as fugitive particulate matter producing activities for construction of the combined cycle and solar facilities were assumed to be the same as the estimates for construction of the Victorville 2 Hybrid Power Project ("VV2 Project," 07-AFC-1). The combined cycle and solar facilities for the VV2 Project are identical to these facilities for the PHPP. Therefore, it is reasonable to assume that the construction activities will be the same for both projects. However, it should be noted that equipment usage and fugitive particulate matter producing activities during site preparation will be somewhat less for the PHPP than for the VV2 Project, because the amount of soil handled for the PHPP will be less than for the VV2 Project. The estimated amount of soil handled during site preparation for the PHPP will be approximately 1,900,000 cubic yards, while the total for the VV2 Project will be approximately 2,600,000 cubic yards. Therefore, the resulting emission estimates during site preparation for the PHPP will be somewhat lower than the emissions that have been estimated using the activity levels from the VV2 Project.

Calculations of monthly combined cycle facility construction emissions are in Tables 8-A through 8-M, and calculations of monthly solar facility construction emissions are in Tables 9-A through 9-M. Tables 8-A and 9-A list the daily operating hours, vehicle miles traveled and number of pieces of construction equipment and motor vehicles by month for each type of equipment or motor vehicle; Tables 8-B and 9-B list the monthly operating hours and vehicle miles traveled for each type of construction equipment or motor vehicles, based on 22 working days per month; Tables 8-C through 8-H and 9-C through 9-H list the monthly CO, VOC, NO_X, SO_X, PM10 and PM2.5 exhaust emissions; Tables 8-I through 8-J and 9-I through 9-J list the monthly motor vehicle fugitive PM10 and PM2.5 emissions; Tables 8-K and 9-K list the monthly

fugitive particulate matter generating activity levels; and Tables 8-L through 8-M and 9-L through 9-M list the fugitive PM10 and PM2.5 emissions.

Peak hourly emissions were also estimated for each month of construction for the combined cycle and solar facilities. These estimates were made by assuming that all pieces of construction equipment used during each month will operate simultaneously during one hour and that all on-site motor vehicles will travel one-third of their daily mileage simultaneously during the same hour. These calculations are in Tables 10-A through 10-M for the combined cycle facility and in Tables 11-A through 11-M for the solar facility.

Construction emission summaries are in Tables 12-A through 12-L for construction of the combined cycle facility and in Tables 13-A through 13-L for construction of the solar facility. Tables A, C, E, G, I, and K summarize CO, VOC, NO_X, SO_X, PM10, and PM2.5 emissions, respectively. Each table lists running 12-month, monthly, daily and hourly emissions by month as well as peak emissions. Tables B, D, F, H, J, and L list maximum hourly, daily and annual on-site emissions for each of these pollutants.

Emission rates, in pounds per hour, used to model air quality impacts of on-site emissions during construction of the solar facility are listed in Table 14. The table lists the emission rate used for each pollutant and each averaging period and indicates how the emission rate was calculated.

2.2.2 Reclaimed Water Supply Pipeline, Natural Gas Pipeline, Sanitary Wastewater Pipeline and Potable Water Supply Line Construction Emission Calculations

Construction equipment and motor vehicle usage for construction of the reclaimed water supply pipeline were derived from combined estimates for construction of a reclaimed water pipeline and sanitary wastewater pipeline for the VV2 Project. The reclaimed water supply pipeline for the PHPP is 14 inches in diameter and 7.8 miles long, while each of the two pipelines for the VV2 Project are 14 inches in diameter and 1.5 miles long. Construction of these pipelines for the VV2 Project is anticipated to last nine months. Based on a nine-month construction duration for the PHPP reclaimed water supply pipeline, the equipment and motor vehicle requirements for the VV2 reclaimed water and sanitary wastewater pipeline construction were multiplied by a factor of three to account for the difference in number of pipelines and length:

(1 pipeline PHPP / 2 pipelines VV2) x (7.8 miles PHPP / 1.5 miles VV2) = 2.6, rounded up to 3.0

Construction equipment and motor vehicle usage for construction of the natural gas pipeline were derived from the estimates for the reclaimed water pipeline. The natural gas pipeline is 20 inches in diameter and 9.0 miles long. The daily equipment and motor vehicle usage was assumed to be the same as for constructing the reclaimed water pipeline, but the construction duration was increased from nine months to 15 months to account for the larger diameter and longer length:

(20 inch diameter natural gas / 14 inch diameter reclaimed water) x (9.0 miles natural gas / 7.8 miles reclaimed water) x 9 months reclaimed water = 14.8 months, rounded to 15 months

Construction equipment and motor vehicle usage for construction of the sanitary wastewater pipeline was derived from estimated usage for construction of the reclaimed water and sanitary wastewater pipelines for the VV2 Project. The sanitary wastewater pipeline for the PHPP is 12 inches in diameter and 1.4 miles long, which is approximately the same size and length as each of the two pipelines for the VV2 Project. Since the equipment and motor vehicle usage for the VV2 Project is for two pipelines, the daily usage for constructing the PHPP sanitary wastewater pipeline was assumed to be the same as for the two pipelines for the VV2 Project, but the construction duration was reduced from the nine months anticipated for the VV2 Project to five months for PHPP.

The potable water supply pipeline for the PHPP is approximately 0.4 miles long. The daily construction equipment and motor vehicle usage to construct this pipeline was assumed to be the same as for

constructing the sanitary wastewater pipeline, but the construction duration was reduced from five months to two months to account for the shorter length.

Calculations of daily construction emissions are in Tables 15-A through 15-M for the reclaimed water pipeline, Tables 16-A through 16-M for the natural gas pipeline, Tables 17-A through 17-M for the sanitary wastewater pipeline, and in Tables 18-A through 18-M for the potable water pipeline. Within each set of tables, Table A lists the daily operating hours, vehicle miles traveled and number of pieces of construction equipment and motor vehicles by month; Table B lists the daily operating hours and vehicle miles traveled for each type of construction equipment or motor vehicles; Tables C through H list the daily CO, VOC, NO_X, SO_X, PM10 and PM2.5 exhaust emissions; Tables I and J list the daily motor vehicle fugitive PM10 and PM2.5 emissions; Table K lists the daily fugitive particulate matter generating activity levels; and Tables L and M list the daily fugitive PM10 and PM2.5 emissions.

Construction emission summaries are in Tables 19-A through 19-F for construction of the reclaimed water pipeline, Tables 20-A through 20-F for the natural gas pipeline, Tables 21-A through 21-F for the sanitary wastewater pipeline, and in Tables 22-A through 22-F for the potable water pipeline.

2.2.3 Transmission Line Construction Emissions

Construction of the two transmission line segments will occur in phases:

- Road work
- Constructing foundations for towers
- Constructing towers
- Stringing conductors
- Clean-up
- Removing existing power lines (Segment 2)

Additionally, activities will occur at a marshalling yard throughout the construction period for each segment.

Construction equipment and motor vehicle requirements as well as fugitive particulate matter producing activities for construction of the two transmission line segments were derived from estimates of the construction activities for the VV2 Project transmission line. The VV2 Project includes construction of three transmission line segments. The activities required to construct the first segment for the VV2 Project are similar to the activities required to construct Segment 1 for the PHPP. However, Segment 1 for the PHPP is approximately 24 miles long, while the first segment for the VV2 Project is approximately 4.3 miles long. The 26-week construction duration for the VV2 Project was extended to 26 months for the PHPP to account for the difference in length of the segments.

The activities required to construct the third segment for the VV2 Project are similar to the activities required to construct Segment 2 for the PHPP. Segment 2 for the PHPP is approximately 12.2 miles long, and the third segment for the VV2 Project is approximately 13 miles long. Since the lengths and required construction activities are similar, the construction requirements for Segment 2 for the PHPP were assumed to be the same as for the third segment for the VV2 Project.

Construction equipment and on-site and off-site motor vehicle usage during construction of each phase for each segment were estimated, and daily emissions were calculated from these estimates. The calculations are in Tables 23-A through 23-D for Segment 1 and in 24-A through 24-D for Segment 2. Table A lists the daily operating hours, number of pieces and the resulting exhaust emissions for construction equipment. Table B lists the daily miles traveled, number of vehicles and the resulting exhaust emissions for motor vehicles. Table C lists daily entrained road dust PM10 and PM2.5 from motor vehicles, and Table D lists daily activity levels and fugitive PM10 and PM2.5 emissions.

Construction emissions by construction phase and month are in Tables 25-A through 25-F for Segment 1 and by construction phase and week in Tables 26-A through 26-F for Segment 2. These tables list daily CO, VOC, NOx, SO_X, PM10 and PM2.5 emissions by month or week as well as maximum daily emissions.

3.0 Operating Criteria Pollutant Emissions

Criteria pollutant (NO_X, SO_X, CO, VOC, PM10, and PM2.5) emissions are estimated for normal operations for the project equipment, including:

- Two General Electric (GE) 7FA combustion turbines with evaporative cooling and duct fired heat recovery steam generators (HRSGs). Both the combustion turbines and duct burners will only burn natural gas. Maximum heat input rates are 1,736 MMBtu/hr for each turbine and 424 MMBtu/hr for each fired HRSG.
- One 100 MMBtu/hr auxiliary boiler fired only with natural gas. The auxiliary boiler will be used to provide steam to facilitate rapid startup of the combined-cycle system.
- One 40 MMBtu/hr heat transfer fluid (HTF) auxiliary heater fired only with natural gas. The auxiliary heater HTF will be used to protect the solar energy heat transfer fluid from freezing.
- One 2 MW emergency diesel generator that will burn ultra-low-sulfur diesel fuel.
- One fire water pump diesel engine that will burn ultra low-sulfur-diesel fuel.
- One 10-cell cooling tower.
- On-site vehicle emissions (i.e., mirror wash and maintenance vehicles for the solar array).

3.1 Combustion Turbine and Duct Burner Criteria Pollutant Emissions

Emissions for the combustion turbines were based on process information provided by Kiewit Power Engineers, emission guarantees from GE, and a review of stack test data for PM10. Emissions for continuous operation as well as start-up and shutdown emissions were calculated based on the following operating scenarios:

- Continuous Operation
  - Combustion turbines at full load for 8,760 hours per year including 6,760 hours per year without duct firing and 2,000 hours per year withduct firing. Based on emissions at 100 percent load and turbine performance at the annual average temperature of 64 °F.
- Maximum Start ups and Shutdowns
  - Hot Start and Warm Start – 80 minute start-up duration with 260 hot/warm start-ups per unit per year. For each hot or warm start the turbines are offline for an average of 6 hours.
  - Cold Start – 110 minute start-up duration with 50 cold starts per unit per year. For each cold start the turbines are offline for an average of 48 hours.
  - Shutdown – 310 shutdowns per unit per year with a duration of 30 minutes each.

  Under these conditions, it is estimated that the units will be offline for 3,960 hours per year.

Maximum emissions of each pollutant from the above operating scenarios were used for subsequent assessment. The emission calculation methodology and assumptions used to calculate emissions for the combustion turbines and duct burners is provided in the following sections. Note that the tables in Attachment A contain emissions information for the combustion turbines and duct burners that was prepared by Kiewit Power Engineers using a turbine performance model, GE Power Island (Model Revision: GC561-062008-1).

3.1.1 NOx, CO and VOC Emission Calculations during Continuous Mode

Emissions of NO_X, CO, and VOC are estimated based on pollutant concentration in the stack discharge. The volumetric stack flow rate is determined using the "F-factor" (i.e., the volume of exhaust gas from the combustion of 1.0 MMBtu of natural gas) of 8,710 standard cubic feet per MMBtu (scf/MMBtu) taken from 40 Code of Federal Regulations (CFR) Part 60, Appendix A-7, Method 20, with the appropriate correction for oxygen (O_2) content. The volumetric flow is used to convert the proposed BACT[1] limit from units of parts per million by volume on dry basis (ppmvd) to an emission factor (EF) in units of pounds per MMBtu (lbs/MMBtu). The emission factor is calculated using Equation 3-1:

$$EF\ (lbs/MMBtu) = (ppmvd/10^6) \times (F\text{-factor}) \times (O_2\ Corr) \times (MW/MV) \qquad \text{(Eq. 3-1)}$$

Where:
- EF = emission factor
- ppmvd = concentration of the pollutant in the stack
- F-factor = volume of exhaust gas from the combustion of 1.0 MMBtu of natural gas = 8,710 scf/MMBtu
- O_2 Corr = Correction for excess O_2 content: $(20.9/[20.9 - \%O_2])$
- MW = molecular weight of the species (NO_X = 46 lbs/mole, CO = 28 lbs/mole, VOC as methane = 16 lbs/mole)
- MV = molar volume of gas at standard conditions (379 dscf/mole)

Emissions are calculated based on Equation 3-2:

$$Emissions\ (lbs/hr) = (EF) \times (\text{heat rate of device [MMBtu/hr]}) \qquad \text{(Eq. 3-2)}$$

Emission calculations for continuous operation mode of the turbines at different loads are presented in Table 27. Annual emissions for normal operating conditions without any start-ups and shutdowns are based on 6,760 hours per year of operation at full load without duct burning and 2,000 hours with duct burning. Annual emissions for normal operating conditions with start-ups and shutdowns are based on 2,207 hours per year of operation at full load without duct burning and 2,000 hours with duct burning. Emissions during start-up and shutdown mode are estimated as described in Section 3.1.4. Emissions during start-up and shutdown mode are presented in Table 28. Table 29 presents a comparison of emissions from the turbines during continuous operation with emissions during start-up and shutdown.

3.1.2 SO_X Emission Calculations during Continuous Mode

BACT proposed for SO_X emissions is the use of natural gas fuel with a sulfur content of 0.2 grains per 100 scf of natural gas. Hourly emissions are calculated according to Equation 3-3:

$$Emissions\ (lbs/hr) = (S) \times (MW_{SO2}/MW_S) \times (\text{heat rate}) / (HHV \times 7000\ gr/lb) \qquad \text{(Eq. 3-3)}$$

Where:
- S = Sulfur content of fuel = 0.2 grains per 100 scf
- MW_{SO2} = Molecular Weight of SO_2 = 64 lb/mole
- MW_S = Molecular weight of sulfur = 32 lb/mole
- Heat rate = heat rate of turbine when duct burners unfired (MMBtu/hr) = heat rate of turbine + heat rate of duct burners when fired (MMBtu/hr)
- HHV = Higher heating value of the fuel (1,024 Btu/scf)

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[1] The "BACT" limit identified herein refers to the emission limit proposed in the control technology assessment in Section 5.2, Air Quality of the AFC. BACT is used interchangeably in this appendix to mean either BACT or LAER.

SO_X emission calculations for continuous operation mode of the turbines at different loads are presented in Table 27. Annual emissions for normal operating conditions without any start-ups and shutdowns are based on 6,760 hours per year of operation at full load without duct burning and 2,000 hours with duct burning. There will be negligible SO_X emissions during start-up and shutdown mode as these emissions occur due to combustion of fuel. Table 29 presents a comparison of emissions from the turbines during continuous operation with emissions during start-up and shut-down.

3.1.3 PM10 and PM 2.5 Emissions during Continuous Mode

BACT proposed for PM10 emissions is the use of natural gas fuel and good combustion practice. Per the proposed BACT limit, PM10 emissions from the turbine will be limited to 12 pounds per hour without the duct burner and 18 pounds per hour with duct burner, under all operating conditions. 100 percent of PM10 emissions are assumed to be PM2.5.

PM10 emissions for continuous operation mode of the turbines at different loads are presented in Table 27. Annual emissions for normal operating conditions without any start-ups and shutdowns are based on 6,760 hours per year of operation at full load without duct burning and 2,000 hours with duct burning. There will be negligible PM10 emissions during start-up and shut-down mode as these emissions occur due to combustion of fuel. Table 29 presents a comparison of emissions from the turbines during continuous operation with emissions during start-up and shut-down.

3.1.4 Emissions during Start-up and Shut-down Mode

Emissions during start-up and shut-down mode were estimated for NO_X, CO and VOC based on test data provided by the turbine manufacturer. The emissions in pounds per hour were estimated by dividing the manufacturer guaranteed emission limits (pounds of pollutant per start-up or shut-down event) with the duration of each start-up or shut-down event (hours/event). The number of such events and their duration is given in Section 3.1 above. Negligible SO_X and PM10 emissions are expected during the start-up and shut-down modes as fuel combustion is low and these emissions occur only when there is fuel combustion.

Emissions during start-up and shut-down mode are presented in Table 28. Table 29 presents a comparison of emissions from the turbines during continuous operation with emissions during start-up and shut-down.

3.2 Auxiliary Boiler and HTF Heater Criteria Pollutant Emissions

The emission calculation methodologies for the auxiliary boiler and HTF heater are similar, as they are both natural gas-fired combustion devices that employ ultra-low-NO_X burners for emissions control. The assumptions made regarding boiler operation used as the basis for emission calculations include:

- One 100 MMBtu per hour auxiliary boiler;
- One 40 MMBtu per hour HTF heater;
- Natural gas will be the only fuel used by the boiler and heater;
- Boiler and heater to be equipped with ultra-low- NO_X burners;
- Operation of the auxiliary boiler is limited to 500 hours per year;
- Operation of the HTF heater is limited to 1,000 hours per year;
- 100 percent of the PM10 emissions are PM2.5.

The emission factors used for the emission estimates for all pollutants are based on the BACT analysis (see Section 5.2, Air Quality of the AFC). Auxiliary boiler emission factors and emission estimates are presented in Table 30, and HTF heater emission factors and emission estimates are presented in Table 31.

3.2.1 NO_X and CO Emission Calculations

Emissions of NO_X and CO are estimated based on pollutant concentrations in the stack discharge determined in the BACT analysis. NO_X emissions are based on 9 ppmvd and CO emissions are based on 50 ppmvd, both measured at three percent excess oxygen. The volumetric stack flow rate is determined using the "F-factor" of 8,710 standard cubic feet per MMBtu (scf/MMBtu) taken from 40 CFR Part 60, Appendix A-7, Method 20, with the appropriate correction for O_2 content. The volumetric flow is used to convert the proposed BACT limit from units of parts per million by volume on dry basis (ppmvd) to an emission factor (EF) in units of pounds per MMBtu (lbs/MMBtu). The emission factor is calculated using Equation 3-1. Emissions are calculated based on Equation 3-2. Calculations are presented in Tables 30 and 31 for the auxiliary boiler and the HTF heater, respectively.

3.2.2 PM10 and VOC Calculations

PM10 and VOC emissions were calculated using emission factors from AP-42 Chapter 1 External Combustion Sources, Section 1.4 Natural Gas Combustion, Table 1.4-2 (EPA 1998b). Emissions are calculated according to Equation 3-2. Calculations are presented in Tables 30 and 31 for the auxiliary boiler and the HTF heater respectively.

3.2.3 SO_X Emission Calculations

BACT proposed for SO_X emissions is the use of natural gas fuel and good combustion practice. SOx emission estimates are based on 0.2 grains of sulfur per 100 scf of natural gas. Hourly emissions are calculated according to Equation 3-3. Calculations are presented in Tables 30 and 31 for the auxiliary boiler and HTF heater respectively.

3.3 Emergency Diesel-Fired Engines Emissions

The assumptions made regarding emergency engine operation used as the basis for emission calculations include:

- One 135 kW diesel-fired, 2009 model year Tier 3 engine (fire water pump);
- One 2 MW diesel-fired engine, 2009 model year Tier 2 engine (generator engine);
- The calculations assume the use of ultra-low sulfur (15 ppm) diesel fuel;
- Each diesel engine will be operated for one one-hour test per week, not to exceed 50 hours per year;
- Emissions do not reflect emergency use; and
- 100 percent of the PM10 emissions are PM2.5.

The emergency diesel generator will operate a maximum of 50 hours per year for testing and maintenance and will have an output of 2 MW. Emission factors, shown in Table 32, were obtained from a similar Caterpillar generator and comply with EPA Tier 2 engine emission requirements. SOx emissions were calculated using a fuel sulfur content of 0.0015 weight percent (15 ppmw). Emergency diesel generator emissions are presented in Table 32.

The emergency diesel fire water pump engine will operate a maximum of 50 hours per year for testing and maintenance and will have an output of 135 kW. Emission factors, shown in Table 33, were obtained from a similar Caterpillar engine and comply with EPA Tier 3 engine emission requirements. SOx emissions were calculated using a fuel sulfur content of 15 ppmw. Emergency diesel fire water pump engine emissions are presented in Table 33.

Under the New Source Performance Standard (NSPS) Subpart IIII, the emission limit for NO_X is combined with non-methane hydrocarbons (NMHC). For these emission estimates, the NO_X fraction is assumed to be 95 percent of the combined emissions, and the balance NMHC (Carl Moyer, 2003). NMHC is assumed to be equivalent to VOC.

The calculation procedure for NO_X, CO, PM10, and VOC are similar to one another; only the emission factors differ between the calculations. The emission calculation procedure is presented in Section 3.3.1. The procedure used to estimate SO_X emissions differs from the other criteria pollutants. The SO_X calculations are shown in Section 3.3.2 below.

3.3.1 NO_X, CO, VOC and PM10 Emission Calculations

The daily emissions are based on operating the engine no more than one hour during a day at full load for readiness testing. Therefore, the daily emissions are equal to the hourly emissions. Annual emissions are based on readiness testing up to 50 hours per year. Hourly emissions are calculated using Equation 3-4. Tables 32 and 33 present the emissions from the emergency generator and fire water pump engines, respectively.

Emissions (lbs/hr) = EF (g/hp-hr) x Engine Capacity (hp) ÷ 453.6 g/lbs (Eq. 3-4)

3.3.2 SO_X Emission Calculations

SO_X emissions are based on fuel use and a fuel sulfur content of 15 ppmw . Fuel consumption is estimated based on the EPA default fuel consumption rate of 7,000 Btu/Hp-hr (EPA, 1996a). The emission factor for SO_X emissions was calculated using Equation 3-5 (EPA, 1996b):

Emission Factor (lb/MMBtu) = 1.01 x S (Eq. 3-5)

Where:

S = Sulfur content of diesel fuel (percent) = 0.0015 percent

Hourly emissions are calculated according to Equation 3-6:

Emissions (lbs/hr) = Emission Factor (lb/MMBtu) x Engine Input (MMBtu/hr) (Eq. 3-6)

Tables 32 and 33 present the emissions from the diesel generator and fire water pump engines, respectively.

3.4 Cooling Tower PM10 Emissions

Because wet cooling towers provide direct contact between the cooling water and the air passing through the tower, some of the liquid water may be entrained in the air stream and be carried out of the tower as "drift" droplets. PM10 emissions are generated when the drift droplets evaporate and leave fine particulate matter formed by crystallization of dissolved solids. Dissolved solids found in cooling tower drift can consist of mineral matter, chemicals for corrosion inhibition, etc. As described in EPA AP-42, Section 13.4, Wet Cooling Towers (EPA, 1995b), particulate matter emissions are calculated by multiplying the total liquid drift factor by the Total Dissolved Solids (TDS) fraction in the circulating water. PM10 emissions are estimated assuming that once the water evaporates, all of the solid particles are within the PM10 size range. TDS data for the cooling tower is estimated by multiplying the TDS data for the make-up water by the cooling tower cycles of concentration. Hourly PM10 emissions are calculated according to Equation 3-7:

Emissions (lb/hr) = WCR x 60 min/hr x (Drift % / 100) x ρ x TDS x PM10 fraction (Eq. 3-7)

Where: WCR = Water Circulation Rate, gallons per minute

ρ = Density of water (lb/gallon)

TDS = Total Dissolved Solids, ppm (lb/10^6 lb water)

The assumptions made regarding cooling tower operation used as the basis for emission calculations include:

- Circulation rate of 130,000 gallons per minute;
- Cooling tower circulating water will contain a maximum of 5,000 mg/L (equivalent to 5,000 ppm) TDS;
- The TDS concentration in make-up water is assumed to be 531 mg/L (equivalent to 5,000 ppm);
- The cooling tower will be equipped with a drift eliminator with drift losses of less than or equal to 0.0005 percent based on circulation flow rate;
- 100 percent of the TDS emissions are PM10; and
- 100 percent of the PM10 emissions are PM2.5.

Daily emissions are calculated based on the maximum daily operating schedule of 24 hours per day. Annual emissions are calculated assuming continuous operation 8,760 hours per year. Cooling tower PM10 and PM2.5 emissions are presented in Table 34.

3.5 Vehicle Emissions

The facility will require periodic vehicle travel over the unpaved portions of the solar field to perform routine maintenance including mirror washing, maintenance inspections and repairs of the piping network, herbicide application and dust suppressant application. Criteria pollutant emissions are expected from the combustion of fuels in the vehicles and fugitive PM10 emissions are expected from vehicle traffic in the solar fields.

Vehicle criteria pollutant emissions are calculated as the anticipated miles traveled multiplied by an emission factor. The emission factors, except fugitive emissions from entrained road dust, were compiled by running the ARB's EMFAC2007 (version 2.3) Burden Model (ARB, 2007b) and dividing calculated daily emissions by daily vehicle-miles-traveled. All the emission factors account for the emissions from start, running and idling exhaust. Fugitive PM10 and PM2.5 emission factors take into account tire and brake wear and entrained unpaved road dust. Vehicle emissions are shown in Table 35.

Emissions were calculated using Equation 2-3 for vehicle exhaust and 2-12 for unpaved road PM10 and PM2.5 emissions. Vehicle distance (daily and annual) and average speed are assumed based on knowledge of the operating practices at the SEGS solar facility in Kramer Junction, California.

3.6 Summary of Operational Emissions

Operational criteria pollutant emissions for the Project are shown in Table 36.

4.0 Toxic Air Contaminant Emissions

Toxic air contaminant (TAC) emissions are estimated for normal operations for the combustion turbines and duct burners, auxiliary boiler, HTF heater, emergency fire pump and emergency generator engines, and the cooling tower.

4.1 Combustion Turbine and Duct Burner TAC Emission Calculations

Emissions of TACs from the combustion turbines and duct burners are estimated based on EPA AP-42 emission factors for natural gas combustion in stationary gas turbines (EPA, 2000).

For each pollutant, maximum hourly emissions are calculated according to Equation 4-1. Annual emissions are calculated by multiplying the hourly emission rate by the maximum annual hours of operation. The emission factors and calculated emissions are shown in Table 37.

Emissions (lbs/hr) = (EF/HHV) x (heat rate of device [MMBtu/hr]) (Eq. 4-1)

Where: EF = emission factor (lbs/MMscf gas combusted)

HHV = Higher heating value of the fuel (1,024 Btu/scf)

4.2 Auxiliary Boiler and HTF Heater TAC Emission Calculations

Emissions of TACs from the boilers are estimated based on EPA AP-42 emission factors for natural gas combustion (EPA, 1998b).

For each pollutant, maximum hourly emissions are calculated according to Equation 4-1. Annual emissions are calculated by multiplying the hourly emission rate by the maximum annual hours of operation. The emission factors and calculated emissions are shown in Tables 38 and 39 for the auxiliary boiler and the HTF heater, respectively.

4.3 Emergency Engine TAC Emission Calculations

The Project will operate two diesel-fired emergency engines, one 2 MW engine for the emergency generator and one 135 kW engine for the fire water pump. TAC emissions from this unit were quantified for routine testing and maintenance operation only which will be limited to no more than 50 hours per year. TAC emissions were characterized as aggregate particulate emissions (diesel particulate matter [DPM]) from diesel-fired engines (OEHHA, 2003). DPM emissions are calculated according to Equation 3-4, and the DPM is assumed to be equal to the PM10 emissions. Note that the TAC emissions are estimated for maintenance and testing operations, and do not reflect emergency use. Emission estimates for TACs which are assumed to be PM10 for the diesel engines are shown in Tables 32 and 33 forthe emergency generator and the fire water pump engines, respectively.

4.4 Cooling Tower TAC Emissions

The PHPP proposes to use a wet cooling tower for power plant cooling. Water for cooling tower makeup will be supplied from a reclaimed water supply. Low levels of toxic metals and organics were identified in the reclaimed water. Non-volatile TAC emissions are calculated according to Equation 4-2 and volatile TAC emissions are calculated according to Equation 4-3.

$$ER = (WCR \times 60\ min/hr \times 3.785\ L/gal \times HAP \times 1g / 10^6\ \mu g \times DF \times CC) / (453.6\ g/lb) \quad \text{(Eq. 4-2)}$$

Where: ER = Emission Rate (lb/hr)

WCR = Water circulation rate (gal/min)

DF = Drift fraction (dimensionless)

HAP = HAP concentration (μg/liter)

CC = factor for cycles of concentration = 5,000/531 (9.4 conc cycles)

$$ER = MR \times 60\ min/hr \times 3.785\ liters/gal \times HAP \times VF / (10^6\ \mu g/g \times 453.6\ g/lb) \quad \text{(Eq. 4-3)}$$

Where: ER = Emission Rate (lb/hr)

MR = Make up water rate

HAP = HAP concentration (μg/liter)

VF = Volatilization Fraction (assumed to be one)

In addition, the cooling tower will be a source for chloroform emissions from the application of sodium hypochlorite as a biocide for cooling tower maintenance. Biocide usage is estimated by the engineering contractor based on experience with similar applications. Chloroform emissions are estimated using Equation 4-4.

$$E = EF \times \text{biocide usage (gal/hr)} \times \rho \times C \times ME \quad \text{(Eq. 4-4)}$$

Where: E = Emissions (lbs/hr)

EF = emission factor of chloroform (lb of chloroform per lb of chlorine

ρ = density of sodium hypochlorite (lb/gallon)

C = hypochlorite concentration (percent)

ME = molar equivalent (moles of chlorine per mole of sodium hypochlorite)

The emission factor is taken from study contracted by ARB for sources of chloroform in the South Coast Air Basin (M.B. Rogozen et.al., 1998). TAC emissions are provided in Table 40.

4.5 Summary of TAC Emissions

Operational criteria pollutant emissions for the Project are shown in Table 41.

5.0 Operating Greenhouse Gas Emissions

The combustion sources and circuit breakers proposed for PHPP may emit greenhouse gases (GHG), including carbon dioxide (CO_2), methane (CH_4), nitrous oxide (N_2O), and sulfur hexafluoride (SF_6). The methodology used to calculate GHG emissions from these sources is explained below.

5.1 Combustion Turbine and Duct Burner GHG Emissions

GHG emissions from operation of each of the two combustion turbines and duct burners are based upon the estimated usage of each at 8,760 hrs/yr, the estimated natural gas usage rate of 1.93 MMscf/hr, the estimated heat content of natural gas of 1,024 Btu/scf and the emission factors listed in Tables C.6 and C.7 of the California Climate Action Registry General Reporting Protocol, Version 3.0 (GRP, 2008). Annual emissions of GHG are calculated using Equation 5-1. Emission calculations are shown in Table 42.

E_{GHG} = Fuel x Operation x HV x EF_{GHG} x conversion factor (Eq. 5-1)

Where: E_{GHG} = $Emissions_{GHG}$, (metrics tons/yr)

Fuel = natural gas usage rate (MMscf/hr)

Operation = Operating schedule (hrs/yr)

HV = heating value of natural gas (MMBtu/MMscf)

EF_{GHG} = emission factor for each GHG from Tables C.6 and C.7 of GRP (kg/MMBtu)

conversion factor = conversion factor for kg to metric tons

5.2 Auxiliary Boiler and HTF Heater GHG Emissions

GHG emissions from operation of the 100 MMBtu per hour auxiliary boiler and 40 MMBtu per hour HTF heater are based upon the estimated usage of the units by the Project (500 hours per year for the boiler and 1,000 hours per year for the heater) and the emission factors listed in Tables C.6 and C.7 of the GRP (GRP, 2008). Annual emissions of GHG are calculated using Equation 5-1. Emission calculations are shown in Table 42.

5.3 Emergency Internal Combustion Engine GHG Emissions

GHG emissions from operation of the emergency diesel-fueled engines are based upon the estimated usage by the Project (50 hours per year, per engine), the estimated fuel consumption and the emission factors listed in Tables C.6 and C.7 of the GRP (GRP, 2008).The emissions are calculated according to Equation 5-2. Emission calculations are shown in Table 42. Note that the GHG emissions are estimated for maintenance and testing operations, and do not reflect emergency use.

E_{GHG} = fuel use x EF_{GHG} x conversion factor (Eq. 5-2)

Where: E_{GHG} = $Emissions_{GHG}$, (metrics tons/yr)

EF_{GHG} = emission factor for each GHG from Tables C.6 and C.7 of GRP

conversion factor = conversion factor for kg to metric tons

5.4 Circuit Breakers

There are 160 pounds of SF_6 in use in circuit breakers in the Project equipment. Emissions are calculated according to Equation 5-3.

E_{SF6} = Q x LR / 2,200 lbs/tonne (Eq. 5-3)

Where: E_{SF6} = Emissions of SF_6 (metric tons/yr)

Q = Quantity of SF_6 in the Project circuit breakers

LR = Leak Rate (dimensionless)

The SF_6 leakage rate from operating equipment is guaranteed at 0.5 percent per year and can be kept below 0.2 percent per year with current best technology. At the maximum guaranteed leak rate of 0.5 percent, this corresponds to 0.8 pounds per year of emissions, or 9 metric tons /year of CO_2 equivalent (CO_2e) emissions. The more probable, technically feasible leak rate is 0.2 percent, which corresponds to approximately 108 metric tons CO_2e emissions over the 30-year plant lifetime. Emission calculations are shown in Table 42.

5.5 On-site Vehicular Traffic

GHG emissions from on-site light-duty vehicles (LDV), heavy-duty trucks (HDT) and the mirror wash vehicle are based upon the predicted annual miles traveled for the Project, average fuel economy values from the EMFAC2007 BURDEN model (ARB, 2007b) results for 2009, and the emission factors listed in Tables C.4 and C.5 of the GRP (GRP 2008). Annual emissions of GHG are calculated using the following equations:

CO_2, metric tons/yr = (AR/ M) x EF x conversion factor of kg to metric tons (Eq. 5-4)

Where: AR = vehicle-miles-traveled (miles/year)

M = distance traveled per gallon of fuel consumed (miles/gallon)

EF = CO_2 emission factor (kg/gal)

Methane (CH_4) and nitrous oxide (N_2O) emissions are calculated according to Equation 5-5.

CH_4 or N_2O, metric tons/yr = AR x EF x conversion factor of kg to metric tons (Eq. 5-5)

Where: AR = vehicle-miles-traveled (miles/year)

EF = CH_4 or N_2O emission factor (kg/mile)

Emission calculations are shown in Table 43.

5.6 Summary of GHG Emissions

CO_2 equivalent emissions are calculated using the global warming potential (GWP) provided in Appendix C of the GRP (GRP, 2008) in the column labeled "GWP (SAR, 1996)", as these are the values used by the California Climate Registry. For example, the GWP of methane is 21 times that of CO_2 and the GWP of nitrous oxide is 310 times that of CO_2. Total GHG emissions are shown in Table 42.

6.0 References

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40 Code of Federal Regulations Part 60, New Source Performance Standard (NSPS), Subpart IIII

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Tables

PHPP Construction Emissions

Table 1

Diesel Off-road Equipment Emission Factors for 2009 in Antelope Valley AQMD Jurisdiction by Equipment Catgeory and Horsepower Range[a]

Equipment Type	HP Range		Emission Factor (lb/hr)				
	From	To	CO	NOx	PM10	SOx	VOC
Aerial Lifts	0	15	0.0530	0.0690	0.0041	0.0001	0.0107
Aerial Lifts	16	25	0.0584	0.1022	0.0068	0.0001	0.0214
Aerial Lifts	26	50	0.1873	0.1963	0.0184	0.0003	0.0723
Aerial Lifts	51	120	0.2477	0.4489	0.0352	0.0004	0.0686
Aerial Lifts	121	500	0.5865	1.8940	0.0591	0.0021	0.1470
Aerial Lifts	501	750	1.0601	3.5229	0.1084	0.0039	0.2749
Agricultural Mowers	0	120	0.2317	0.4381	0.0339	0.0004	0.0677
Agricultural Tractors	0	15	0.0643	0.0770	0.0039	0.0002	0.0123
Agricultural Tractors	16	25	0.0839	0.1645	0.0091	0.0003	0.0256
Agricultural Tractors	26	50	0.3763	0.3596	0.0367	0.0004	0.1550
Agricultural Tractors	51	120	0.4948	0.9348	0.0754	0.0009	0.1485
Agricultural Tractors	121	175	0.6843	1.4229	0.0720	0.0014	0.1679
Agricultural Tractors	176	250	0.4790	1.8992	0.0619	0.0020	0.1615
Agricultural Tractors	251	500	0.9402	2.8342	0.0934	0.0029	0.2373
Air Compressors	0	15	0.0509	0.0828	0.0060	0.0001	0.0142
Air Compressors	16	25	0.0833	0.1389	0.0098	0.0002	0.0318
Air Compressors	26	50	0.2699	0.2354	0.0257	0.0003	0.1108
Air Compressors	51	120	0.3302	0.5945	0.0527	0.0006	0.0986
Air Compressors	121	175	0.5044	0.9972	0.0547	0.0010	0.1228
Air Compressors	176	250	0.3432	1.3883	0.0459	0.0015	0.1204
Air Compressors	251	500	0.6904	2.1770	0.0743	0.0023	0.1896
Air Compressors	501	750	1.0669	3.4628	0.1167	0.0036	0.2992
Air Compressors	751	1000	1.8299	5.9572	0.1765	0.0049	0.5084
Balers	0	50	0.2875	0.3588	0.0296	0.0005	0.1065
Balers	51	120	0.3362	0.6373	0.0435	0.0006	0.0912
Bore/Drill Rigs	0	15	0.0631	0.0756	0.0038	0.0002	0.0121
Bore/Drill Rigs	16	25	0.0664	0.1295	0.0072	0.0002	0.0201
Bore/Drill Rigs	26	50	0.2616	0.2855	0.0223	0.0004	0.0676
Bore/Drill Rigs	51	120	0.4868	0.6821	0.0525	0.0009	0.0865
Bore/Drill Rigs	121	175	0.7538	1.0246	0.0531	0.0016	0.1060
Bore/Drill Rigs	176	250	0.3476	1.3151	0.0396	0.0021	0.1002
Bore/Drill Rigs	251	500	0.5590	1.8499	0.0625	0.0031	0.1523

Table 1

Diesel Off-road Equipment Emission Factors for 2009 in Antelope Valley AQMD Jurisdiction by Equipment Catgeory and Horsepower Range[a]

Equipment Type	HP Range		Emission Factor (lb/hr)				
	From	To	CO	NOx	PM10	SOx	VOC
Bore/Drill Rigs	501	750	1.1046	3.8094	0.1260	0.0062	0.3089
Bore/Drill Rigs	751	1000	1.7273	8.7633	0.2164	0.0093	0.5756
Cement and Mortar Mixers	0	15	0.0390	0.0531	0.0033	0.0001	0.0082
Cement and Mortar Mixers	16	25	0.0987	0.1677	0.0116	0.0002	0.0372
Chippers/Stump Grinders	0	25	0.0829	0.1580	0.0086	0.0003	0.0246
Chippers/Stump Grinders	26	120	0.4995	0.8964	0.0715	0.0009	0.1373
Chippers/Stump Grinders	121	175	0.7049	1.3794	0.0684	0.0015	0.1564
Chippers/Stump Grinders	176	250	0.5658	2.2030	0.0709	0.0025	0.1821
Chippers/Stump Grinders	251	500	0.7058	2.2037	0.0727	0.0024	0.1805
Chippers/Stump Grinders	501	750	1.6990	5.4553	0.1776	0.0060	0.4476
Chippers/Stump Grinders	751	1000	2.9746	9.8719	0.2886	0.0085	0.8156
Combines	0	120	0.5930	1.1235	0.0789	0.0011	0.1636
Combines	121	175	0.6309	1.3131	0.0578	0.0014	0.1410
Combines	176	250	0.4269	1.7267	0.0492	0.0020	0.1314
Combines	251	500	0.6289	2.2088	0.0644	0.0024	0.1649
Commercial Turf Equipment	0	15	0.0589	0.0718	0.0040	0.0002	0.0102
Commercial Turf Equipment	16	25	0.0596	0.1119	0.0058	0.0002	0.0176
Compressor (Entertainment)	0	120	0.2501	0.4629	0.0410	0.0004	0.0776
Compressor (Railyard)	0	120	0.2329	0.4310	0.0381	0.0004	0.0722
Concrete/Industrial Saws	0	25	0.0678	0.1294	0.0071	0.0002	0.0201
Concrete/Industrial Saws	26	50	0.3305	0.3118	0.0318	0.0004	0.1324
Concrete/Industrial Saws	51	120	0.5026	0.9098	0.0757	0.0009	0.1444
Concrete/Industrial Saws	121	175	0.8816	1.7496	0.0905	0.0018	0.2062
Crane (Rail-CHE)	0	120	0.3864	0.7150	0.0633	0.0006	0.1199
Crane (Rail-CHE)	121	175	0.3626	0.7432	0.0355	0.0008	0.0837
Cranes	0	50	0.3264	0.2582	0.0305	0.0003	0.1378
Cranes	51	120	0.3763	0.6897	0.0636	0.0006	0.1191
Cranes	121	175	0.4902	0.9859	0.0566	0.0009	0.1281
Cranes	176	250	0.3642	1.3109	0.0499	0.0013	0.1310
Cranes	251	500	0.7101	1.8726	0.0722	0.0018	0.1906
Cranes	501	750	1.1948	3.2346	0.1233	0.0030	0.3231
Cranes	751	9999	4.4278	12.6241	0.3953	0.0098	1.1449

Table 1

Diesel Off-road Equipment Emission Factors for 2009 in Antelope Valley AQMD Jurisdiction by Equipment Catgeory and Horsepower Range[a]

Equipment Type	HP Range		Emission Factor (lb/hr)				
	From	To	CO	NOx	PM10	SOx	VOC
Crawler Tractors	0	50	0.3618	0.2814	0.0337	0.0003	0.1545
Crawler Tractors	51	120	0.5079	0.9509	0.0865	0.0008	0.1651
Crawler Tractors	121	175	0.7652	1.5628	0.0900	0.0014	0.2048
Crawler Tractors	176	250	0.5990	2.0518	0.0825	0.0019	0.2142
Crawler Tractors	251	500	1.2793	2.8640	0.1150	0.0025	0.3022
Crawler Tractors	501	750	2.2933	5.2558	0.2087	0.0047	0.5451
Crawler Tractors	751	1000	3.6259	8.8977	0.2936	0.0066	0.8350
Crushing/Proc. Equipment	0	50	0.5721	0.4757	0.0543	0.0006	0.2406
Crushing/Proc. Equipment	51	120	0.6002	1.0901	0.1000	0.0010	0.1865
Crushing/Proc. Equipment	121	175	0.9755	1.9619	0.1110	0.0019	0.2492
Crushing/Proc. Equipment	176	250	0.6581	2.6861	0.0897	0.0027	0.2382
Crushing/Proc. Equipment	251	500	1.1456	3.6395	0.1257	0.0037	0.3256
Crushing/Proc. Equipment	501	750	1.7588	5.9501	0.2007	0.0059	0.5224
Crushing/Proc. Equipment	751	9999	5.1524	16.5812	0.5006	0.0131	1.4540
Dumpers/Tenders	0	25	0.0344	0.0662	0.0039	0.0001	0.0113
Excavators	0	25	0.0676	0.1271	0.0066	0.0002	0.0200
Excavators	26	50	0.3270	0.2679	0.0298	0.0003	0.1260
Excavators	51	120	0.5376	0.9006	0.0846	0.0009	0.1527
Excavators	121	175	0.6713	1.2030	0.0708	0.0013	0.1573
Excavators	176	250	0.4123	1.6087	0.0554	0.0018	0.1528
Excavators	251	500	0.6561	2.0649	0.0751	0.0023	0.2069
Excavators	501	750	1.0875	3.5414	0.1269	0.0039	0.3460
Forklifts	0	50	0.1852	0.1541	0.0170	0.0002	0.0706
Forklifts	51	120	0.2245	0.3638	0.0356	0.0004	0.0627
Forklifts	121	175	0.3291	0.5759	0.0347	0.0006	0.0758
Forklifts	176	250	0.1715	0.7435	0.0230	0.0009	0.0653
Forklifts	251	500	0.2376	0.9183	0.0309	0.0011	0.0864
Generator (Entertainment)	0	50	0.4225	0.4431	0.0418	0.0006	0.1665
Generator (Entertainment)	51	120	0.5820	1.0832	0.0832	0.0010	0.1657
Generator (Entertainment)	121	175	0.7911	1.6213	0.0775	0.0017	0.1826
Generator (Entertainment)	176	250	0.5299	2.0299	0.0649	0.0022	0.1690
Generator (Entertainment)	251	500	0.8467	2.6012	0.0844	0.0027	0.2133

Table 1

Diesel Off-road Equipment Emission Factors for 2009 in Antelope Valley AQMD Jurisdiction by Equipment Catgeory and Horsepower Range[a]

Equipment Type	HP Range		Emission Factor (lb/hr)				
	From	To	CO	NOx	PM10	SOx	VOC
Generator (Entertainment)	501	750	1.6621	5.2270	0.1676	0.0055	0.4304
Generator (Entertainment)	751	9999	3.6146	11.4568	0.3456	0.0097	0.9794
Generator (Railyard)	0	175	0.7370	1.5105	0.0722	0.0016	0.1701
Generator (Railyard)	176	9999	3.2914	10.4323	0.3147	0.0088	0.8918
Generator Sets	0	15	0.0720	0.1143	0.0070	0.0002	0.0172
Generator Sets	16	25	0.1017	0.1696	0.0108	0.0002	0.0302
Generator Sets	26	50	0.2823	0.3044	0.0279	0.0004	0.1076
Generator Sets	51	120	0.5015	0.9082	0.0699	0.0009	0.1371
Generator Sets	121	175	0.7420	1.4703	0.0702	0.0016	0.1630
Generator Sets	176	250	0.5061	2.0685	0.0616	0.0024	0.1603
Generator Sets	251	500	0.8992	2.9695	0.0911	0.0033	0.2264
Generator Sets	501	750	1.4516	4.9315	0.1493	0.0055	0.3788
Generator Sets	751	9999	3.5400	12.0699	0.3524	0.0105	0.9922
Graders	0	50	0.3703	0.3003	0.0344	0.0004	0.1517
Graders	51	120	0.5520	0.9824	0.0904	0.0009	0.1672
Graders	121	175	0.7439	1.4427	0.0828	0.0014	0.1857
Graders	176	250	0.5161	1.9057	0.0702	0.0019	0.1853
Graders	251	500	0.8048	2.2465	0.0849	0.0023	0.2242
Graders	501	750	1.7035	4.8949	0.1824	0.0049	0.4788
Hydro Power Units	0	15	0.0367	0.0440	0.0022	0.0001	0.0070
Hydro Power Units	16	25	0.0475	0.0932	0.0052	0.0001	0.0145
Hydro Power Units	26	50	0.2742	0.2303	0.0261	0.0003	0.1171
Hydro Power Units	51	120	0.3032	0.5703	0.0501	0.0005	0.0957
Lawn & Garden Tractors	0	15	0.0573	0.0772	0.0046	0.0001	0.0110
Lawn & Garden Tractors	16	25	0.0605	0.1187	0.0066	0.0002	0.0181
Leaf Blowers/Vacuums	0	15	0.0184	0.0240	0.0014	0.0000	0.0034
Leaf Blowers/Vacuums	16	120	0.2960	0.5322	0.0369	0.0006	0.0742
Leaf Blowers/Vacuums	121	250	0.2318	0.9201	0.0259	0.0011	0.0672
Materials Handling (Rail-CHE)	0	120	0.4241	0.7848	0.0695	0.0007	0.1316
Off-Highway Tractors	0	120	0.7523	1.4797	0.1310	0.0011	0.2582
Off-Highway Tractors	121	175	0.8632	1.8476	0.1057	0.0015	0.2431
Off-Highway Tractors	176	250	0.5542	1.7817	0.0767	0.0015	0.1952

Table 1

Diesel Off-road Equipment Emission Factors for 2009 in Antelope Valley AQMD Jurisdiction by Equipment Catgeory and Horsepower Range[a]

Equipment Type	HP Range		Emission Factor (lb/hr)				
	From	To	CO	NOx	PM10	SOx	VOC
Off-Highway Tractors	251	750	3.7778	7.1499	0.2974	0.0057	0.7664
Off-Highway Tractors	751	1000	5.8599	11.8061	0.4167	0.0082	1.1649
Off-Highway Trucks	0	175	0.7640	1.3786	0.0821	0.0014	0.1851
Off-Highway Trucks	176	250	0.4516	1.7369	0.0613	0.0019	0.1723
Off-Highway Trucks	251	500	0.8057	2.4800	0.0921	0.0027	0.2596
Off-Highway Trucks	501	750	1.3069	4.1577	0.1521	0.0044	0.4243
Off-Highway Trucks	751	1000	2.2155	7.6471	0.2324	0.0063	0.6741
Other Agricultural Equipment	0	15	0.0468	0.0586	0.0035	0.0001	0.0092
Other Agricultural Equipment	16	25	0.0711	0.1287	0.0083	0.0002	0.0253
Other Agricultural Equipment	26	50	0.2620	0.2647	0.0258	0.0003	0.1059
Other Agricultural Equipment	51	120	0.3397	0.6423	0.0500	0.0006	0.0998
Other Agricultural Equipment	121	175	0.4979	1.0356	0.0506	0.0010	0.1193
Other Agricultural Equipment	176	250	0.3515	1.4003	0.0441	0.0015	0.1158
Other Agricultural Equipment	251	500	0.5928	1.8471	0.0590	0.0019	0.1502
Other Construction Equipment	0	15	0.0617	0.0739	0.0037	0.0002	0.0118
Other Construction Equipment	16	25	0.0549	0.1070	0.0059	0.0002	0.0166
Other Construction Equipment	26	50	0.3036	0.2831	0.0283	0.0004	0.1140
Other Construction Equipment	51	120	0.5475	0.9250	0.0794	0.0009	0.1448
Other Construction Equipment	121	175	0.5910	1.0686	0.0576	0.0012	0.1265
Other Construction Equipment	176	500	0.6496	2.1214	0.0719	0.0025	0.1811
Other General Industrial Equipmen	0	15	0.0390	0.0466	0.0019	0.0001	0.0066
Other General Industrial Equipmen	16	25	0.0631	0.1186	0.0062	0.0002	0.0186
Other General Industrial Equipmen	26	50	0.2984	0.2384	0.0280	0.0003	0.1241
Other General Industrial Equipmen	51	120	0.4594	0.8191	0.0777	0.0007	0.1428
Other General Industrial Equipmen	121	175	0.5755	1.1267	0.0659	0.0011	0.1472
Other General Industrial Equipmen	176	250	0.3691	1.4939	0.0507	0.0015	0.1374
Other General Industrial Equipmen	251	500	0.8154	2.5670	0.0909	0.0026	0.2441
Other General Industrial Equipmen	501	750	1.3439	4.3631	0.1525	0.0044	0.4062
Other General Industrial Equipmen	751	1000	2.1683	7.0865	0.2158	0.0056	0.6218
Other Lawn & Garden Equipment	0	15	0.0746	0.0930	0.0054	0.0002	0.0132
Other Lawn & Garden Equipment	16	25	0.0671	0.1279	0.0069	0.0002	0.0199
Other Material Handling Equipment	0	50	0.4112	0.3313	0.0387	0.0004	0.1712

Table 1

Diesel Off-road Equipment Emission Factors for 2009 in Antelope Valley AQMD Jurisdiction by Equipment Catgeory and Horsepower Range[a]

Equipment Type	HP Range		Emission Factor (lb/hr)				
	From	To	CO	NOx	PM10	SOx	VOC
Other Material Handling Equipment	51	120	0.4468	0.7980	0.0753	0.0007	0.1385
Other Material Handling Equipment	121	175	0.7283	1.4289	0.0831	0.0014	0.1854
Other Material Handling Equipment	176	250	0.3931	1.5924	0.0539	0.0016	0.1453
Other Material Handling Equipment	251	500	0.5871	1.8490	0.0652	0.0019	0.1737
Other Material Handling Equipment	501	9999	2.8662	9.3573	0.2838	0.0073	0.8180
Pavers	0	25	0.0868	0.1646	0.0100	0.0002	0.0293
Pavers	26	50	0.3945	0.3144	0.0371	0.0004	0.1710
Pavers	51	120	0.5282	1.0144	0.0891	0.0008	0.1731
Pavers	121	175	0.8021	1.6828	0.0942	0.0014	0.2152
Pavers	176	250	0.7315	2.4486	0.1001	0.0022	0.2540
Pavers	251	500	1.2522	2.6502	0.1068	0.0023	0.2728
Paving Equipment	0	25	0.0524	0.1023	0.0057	0.0002	0.0159
Paving Equipment	26	50	0.3346	0.2683	0.0316	0.0003	0.1454
Paving Equipment	51	120	0.4130	0.7951	0.0696	0.0006	0.1353
Paving Equipment	121	175	0.6256	1.3197	0.0733	0.0011	0.1678
Paving Equipment	176	250	0.4562	1.5335	0.0623	0.0014	0.1580
Plate Compactors	0	15	0.0263	0.0321	0.0018	0.0001	0.0051
Pressure Washers	0	15	0.0345	0.0548	0.0033	0.0001	0.0082
Pressure Washers	16	25	0.0412	0.0687	0.0044	0.0001	0.0122
Pressure Washers	26	50	0.1124	0.1380	0.0114	0.0002	0.0404
Pressure Washers	51	120	0.1481	0.2686	0.0190	0.0003	0.0384
Pumps	0	15	0.0524	0.0851	0.0062	0.0001	0.0146
Pumps	16	25	0.1124	0.1874	0.0132	0.0002	0.0429
Pumps	26	50	0.3322	0.3446	0.0326	0.0004	0.1287
Pumps	51	120	0.5089	0.9211	0.0727	0.0009	0.1414
Pumps	121	175	0.7430	1.4721	0.0721	0.0016	0.1662
Pumps	176	250	0.4883	1.9884	0.0606	0.0023	0.1574
Pumps	251	500	0.9555	3.0765	0.0965	0.0034	0.2402
Pumps	501	750	1.5797	5.2324	0.1619	0.0057	0.4105
Pumps	751	9999	4.7215	15.7553	0.4622	0.0136	1.3044
Rollers	0	15	0.0386	0.0462	0.0023	0.0001	0.0074
Rollers	16	25	0.0554	0.1081	0.0060	0.0002	0.0168

Table 1

Diesel Off-road Equipment Emission Factors for 2009 in Antelope Valley AQMD Jurisdiction by Equipment Catgeory and Horsepower Range[a]

Equipment Type	HP Range		Emission Factor (lb/hr)				
	From	To	CO	NOx	PM10	SOx	VOC
Rollers	26	50	0.3253	0.2791	0.0307	0.0003	0.1354
Rollers	51	120	0.4218	0.7773	0.0674	0.0007	0.1282
Rollers	121	175	0.6294	1.2714	0.0689	0.0012	0.1567
Rollers	176	250	0.4769	1.7161	0.0639	0.0017	0.1636
Rollers	251	500	0.8338	2.2032	0.0824	0.0021	0.2094
Rough Terrain Forklifts	0	50	0.4333	0.3613	0.0403	0.0004	0.1736
Rough Terrain Forklifts	51	120	0.4494	0.7800	0.0720	0.0007	0.1312
Rough Terrain Forklifts	121	175	0.7322	1.3795	0.0792	0.0014	0.1754
Rough Terrain Forklifts	176	250	0.4526	1.7807	0.0610	0.0019	0.1625
Rough Terrain Forklifts	251	500	0.7444	2.3488	0.0840	0.0025	0.2213
Rubber Tired Dozers	0	175	0.8754	1.8689	0.1079	0.0015	0.2501
Rubber Tired Dozers	176	250	0.8027	2.5564	0.1115	0.0021	0.2871
Rubber Tired Dozers	251	500	1.8376	3.3367	0.1418	0.0026	0.3728
Rubber Tired Dozers	501	750	2.7667	5.1169	0.2155	0.0040	0.5636
Rubber Tired Dozers	751	1000	4.4268	8.7329	0.3134	0.0059	0.8763
Rubber Tired Loaders	0	25	0.0696	0.1329	0.0073	0.0002	0.0207
Rubber Tired Loaders	26	50	0.4139	0.3381	0.0385	0.0004	0.1692
Rubber Tired Loaders	51	120	0.4315	0.7662	0.0703	0.0007	0.1299
Rubber Tired Loaders	121	175	0.6348	1.2278	0.0702	0.0012	0.1573
Rubber Tired Loaders	176	250	0.4407	1.6353	0.0597	0.0017	0.1575
Rubber Tired Loaders	251	500	0.8154	2.2999	0.0863	0.0023	0.2270
Rubber Tired Loaders	501	750	1.6704	4.8510	0.1795	0.0049	0.4698
Rubber Tired Loaders	751	1000	2.3885	7.4130	0.2251	0.0060	0.6494
Sailboat Auxiliary Inboard Engine	0	50	0.0979	0.2218	0.0055	0.0002	0.0652
Scrapers	0	120	0.7254	1.3688	0.1239	0.0011	0.2373
Scrapers	121	175	0.9360	1.9281	0.1105	0.0017	0.2518
Scrapers	176	250	0.7689	2.6145	0.1058	0.0024	0.2735
Scrapers	251	500	1.6306	3.5949	0.1449	0.0032	0.3788
Scrapers	501	750	2.8169	6.3528	0.2532	0.0056	0.6584
Signal Boards	0	15	0.0376	0.0449	0.0018	0.0001	0.0072
Signal Boards	16	50	0.3909	0.3736	0.0380	0.0005	0.1581
Signal Boards	51	120	0.5423	0.9917	0.0826	0.0009	0.1592

Table 1

Diesel Off-road Equipment Emission Factors for 2009 in Antelope Valley AQMD Jurisdiction by Equipment Catgeory and Horsepower Range[a]

Equipment Type	HP Range		Emission Factor (lb/hr)				
	From	To	CO	NOx	PM10	SOx	VOC
Signal Boards	121	175	0.8456	1.7079	0.0879	0.0017	0.2020
Signal Boards	176	250	0.6486	2.6460	0.0839	0.0029	0.2193
Skid Steer Loaders	0	25	0.0733	0.1285	0.0086	0.0002	0.0268
Skid Steer Loaders	26	50	0.2617	0.2505	0.0239	0.0003	0.0899
Skid Steer Loaders	51	120	0.2853	0.4482	0.0390	0.0005	0.0683
Sprayers	0	25	0.0742	0.1179	0.0087	0.0002	0.0293
Sprayers	26	50	0.1775	0.2225	0.0183	0.0003	0.0656
Sprayers	51	120	0.3512	0.6657	0.0454	0.0007	0.0951
Sprayers	121	175	0.4717	0.9818	0.0419	0.0011	0.1033
Sprayers	176	250	0.3706	1.5055	0.0416	0.0017	0.1118
Sprayers	251	500	0.4222	1.5365	0.0436	0.0017	0.1119
Surfacing Equipment	0	50	0.1559	0.1470	0.0149	0.0002	0.0629
Surfacing Equipment	51	120	0.4378	0.8090	0.0656	0.0007	0.1278
Surfacing Equipment	121	175	0.4808	0.9695	0.0495	0.0010	0.1140
Surfacing Equipment	176	250	0.4059	1.4560	0.0521	0.0015	0.1331
Surfacing Equipment	251	500	0.8307	2.1620	0.0776	0.0022	0.1956
Surfacing Equipment	501	750	1.3033	3.4771	0.1233	0.0035	0.3135
Swathers	0	120	0.3329	0.6310	0.0434	0.0006	0.0908
Swathers	121	175	0.5182	1.0785	0.0465	0.0012	0.1143
Sweepers/Scrubbers	0	15	0.0728	0.0869	0.0036	0.0002	0.0124
Sweepers/Scrubbers	16	25	0.0807	0.1539	0.0084	0.0002	0.0240
Sweepers/Scrubbers	26	50	0.3884	0.3302	0.0362	0.0004	0.1536
Sweepers/Scrubbers	51	120	0.5310	0.8930	0.0850	0.0009	0.1519
Sweepers/Scrubbers	121	175	0.7992	1.4624	0.0858	0.0016	0.1870
Sweepers/Scrubbers	176	250	0.3645	1.5952	0.0489	0.0018	0.1336
Tillers	0	15	0.0419	0.0552	0.0033	0.0001	0.0078
Tillers	16	250	0.5870	2.3704	0.0682	0.0027	0.1819
Tillers	251	500	1.1324	3.9279	0.1156	0.0042	0.2959
Tractors/Loaders/Backhoes	0	25	0.0695	0.1354	0.0079	0.0002	0.0224
Tractors/Loaders/Backhoes	26	50	0.3694	0.3165	0.0338	0.0004	0.1403
Tractors/Loaders/Backhoes	51	120	0.3664	0.6082	0.0558	0.0006	0.1000
Tractors/Loaders/Backhoes	121	175	0.5890	1.0439	0.0601	0.0011	0.1316

Table 1

Diesel Off-road Equipment Emission Factors for 2009 in Antelope Valley AQMD Jurisdiction by Equipment Catgeory and Horsepower Range[a]

Equipment Type	HP Range		Emission Factor (lb/hr)				
	From	To	CO	NOx	PM10	SOx	VOC
Tractors/Loaders/Backhoes	176	250	0.4214	1.6717	0.0557	0.0019	0.1501
Tractors/Loaders/Backhoes	251	500	0.8961	2.9218	0.1034	0.0039	0.2750
Tractors/Loaders/Backhoes	501	750	1.3442	4.5411	0.1582	0.0058	0.4176
Transport Refrigeration Units	0	15	0.0497	0.0683	0.0041	0.0001	0.0097
Transport Refrigeration Units	16	25	0.0588	0.1155	0.0064	0.0002	0.0175
Transport Refrigeration Units	26	50	0.2520	0.2473	0.0220	0.0003	0.0747
Trenchers	0	15	0.0516	0.0616	0.0025	0.0001	0.0098
Trenchers	16	25	0.1354	0.2585	0.0141	0.0004	0.0402
Trenchers	26	50	0.4450	0.3659	0.0421	0.0004	0.1926
Trenchers	51	120	0.4892	0.9488	0.0808	0.0008	0.1593
Trenchers	121	175	0.8909	1.8834	0.1029	0.0016	0.2367
Trenchers	176	250	0.8496	2.8069	0.1154	0.0025	0.2900
Trenchers	251	500	1.7481	3.5537	0.1430	0.0031	0.3611
Trenchers	501	750	3.2955	6.8325	0.2720	0.0059	0.6889
Vessels w/Inboard Engines	0	250	0.8849	2.0108	0.0504	0.0012	0.5888
Welders	0	15	0.0438	0.0712	0.0052	0.0001	0.0122
Welders	16	25	0.0651	0.1085	0.0076	0.0001	0.0249
Welders	26	50	0.2908	0.2691	0.0280	0.0003	0.1173
Welders	51	120	0.2703	0.4879	0.0415	0.0005	0.0787
Welders	121	175	0.5450	1.0790	0.0569	0.0011	0.1288
Welders	176	250	0.3038	1.2292	0.0398	0.0013	0.1035
Welders	251	500	0.4913	1.5453	0.0514	0.0016	0.1296

[a] These are composite horsepower-based off-road emission factors for 2009 developed by running CARB's OFFROAD2007 Model (December 15, 2006 version).
Total daily emissions from the model for each type of equipment within each horsepower range were divided by the total daily operating hours for the equipment within each horsepower range to calculate hourly emissions from individual pieces of equipment.

Table 2

Four-stroke Gasoline Off-road Equipment Emission Factors for 2009 in Antelope Valley AQMD Jurisdiction by Equipment Catgeory and Horsepower Range[a]

Equipment Type	HP Range		Emission Factor (lb/hr)				
	From	To	CO	NOx	PM10	SOx	VOC
2-Wheel Tractors	0	5	0.9037	0.0255	0.0008	0.0001	0.0569
2-Wheel Tractors	6	15	2.7777	0.0538	0.0394	0.0001	0.0728
2-Wheel Tractors	16	25	5.8966	0.0995	0.0787	0.0002	0.1538
Aerial Lifts	0	15	3.3514	0.0647	0.0475	0.0002	0.0875
Aerial Lifts	16	25	5.2051	0.0891	0.0694	0.0002	0.1387
Aerial Lifts	26	50	2.8055	0.1307	0.0020	0.0003	0.0778
Aerial Lifts	51	120	2.0131	0.3333	0.0041	0.0005	0.0952
Agricultural Mowers	0	15	2.3356	0.0382	0.0302	0.0001	0.0730
Agricultural Mowers	16	25	5.4172	0.0782	0.0679	0.0002	0.1603
Agricultural Tractors	0	120	5.7786	1.0105	0.0067	0.0008	0.3623
Agricultural Tractors	121	175	4.6494	1.7364	0.0103	0.0013	0.2436
Air Compressors	0	5	0.8424	0.0318	0.0009	0.0001	0.0711
Air Compressors	0	5	0.8404	0.0318	0.0009	0.0001	0.0709
Air Compressors	6	15	2.2030	0.0445	0.0311	0.0001	0.0602
Air Compressors	6	15	2.2018	0.0433	0.0311	0.0001	0.0591
Air Compressors	16	25	5.6788	0.0998	0.0756	0.0002	0.1544
Air Compressors	16	25	5.7144	0.0963	0.0756	0.0002	0.1560
Air Compressors	26	50	4.6666	0.2625	0.0026	0.0004	0.1867
Air Compressors	51	120	4.0001	0.7284	0.0052	0.0006	0.2493
Air Compressors	121	175	4.2912	1.5657	0.0099	0.0012	0.2167
All Terrain Vehicles (ATVs) Active	0	15	0.0631	0.0016	0.0001	0.0003	0.0028
All Terrain Vehicles (ATVs) Active	16	25	0.0631	0.0016	0.0001	0.0003	0.0028
All Terrain Vehicles (ATVs) Active	26	50	0.0631	0.0016	0.0001	0.0005	0.0028
All Terrain Vehicles (ATVs) Inactive	0	15	0.0000	0.0000	0.0000	0.0000	0.0000
All Terrain Vehicles (ATVs) Inactive	16	25	0.0000	0.0000	0.0000	0.0000	0.0000
All Terrain Vehicles (ATVs) Inactive	26	50	0.0000	0.0000	0.0000	0.0000	0.0000
Asphalt Pavers	0	15	3.3299	0.0648	0.0471	0.0002	0.0876
Asphalt Pavers	16	25	8.6399	0.1463	0.1152	0.0003	0.2262
Asphalt Pavers	26	50	4.9818	0.3036	0.0028	0.0004	0.2002
Asphalt Pavers	51	120	4.1659	0.8164	0.0053	0.0007	0.2567
Balers	0	50	3.4733	0.2547	0.0025	0.0004	0.1301
Balers	51	120	2.7503	0.6681	0.0047	0.0006	0.1584

Table 2

Four-stroke Gasoline Off-road Equipment Emission Factors for 2009 in Antelope Valley AQMD Jurisdiction by Equipment Catgeory and Horsepower Range[a]

Equipment Type	HP Range		Emission Factor (lb/hr)				
	From	To	CO	NOx	PM10	SOx	VOC
Bore/Drill Rigs	0	15	4.6269	0.0781	0.0626	0.0002	0.1295
Bore/Drill Rigs	16	25	8.6949	0.1288	0.1127	0.0003	0.2344
Bore/Drill Rigs	26	50	4.7272	0.3367	0.0033	0.0005	0.1788
Bore/Drill Rigs	51	120	5.6298	1.3245	0.0092	0.0011	0.3276
Bore/Drill Rigs	121	175	5.1862	2.0857	0.0132	0.0016	0.2637
Cement and Mortar Mixers	0	5	1.1945	0.0284	0.0009	0.0001	0.0632
Cement and Mortar Mixers	6	15	3.1831	0.0409	0.0351	0.0001	0.1163
Cement and Mortar Mixers	16	25	9.9305	0.1139	0.1098	0.0004	0.3320
Chippers/Stump Grinders	0	15	4.9114	0.0981	0.0681	0.0002	0.1337
Chippers/Stump Grinders	0	15	5.6885	0.0654	0.0542	0.0002	0.1435
Chippers/Stump Grinders	16	25	8.5306	0.1484	0.1114	0.0003	0.2310
Chippers/Stump Grinders	16	25	9.5378	0.0972	0.0886	0.0003	0.2233
Combines	0	120	4.6027	0.9569	0.0101	0.0013	0.2380
Combines	121	175	6.4133	1.6750	0.0161	0.0020	0.2189
Combines	176	250	7.5864	1.6899	0.0190	0.0024	0.2102
Commercial Turf Equipment	0	15	3.1104	0.0528	0.0029	0.0001	0.0728
Commercial Turf Equipment	16	25	5.7025	0.0889	0.0050	0.0002	0.1285
Commercial Turf Equipment	26	50	4.2027	0.1714	0.0019	0.0003	0.1216
Commercial Turf Equipment	51	120	1.1851	0.1321	0.0035	0.0004	0.0228
Concrete/Industrial Saws	0	5	1.2299	0.0305	0.0010	0.0001	0.0681
Concrete/Industrial Saws	6	15	3.9302	0.0757	0.0557	0.0002	0.1024
Concrete/Industrial Saws	16	25	7.8796	0.1322	0.1052	0.0003	0.2044
Concrete/Industrial Saws	26	50	3.9215	0.0866	0.0036	0.0006	0.0581
Concrete/Industrial Saws	51	120	1.8648	0.0986	0.0068	0.0008	0.0417
Cranes	0	50	4.1598	0.2435	0.0023	0.0004	0.1658
Cranes	51	120	3.6047	0.6824	0.0046	0.0006	0.2221
Cranes	121	175	3.3817	1.2901	0.0078	0.0010	0.1758
Crushing/Proc. Equipment	0	15	4.2829	0.0821	0.0607	0.0002	0.1110
Crushing/Proc. Equipment	16	25	8.0817	0.1349	0.1079	0.0003	0.2084
Crushing/Proc. Equipment	26	120	7.4068	1.5743	0.0108	0.0013	0.4437
Dumpers/Tenders	0	5	0.5711	0.0173	0.0005	0.0001	0.0386
Dumpers/Tenders	6	15	2.4753	0.0330	0.0279	0.0001	0.0910

Table 2

Four-stroke Gasoline Off-road Equipment Emission Factors for 2009 in Antelope Valley AQMD Jurisdiction by Equipment Catgeory and Horsepower Range[a]

Equipment Type	HP Range		Emission Factor (lb/hr)				
	From	To	CO	NOx	PM10	SOx	VOC
Dumpers/Tenders	16	25	5.2228	0.0622	0.0589	0.0002	0.1762
Dumpers/Tenders	26	120	2.2309	0.5165	0.0036	0.0004	0.1304
Forklifts	0	25	4.1324	0.0581	0.0037	0.0002	0.0779
Forklifts	26	50	5.8055	0.1522	0.0016	0.0003	0.0895
Forklifts	51	120	2.9526	0.2374	0.0028	0.0003	0.0834
Forklifts	121	175	3.0373	0.4789	0.0058	0.0007	0.0927
Front Mowers	0	15	3.0578	0.0352	0.0024	0.0001	0.0490
Front Mowers	0	15	3.2267	0.0398	0.0021	0.0001	0.0697
Front Mowers	16	25	4.2443	0.0466	0.0031	0.0002	0.0637
Front Mowers	16	25	4.4049	0.0474	0.0027	0.0002	0.0902
Generator Sets	0	5	1.4564	0.0223	0.0089	0.0001	0.1138
Generator Sets	0	5	1.5828	0.0217	0.0087	0.0001	0.1232
Generator Sets	6	15	3.7556	0.0550	0.0030	0.0002	0.1139
Generator Sets	6	15	4.0285	0.0514	0.0030	0.0002	0.1414
Generator Sets	16	25	8.1395	0.1064	0.0064	0.0003	0.2302
Generator Sets	16	25	8.5354	0.0977	0.0064	0.0003	0.2736
Generator Sets	26	50	3.9037	0.2557	0.0029	0.0005	0.1314
Generator Sets	51	120	4.2493	0.9292	0.0075	0.0009	0.2219
Generator Sets	121	175	5.0697	1.7704	0.0131	0.0016	0.2217
Golf Carts	0	15	3.3173	0.0288	0.0022	0.0001	0.1525
Hydro Power Units	0	5	1.0009	0.0291	0.0009	0.0001	0.0649
Hydro Power Units	6	15	2.5135	0.0501	0.0356	0.0001	0.0678
Hydro Power Units	16	25	5.6692	0.0984	0.0756	0.0002	0.1522
Hydro Power Units	26	50	3.5782	0.1118	0.0028	0.0004	0.0650
Hydro Power Units	51	120	1.3331	0.0820	0.0049	0.0006	0.0301
Lawn & Garden Tractors	0	15	3.6950	0.0360	0.0025	0.0002	0.0496
Lawn & Garden Tractors	0	15	3.8658	0.0455	0.0023	0.0002	0.0725
Lawn & Garden Tractors	16	25	6.0613	0.0541	0.0038	0.0002	0.0780
Lawn & Garden Tractors	16	25	6.2715	0.0639	0.0035	0.0002	0.1130
Lawn & Garden Tractors	26	50	2.5453	0.1589	0.0020	0.0003	0.0801
Lawn Mowers	0	5	0.5190	0.0071	0.0043	0.0000	0.0281
Lawn Mowers	0	5	0.8640	0.0089	0.0032	0.0000	0.0364

Table 2

Four-stroke Gasoline Off-road Equipment Emission Factors for 2009 in Antelope Valley AQMD Jurisdiction by Equipment Catgeory and Horsepower Range[a]

Equipment Type	HP Range		Emission Factor (lb/hr)				
	From	To	CO	NOx	PM10	SOx	VOC
Leaf Blowers/Vacuums	0	5	0.3524	0.0025	0.0016	0.0000	0.0098
Leaf Blowers/Vacuums	0	5	0.5022	0.0038	0.0013	0.0000	0.0181
Minibikes	0	5	1.9419	0.0074	0.0081	0.0001	0.3032
Off-Road Motorcycles Active	0	15	0.0615	0.0012	0.0001	0.0002	0.0027
Off-Road Motorcycles Active	16	25	0.0615	0.0012	0.0001	0.0004	0.0027
Off-Road Motorcycles Active	26	50	0.0615	0.0012	0.0001	0.0006	0.0027
Off-Road Motorcycles Inactive	0	15	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road Motorcycles Inactive	16	25	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road Motorcycles Inactive	26	50	0.0000	0.0000	0.0000	0.0000	0.0000
Other Agricultural Equipment	0	5	0.8254	0.0222	0.0007	0.0001	0.0496
Other Agricultural Equipment	6	15	3.4488	0.0522	0.0428	0.0001	0.1126
Other Agricultural Equipment	16	25	8.8015	0.1181	0.1070	0.0003	0.2688
Other Agricultural Equipment	26	50	3.0810	0.2209	0.0021	0.0003	0.1181
Other Agricultural Equipment	51	120	3.1252	0.7297	0.0049	0.0006	0.1829
Other Agricultural Equipment	121	175	3.9378	1.6293	0.0099	0.0012	0.2079
Other Agricultural Equipment	176	250	7.1227	2.5272	0.0179	0.0022	0.3241
Other Construction Equipment	0	175	3.3191	0.4393	0.0080	0.0010	0.0680
Other General Industrial Equipmen	0	15	2.4210	0.0336	0.0022	0.0001	0.0468
Other General Industrial Equipmen	16	25	5.7862	0.0857	0.0050	0.0002	0.1213
Other General Industrial Equipmen	26	50	4.1045	0.1325	0.0021	0.0003	0.0713
Other General Industrial Equipmen	51	120	3.3133	0.3761	0.0056	0.0007	0.0998
Other General Industrial Equipmen	121	175	5.4815	0.8421	0.0124	0.0016	0.1265
Other Lawn & Garden Equipment	0	5	1.0328	0.0105	0.0058	0.0001	0.0370
Other Lawn & Garden Equipment	0	5	1.6185	0.0123	0.0043	0.0001	0.0569
Other Lawn & Garden Equipment	6	15	2.5977	0.0307	0.0017	0.0001	0.0418
Other Lawn & Garden Equipment	6	15	2.8962	0.0316	0.0015	0.0001	0.0540
Other Lawn & Garden Equipment	16	25	5.8592	0.0615	0.0037	0.0002	0.0926
Other Lawn & Garden Equipment	16	25	6.3934	0.0604	0.0032	0.0002	0.1139
Other Lawn & Garden Equipment	26	50	3.4389	0.2344	0.0028	0.0004	0.1143
Other Lawn & Garden Equipment	51	120	4.0905	0.9349	0.0078	0.0010	0.2092
Other Material Handling Equipment	0	50	5.1605	0.2737	0.0029	0.0005	0.1739
Other Material Handling Equipment	51	120	2.7333	0.4905	0.0038	0.0005	0.1502

Table 2

Four-stroke Gasoline Off-road Equipment Emission Factors for 2009 in Antelope Valley AQMD Jurisdiction by Equipment Catgeory and Horsepower Range[a]

Equipment Type	HP Range		Emission Factor (lb/hr)				
	From	To	CO	NOx	PM10	SOx	VOC
Paving Equipment	0	5	0.8499	0.0244	0.0007	0.0001	0.0545
Paving Equipment	6	15	3.4006	0.0615	0.0468	0.0002	0.0946
Paving Equipment	16	25	7.8563	0.1245	0.1030	0.0003	0.2130
Paving Equipment	26	50	4.0778	0.2641	0.0029	0.0005	0.1468
Paving Equipment	51	120	3.0318	0.6568	0.0052	0.0006	0.1716
Plate Compactors	0	5	0.7821	0.0229	0.0007	0.0001	0.0512
Plate Compactors	6	15	2.5361	0.0460	0.0349	0.0001	0.0707
Pressure Washers	0	5	1.8416	0.0356	0.0137	0.0001	0.1374
Pressure Washers	0	5	2.3900	0.0341	0.0136	0.0001	0.1837
Pressure Washers	6	15	3.6513	0.0535	0.0029	0.0002	0.1107
Pressure Washers	6	15	3.9166	0.0500	0.0029	0.0002	0.1375
Pressure Washers	16	25	9.4900	0.1292	0.0075	0.0004	0.2562
Pressure Washers	16	25	10.0868	0.1154	0.0075	0.0004	0.3167
Pressure Washers	26	50	4.2962	0.2896	0.0033	0.0005	0.1540
Pumps	0	5	0.8251	0.0219	0.0032	0.0001	0.0678
Pumps	0	5	1.1179	0.0198	0.0060	0.0001	0.0909
Pumps	6	15	3.2314	0.0581	0.0437	0.0001	0.0950
Pumps	6	15	3.5049	0.0530	0.0421	0.0001	0.1178
Pumps	16	25	7.0334	0.1163	0.0931	0.0003	0.1885
Pumps	16	25	7.3296	0.1068	0.0921	0.0003	0.2146
Pumps	26	50	4.0636	0.2556	0.0028	0.0004	0.1478
Pumps	51	120	5.0559	1.0641	0.0085	0.0011	0.2905
Pumps	121	175	5.3072	1.8214	0.0131	0.0016	0.2395
Rear Engine Riding Mowers	0	15	1.9153	0.0221	0.0015	0.0001	0.0307
Rear Engine Riding Mowers	0	15	2.0211	0.0250	0.0013	0.0001	0.0436
Rear Engine Riding Mowers	16	25	3.8400	0.0421	0.0028	0.0002	0.0576
Rear Engine Riding Mowers	16	25	3.9854	0.0429	0.0024	0.0002	0.0816
Rollers	0	5	1.3007	0.0290	0.0010	0.0001	0.0648
Rollers	6	15	3.1240	0.0602	0.0443	0.0002	0.0814
Rollers	16	25	7.0002	0.1175	0.0935	0.0003	0.1815
Rollers	26	50	6.2953	0.3318	0.0030	0.0005	0.2567
Rollers	51	120	5.5301	0.9304	0.0062	0.0008	0.3494

Table 2

Four-stroke Gasoline Off-road Equipment Emission Factors for 2009 in Antelope Valley AQMD Jurisdiction by Equipment Catgeory and Horsepower Range[a]

Equipment Type	HP Range		Emission Factor (lb/hr)				
	From	To	CO	NOx	PM10	SOx	VOC
Rough Terrain Forklifts	0	50	7.0727	0.4144	0.0039	0.0006	0.2818
Rough Terrain Forklifts	51	120	5.5421	1.0505	0.0071	0.0009	0.3414
Rough Terrain Forklifts	121	175	5.1461	1.9638	0.0118	0.0015	0.2675
Rubber Tired Loaders	0	50	5.5312	0.3128	0.0029	0.0005	0.2246
Rubber Tired Loaders	51	120	4.3445	0.7869	0.0051	0.0006	0.2717
Sailboat Auxiliary Inboard Engine	0	15	1.2909	0.0387	0.0005	0.0001	0.0483
Shredders	0	5	1.2393	0.0317	0.0010	0.0001	0.0707
Shredders	0	5	2.3397	0.0193	0.0078	0.0001	0.0818
Signal Boards	0	5	1.4979	0.0372	0.0012	0.0001	0.0830
Signal Boards	6	15	3.4039	0.0651	0.0483	0.0002	0.0881
Skid Steer Loaders	0	15	4.5549	0.0886	0.0644	0.0002	0.1208
Skid Steer Loaders	16	25	6.5567	0.1111	0.0875	0.0003	0.1728
Skid Steer Loaders	26	50	3.1617	0.1391	0.0025	0.0004	0.0803
Skid Steer Loaders	51	120	2.6452	0.4231	0.0061	0.0008	0.1160
Specialty Vehicles Carts	0	5	1.4038	0.0102	0.0065	0.0001	0.0402
Specialty Vehicles Carts	6	15	2.2730	0.0227	0.0014	0.0001	0.0310
Specialty Vehicles Carts	16	25	6.5485	0.0584	0.0039	0.0003	0.0868
Sprayers	0	5	0.7459	0.0203	0.0006	0.0001	0.0452
Sprayers	6	15	2.4019	0.0308	0.0248	0.0001	0.0900
Sprayers	16	25	5.8115	0.0669	0.0601	0.0002	0.1990
Sprayers	26	50	3.0104	0.2188	0.0022	0.0003	0.1131
Sprayers	51	120	2.6863	0.6461	0.0045	0.0006	0.1553
Sprayers	121	175	3.6141	1.4606	0.0093	0.0012	0.1833
Surfacing Equipment	0	5	0.8482	0.0259	0.0008	0.0001	0.0578
Surfacing Equipment	6	15	2.2001	0.0444	0.0311	0.0001	0.0602
Surfacing Equipment	16	25	5.5461	0.0976	0.0739	0.0002	0.1509
Swathers	0	120	3.6656	0.8708	0.0061	0.0008	0.2127
Swathers	121	175	3.4809	1.4029	0.0089	0.0011	0.1768
Sweepers/Scrubbers	0	15	3.1800	0.0423	0.0027	0.0002	0.0588
Sweepers/Scrubbers	16	25	7.5944	0.1072	0.0063	0.0003	0.1537
Sweepers/Scrubbers	26	50	4.8994	0.1568	0.0033	0.0005	0.0801
Sweepers/Scrubbers	51	120	2.7439	0.3347	0.0064	0.0008	0.0749

Table 2

Four-stroke Gasoline Off-road Equipment Emission Factors for 2009 in Antelope Valley AQMD Jurisdiction by Equipment Catgeory and Horsepower Range[a]

Equipment Type	HP Range		Emission Factor (lb/hr)				
	From	To	CO	NOx	PM10	SOx	VOC
Sweepers/Scrubbers	121	175	5.5636	0.7241	0.0131	0.0016	0.0983
Tampers/Rammers	0	15	2.8991	0.0508	0.0392	0.0001	0.0836
Tillers	0	5	0.7109	0.0088	0.0040	0.0001	0.0266
Tillers	0	5	0.9842	0.0099	0.0037	0.0001	0.0448
Tillers	6	15	3.3032	0.0421	0.0024	0.0001	0.1154
Tractors/Loaders/Backhoes	0	120	3.3234	0.4757	0.0040	0.0005	0.1872
Transport Refrigeration Units	0	15	3.3745	0.0491	0.0032	0.0002	0.0687
Trenchers	0	15	3.7017	0.0730	0.0524	0.0002	0.0988
Trenchers	16	25	8.2510	0.1417	0.1100	0.0003	0.2191
Trenchers	26	50	4.6921	0.2766	0.0026	0.0004	0.1867
Trenchers	51	120	4.4725	0.8536	0.0058	0.0007	0.2751
Trimmers/Edgers/Brush Cutters	0	5	0.1394	0.0036	0.0001	0.0000	0.0080
Trimmers/Edgers/Brush Cutters	0	5	0.2330	0.0027	0.0010	0.0000	0.0130
Vessels w/Inboard Engines	0	250	13.9180	0.6382	0.0081	0.0010	0.4953
Vessels w/Inboard Jet Engines	0	500	16.7660	0.7496	0.0096	0.0012	0.6019
Vessels w/Outboard Engines	0	50	4.1188	0.1264	0.0018	0.0002	0.1570
Vessels w/Sterndrive Engines	0	250	10.3573	0.4595	0.0060	0.0007	0.3667
Welders	0	15	3.6411	0.0533	0.0421	0.0002	0.1273
Welders	16	25	5.5121	0.0780	0.0672	0.0002	0.1687
Welders	26	50	4.4535	0.2947	0.0030	0.0005	0.1710
Welders	51	120	2.9624	0.6461	0.0047	0.0006	0.1766
Welders	121	175	3.4858	1.3272	0.0088	0.0011	0.1723
Wood Splitters	0	5	1.3665	0.0160	0.0096	0.0001	0.0619
Wood Splitters	0	5	2.4094	0.0176	0.0058	0.0001	0.0725

[a] These are composite horsepower-based off-road emission factors for 2009 developed by running CARB's OFFROAD2007 Model (December 15, 2006 version).
Total daily emissions from the model for each type of equipment within each horsepower range were divided by the total daily operating hours for the equipment within each horsepower range to calculate hourly emissions from individual pieces of equipment.

Table 3

Diesel Off-road 2006 Model Year Scraper Emission Factors for 2009 in Antelope Valley AQMD Jurisdiction by Equipment Catgeory and Horsepower Range[a]

Equipment Type	HP Range		Emission Factor (lb/hr)				
	From	To	CO	NOx	PM10	SOx	VOC
Scrapers	0	175	0.8129	1.1883	0.0481	0.0017	0.0987
Scrapers	176	250	0.3935	1.6646	0.0428	0.0024	0.1179
Scrapers	251	500	0.5818	1.4146	0.0649	0.0031	0.1711
Scrapers	501	750	1.0062	2.4463	0.1123	0.0056	0.2959

[a] These are composite horsepower-based off-road emission factors for 2006 model year during 2008 developed by running CARB's OFFROAD2007 Model December 15, 2006 version) and specifying output by model year.
Total daily emissions from the model for each type of equipment within each horsepower range were divided by the total daily operating hours for the equipment within each horsepower range to calculate hourly emissions from individual pieces of equipment.

Table 4
Construction Equipment Exhaust Emission Factors

Equipment Type	Fuel	Horsepower	ARB Off-Road Model Category	CO (lb/hr)[a]	VOC (lb/hr)[a]	NO_X (lb/hr)[a]	SO_X (lb/hr)[a]	PM10 (lb/hr)[a]	PM2.5 (lb/hr)[b]
Air Compressor, Ingersoll-Rand	Diesel	80	Air Compressors	0.330	0.099	0.595	0.001	0.053	0.048
Asphalt Paver, Cat A-8008	Diesel	102	Pavers	0.528	0.173	1.014	0.001	0.089	0.082
Backhoe	Diesel	48	Tractors/Loaders/Backhoes	0.369	0.140	0.316	0.000	0.034	0.031
Backhoe, Cat, 420E	Diesel	89	Tractors/Loaders/Backhoes	0.366	0.100	0.608	0.001	0.056	0.051
Compactor, Cat CS-563	Diesel	145	Rollers	0.629	0.157	1.271	0.001	0.069	0.063
Compressor, 250 cfm	Diesel	80	Air Compressors	0.330	0.099	0.595	0.001	0.053	0.048
Crane, 150-Ton, Manitowoc	Diesel	250	Cranes	0.364	0.131	1.311	0.001	0.050	0.046
Crane, 20-Ton, TR400	Diesel	185	Cranes	0.364	0.131	1.311	0.001	0.050	0.046
Crane, 225-Ton, Manitowoc, 4100W	Diesel	350	Cranes	0.710	0.191	1.873	0.002	0.072	0.066
Crane, 40-Ton, Grove, TR700B	Diesel	220	Cranes	0.364	0.131	1.311	0.001	0.050	0.046
Crane, 5 ton	Diesel	62	Cranes	0.376	0.119	0.690	0.001	0.064	0.058
Dozer	Diesel	200	Crawler Tractors	0.599	0.214	2.052	0.002	0.082	0.076
Scraper, CAT 657G, Tractor Engine	Diesel	564	Scrapers	1.006	0.296	2.446	0.006	0.112	0.103
Scraper, CAT 657G, Scraper Engine	Diesel	410	Scrapers	0.582	0.171	1.415	0.003	0.065	0.060
Loader, Cat, 938F	Diesel	140	Rubber Tired Loaders	0.635	0.157	1.228	0.001	0.070	0.065
Motor Grader, Cat 135H	Diesel	135	Graders	0.744	0.186	1.443	0.001	0.083	0.076
Pipelayer, Cat 561N	Diesel	123	Cranes	0.490	0.128	0.986	0.001	0.057	0.052
Roller, 5 ton	Diesel	70	Rollers	0.422	0.128	0.777	0.001	0.067	0.062
Tractor/Loader/Backhoe	Diesel	80	Tractors/Loaders/Backhoes	0.366	0.100	0.608	0.001	0.056	0.051
Trencher, Cat 140G	Diesel	54	Trenchers	0.489	0.159	0.949	0.001	0.081	0.074
Truck, Concrete Pump, International	Diesel	190	Off-Highway Trucks	0.452	0.172	1.737	0.002	0.061	0.056
Vibratory Compactor	Diesel	70	Rollers	0.422	0.128	0.777	0.001	0.067	0.062
Welder	Diesel	35	Welders	0.291	0.117	0.269	0.000	0.028	0.026
Welder, Multiquip, BLW-300SS	Diesel	23	Welders	0.065	0.025	0.109	0.000	0.008	0.007
Welder, Multiquip, GA 3800	Gasoline	7.5	Welders	3.641	0.127	0.053	0.000	0.042	0.032
On-Site Watering Truck	Diesel	250	Off-Highway Trucks	0.452	0.172	1.737	0.002	0.061	0.056
Backhoe, w/Bucket	Diesel	85	Tractors/Loaders/Backhoes	0.366	0.100	0.608	0.001	0.056	0.051
Compressor	Gasoline	20	Air Compressors	5.714	0.156	0.096	0.000	0.076	0.057
Concrete Pumper	Diesel	85	Other Construction Equipment	0.547	0.145	0.925	0.001	0.079	0.073
Crane, Hydraulic, 150 Ton	Diesel	250	Cranes	0.364	0.131	1.311	0.001	0.050	0.046
Crane, Hydraulic, Rough Terrain, 30 Ton	Diesel	125	Cranes	0.490	0.128	0.986	0.001	0.057	0.052
Crane, Hydraulic, Rough Terrain, 35 Ton	Diesel	150	Cranes	0.490	0.128	0.986	0.001	0.057	0.052
Crawler, Track Type, Drill Rig, Pneumatic	Diesel	305	Crawler Tractors	1.279	0.302	2.864	0.003	0.115	0.106
Crawler, Track Type, Sagging (D8 type)	Diesel	305	Crawler Tractors	1.279	0.302	2.864	0.003	0.115	0.106
Crawler, Track Type, w/ Blade (D6 type)	Diesel	165	Crawler Tractors	0.765	0.205	1.563	0.001	0.090	0.083
Crawler, Track Type, w/ Blade (D8 type)	Diesel	305	Crawler Tractors	1.279	0.302	2.864	0.003	0.115	0.106
Digger, Transmission Type, Truck Mount	Diesel	190	Trenchers	0.850	0.290	2.807	0.003	0.115	0.106

Table 4
Construction Equipment Exhaust Emission Factors

Equipment Type	Fuel	Horsepower	ARB Off-Road Model Category	CO (lb/hr)[a]	VOC (lb/hr)[a]	NO_X (lb/hr)[a]	SO_X (lb/hr)[a]	PM10 (lb/hr)[a]	PM2.5 (lb/hr)[b]
Drill Rig, Truck Mount	Diesel	190	Bore/Drill Rigs	0.348	0.100	1.315	0.002	0.040	0.036
Forklift, 10 Ton	Diesel	85	Forklifts	1.087	0.346	3.541	0.004	0.127	0.117
Forklift, 5 Ton	Diesel	75	Forklifts	1.087.	0.346	3.541	0.004	0.127	0.117
Loader, Front End, w/ Bucket	Diesel	145	Rubber Tired Loaders	0.635	0.157	1.228	0.001	0.070	0.065
Motor Grader	Diesel	110	Graders	0.552	0.167	0.982	0.001	0.090	0.083
Generator	Gasoline	5	Generator Sets	1.583	0.123	0.022	0.000	0.009	0.007
Tension Machine	Diesel	135	Other Construction Equipment	0.591	0.126	1.069	0.001	0.058	0.053
Truck, Flatbed w/Boom, 5 Ton	Diesel	235	Cranes	0.364	0.131	1.311	0.001	0.050	0.046
Truck, Boom	Diesel	310	Cranes	0.710	0.191	1.873	0.002	0.072	0.066
Truck, Flatbed, w/ Bucket, 5 Ton	Diesel	235	Cranes	0.364	0.131	1.311	0.001	0.050	0.046
Truck, Manlift	Diesel	235	Cranes	0.364	0.131	1.311	0.001	0.050	0.046
Truck, Wire Puller, 1 Drum	Diesel	310	Other Construction Equipment	0.650	0.181	2.121	0.002	0.072	0.066
Truck, Wire Puller, 1 Drum (OVHD Gr. Wr.)	Diesel	310	Other Construction Equipment	0.650	0.181	2.121	0.002	0.072	0.066
Truck, Wire Puller, 3 Drum	Diesel	310	Other Construction Equipment	0.650	0.181	2.121	0.002	0.072	0.066

[a] From Table 1 for diesel and Table 2 for gasoline for all except scrapers. Scrapers are from Table 3 and are for 2006 model year.

[b] Diesel PM2.5 emission factor [lb/hr] = PM10 emission factor [lb/hr] x PM2.5 fraction of PM10

PM2.5 Fraction of PM10 in Diesel Engine Exhaust = 0.920 from Appendix A, Final–Methodology to Calculate Particulate Matter (PM) 2.5

PM2.5 Fraction of PM10 in Gasoline Engine Exhaust = 0.756 and PM 2.5 Significance Thresholds, SCAQMD, October 2006

Emissions [pounds per day] = Emission factor [pounds per hour] x Number pieces of equipment x Operating time for each piece [hours per day]

Table 5-A
Antelope Valley AQMD Jurisdiction 2009 On-Road Motor Vehicle Emission Factors

Vehicle Class	Emission Factors[a]												
	CO (lb/mi)	VOC (lb/mi)	NO_x (lb/mi)	SO_x (lb/mi)	PM10 Exh (lb/mi)	PM10 Tire (lb/mi)	PM10 Brake (lb/mi)	PM10 Tire + Brake (lb/mi)	Diesel PM (lb/mi)	PM2.5 Exh (lb/mi)	PM2.5 Tire (lb/mi)	PM2.5 Brake (lb/mi)	PM2.5 Tire + Brake (lb/mi)
LDA-NCAT	1.74E-01	2.84E-02	1.10E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LDA-CAT	7.15E-03	7.54E-04	6.39E-04	5.46E-06	2.19E-05	1.64E-05	2.73E-05	4.37E-05	0.00E+00	2.03E-05	4.10E-06	1.17E-05	1.58E-05
LDA-DSL	2.50E-03	0.00E+00	2.50E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LDT1-NCAT	1.70E-01	2.18E-02	1.00E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LDT1-CAT	8.72E-03	8.01E-04	7.40E-04	0.00E+00	3.08E-05	3.08E-05	3.08E-05	6.16E-05	0.00E+00	2.86E-05	7.70E-06	1.32E-05	2.09E-05
LDT1-DSL	1.33E-03	0.00E+00	3.56E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LDT2-NCAT	1.70E-01	2.17E-02	1.00E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LDT2-CAT	9.81E-03	9.92E-04	1.29E-03	1.18E-05	4.73E-05	1.18E-05	2.36E-05	3.54E-05	0.00E+00	4.39E-05	2.95E-06	1.01E-05	1.31E-05
LDT2-DSL	0.00E+00	0.00E+00	5.00E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MDV-NCAT	3.15E-01	2.00E-02	1.75E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MDV-CAT	9.97E-03	9.70E-04	1.42E-03	2.06E-05	4.13E-05	2.06E-05	2.06E-05	4.13E-05	0.00E+00	3.83E-05	5.16E-06	8.85E-06	1.40E-05
MDV-DSL	0.00E+00	0.00E+00	5.00E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LHDT1-NCAT	2.40E-01	2.00E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LHDT1-CAT	2.05E-02	2.48E-03	4.60E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LHDT1-DSL	1.67E-03	4.17E-04	1.13E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LHDT2-CAT	1.44E-02	1.60E-03	4.00E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LHDT2-DSL	1.33E-03	6.67E-04	1.33E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MHDT-CAT	6.60E-02	4.00E-03	1.00E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MHDT-DSL	3.85E-03	3.85E-04	2.12E-02	0.00E+00	3.85E-04	0.00E+00	0.00E+00	0.00E+00	3.85E-04	3.54E-04	0.00E+00	0.00E+00	0.00E+00
HHDT-CAT	1.17E-01	6.67E-03	3.00E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
HHDT-DSL	1.04E-02	2.49E-03	3.70E-02	7.33E-05	1.54E-03	7.33E-05	7.33E-05	1.47E-04	1.54E-03	1.42E-03	1.83E-05	3.14E-05	4.97E-05
OBUS-CAT	7.50E-02	5.00E-03	1.50E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
OBUS-DSL	5.00E-03	0.00E+00	2.50E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
SBUS-CAT	7.00E-02	1.00E-02	1.00E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
SBUS-DSL	9.33E-03	1.33E-03	3.07E-02	0.00E+00	1.33E-03	0.00E+00	0.00E+00	0.00E+00	1.33E-03	1.23E-03	0.00E+00	0.00E+00	0.00E+00
UB-CAT	4.00E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
UB-DSL	2.86E-03	0.00E+00	1.71E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MH-NCAT	2.60E-01	1.00E-02	1.00E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MH-CAT	2.14E-02	4.55E-04	3.64E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MH-DSL	0.00E+00	0.00E+00	2.00E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MCY-NCAT	1.31E-01	1.23E-02	3.08E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MCY-CAT	4.58E-02	9.03E-03	2.58E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

[a] Emission factors, except PM2.5, calculated by dividing total emissions [lb/day] from BURDEN output of EMFAC2007, version 2.3, by total VMT [mi/day] from BURDEN output. PM10 emission factors by mass fractions in table below.

Table 5-B
PM2.5 Mass Fractions of PM10

PM10 Category	Tech.	PM2.5 Fraction[a]
Exhaust	CAT	0.928
Exhaust	NCAT	0.756
Exhaust	DSL	0.920
Tire Wear	N/A	0.250
Brake Wear	N/A	0.429

[a] From Appendix A, Final–Methodology to Calculate Particulate Matter (PM) 2.5 and PM 2.5 Significance Thresholds, SCAQMD, October 2006

Table 6-A
2009 Motor Vehicle Emission Factors

Vehicle Type	Vehicle Class	Emission Factors								
		CO (lb/mi)	VOC (lb/mi)	NO_x (lb/mi)	SO_x (lb/mi)	Exh. PM10 (lb/mi)	Fug. PM10 (lb/mi)	Diesel PM (lb/mi)	Exh. PM2.5 (lb/mi)	Fug. PM2.5 (lb/mi)
On-Site Welding Truck	MDV-CAT	0.00997	0.00097	0.00142	0.00002	0.00004	0.73844	0.00000	0.00004	0.15655
On-Site Fuel/Lube Truck	MDV-CAT	0.00997	0.00097	0.00142	0.00002	0.00004	0.73844	0.00000	0.00004	0.15655
On-Site Flatbed Truck	MHDT-CAT	0.06600	0.00400	0.01000	0.00000	0.00000	0.73840	0.00000	0.00000	0.15654
On-Site Flatbed Truck, 2 Ton	MHDT-CAT	0.06600	0.00400	0.01000	0.00000	0.00000	0.73840	0.00000	0.00000	0.15654
On-Site Flatbed Truck, 5 Ton	MHDT-CAT	0.06600	0.00400	0.01000	0.00000	0.00000	0.73840	0.00000	0.00000	0.15654
On-Site Mechanics Truck	HHDT-DSL	0.01040	0.00249	0.03700	0.00007	0.00154	0.73855	0.00154	0.00142	0.15659
On-Site Watering Truck	HHDT-DSL	0.01040	0.00249	0.03700	0.00007	0.00154	0.73855	0.00154	0.00142	0.15659
On-Site Dump Truck	HHDT-DSL	0.01040	0.00249	0.03700	0.00007	0.00154	0.73855	0.00154	0.00142	0.15659
On-Site Pickup Truck	LDT1-CAT	0.00872	0.00080	0.00074	0.00000	0.00003	0.73846	0.00000	0.00003	0.15656
On-Site Cement Trucks	HHDT-DSL	0.01040	0.00249	0.03700	0.00007	0.00154	0.73855	0.00154	0.00142	0.15659
On-Site Semi Tractor	HHDT-DSL	0.01040	0.00249	0.03700	0.00007	0.00154	0.73855	0.00154	0.00142	0.15659
Off-Site Flat Bed Trucks	MDV-CAT	0.00997	0.00097	0.00142	0.00002	0.00004	0.00090	0.00000	0.00004	0.00016
Off-Site Asphalt Trucks	HHDT-DSL	0.01040	0.00249	0.03700	0.00007	0.00154	0.00100	0.00154	0.00142	0.00019
Off-Site Cement Trucks	HHDT-DSL	0.01040	0.00249	0.03700	0.00007	0.00154	0.00100	0.00154	0.00142	0.00019
Off-Site Construction Worker Commute	LDT1-CAT	0.00872	0.00080	0.00074	0.00000	0.00003	0.00092	0.00000	0.00003	0.00017
Off-Site Dump Trucks	HHDT-DSL	0.01040	0.00249	0.03700	0.00007	0.00154	0.00100	0.00154	0.00142	0.00019
Off-Site Low Boy Trucks	HHDT-DSL	0.01040	0.00249	0.03700	0.00007	0.00154	0.00100	0.00154	0.00142	0.00019
Off-Site Pickup Trucks	LDT1-CAT	0.00872	0.00080	0.00074	0.00000	0.00003	0.00092	0.00000	0.00003	0.00017
Off-Site Pipe Hauling Trucks	HHDT-DSL	0.01040	0.00249	0.03700	0.00007	0.00154	0.00100	0.00154	0.00142	0.00019
Off-Site Water Trucks	HHDT-DSL	0.01040	0.00249	0.03700	0.00007	0.00154	0.00100	0.00154	0.00142	0.00019
Off-Site Tractor-Trailer	HHDT-DSL	0.01040	0.00249	0.03700	0.00007	0.00154	0.00100	0.00154	0.00142	0.00019
Off-Site Fuel/Lube Trucks	MDV-CAT	0.00997	0.00097	0.00142	0.00002	0.00004	0.00090	0.00000	0.00004	0.00016

Note: The emission factors, except fugitive emissions from entrained road dust, were compiled by running the California Air Resources Board's EMFAC2007 (version 2.3) Burden Model and dividing calculated daily emissions by daily vehicle-miles-traveled.
Welding trucks, fuel/lube trucks and flatbed trucks are assumed to be Medium-Duty Catalyst Equipped Vehicles.
Pickup trucks and construction worker commuting vehicles are assumed to be Light-Duty Trucks 1.
All other vehicles are assumed to be heavy heavy-duty diesel vehicles.
All the emission factors account for the emissions from start, running and idling exhaust. In addition, the VOC emission factors take into account diurnal, hot soak, running and resting emissions, and fugitive PM10 and PM2.5 emission factors take into account tire and brake wear and entrained paved or unpaved road dust.

Emissions [pounds/day] = Emission factor [pounds/mile] x Vehicle miles traveled [miles/day]

Table 6-B
Motor Vehicle Entrained Paved Road PM10 Emission Factors

Vehicle Type	On-Road Average Vehicle Weight (tons)[a]	Road Type	Silt Loading (g/m2)[b]	PM10 Emission Factor (lb/mi)[c]	PM2.5 Emission Factor (lb/mi)[d]
Off-Site Flat Bed Trucks	2.4	Collector	0.037	0.0009	0.0001
Off-Site Asphalt Trucks	2.4	Collector	0.037	0.0009	0.0001
Off-Site Cement Trucks	2.4	Collector	0.037	0.0009	0.0001
Off-Site Construction Worker Commute	2.4	Collector	0.037	0.0009	0.0001
Off-Site Dump Trucks	2.4	Collector	0.037	0.0009	0.0001
Off-Site Low Boy Trucks	2.4	Collector	0.037	0.0009	0.0001
Off-Site Pickup Trucks	2.4	Collector	0.037	0.0009	0.0001
Off-Site Pipe Hauling Trucks	2.4	Collector	0.037	0.0009	0.0001
Off-Site Water Trucks	2.4	Collector	0.037	0.0009	0.0001
Off-Site Tractor-Trailer	2.4	Collector	0.037	0.0009	0.0001
Off-Site Fuel/Lube Trucks	2.4	Collector	0.037	0.0009	0.0001

[a] Average on-road vehicle weight in San Bernardino County from ARB Emission Inventory Methodology 7.9, Entrained Paved Road Dust (1997)

[b] From ARB Emission Inventory Methodology 7.9, Entrained Paved Road Dust (1997)

[c] Emission factor [g/mi] = 7.26 (Silt Loading/2)$^{0.65}$ (Weight/3)$^{1.5}$,
from ARB Emission Inventory Methodology 7.9, Entrained Paved Road Dust (1997)

[d] PM2.5 emission factor [lb/hr] = PM10 emission factor [lb/hr] x PM2.5 fraction of PM10

PM2.5 Fraction of PM10 in Paved Road Dust = 0.169 from Appendix A, Final–Methodology to Calculate Particulate Matter (PM) 2.5 and PM 2.5 Significance Thresholds, SCAQMD, October 2006

Emissions [pounds/day] = Emission factor [pounds/mile] x Vehicle miles traveled [miles/day]

Table 7
Fugitive Dust PM10 Emission Factors

Soil Dropping During Excavation

Emission Factor [lb/cu. yd] = 0.0011 x (mean wind speed [mi/hr] / 5)$^{1.3}$ / (moisture [%] / 2)$^{1.4}$ x (number drops per ton) x (density [ton/cu. yd])
Reference: AP-42, Equation (1), Section 13.2.4, January 1995

Parameter	Value	Basis
Mean Wind Speed	12	SCAQMD 1993 CEQA Air Quality Handbook, Default
Moisture	15	"Open Fugitive Dust PM10 Control Strategies Study," Midwest Research Institute, October 12, 1990, moist soil.
Number Drops	4	Assumption
Soil Density	1.215	Table 2.46, Handbook of Solid Waste Management

PM10 Emission Factor (Uncontrolled)	9.94E-04 lb/cu. yd
Reduction from Watering Twice/Day	0%
Controlled PM10 Emission Factor	9.94E-04 lb/cu. yd
Controlled PM2.5 Emission Factor[a]	2.07E-04 lb/cu. yd

[a] PM2.5 emission factor [lb/hr] = PM10 emission factor [lb/hr] x PM2.5 fraction of PM10
PM2.5 Fraction of PM10 in Construction Dust = 0.208 from Appendix A, Final–Methodology to Calculate Particulate Matter (PM) 2.5 and PM 2.5 Significance Thresholds, SCAQMD, October 2006

Emissions [pounds per day] = Controlled emission factor [pounds per cubic yard] x Volume soil handled [cubic yards per day]

Table 7
Fugitive Dust PM10 Emission Factors

Storage Pile Wind Erosion

Emission Factor [lb/day-acre] = 0.85 x (silt content [%] / 1.5) x (365 / 235) x (percentage of time unobstructed wind exceeds 12 mph / 15)
Reference: Fugitive Dust Background Document and Technical Information Document for Best Available Control Measures, EPA, September 1992

Parameter	Value	Basis
Silt Content	7.5	SCAQMD 1993 CEQA Air Quality Handbook, Overburden
Pct. time wind > 12 mph	13.3	"Emissions Inventory Guidance, Mineral Handling and Processing Industries," MDAQMD, April 10, 2000, p. 17.

PM10 Emission Factor (Uncontrolled)	5.9 lb/day-acre
Reduction from Watering Twice/Day	50%
Controlled PM10 Emission Factor	2.9 lb/day-acre
Controlled PM2.5 Emission Factor[a]	0.6 lb/day-acre

[a] PM2.5 emission factor [lb/hr] = PM10 emission factor [lb/hr] x PM2.5 fraction of PM10
PM2.5 Fraction of PM10 in Construction Dust = 0.208 from Appendix A, Final–Methodology to Calculate Particulate Matter (PM) 2.5 and PM 2.5 Significance Thresholds, SCAQMD, October 2006

Emissions [pounds per day] = Controlled emission factor [pounds per acre-day] x Storage pile surface area [acres]

Table 7
Fugitive Dust PM10 Emission Factors

Bulldozing and Grading

Emission Factor [lb/hr] = 0.75 x (silt content [%])$^{1.5}$ / (moisture)$^{1.4}$
Reference: AP-42, Table 11.9-1, July 1998

Parameter	Value	Basis
Silt Content	7.5	SCAQMD 1993 CEQA Air Quality Handbook, Overburden
Moisture	15	SCAQMD 1993 CEQA Air Quality Handbook, Moist Soil

PM10 Emission Factor (Uncontrolled)	0.348 lb/hr
Reduction from Watering Twice/Day	0%
Controlled PM10 Emission Factor	0.348 lb/hr
Controlled PM2.5 Emission Factor[a]	0.072 lb/hr

[a] PM2.5 emission factor [lb/hr] = PM10 emission factor [lb/hr] x PM2.5 fraction of PM10
PM2.5 Fraction of PM10 in Construction Dust = 0.208 from Appendix A, Final–Methodology to Calculate Particulate Matter (PM) 2.5 and PM 2.5 Significance Thresholds, SCAQMD, October 2006

Emissions [pounds per day] = Controlled emission factor [pounds per hour] x Bulldozing or grading time [hours/day]

Table 7
Fugitive Dust PM10 Emission Factors

Vehicles on Unpaved Surfaces

Emission Factor [lb/mi] = 1.5 x (silt content [%] / 12)$^{0.9}$ x (vehicle weight [tons] / 3)$^{0.45}$
Reference: AP-42, Section 13.2.2, December 2003 for industrial unpaved roads

Parameter	Value	Basis
Silt Content	7.5	SCAQMD 1993 CEQA Air Quality Handbook, Overburden
Vehicle Weight	20	Average of 30 tons loaded and 10 tons empty weights

PM10 Emission Factor (Uncontrolled)	2.308 lb/mi	
Reduction from Watering Twice/Day	68%	from SCAQMD 1993 CEQA Air Quality Handbook, Table 11-4
Controlled PM10 Emission Factor	0.738 lb/mi	
Controlled PM2.5 Emission Factor[a]	0.157 lb/mi	

[a] PM2.5 emission factor [lb/hr] = PM10 emission factor [lb/hr] x PM2.5 fraction of PM10
PM2.5 Fraction of PM10 in Unpaved Road Dust = 0.212 from Appendix A, Final–Methodology to Calculate Particulate Matter (PM) 2.5 and PM 2.5 Significance Thresholds, SCAQMD, October 2006

Emissions [pounds per day] = Controlled emission factor [pounds per mile] x Miles traveled [miles/day]

Table 8-A
Combined Cycle Facility Construction Equipment and Motor Vehicle Numbers

Equipment/Vehicle Type	Fuel	Hours or Miles/Day	Monthly Number													
			Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12	Month 13	Month 14
Construction Equipment																
Air Compressor, Ingersoll-Rand	Diesel	4.5	4	4	4	4	4	4	4	5	5	5	5	5	5	5
Asphalt Paver, Cat A-8008	Diesel	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Backhoe, Cat, 420E	Diesel	5	2	2	2	2	2	2	2	2	2	2	1	1	1	1
Compactor, Cat CS-563	Diesel	5	1	1	1	1	1	0	0	0	0	0	0	0	0	0
Crane, 150-Ton, Manitowoc	Diesel	4	0	0	0	0	1	1	2	2	2	2	2	2	1	1
Crane, 20-Ton, TR400	Diesel	5	0	0	0	1	1	1	1	1	2	2	2	2	2	2
Crane, 225-Ton, Manitowoc, 4100W	Diesel	4	0	0	0	0	0	0	0	1	1	1	1	2	2	2
Crane, 40-Ton, Grove, TR700B	Diesel	5	0	0	1	1	1	2	2	2	2	2	2	3	3	4
Loader, Cat, 938F	Diesel	5	1	1	1	1	1	1	1	0	0	0	0	0	0	0
Motor Grader, Cat 135H	Diesel	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Trencher, Cat 140G	Diesel	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Truck, Concrete Pump, International	Diesel	4	1	2	2	2	2	2	2	1	1	1	1	1	1	1
Welder, Multiquip, BLW-300SS	Diesel	6	1	1	1	2	3	6	9	9	9	9	9	9	8	7
Welder, Multiquip, GA 3800	Gasoline	6.5	5	5	5	5	7	7	7	7	7	7	8	9	9	9
Motor Vehicles																
On-site Vehicles																
On-Site Welding Truck	Gasoline	5	2	2	2	2	2	2	2	2	2	2	3	3	3	3
On-Site Fuel/Lube Truck	Gasoline	5	1	1	1	1	1	1	1	1	1	2	2	2	2	2
On-Site Flatbed Truck	Gasoline	5	2	2	2	2	2	2	2	2	3	3	3	3	3	3
On-Site Watering Truck	Diesel	8	1	1	1	1	1	1	1	1	1	1	1	1	1	1
On-Site Dump Truck	Diesel	5	1	1	1	1	1	2	2	2	2	2	2	2	2	2
Off-Site Vehicles																
Off-Site Flat Bed Trucks	Gasoline	20	4	4	4	4	4	9	9	15	15	20	20	20	15	15
Off-Site Asphalt Trucks	Diesel	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Off-Site Cement Trucks	Diesel	20	0	0	5	5	5	5	5	6	6	3	1	1	1	1
Off-Site Construction Worker Commute	Gasoline	60	129	148	167	185	204	252	263	267	269	272	272	285	272	259
Off-Site Dump Trucks	Diesel	40	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Off-Site Low Boy Trucks	Diesel	15	0	0	0	0	5	5	5	5	5	0	0	0	0	0
Off-Site Pickup Trucks	Gasoline	20	5	5	5	5	5	5	7	12	12	10	10	10	10	10
Off-Site Pipe Hauling Trucks	Diesel	120	0	0	0	0	0	4	4	8	8	8	8	4	4	4
Off-Site Water Trucks	Diesel	5	1	1	1	1	1	1	1	1	2	2	2	2	2	2
Off-Site Fuel/Lube Trucks	Gasoline	20	2	2	2	2	2	3	3	3	3	3	3	3	3	3

Table 8-A (continued)
Combined Cycle Facility Construction Equipment and Motor Vehicle Numbers

Equipment/Vehicle Type	Fuel	Hours or Miles/Day	Monthly Number												
			Month 15	Month 16	Month 17	Month 18	Month 19	Month 20	Month 21	Month 22	Month 23	Month 24	Month 25	Month 26	Month 27
Construction Equipment															
Air Compressor, Ingersoll-Rand	Diesel	4.5	5	5	5	5	6	6	6	6	6	6	6	6	0
Asphalt Paver, Cat A-8008	Diesel	6	0	0	0	0	0	0	0	2	2	2	2	2	0
Backhoe, Cat, 420E	Diesel	5	1	1	1	1	1	1	1	1	0	0	0	0	0
Compactor, Cat CS-563	Diesel	5	0	0	0	0	0	0	1	1	1	1	1	1	0
Crane, 150-Ton, Manitowoc	Diesel	4	1	1	1	1	1	1	1	1	1	1	0	0	0
Crane, 20-Ton, TR400	Diesel	5	2	2	2	2	2	2	2	2	2	2	2	2	2
Crane, 225-Ton, Manitowoc, 4100W	Diesel	4	2	1	1	1	1	1	1	0	0	0	0	0	0
Crane, 40-Ton, Grove, TR700B	Diesel	5	4	2	2	2	2	2	2	2	2	2	2	2	2
Loader, Cat, 938F	Diesel	5	0	0	0	0	0	0	0	0	0	0	0	0	0
Motor Grader, Cat 135H	Diesel	6	1	1	1	0	0	0	0	0	0	0	0	0	0
Trencher, Cat 140G	Diesel	6	1	1	1	1	1	0	0	0	0	0	0	0	0
Truck, Concrete Pump, International	Diesel	4	1	0	0	0	0	0	0	0	0	0	0	0	0
Welder, Multiquip, BLW-300SS	Diesel	6	6	6	6	6	5	5	5	5	5	5	5	5	5
Welder, Multiquip, GA 3800	Gasoline	6.5	9	9	9	9	9	9	9	8	8	8	8	8	8
Motor Vehicles															
On-site Vehicles															
On-Site Welding Truck	Gasoline	5	3	3	3	3	3	3	3	3	3	3	3	3	3
On-Site Fuel/Lube Truck	Gasoline	5	2	2	2	2	2	2	2	1	1	1	1	1	1
On-Site Flatbed Truck	Gasoline	5	3	3	3	3	3	3	3	3	3	3	3	3	3
On-Site Watering Truck	Diesel	8	1	1	1	1	1	1	1	1	1	1	1	1	1
On-Site Dump Truck	Diesel	5	2	2	2	2	1	1	1	1	1	1	1	1	1
Off-Site Vehicles															
Off-Site Flat Bed Trucks	Gasoline	20	10	10	10	5	5	1	1	1	1	1	1	1	1
Off-Site Asphalt Trucks	Diesel	20	0	0	0	0	0	0	0	2	2	2	2	2	2
Off-Site Cement Trucks	Diesel	20	1	0	0	0	0	0	0	0	0	0	0	0	0
Off-Site Construction Worker Commute	Gasoline	60	227	210	184	181	167	166	152	126	118	106	105	104	99
Off-Site Dump Trucks	Diesel	40	2	2	2	2	2	2	2	2	2	2	2	2	2
Off-Site Low Boy Trucks	Diesel	15	0	0	0	0	0	0	0	0	0	0	0	0	0
Off-Site Pickup Trucks	Gasoline	20	10	5	5	5	5	5	5	5	5	5	3	3	3
Off-Site Pipe Hauling Trucks	Diesel	120	4	4	4	4	1	1	1	0	0	0	0	0	0
Off-Site Water Trucks	Diesel	5	2	2	2	2	2	2	2	1	1	1	1	1	1
Off-Site Fuel/Lube Trucks	Gasoline	20	3	3	2	2	2	2	2	2	2	2	2	2	2

Table 8-B
Combined Cycle Facility Construction Monthly Construction Equipment and Motor Vehicle Use

Equipment/Vehicle Type	Fuel	Monthly Operating Hours or Miles[a]														
		Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12	Month 13	Month 14	Month 15
Construction Equipment																
Air Compressor, Ingersoll-Rand	Diesel	396	396	396	396	396	396	396	495	495	495	495	495	495	495	495
Asphalt Paver, Cat A-8008	Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Backhoe, Cat, 420E	Diesel	220	220	220	220	220	220	220	220	220	220	110	110	110	110	110
Compactor, Cat CS-563	Diesel	110	110	110	110	110	0	0	0	0	0	0	0	0	0	0
Crane, 150-Ton, Manitowoc	Diesel	0	0	0	0	88	88	176	176	176	176	176	176	88	88	88
Crane, 20-Ton, TR400	Diesel	0	0	0	110	110	110	110	110	220	220	220	220	220	220	220
Crane, 225-Ton, Manitowoc, 4100W	Diesel	0	0	0	0	0	0	0	88	88	88	88	176	176	176	176
Crane, 40-Ton, Grove, TR700B	Diesel	0	0	110	110	110	220	220	220	220	220	220	330	330	440	440
Loader, Cat, 938F	Diesel	110	110	110	110	110	110	110	0	0	0	0	0	0	0	0
Motor Grader, Cat 135H	Diesel	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132
Trencher, Cat 140G	Diesel	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132
Truck, Concrete Pump, International	Diesel	88	176	176	176	176	176	176	88	88	88	88	88	88	88	88
Welder, Multiquip, BLW-300SS	Diesel	132	132	132	264	396	792	1,188	1,188	1,188	1,188	1,188	1,188	1,056	924	792
Welder, Multiquip, GA 3800	Gasoline	715	715	715	715	1,001	1,001	1,001	1,001	1,001	1,001	1,144	1,287	1,287	1,287	1,287
Motor Vehicles																
On-site Vehicles																
On-Site Welding Truck	Gasoline	220	220	220	220	220	220	220	220	220	220	330	330	330	330	330
On-Site Fuel/Lube Truck	Gasoline	110	110	110	110	110	110	110	110	110	220	220	220	220	220	220
On-Site Flatbed Truck	Gasoline	220	220	220	220	220	220	220	220	330	330	330	330	330	330	330
On-Site Watering Truck	Diesel	176	176	176	176	176	176	176	176	176	176	176	176	176	176	176
On-Site Dump Truck	Diesel	110	110	110	110	110	220	220	220	220	220	220	220	220	220	220
Off-Site Vehicles																
Off-Site Flat Bed Trucks	Gasoline	1,760	1,760	1,760	1,760	1,760	3,960	3,960	6,600	6,600	8,800	8,800	8,800	6,600	6,600	4,400
Off-Site Asphalt Trucks	Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Off-Site Cement Trucks	Diesel	0	0	2,200	2,200	2,200	2,200	2,200	2,640	2,640	1,320	440	440	440	440	440
Off-Site Construction Worker Commute	Gasoline	170,280	195,360	220,440	244,200	269,280	332,640	347,160	352,440	355,080	359,040	359,040	376,200	359,040	341,880	299,640
Off-Site Dump Trucks	Diesel	1,760	1,760	1,760	1,760	1,760	1,760	1,760	1,760	1,760	1,760	1,760	1,760	1,760	1,760	1,760
Off-Site Low Boy Trucks	Diesel	0	0	0	0	1,650	1,650	1,650	1,650	1,650	0	0	0	0	0	0
Off-Site Pickup Trucks	Gasoline	2,200	2,200	2,200	2,200	2,200	2,200	3,080	5,280	5,280	4,400	4,400	4,400	4,400	4,400	4,400
Off-Site Pipe Hauling Trucks	Diesel	0	0	0	0	0	10,560	10,560	21,120	21,120	21,120	21,120	10,560	10,560	10,560	10,560
Off-Site Water Trucks	Diesel	110	110	110	110	110	110	110	110	220	220	220	220	220	220	220
Off-Site Fuel/Lube Trucks	Gasoline	880	880	880	880	880	1,320	1,320	1,320	1,320	1,320	1,320	1,320	1,320	1,320	1,320

Table 8-B (continued)
Combined Cycle Facility Construction Monthly Construction Equipment and Motor Vehicle Use

Equipment/Vehicle Type	Fuel	Monthly Operating Hours or Miles[a]											
		Month 16	Month 17	Month 18	Month 19	Month 20	Month 21	Month 22	Month 23	Month 24	Month 25	Month 26	Month 27
Construction Equipment													
Air Compressor, Ingersoll-Rand	Diesel	495	495	495	594	594	594	594	594	594	594	594	0
Asphalt Paver, Cat A-8008	Diesel	0	0	0	0	0	0	264	264	264	264	264	0
Backhoe, Cat, 420E	Diesel	110	110	110	110	110	110	110	0	0	0	0	0
Compactor, Cat CS-563	Diesel	0	0	0	0	0	110	110	110	110	110	110	0
Crane, 150-Ton, Manitowoc	Diesel	88	88	88	88	88	88	88	88	88	0	0	0
Crane, 20-Ton, TR400	Diesel	220	220	220	220	220	220	220	220	220	220	220	220
Crane, 225-Ton, Manitowoc, 4100W	Diesel	88	88	88	88	88	88	0	0	0	0	0	0
Crane, 40-Ton, Grove, TR700B	Diesel	220	220	220	220	220	220	220	220	220	220	220	220
Loader, Cat, 938F	Diesel	0	0	0	0	0	0	0	0	0	0	0	0
Motor Grader, Cat 135H	Diesel	132	132	0	0	0	0	0	0	0	0	0	0
Trencher, Cat 140G	Diesel	132	132	132	132	0	0	0	0	0	0	0	0
Truck, Concrete Pump, International	Diesel	0	0	0	0	0	0	0	0	0	0	0	0
Welder, Multiquip, BLW-300SS	Diesel	792	792	792	660	660	660	660	660	660	660	660	660
Welder, Multiquip, GA 3800	Gasoline	1,287	1,287	1,287	1,287	1,287	1,287	1,144	1,144	1,144	1,144	1,144	1,144
Motor Vehicles													
On-site Vehicles													
On-Site Welding Truck	Gasoline	330	330	330	330	330	330	330	330	330	330	330	330
On-Site Fuel/Lube Truck	Gasoline	220	220	220	220	220	220	110	110	110	110	110	110
On-Site Flatbed Truck	Gasoline	330	330	330	330	330	330	330	330	330	330	330	330
On-Site Watering Truck	Diesel	176	176	176	176	176	176	176	176	176	176	176	176
On-Site Dump Truck	Diesel	220	220	220	110	110	110	110	110	110	110	110	110
Off-Site Vehicles													
Off-Site Flat Bed Trucks	Gasoline	4,400	4,400	2,200	2,200	440	440	440	440	440	440	440	440
Off-Site Asphalt Trucks	Diesel	0	0	0	0	0	0	880	880	880	880	880	880
Off-Site Cement Trucks	Diesel	0	0	0	0	0	0	0	0	0	0	0	0
Off-Site Construction Worker Commute	Gasoline	277,200	242,880	238,920	220,440	219,120	200,640	166,320	155,760	139,920	138,600	137,280	130,680
Off-Site Dump Trucks	Diesel	1,760	1,760	1,760	1,760	1,760	1,760	1,760	1,760	1,760	1,760	1,760	1,760
Off-Site Low Boy Trucks	Diesel	0	0	0	0	0	0	0	0	0	0	0	0
Off-Site Pickup Trucks	Gasoline	2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200	1,320	1,320	1,320
Off-Site Pipe Hauling Trucks	Diesel	10,560	10,560	10,560	2,640	2,640	2,640	0	0	0	0	0	0
Off-Site Water Trucks	Diesel	220	220	220	220	220	220	110	110	110	110	110	110
Off-Site Fuel/Lube Trucks	Gasoline	1,320	880	880	880	880	880	880	880	880	880	880	880

a Based on 22 working days per month

Table 8-C
Combined Cycle Facility Construction Monthly Construction Equipment and Motor Vehicle CO Emissions

Equipment/Vehicle Type	Emission Factor (lb/hr or lb/mile)	Monthly Emissions (lb/month)														
		Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12	Month 13	Month 14	Month 15
Construction Equipment																
Air Compressor, Ingersoll-Rand	0.3302	130.8	130.8	130.8	130.8	130.8	130.8	130.8	163.5	163.5	163.5	163.5	163.5	163.5	163.5	163.5
Asphalt Paver, Cat A-8008	0.5282	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Backhoe, Cat, 420E	0.3664	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	40.3	40.3	40.3	40.3	40.3
Compactor, Cat CS-563	0.6294	69.2	69.2	69.2	69.2	69.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Crane, 150-Ton, Manitowoc	0.3642	0.0	0.0	0.0	0.0	32.1	32.1	64.1	64.1	64.1	64.1	64.1	64.1	32.1	32.1	32.1
Crane, 20-Ton, TR400	0.3642	0.0	0.0	0.0	40.1	40.1	40.1	40.1	40.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1
Crane, 225-Ton, Manitowoc, 4100W	0.7101	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.5	62.5	62.5	62.5	125.0	125.0	125.0	125.0
Crane, 40-Ton, Grove, TR700B	0.3642	0.0	0.0	40.1	40.1	40.1	80.1	80.1	80.1	80.1	80.1	80.1	120.2	120.2	160.3	160.3
Loader, Cat, 938F	0.6348	69.8	69.8	69.8	69.8	69.8	69.8	69.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Motor Grader, Cat 135H	0.7439	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
Trencher, Cat 140G	0.4892	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6
Truck, Concrete Pump, International	0.4516	39.7	79.5	79.5	79.5	79.5	79.5	79.5	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7
Welder, Multiquip, BLW-300SS	0.0651	8.6	8.6	8.6	17.2	25.8	51.6	77.3	77.3	77.3	77.3	77.3	77.3	68.7	60.2	51.6
Welder, Multiquip, GA 3800	3.6411	2,603.4	2,603.4	2,603.4	2,603.4	3,644.7	3,644.7	3,644.7	3,644.7	3,644.7	3,644.7	4,165.4	4,686.1	4,686.1	4,686.1	4,686.1
Construction Equipment Total		**3,164.9**	**3,204.7**	**3,244.7**	**3,293.4**	**4,375.4**	**4,372.0**	**4,429.8**	**4,415.4**	**4,455.5**	**4,455.5**	**4,935.9**	**5,559.1**	**5,518.5**	**5,549.9**	**5,541.3**
Motor Vehicles																
On-site Vehicles																
On-Site Welding Truck	0.0100	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	3.3	3.3	3.3	3.3	3.3
On-Site Fuel/Lube Truck	0.0100	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	2.2	2.2	2.2	2.2	2.2	2.2
On-Site Flatbed Truck	0.0660	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	21.8	21.8	21.8	21.8	21.8	21.8	21.8
On-Site Watering Truck	0.0104	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
On-Site Dump Truck	0.0104	1.1	1.1	1.1	1.1	1.1	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
Off-Site Vehicles																
Off-Site Flat Bed Trucks	0.0100	17.5	17.5	17.5	17.5	17.5	39.5	39.5	65.8	65.8	87.7	87.7	87.7	65.8	65.8	43.9
Off-Site Asphalt Trucks	0.0104	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Cement Trucks	0.0104	0.0	0.0	22.9	22.9	22.9	22.9	22.9	27.5	27.5	13.7	4.6	4.6	4.6	4.6	4.6
Off-Site Construction Worker Commute	0.0087	1,485.0	1,703.8	1,922.5	2,129.7	2,348.4	2,901.0	3,027.6	3,073.7	3,096.7	3,131.2	3,131.2	3,280.9	3,131.2	2,981.6	2,613.2
Off-Site Dump Trucks	0.0104	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3
Off-Site Low Boy Trucks	0.0104	0.0	0.0	0.0	0.0	17.2	17.2	17.2	17.2	17.2	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Pickup Trucks	0.0087	19.2	19.2	19.2	19.2	19.2	19.2	26.9	46.0	46.0	38.4	38.4	38.4	38.4	38.4	38.4
Off-Site Pipe Hauling Trucks	0.0104	0.0	0.0	0.0	0.0	0.0	109.9	109.9	219.7	219.7	219.7	219.7	109.9	109.9	109.9	109.9
Off-Site Water Trucks	0.0104	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	2.3	2.3	2.3	2.3	2.3	2.3	2.3
Off-Site Fuel/Lube Trucks	0.0100	8.8	8.8	8.8	8.8	8.8	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2
On-Site Motor Vehicle Total		**20.8**	**20.8**	**20.8**	**20.8**	**20.8**	**21.9**	**21.9**	**21.9**	**29.2**	**30.3**	**31.4**	**31.4**	**31.4**	**31.4**	**31.4**
Off-Site Motor Vehicle Total		**1,550.0**	**1,768.7**	**2,010.3**	**2,217.5**	**2,453.4**	**3,142.2**	**3,276.5**	**3,482.5**	**3,506.6**	**3,524.5**	**3,515.4**	**3,555.2**	**3,383.6**	**3,233.9**	**2,843.6**

Table 8-C (continued)

Combined Cycle Facility Construction Monthly Construction Equipment and Motor Vehicle CO Emissions

Equipment/Vehicle Type	Emission Factor (lb/hr or lb/mile)	Monthly Emissions (lb/month)											
		Month 16	Month 17	Month 18	Month 19	Month 20	Month 21	Month 22	Month 23	Month 24	Month 25	Month 26	Month 27
Construction Equipment													
Air Compressor, Ingersoll-Rand	0.3302	163.5	163.5	163.5	196.1	196.1	196.1	196.1	196.1	196.1	196.1	196.1	0.0
Asphalt Paver, Cat A-8008	0.5282	0.0	0.0	0.0	0.0	0.0	0.0	139.4	139.4	139.4	139.4	139.4	0.0
Backhoe, Cat, 420E	0.3664	40.3	40.3	40.3	40.3	40.3	40.3	40.3	0.0	0.0	0.0	0.0	0.0
Compactor, Cat CS-563	0.6294	0.0	0.0	0.0	0.0	0.0	69.2	69.2	69.2	69.2	69.2	69.2	0.0
Crane, 150-Ton, Manitowoc	0.3642	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	0.0	0.0	0.0
Crane, 20-Ton, TR400	0.3642	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1
Crane, 225-Ton, Manitowoc, 4100W	0.7101	62.5	62.5	62.5	62.5	62.5	62.5	0.0	0.0	0.0	0.0	0.0	0.0
Crane, 40-Ton, Grove, TR700B	0.3642	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1
Loader, Cat, 938F	0.6348	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Motor Grader, Cat 135H	0.7439	98.2	98.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Trencher, Cat 140G	0.4892	64.6	64.6	64.6	64.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Truck, Concrete Pump, International	0.4516	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Welder, Multiquip, BLW-300SS	0.0651	51.6	51.6	51.6	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0
Welder, Multiquip, GA 3800	3.6411	4,686.1	4,686.1	4,686.1	4,686.1	4,686.1	4,686.1	4,165.4	4,165.4	4,165.4	4,165.4	4,165.4	4,165.4
Construction Equipment Total		**5,359.0**	**5,359.0**	**5,260.8**	**5,284.9**	**5,220.3**	**5,289.5**	**4,845.8**	**4,805.5**	**4,805.5**	**4,773.5**	**4,773.5**	**4,368.6**
Motor Vehicles													
On-site Vehicles													
On-Site Welding Truck	0.0100	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
On-Site Fuel/Lube Truck	0.0100	2.2	2.2	2.2	2.2	2.2	2.2	1.1	1.1	1.1	1.1	1.1	1.1
On-Site Flatbed Truck	0.0660	21.8	21.8	21.8	21.8	21.8	21.8	21.8	21.8	21.8	21.8	21.8	21.8
On-Site Watering Truck	0.0104	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
On-Site Dump Truck	0.0104	2.3	2.3	2.3	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Off-Site Vehicles													
Off-Site Flat Bed Trucks	0.0100	43.9	43.9	21.9	21.9	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
Off-Site Asphalt Trucks	0.0104	0.0	0.0	0.0	0.0	0.0	0.0	9.2	9.2	9.2	9.2	9.2	9.2
Off-Site Cement Trucks	0.0104	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Construction Worker Commute	0.0087	2,417.5	2,118.2	2,083.6	1,922.5	1,911.0	1,749.8	1,450.5	1,358.4	1,220.3	1,208.7	1,197.2	1,139.7
Off-Site Dump Trucks	0.0104	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3
Off-Site Low Boy Trucks	0.0104	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Pickup Trucks	0.0087	19.2	19.2	19.2	19.2	19.2	19.2	19.2	19.2	19.2	11.5	11.5	11.5
Off-Site Pipe Hauling Trucks	0.0104	109.9	109.9	109.9	27.5	27.5	27.5	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Water Trucks	0.0104	2.3	2.3	2.3	2.3	2.3	2.3	1.1	1.1	1.1	1.1	1.1	1.1
Off-Site Fuel/Lube Trucks	0.0100	13.2	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8
On-Site Motor Vehicle Total		**31.4**	**31.4**	**31.4**	**30.2**	**30.2**	**30.2**	**29.1**	**29.1**	**29.1**	**29.1**	**29.1**	**29.1**
Off-Site Motor Vehicle Total		**2,624.2**	**2,320.5**	**2,264.0**	**2,020.4**	**1,991.4**	**1,830.2**	**1,511.4**	**1,419.4**	**1,281.2**	**1,262.0**	**1,250.5**	**1,193.0**

Note: Totals may not match sum of individual values because of rounding.

Table 8-D
Combined Cycle Facility Construction Monthly Construction Equipment and Motor Vehicle VOC Emissions

Equipment/Vehicle Type	Emission Factor (lb/hr or lb/mile)	Monthly Emissions (lb/month)														
		Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12	Month 13	Month 14	Month 15
Construction Equipment																
Air Compressor, Ingersoll-Rand	0.0986	39.0	39.0	39.0	39.0	39.0	39.0	39.0	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8
Asphalt Paver, Cat A-8008	0.1731	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Backhoe, Cat, 420E	0.1000	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	11.0	11.0	11.0	11.0	11.0
Compactor, Cat CS-563	0.1567	17.2	17.2	17.2	17.2	17.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Crane, 150-Ton, Manitowoc	0.1310	0.0	0.0	0.0	0.0	11.5	11.5	23.1	23.1	23.1	23.1	23.1	23.1	11.5	11.5	11.5
Crane, 20-Ton, TR400	0.1310	0.0	0.0	0.0	14.4	14.4	14.4	14.4	14.4	28.8	28.8	28.8	28.8	28.8	28.8	28.8
Crane, 225-Ton, Manitowoc, 4100W	0.1906	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.8	16.8	16.8	16.8	33.5	33.5	33.5	33.5
Crane, 40-Ton, Grove, TR700B	0.1310	0.0	0.0	14.4	14.4	14.4	28.8	28.8	28.8	28.8	28.8	28.8	43.2	43.2	57.6	57.6
Loader, Cat, 938F	0.1573	17.3	17.3	17.3	17.3	17.3	17.3	17.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Motor Grader, Cat 135H	0.1857	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5
Trencher, Cat 140G	0.1593	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0
Truck, Concrete Pump, International	0.1723	15.2	30.3	30.3	30.3	30.3	30.3	30.3	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2
Welder, Multiquip, BLW-300SS	0.0249	3.3	3.3	3.3	6.6	9.8	19.7	29.5	29.5	29.5	29.5	29.5	29.5	26.2	23.0	19.7
Welder, Multiquip, GA 3800	0.1273	91.1	91.1	91.1	91.1	127.5	127.5	127.5	127.5	127.5	127.5	145.7	163.9	163.9	163.9	163.9
Construction Equipment Total		**250.6**	**265.8**	**280.2**	**297.9**	**349.1**	**356.1**	**377.5**	**371.6**	**386.0**	**386.0**	**393.2**	**442.6**	**427.8**	**438.9**	**435.6**
Motor Vehicles																
On-site Vehicles																
On-Site Welding Truck	0.0010	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3
On-Site Fuel/Lube Truck	0.0010	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2
On-Site Flatbed Truck	0.0040	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.3	1.3	1.3	1.3	1.3	1.3	1.3
On-Site Watering Truck	0.0025	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
On-Site Dump Truck	0.0025	0.3	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Off-Site Vehicles																
Off-Site Flat Bed Trucks	0.0010	1.7	1.7	1.7	1.7	1.7	3.8	3.8	6.4	6.4	8.5	8.5	8.5	6.4	6.4	4.3
Off-Site Asphalt Trucks	0.0025	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Cement Trucks	0.0025	0.0	0.0	5.5	5.5	5.5	5.5	5.5	6.6	6.6	3.3	1.1	1.1	1.1	1.1	1.1
Off-Site Construction Worker Commute	0.0008	136.4	156.5	176.6	195.7	215.8	266.5	278.2	282.4	284.5	287.7	287.7	301.4	287.7	273.9	240.1
Off-Site Dump Trucks	0.0025	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
Off-Site Low Boy Trucks	0.0025	0.0	0.0	0.0	0.0	4.1	4.1	4.1	4.1	4.1	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Pickup Trucks	0.0008	1.8	1.8	1.8	1.8	1.8	1.8	2.5	4.2	4.2	3.5	3.5	3.5	3.5	3.5	3.5
Off-Site Pipe Hauling Trucks	0.0025	0.0	0.0	0.0	0.0	0.0	26.3	26.3	52.6	52.6	52.6	52.6	26.3	26.3	26.3	26.3
Off-Site Water Trucks	0.0025	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Off-Site Fuel/Lube Trucks	0.0010	0.9	0.9	0.9	0.9	0.9	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
On-Site Motor Vehicle Total		**1.9**	**1.9**	**1.9**	**1.9**	**1.9**	**2.2**	**2.2**	**2.2**	**2.6**	**2.7**	**2.8**	**2.8**	**2.8**	**2.8**	**2.8**
Off-Site Motor Vehicle Total		**145.4**	**165.5**	**191.1**	**210.1**	**234.3**	**314.0**	**326.3**	**362.3**	**364.6**	**361.8**	**359.7**	**347.1**	**331.2**	**317.5**	**281.5**

Table 8-D (continued)

Combined Cycle Facility Construction Monthly Construction Equipment and Motor Vehicle VOC Emissions

Equipment/Vehicle Type	Emission Factor (lb/hr or lb/mile)	Monthly Emissions (lb/month)											
		Month 16	Month 17	Month 18	Month 19	Month 20	Month 21	Month 22	Month 23	Month 24	Month 25	Month 26	Month 27
Construction Equipment													
Air Compressor, Ingersoll-Rand	0.0986	48.8	48.8	48.8	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	0.0
Asphalt Paver, Cat A-8008	0.1731	0.0	0.0	0.0	0.0	0.0	0.0	45.7	45.7	45.7	45.7	45.7	0.0
Backhoe, Cat, 420E	0.1000	11.0	11.0	11.0	11.0	11.0	11.0	11.0	0.0	0.0	0.0	0.0	0.0
Compactor, Cat CS-563	0.1567	0.0	0.0	0.0	0.0	0.0	17.2	17.2	17.2	17.2	17.2	17.2	0.0
Crane, 150-Ton, Manitowoc	0.1310	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	0.0	0.0	0.0
Crane, 20-Ton, TR400	0.1310	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8
Crane, 225-Ton, Manitowoc, 4100W	0.1906	16.8	16.8	16.8	16.8	16.8	16.8	0.0	0.0	0.0	0.0	0.0	0.0
Crane, 40-Ton, Grove, TR700B	0.1310	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8
Loader, Cat, 938F	0.1573	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Motor Grader, Cat 135H	0.1857	24.5	24.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Trencher, Cat 140G	0.1593	21.0	21.0	21.0	21.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Truck, Concrete Pump, International	0.1723	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Welder, Multiquip, BLW-300SS	0.0249	19.7	19.7	19.7	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4
Welder, Multiquip, GA 3800	0.1273	163.9	163.9	163.9	163.9	163.9	163.9	145.7	145.7	145.7	145.7	145.7	145.7
Construction Equipment Total		**374.9**	**374.9**	**350.4**	**356.8**	**335.8**	**353.0**	**363.8**	**352.8**	**352.8**	**341.2**	**341.2**	**219.7**
Motor Vehicles													
On-site Vehicles													
On-Site Welding Truck	0.0010	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
On-Site Fuel/Lube Truck	0.0010	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1
On-Site Flatbed Truck	0.0040	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
On-Site Watering Truck	0.0025	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
On-Site Dump Truck	0.0025	0.5	0.5	0.5	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Off-Site Vehicles													
Off-Site Flat Bed Trucks	0.0010	4.3	4.3	2.1	2.1	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Off-Site Asphalt Trucks	0.0025	0.0	0.0	0.0	0.0	0.0	0.0	2.2	2.2	2.2	2.2	2.2	2.2
Off-Site Cement Trucks	0.0025	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Construction Worker Commute	0.0008	222.1	194.6	191.4	176.6	175.6	160.8	133.3	124.8	112.1	111.1	110.0	104.7
Off-Site Dump Trucks	0.0025	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
Off-Site Low Boy Trucks	0.0025	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Pickup Trucks	0.0008	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.1	1.1	1.1
Off-Site Pipe Hauling Trucks	0.0025	26.3	26.3	26.3	6.6	6.6	6.6	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Water Trucks	0.0025	0.5	0.5	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.3	0.3	0.3
Off-Site Fuel/Lube Trucks	0.0010	1.3	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
On-Site Motor Vehicle Total		**2.8**	**2.8**	**2.8**	**2.6**	**2.6**	**2.6**	**2.5**	**2.5**	**2.5**	**2.5**	**2.5**	**2.5**
Off-Site Motor Vehicle Total		**260.6**	**232.7**	**227.4**	**192.9**	**190.1**	**175.3**	**143.2**	**134.7**	**122.0**	**120.2**	**119.2**	**113.9**

Note: Totals may not match sum of individual values because of rounding.

Table 8-E

Combined Cycle Facility Construction Monthly Construction Equipment and Motor Vehicle NOx Emissions

Equipment/Vehicle Type	Emission Factor (lb/hr or lb/mile)	Monthly Emissions (lb/month)														
		Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12	Month 13	Month 14	Month 15
Construction Equipment																
Air Compressor, Ingersoll-Rand	0.5945	235.4	235.4	235.4	235.4	235.4	235.4	235.4	294.3	294.3	294.3	294.3	294.3	294.3	294.3	294.3
Asphalt Paver, Cat A-8008	1.0144	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Backhoe, Cat, 420E	0.6082	133.8	133.8	133.8	133.8	133.8	133.8	133.8	133.8	133.8	133.8	66.9	66.9	66.9	66.9	66.9
Compactor, Cat CS-563	1.2714	139.9	139.9	139.9	139.9	139.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Crane, 150-Ton, Manitowoc	1.3109	0.0	0.0	0.0	0.0	115.4	115.4	230.7	230.7	230.7	230.7	230.7	230.7	115.4	115.4	115.4
Crane, 20-Ton, TR400	1.3109	0.0	0.0	0.0	144.2	144.2	144.2	144.2	144.2	288.4	288.4	288.4	288.4	288.4	288.4	288.4
Crane, 225-Ton, Manitowoc, 4100W	1.8726	0.0	0.0	0.0	0.0	0.0	0.0	0.0	164.8	164.8	164.8	164.8	329.6	329.6	329.6	329.6
Crane, 40-Ton, Grove, TR700B	1.3109	0.0	0.0	144.2	144.2	144.2	288.4	288.4	288.4	288.4	288.4	288.4	432.6	432.6	576.8	576.8
Loader, Cat, 938F	1.2278	135.1	135.1	135.1	135.1	135.1	135.1	135.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Motor Grader, Cat 135H	1.4427	190.4	190.4	190.4	190.4	190.4	190.4	190.4	190.4	190.4	190.4	190.4	190.4	190.4	190.4	190.4
Trencher, Cat 140G	0.9488	125.2	125.2	125.2	125.2	125.2	125.2	125.2	125.2	125.2	125.2	125.2	125.2	125.2	125.2	125.2
Truck, Concrete Pump, International	1.7369	152.8	305.7	305.7	305.7	305.7	305.7	305.7	152.8	152.8	152.8	152.8	152.8	152.8	152.8	152.8
Welder, Multiquip, BLW-300SS	0.1085	14.3	14.3	14.3	28.7	43.0	86.0	129.0	129.0	129.0	129.0	129.0	129.0	114.6	100.3	86.0
Welder, Multiquip, GA 3800	0.0533	38.1	38.1	38.1	38.1	53.4	53.4	53.4	53.4	53.4	53.4	61.0	68.6	68.6	68.6	68.6
Construction Equipment Total		**1,165.1**	**1,318.0**	**1,462.2**	**1,620.7**	**1,765.6**	**1,812.9**	**1,971.3**	**1,907.0**	**2,051.2**	**2,051.2**	**1,991.9**	**2,308.5**	**2,178.9**	**2,308.7**	**2,294.4**
Motor Vehicles																
On-site Vehicles																
On-Site Welding Truck	0.0014	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.5
On-Site Fuel/Lube Truck	0.0014	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3
On-Site Flatbed Truck	0.0100	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	3.3	3.3	3.3	3.3	3.3	3.3	3.3
On-Site Watering Truck	0.0370	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
On-Site Dump Truck	0.0370	4.1	4.1	4.1	4.1	4.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
Off-Site Vehicles																
Off-Site Flat Bed Trucks	0.0014	2.5	2.5	2.5	2.5	2.5	5.6	5.6	9.4	9.4	12.5	12.5	12.5	9.4	9.4	6.3
Off-Site Asphalt Trucks	0.0370	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Cement Trucks	0.0370	0.0	0.0	81.4	81.4	81.4	81.4	81.4	97.7	97.7	48.8	16.3	16.3	16.3	16.3	16.3
Off-Site Construction Worker Commute	0.0007	125.9	144.5	163.0	180.6	199.2	246.0	256.8	260.7	262.6	265.5	265.5	278.2	265.5	252.9	221.6
Off-Site Dump Trucks	0.0370	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1
Off-Site Low Boy Trucks	0.0370	0.0	0.0	0.0	0.0	61.0	61.0	61.0	61.0	61.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Pickup Trucks	0.0007	1.6	1.6	1.6	1.6	1.6	1.6	2.3	3.9	3.9	3.3	3.3	3.3	3.3	3.3	3.3
Off-Site Pipe Hauling Trucks	0.0370	0.0	0.0	0.0	0.0	0.0	390.7	390.7	781.4	781.4	781.4	781.4	390.7	390.7	390.7	390.7
Off-Site Water Trucks	0.0370	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
Off-Site Fuel/Lube Trucks	0.0014	1.3	1.3	1.3	1.3	1.3	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
On-Site Motor Vehicle Total		**13.3**	**13.3**	**13.3**	**13.3**	**13.3**	**17.3**	**17.3**	**17.3**	**18.4**	**18.6**	**18.7**	**18.7**	**18.7**	**18.7**	**18.7**
Off-Site Motor Vehicle Total		**200.5**	**219.1**	**319.0**	**336.6**	**416.2**	**857.5**	**868.9**	**1,285.1**	**1,291.1**	**1,186.7**	**1,154.1**	**776.1**	**760.3**	**747.6**	**713.2**

Table 8-E (continued)
Combined Cycle Facility Construction Monthly Construction Equipment and Motor Vehicle NOx Emissions

Equipment/Vehicle Type	Emission Factor (lb/hr or lb/mile)	Monthly Emissions (lb/month)											
		Month 16	Month 17	Month 18	Month 19	Month 20	Month 21	Month 22	Month 23	Month 24	Month 25	Month 26	Month 27
Construction Equipment													
Air Compressor, Ingersoll-Rand	0.5945	294.3	294.3	294.3	353.1	353.1	353.1	353.1	353.1	353.1	353.1	353.1	0.0
Asphalt Paver, Cat A-8008	1.0144	0.0	0.0	0.0	0.0	0.0	0.0	267.8	267.8	267.8	267.8	267.8	0.0
Backhoe, Cat, 420E	0.6082	66.9	66.9	66.9	66.9	66.9	66.9	66.9	0.0	0.0	0.0	0.0	0.0
Compactor, Cat CS-563	1.2714	0.0	0.0	0.0	0.0	0.0	139.9	139.9	139.9	139.9	139.9	139.9	0.0
Crane, 150-Ton, Manitowoc	1.3109	115.4	115.4	115.4	115.4	115.4	115.4	115.4	115.4	115.4	0.0	0.0	0.0
Crane, 20-Ton, TR400	1.3109	288.4	288.4	288.4	288.4	288.4	288.4	288.4	288.4	288.4	288.4	288.4	288.4
Crane, 225-Ton, Manitowoc, 4100W	1.8726	164.8	164.8	164.8	164.8	164.8	164.8	0.0	0.0	0.0	0.0	0.0	0.0
Crane, 40-Ton, Grove, TR700B	1.3109	288.4	288.4	288.4	288.4	288.4	288.4	288.4	288.4	288.4	288.4	288.4	288.4
Loader, Cat, 938F	1.2278	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Motor Grader, Cat 135H	1.4427	190.4	190.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Trencher, Cat 140G	0.9488	125.2	125.2	125.2	125.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Truck, Concrete Pump, International	1.7369	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Welder, Multiquip, BLW-300SS	0.1085	86.0	86.0	86.0	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
Welder, Multiquip, GA 3800	0.0533	68.6	68.6	68.6	68.6	68.6	68.6	61.0	61.0	61.0	61.0	61.0	61.0
Construction Equipment Total		**1,688.4**	**1,688.4**	**1,497.9**	**1,542.5**	**1,417.2**	**1,557.1**	**1,652.5**	**1,585.6**	**1,585.6**	**1,470.2**	**1,470.2**	**709.4**
Motor Vehicles													
On-site Vehicles													
On-Site Welding Truck	0.0014	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
On-Site Fuel/Lube Truck	0.0014	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2
On-Site Flatbed Truck	0.0100	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
On-Site Watering Truck	0.0370	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
On-Site Dump Truck	0.0370	8.1	8.1	8.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
Off-Site Vehicles													
Off-Site Flat Bed Trucks	0.0014	6.3	6.3	3.1	3.1	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Off-Site Asphalt Trucks	0.0370	0.0	0.0	0.0	0.0	0.0	0.0	32.6	32.6	32.6	32.6	32.6	32.6
Off-Site Cement Trucks	0.0370	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Construction Worker Commute	0.0007	205.0	179.6	176.7	163.0	162.1	148.4	123.0	115.2	103.5	102.5	101.5	96.7
Off-Site Dump Trucks	0.0370	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1
Off-Site Low Boy Trucks	0.0370	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Pickup Trucks	0.0007	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.0	1.0	1.0
Off-Site Pipe Hauling Trucks	0.0370	390.7	390.7	390.7	97.7	97.7	97.7	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Water Trucks	0.0370	8.1	8.1	8.1	8.1	8.1	8.1	4.1	4.1	4.1	4.1	4.1	4.1
Off-Site Fuel/Lube Trucks	0.0014	1.9	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
On-Site Motor Vehicle Total		**18.7**	**18.7**	**18.7**	**14.7**	**14.7**	**14.7**	**14.5**	**14.5**	**14.5**	**14.5**	**14.5**	**14.5**
Off-Site Motor Vehicle Total		**678.7**	**652.7**	**646.7**	**340.0**	**336.5**	**322.8**	**228.3**	**220.4**	**208.7**	**207.1**	**206.1**	**201.2**

Note: Totals may not match sum of individual values because of rounding.

Table 8-F
Combined Cycle Facility Construction Monthly Construction Equipment and Motor Vehicle SOx Emissions

Equipment/Vehicle Type	Emission Factor (lb/hr or lb/mile)	Monthly Emissions (lb/month)														
		Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12	Month 13	Month 14	Month 15
Construction Equipment																
Air Compressor, Ingersoll-Rand	0.00055	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Asphalt Paver, Cat A-8008	0.00081	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Backhoe, Cat, 420E	0.00061	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Compactor, Cat CS-563	0.00122	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Crane, 150-Ton, Manitowoc	0.00126	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1
Crane, 20-Ton, TR400	0.00126	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Crane, 225-Ton, Manitowoc, 4100W	0.00177	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3
Crane, 40-Ton, Grove, TR700B	0.00126	0.0	0.0	0.1	0.1	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.6	0.6
Loader, Cat, 938F	0.00120	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Motor Grader, Cat 135H	0.00139	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Trencher, Cat 140G	0.00076	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Truck, Concrete Pump, International	0.00187	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Welder, Multiquip, BLW-300SS	0.00014	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1
Welder, Multiquip, GA 3800	0.00015	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Construction Equipment Total		**1.2**	**1.4**	**1.5**	**1.7**	**1.8**	**1.9**	**2.1**	**2.0**	**2.1**	**2.1**	**2.1**	**2.4**	**2.2**	**2.4**	**2.4**
Motor Vehicles																
On-site Vehicles																
On-Site Welding Truck	0.00002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Fuel/Lube Truck	0.00002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Flatbed Truck	0.00000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Watering Truck	0.00007	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Dump Truck	0.00007	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Vehicles																
Off-Site Flat Bed Trucks	0.00002	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.1
Off-Site Asphalt Trucks	0.00007	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Cement Trucks	0.00007	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.0	0.0	0.0	0.0	0.0
Off-Site Construction Worker Commute	0.00000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Dump Trucks	0.00007	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Off-Site Low Boy Trucks	0.00007	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Pickup Trucks	0.00000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Pipe Hauling Trucks	0.00007	0.0	0.0	0.0	0.0	0.0	0.8	0.8	1.5	1.5	1.5	1.5	0.8	0.8	0.8	0.8
Off-Site Water Trucks	0.00007	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Fuel/Lube Trucks	0.00002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Motor Vehicle Total		**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
Off-Site Motor Vehicle Total		**0.2**	**0.2**	**0.4**	**0.4**	**0.5**	**1.3**	**1.3**	**2.2**	**2.2**	**2.0**	**1.9**	**1.2**	**1.1**	**1.1**	**1.1**

Table 8-F (continued)
Combined Cycle Facility Construction Monthly Construction Equipment and Motor Vehicle SOx Emissions

Equipment/Vehicle Type	Emission Factor (lb/hr or lb/mile)	Monthly Emissions (lb/month)											
		Month 16	Month 17	Month 18	Month 19	Month 20	Month 21	Month 22	Month 23	Month 24	Month 25	Month 26	Month 27
Construction Equipment													
Air Compressor, Ingersoll-Rand	0.00055	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0
Asphalt Paver, Cat A-8008	0.00081	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.0
Backhoe, Cat, 420E	0.00061	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0
Compactor, Cat CS-563	0.00122	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.0
Crane, 150-Ton, Manitowoc	0.00126	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0
Crane, 20-Ton, TR400	0.00126	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Crane, 225-Ton, Manitowoc, 4100W	0.00177	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0
Crane, 40-Ton, Grove, TR700B	0.00126	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Loader, Cat, 938F	0.00120	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Motor Grader, Cat 135H	0.00139	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Trencher, Cat 140G	0.00076	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Truck, Concrete Pump, International	0.00187	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Welder, Multiquip, BLW-300SS	0.00014	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Welder, Multiquip, GA 3800	0.00015	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Construction Equipment Total		**1.8**	**1.8**	**1.6**	**1.6**	**1.5**	**1.6**	**1.7**	**1.6**	**1.6**	**1.5**	**1.5**	**0.8**
Motor Vehicles													
On-site Vehicles													
On-Site Welding Truck	0.00002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Fuel/Lube Truck	0.00002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Flatbed Truck	0.00000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Watering Truck	0.00007	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Dump Truck	0.00007	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Vehicles													
Off-Site Flat Bed Trucks	0.00002	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Asphalt Trucks	0.00007	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1
Off-Site Cement Trucks	0.00007	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Construction Worker Commute	0.00000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Dump Trucks	0.00007	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Off-Site Low Boy Trucks	0.00007	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Pickup Trucks	0.00000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Pipe Hauling Trucks	0.00007	0.8	0.8	0.8	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Water Trucks	0.00007	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Fuel/Lube Trucks	0.00002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Motor Vehicle Total		**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
Off-Site Motor Vehicle Total		**1.0**	**1.0**	**1.0**	**0.4**	**0.4**	**0.4**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**

Note: Totals may not match sum of individual values because of rounding.

Table 8-G
Combined Cycle Facility Construction Monthly Construction Equipment and Motor Vehicle Exhaust PM10 Emissions

Equipment/Vehicle Type	Emission Factor (lb/hr or lb/mile)	Monthly Emissions (lb/month)														
		Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12	Month 13	Month 14	Month 15
Construction Equipment																
Air Compressor, Ingersoll-Rand	0.05268	20.9	20.9	20.9	20.9	20.9	20.9	20.9	26.1	26.1	26.1	26.1	26.1	26.1	26.1	26.1
Asphalt Paver, Cat A-8008	0.08908	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Backhoe, Cat, 420E	0.05583	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	6.1	6.1	6.1	6.1	6.1
Compactor, Cat CS-563	0.06886	7.6	7.6	7.6	7.6	7.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Crane, 150-Ton, Manitowoc	0.04990	0.0	0.0	0.0	0.0	4.4	4.4	8.8	8.8	8.8	8.8	8.8	8.8	4.4	4.4	4.4
Crane, 20-Ton, TR400	0.04990	0.0	0.0	0.0	5.5	5.5	5.5	5.5	5.5	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Crane, 225-Ton, Manitowoc, 4100W	0.07225	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.4	6.4	6.4	6.4	12.7	12.7	12.7	12.7
Crane, 40-Ton, Grove, TR700B	0.04990	0.0	0.0	5.5	5.5	5.5	11.0	11.0	11.0	11.0	11.0	11.0	16.5	16.5	22.0	22.0
Loader, Cat, 938F	0.07020	7.7	7.7	7.7	7.7	7.7	7.7	7.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Motor Grader, Cat 135H	0.08278	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9
Trencher, Cat 140G	0.08078	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7
Truck, Concrete Pump, International	0.06130	5.4	10.8	10.8	10.8	10.8	10.8	10.8	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
Welder, Multiquip, BLW-300SS	0.00764	1.0	1.0	1.0	2.0	3.0	6.1	9.1	9.1	9.1	9.1	9.1	9.1	8.1	7.1	6.1
Welder, Multiquip, GA 3800	0.04210	30.1	30.1	30.1	30.1	42.1	42.1	42.1	42.1	42.1	42.1	48.2	54.2	54.2	54.2	54.2
Construction Equipment Total		**106.5**	**111.9**	**117.4**	**123.9**	**141.4**	**142.3**	**149.7**	**148.2**	**153.7**	**153.7**	**153.5**	**171.4**	**166.0**	**170.5**	**169.5**
Motor Vehicles																
On-site Vehicles																
On-Site Welding Truck	0.00004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Fuel/Lube Truck	0.00004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Flatbed Truck	0.00000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Watering Truck	0.00154	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
On-Site Dump Truck	0.00154	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Off-Site Vehicles																
Off-Site Flat Bed Trucks	0.00004	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.4	0.4	0.3	0.3	0.2
Off-Site Asphalt Trucks	0.00154	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Cement Trucks	0.00154	0.0	0.0	3.4	3.4	3.4	3.4	3.4	4.1	4.1	2.0	0.7	0.7	0.7	0.7	0.7
Off-Site Construction Worker Commute	0.00003	5.2	6.0	6.8	7.5	8.3	10.3	10.7	10.9	10.9	11.1	11.1	11.6	11.1	10.5	9.2
Off-Site Dump Trucks	0.00154	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
Off-Site Low Boy Trucks	0.00154	0.0	0.0	0.0	0.0	2.5	2.5	2.5	2.5	2.5	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Pickup Trucks	0.00003	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1
Off-Site Pipe Hauling Trucks	0.00154	0.0	0.0	0.0	0.0	0.0	16.2	16.2	32.5	32.5	32.5	32.5	16.2	16.2	16.2	16.2
Off-Site Water Trucks	0.00154	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Off-Site Fuel/Lube Trucks	0.00004	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
On-Site Motor Vehicle Total		**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.6**	**0.6**	**0.6**	**0.6**	**0.6**	**0.6**	**0.6**	**0.6**	**0.6**	**0.6**
Off-Site Motor Vehicle Total		**8.3**	**9.1**	**13.2**	**14.0**	**17.3**	**35.6**	**36.1**	**53.3**	**53.6**	**49.2**	**47.8**	**32.1**	**31.5**	**31.0**	**29.6**

Table 8-G (continued)
Combined Cycle Facility Construction Monthly Construction Equipment and Motor Vehicle Exhaust PM10 Emissions

Equipment/Vehicle Type	Emission Factor (lb/hr or lb/mile)	Monthly Emissions (lb/month)											
		Month 16	Month 17	Month 18	Month 19	Month 20	Month 21	Month 22	Month 23	Month 24	Month 25	Month 26	Month 27
Construction Equipment													
Air Compressor, Ingersoll-Rand	0.05268	26.1	26.1	26.1	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	0.0
Asphalt Paver, Cat A-8008	0.08908	0.0	0.0	0.0	0.0	0.0	0.0	23.5	23.5	23.5	23.5	23.5	0.0
Backhoe, Cat, 420E	0.05583	6.1	6.1	6.1	6.1	6.1	6.1	6.1	0.0	0.0	0.0	0.0	0.0
Compactor, Cat CS-563	0.06886	0.0	0.0	0.0	0.0	0.0	7.6	7.6	7.6	7.6	7.6	7.6	0.0
Crane, 150-Ton, Manitowoc	0.04990	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	0.0	0.0	0.0
Crane, 20-Ton, TR400	0.04990	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Crane, 225-Ton, Manitowoc, 4100W	0.07225	6.4	6.4	6.4	6.4	6.4	6.4	0.0	0.0	0.0	0.0	0.0	0.0
Crane, 40-Ton, Grove, TR700B	0.04990	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Loader, Cat, 938F	0.07020	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Motor Grader, Cat 135H	0.08278	10.9	10.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Trencher, Cat 140G	0.08078	10.7	10.7	10.7	10.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Truck, Concrete Pump, International	0.06130	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Welder, Multiquip, BLW-300SS	0.00764	6.1	6.1	6.1	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Welder, Multiquip, GA 3800	0.04210	54.2	54.2	54.2	54.2	54.2	54.2	48.2	48.2	48.2	48.2	48.2	48.2
Construction Equipment Total		**146.8**	**146.8**	**135.8**	**140.0**	**129.4**	**136.9**	**148.1**	**141.9**	**141.9**	**137.6**	**137.6**	**75.2**
Motor Vehicles													
On-site Vehicles													
On-Site Welding Truck	0.00004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Fuel/Lube Truck	0.00004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Flatbed Truck	0.00000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Watering Truck	0.00154	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
On-Site Dump Truck	0.00154	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Off-Site Vehicles													
Off-Site Flat Bed Trucks	0.00004	0.2	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Asphalt Trucks	0.00154	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4	1.4	1.4	1.4
Off-Site Cement Trucks	0.00154	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Construction Worker Commute	0.00003	8.5	7.5	7.4	6.8	6.8	6.2	5.1	4.8	4.3	4.3	4.2	4.0
Off-Site Dump Trucks	0.00154	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
Off-Site Low Boy Trucks	0.00154	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Pickup Trucks	0.00003	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0
Off-Site Pipe Hauling Trucks	0.00154	16.2	16.2	16.2	4.1	4.1	4.1	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Water Trucks	0.00154	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2
Off-Site Fuel/Lube Trucks	0.00004	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Motor Vehicle Total		**0.6**	**0.6**	**0.6**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**
Off-Site Motor Vehicle Total		**28.1**	**27.1**	**26.8**	**14.1**	**14.0**	**13.4**	**9.5**	**9.2**	**8.7**	**8.6**	**8.6**	**8.4**

Note: Totals may not match sum of individual values because of rounding.

Table 8-H

Combined Cycle Facility Construction Monthly Construction Equipment and Motor Vehicle Exhaust PM2.5 Emissions

Equipment/Vehicle Type	Emission Factor (lb/hr or lb/mile)	Monthly Emissions (lb/month)														
		Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12	Month 13	Month 14	Month 15
Construction Equipment																
Air Compressor, Ingersoll-Rand	0.04847	19.2	19.2	19.2	19.2	19.2	19.2	19.2	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0
Asphalt Paver, Cat A-8008	0.08195	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Backhoe, Cat, 420E	0.05137	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	5.7	5.7	5.7	5.7	5.7
Compactor, Cat CS-563	0.06335	7.0	7.0	7.0	7.0	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Crane, 150-Ton, Manitowoc	0.04591	0.0	0.0	0.0	0.0	4.0	4.0	8.1	8.1	8.1	8.1	8.1	8.1	4.0	4.0	4.0
Crane, 20-Ton, TR400	0.04591	0.0	0.0	0.0	5.0	5.0	5.0	5.0	5.0	10.1	10.1	10.1	10.1	10.1	10.1	10.1
Crane, 225-Ton, Manitowoc, 4100W	0.06647	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.8	5.8	5.8	5.8	11.7	11.7	11.7	11.7
Crane, 40-Ton, Grove, TR700B	0.04591	0.0	0.0	5.0	5.0	5.0	10.1	10.1	10.1	10.1	10.1	10.1	15.1	15.1	20.2	20.2
Loader, Cat, 938F	0.06458	7.1	7.1	7.1	7.1	7.1	7.1	7.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Motor Grader, Cat 135H	0.07616	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1
Trencher, Cat 140G	0.07432	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8
Truck, Concrete Pump, International	0.05639	5.0	9.9	9.9	9.9	9.9	9.9	9.9	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Welder, Multiquip, BLW-300SS	0.00703	0.9	0.9	0.9	1.9	2.8	5.6	8.4	8.4	8.4	8.4	8.4	8.4	7.4	6.5	5.6
Welder, Multiquip, GA 3800	0.03183	22.8	22.8	22.8	22.8	31.9	31.9	31.9	31.9	31.9	31.9	36.4	41.0	41.0	41.0	41.0
Construction Equipment Total		**93.1**	**98.0**	**103.1**	**109.1**	**123.1**	**124.0**	**130.8**	**129.4**	**134.5**	**134.5**	**133.4**	**148.8**	**143.8**	**148.0**	**147.0**
Motor Vehicles																
On-site Vehicles																
On-Site Welding Truck	0.00004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Fuel/Lube Truck	0.00004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Flatbed Truck	0.00000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Watering Truck	0.00142	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
On-Site Dump Truck	0.00142	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Off-Site Vehicles																
Off-Site Flat Bed Trucks	0.00004	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2
Off-Site Asphalt Trucks	0.00142	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Cement Trucks	0.00142	0.0	0.0	3.1	3.1	3.1	3.1	3.1	3.7	3.7	1.9	0.6	0.6	0.6	0.6	0.6
Off-Site Construction Worker Commute	0.00003	4.9	5.6	6.3	7.0	7.7	9.5	9.9	10.1	10.2	10.3	10.3	10.8	10.3	9.8	8.6
Off-Site Dump Trucks	0.00142	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Off-Site Low Boy Trucks	0.00142	0.0	0.0	0.0	0.0	2.3	2.3	2.3	2.3	2.3	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Pickup Trucks	0.00003	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1
Off-Site Pipe Hauling Trucks	0.00142	0.0	0.0	0.0	0.0	0.0	14.9	14.9	29.9	29.9	29.9	29.9	14.9	14.9	14.9	14.9
Off-Site Water Trucks	0.00142	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Off-Site Fuel/Lube Trucks	0.00004	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
On-Site Motor Vehicle Total		**0.4**	**0.4**	**0.4**	**0.4**	**0.4**	**0.6**	**0.6**	**0.6**	**0.6**	**0.6**	**0.6**	**0.6**	**0.6**	**0.6**	**0.6**
Off-Site Motor Vehicle Total		**8.1**	**8.8**	**12.6**	**13.3**	**16.4**	**33.4**	**33.8**	**49.7**	**49.9**	**45.9**	**44.7**	**30.2**	**29.7**	**29.2**	**27.9**

Table 8-H (continued)

Combined Cycle Facility Construction Monthly Construction Equipment and Motor Vehicle Exhaust PM2.5 Emissions

Equipment/Vehicle Type	Emission Factor (lb/hr or lb/mile)	Monthly Emissions (lb/month)											
		Month 16	Month 17	Month 18	Month 19	Month 20	Month 21	Month 22	Month 23	Month 24	Month 25	Month 26	Month 27
Construction Equipment													
Air Compressor, Ingersoll-Rand	0.04847	24.0	24.0	24.0	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	0.0
Asphalt Paver, Cat A-8008	0.08195	0.0	0.0	0.0	0.0	0.0	0.0	21.6	21.6	21.6	21.6	21.6	0.0
Backhoe, Cat, 420E	0.05137	5.7	5.7	5.7	5.7	5.7	5.7	5.7	0.0	0.0	0.0	0.0	0.0
Compactor, Cat CS-563	0.06335	0.0	0.0	0.0	0.0	0.0	7.0	7.0	7.0	7.0	7.0	7.0	0.0
Crane, 150-Ton, Manitowoc	0.04591	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	0.0	0.0	0.0
Crane, 20-Ton, TR400	0.04591	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1
Crane, 225-Ton, Manitowoc, 4100W	0.06647	5.8	5.8	5.8	5.8	5.8	5.8	0.0	0.0	0.0	0.0	0.0	0.0
Crane, 40-Ton, Grove, TR700B	0.04591	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1
Loader, Cat, 938F	0.06458	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Motor Grader, Cat 135H	0.07616	10.1	10.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Trencher, Cat 140G	0.07432	9.8	9.8	9.8	9.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Truck, Concrete Pump, International	0.05639	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Welder, Multiquip, BLW-300SS	0.00703	5.6	5.6	5.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
Welder, Multiquip, GA 3800	0.03183	41.0	41.0	41.0	41.0	41.0	41.0	36.4	36.4	36.4	36.4	36.4	36.4
Construction Equipment Total		**126.1**	**126.1**	**116.1**	**119.9**	**110.1**	**117.1**	**128.3**	**122.7**	**122.7**	**118.6**	**118.6**	**61.3**
Motor Vehicles													
On-site Vehicles													
On-Site Welding Truck	0.00004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Fuel/Lube Truck	0.00004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Flatbed Truck	0.00000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Watering Truck	0.00142	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
On-Site Dump Truck	0.00142	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Off-Site Vehicles													
Off-Site Flat Bed Trucks	0.00004	0.2	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Asphalt Trucks	0.00142	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2	1.2	1.2
Off-Site Cement Trucks	0.00142	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Construction Worker Commute	0.00003	7.9	6.9	6.8	6.3	6.3	5.7	4.8	4.5	4.0	4.0	3.9	3.7
Off-Site Dump Trucks	0.00142	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Off-Site Low Boy Trucks	0.00142	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Pickup Trucks	0.00003	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0
Off-Site Pipe Hauling Trucks	0.00142	14.9	14.9	14.9	3.7	3.7	3.7	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Water Trucks	0.00142	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2
Off-Site Fuel/Lube Trucks	0.00004	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Motor Vehicle Total		**0.6**	**0.6**	**0.6**	**0.4**	**0.4**	**0.4**	**0.4**	**0.4**	**0.4**	**0.4**	**0.4**	**0.4**
Off-Site Motor Vehicle Total		**26.5**	**25.5**	**25.3**	**13.4**	**13.3**	**12.8**	**9.2**	**8.9**	**8.4**	**8.4**	**8.3**	**8.1**

Note: Totals may not match sum of individual values because of rounding.

Table 8-I
Combined Cycle Facility Construction Monthly Motor Vehicle Fugitive PM10 Emissions

Vehicle Type	Emission Factor (lb/mile)	Monthly Emissions (lb/month)														
		Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12	Month 13	Month 14	Month 15
On-site Vehicles																
On-Site Welding Truck	0.74	162.5	162.5	162.5	162.5	162.5	162.5	162.5	162.5	162.5	162.5	243.7	243.7	243.7	243.7	243.7
On-Site Fuel/Lube Truck	0.74	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	162.5	162.5	162.5	162.5	162.5	162.5
On-Site Flatbed Truck	0.74	162.4	162.4	162.4	162.4	162.4	162.4	162.4	162.4	243.7	243.7	243.7	243.7	243.7	243.7	243.7
On-Site Watering Truck	0.74	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0
On-Site Dump Truck	0.74	81.2	81.2	81.2	81.2	81.2	162.5	162.5	162.5	162.5	162.5	162.5	162.5	162.5	162.5	162.5
Off-Site Vehicles																
Off-Site Flat Bed Trucks	0.00090	1.6	1.6	1.6	1.6	1.6	3.6	3.6	5.9	5.9	7.9	7.9	7.9	5.9	5.9	3.9
Off-Site Asphalt Trucks	0.00100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Cement Trucks	0.00100	0.0	0.0	2.2	2.2	2.2	2.2	2.2	2.6	2.6	1.3	0.4	0.4	0.4	0.4	0.4
Off-Site Construction Worker Commute	0.00092	156.3	179.3	202.3	224.1	247.1	305.3	318.6	323.5	325.9	329.5	329.5	345.3	329.5	313.8	275.0
Off-Site Dump Trucks	0.00100	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
Off-Site Low Boy Trucks	0.00100	0.0	0.0	0.0	0.0	1.7	1.7	1.7	1.7	1.7	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Pickup Trucks	0.00092	2.0	2.0	2.0	2.0	2.0	2.0	2.8	4.8	4.8	4.0	4.0	4.0	4.0	4.0	4.0
Off-Site Pipe Hauling Trucks	0.00100	0.0	0.0	0.0	0.0	0.0	10.6	10.6	21.2	21.2	21.2	21.2	10.6	10.6	10.6	10.6
Off-Site Water Trucks	0.00100	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Off-Site Fuel/Lube Trucks	0.00090	0.8	0.8	0.8	0.8	0.8	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
On-Site Motor Vehicle Total		**617.4**	**617.4**	**617.4**	**617.4**	**617.4**	**698.6**	**698.6**	**698.6**	**779.8**	**861.1**	**942.3**	**942.3**	**942.3**	**942.3**	**942.3**
Off-Site Motor Vehicle Total		**162.5**	**185.6**	**210.8**	**232.6**	**257.3**	**328.4**	**342.5**	**362.8**	**365.3**	**367.1**	**366.3**	**371.4**	**353.7**	**337.9**	**297.2**

Table 8-I (continued)
Combined Cycle Facility Construction Monthly Motor Vehicle Fugitive PM10 Emissions

Equipment/Vehicle Type	Emission Factor (lb/mile)	Monthly Emissions (lb/month)											
		Month 16	Month 17	Month 18	Month 19	Month 20	Month 21	Month 22	Month 23	Month 24	Month 25	Month 26	Month 27
On-site Vehicles													
On-Site Welding Truck	0.74	243.7	243.7	243.7	243.7	243.7	243.7	243.7	243.7	243.7	243.7	243.7	243.7
On-Site Fuel/Lube Truck	0.74	162.5	162.5	162.5	162.5	162.5	162.5	81.2	81.2	81.2	81.2	81.2	81.2
On-Site Flatbed Truck	0.74	243.7	243.7	243.7	243.7	243.7	243.7	243.7	243.7	243.7	243.7	243.7	243.7
On-Site Watering Truck	0.74	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0
On-Site Dump Truck	0.74	162.5	162.5	162.5	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2
Off-Site Vehicles													
Off-Site Flat Bed Trucks	0.00090	3.9	3.9	2.0	2.0	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Off-Site Asphalt Trucks	0.00100	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9	0.9	0.9
Off-Site Cement Trucks	0.00100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Construction Worker Commute	0.00092	254.4	222.9	219.3	202.3	201.1	184.1	152.6	143.0	128.4	127.2	126.0	119.9
Off-Site Dump Trucks	0.00100	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
Off-Site Low Boy Trucks	0.00100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Pickup Trucks	0.00092	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.2	1.2	1.2
Off-Site Pipe Hauling Trucks	0.00100	10.6	10.6	10.6	2.6	2.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Water Trucks	0.00100	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1
Off-Site Fuel/Lube Trucks	0.00090	1.2	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
On-Site Motor Vehicle Total		**942.3**	**942.3**	**942.3**	**861.0**	**861.0**	**861.0**	**779.8**	**779.8**	**779.8**	**779.8**	**779.8**	**779.8**
Off-Site Motor Vehicle Total		**274.1**	**242.2**	**236.6**	**211.7**	**208.9**	**192.0**	**158.6**	**148.9**	**134.4**	**132.4**	**131.1**	**125.1**

Note: Totals may not match sum of individual values because of rounding.

Table 8-J
Combined Cycle Facility Construction Monthly Motor Vehicle Fugitive PM2.5 Emissions

Vehicle Type	Emission Factor (lb/mile)	Monthly Emissions (lb/month)														
		Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12	Month 13	Month 14	Month 15
On-site Vehicles																
On-Site Welding Truck	0.16	34.4	34.4	34.4	34.4	34.4	34.4	34.4	34.4	34.4	34.4	51.7	51.7	51.7	51.7	51.7
On-Site Fuel/Lube Truck	0.16	17.2	17.2	17.2	17.2	17.2	17.2	17.2	17.2	17.2	34.4	34.4	34.4	34.4	34.4	34.4
On-Site Flatbed Truck	0.16	34.4	34.4	34.4	34.4	34.4	34.4	34.4	34.4	51.7	51.7	51.7	51.7	51.7	51.7	51.7
On-Site Watering Truck	0.16	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6
On-Site Dump Truck	0.16	17.2	17.2	17.2	17.2	17.2	34.4	34.4	34.4	34.4	34.4	34.4	34.4	34.4	34.4	34.4
Off-Site Vehicles																
Off-Site Flat Bed Trucks	0.00016	0.3	0.3	0.3	0.3	0.3	0.6	0.6	1.0	1.0	1.4	1.4	1.4	1.0	1.0	0.7
Off-Site Asphalt Trucks	0.00019	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Cement Trucks	0.00019	0.0	0.0	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.3	0.1	0.1	0.1	0.1	0.1
Off-Site Construction Worker Commute	0.00017	28.2	32.4	36.5	40.4	44.6	55.1	57.5	58.4	58.8	59.5	59.5	62.3	59.5	56.6	49.6
Off-Site Dump Trucks	0.00019	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Off-Site Low Boy Trucks	0.00019	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Pickup Trucks	0.00017	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.9	0.9	0.7	0.7	0.7	0.7	0.7	0.7
Off-Site Pipe Hauling Trucks	0.00019	0.0	0.0	0.0	0.0	0.0	2.1	2.1	4.1	4.1	4.1	4.1	2.1	2.1	2.1	2.1
Off-Site Water Trucks	0.00019	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Fuel/Lube Trucks	0.00016	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
On-Site Motor Vehicle Total		**130.9**	**130.9**	**130.9**	**130.9**	**130.9**	**148.1**	**148.1**	**148.1**	**165.3**	**182.6**	**199.8**	**199.8**	**199.8**	**199.8**	**199.8**
Off-Site Motor Vehicle Total		**29.3**	**33.5**	**38.1**	**42.0**	**46.5**	**59.5**	**62.0**	**65.8**	**66.3**	**66.5**	**66.4**	**67.2**	**64.0**	**61.1**	**53.8**

Table 8-J (continued)
Combined Cycle Facility Construction Monthly Motor Vehicle Fugitive PM2.5 Emissions

Equipment/Vehicle Type	Emission Factor (lb/mile)	Monthly Emissions (lb/month)											
		Month 16	Month 17	Month 18	Month 19	Month 20	Month 21	Month 22	Month 23	Month 24	Month 25	Month 26	Month 27
On-site Vehicles													
On-Site Welding Truck	0.16	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
On-Site Fuel/Lube Truck	0.16	34.4	34.4	34.4	34.4	34.4	34.4	17.2	17.2	17.2	17.2	17.2	17.2
On-Site Flatbed Truck	0.16	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
On-Site Watering Truck	0.16	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6
On-Site Dump Truck	0.16	34.4	34.4	34.4	17.2	17.2	17.2	17.2	17.2	17.2	17.2	17.2	17.2
Off-Site Vehicles													
Off-Site Flat Bed Trucks	0.00016	0.7	0.7	0.3	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Off-Site Asphalt Trucks	0.00019	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.2
Off-Site Cement Trucks	0.00019	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Construction Worker Commute	0.00017	45.9	40.2	39.6	36.5	36.3	33.2	27.5	25.8	23.2	23.0	22.7	21.6
Off-Site Dump Trucks	0.00019	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Off-Site Low Boy Trucks	0.00019	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Pickup Trucks	0.00017	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.2	0.2	0.2
Off-Site Pipe Hauling Trucks	0.00019	2.1	2.1	2.1	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Water Trucks	0.00019	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Fuel/Lube Trucks	0.00016	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
On-Site Motor Vehicle Total		**199.8**	**199.8**	**199.8**	**182.5**	**182.5**	**182.5**	**165.3**	**165.3**	**165.3**	**165.3**	**165.3**	**165.3**
Off-Site Motor Vehicle Total		**49.6**	**43.9**	**42.9**	**38.3**	**37.8**	**34.7**	**28.7**	**26.9**	**24.3**	**23.9**	**23.7**	**22.6**

Note: Totals may not match sum of individual values because of rounding.

Table 8-K
Combined Cycle Facility Construction Monthly Fugitive PM10 and PM2.5 Activities

Activity	Units	Quantity per Month														
		Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12	Month 13	Month 14	Month 15
Excavation	Cu. Yd.	319,184	319,184	0	0	0	0	0	0	0	0	0	0	0	0	0
Storage Pile Wind Erosion[a]	Acres-Days	45.00	45.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Bulldozing and Grading	Hours	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132

Table 8-K (continued)
Combined Cycle Facility Construction Monthly Fugitive PM10 and PM2.5 Activities

Activity	Units	Quantity per Day											
		Month 16	Month 17	Month 18	Month 19	Month 20	Month 21	Month 22	Month 23	Month 24	Month 25	Month 26	Month 27
Excavation	Cu. Yd.	0	0	0	0	0	0	0	0	0	0	0	0
Storage Pile Wind Erosion[a]	Acres-Days	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Bulldozing and Grading	Hours	132	132	0	0	0	0	0	0	0	0	0	0

[a] Based on 30 days per month

Table 8-L
Combined Cycle Facility Construction Monthly Fugitive PM10 Emissions

Activity	Emission Factor	Emissions (lb/month)														
		Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12	Month 13	Month 14	Month 15
Excavation	9.94E-04	317.1	317.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Storage Pile Wind Erosion	2.9	131.7	131.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bulldozing and Grading	0.348	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9
Total		**494.7**	**494.7**	**45.9**	**45.9**	**45.9**	**45.9**	**45.9**	**45.9**	**45.9**	**45.9**	**45.9**	**45.9**	**45.9**	**45.9**	**45.9**

Table 8-L (continued)
Combined Cycle Facility Construction Monthly Fugitive PM10 Emissions

Activity	Emission Factor	Emissions (lb/month)											
		Month 16	Month 17	Month 18	Month 19	Month 20	Month 21	Month 22	Month 23	Month 24	Month 25	Month 26	Month 27
Excavation	9.94E-04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Storage Pile Wind Erosion	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bulldozing and Grading	0.348	45.9	45.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total		**45.9**	**45.9**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**

Note: Totals may not match sum of individual values because of rounding.

Table 8-M
Combined Cycle Facility Construction Monthly Fugitive PM2.5 Emissions

Activity	Emission Factor	Emissions (lb/month)														
		Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12	Month 13	Month 14	Month 15
Excavation	2.07E-04	66.0	66.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Storage Pile Wind Erosion	0.6	27.4	27.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bulldozing and Grading	0.072	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5
Total		**102.9**	**102.9**	**9.5**	**9.5**	**9.5**	**9.5**	**9.5**	**9.5**	**9.5**	**9.5**	**9.5**	**9.5**	**9.5**	**9.5**	**9.5**

Table 8-M (continued)
Combined Cycle Facility Construction Monthly Fugitive PM2.5 Emissions

Activity	Emission Factor	Emissions (lb/month)											
		Month 16	Month 17	Month 18	Month 19	Month 20	Month 21	Month 22	Month 23	Month 24	Month 25	Month 26	Month 27
Excavation	2.07E-04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Storage Pile Wind Erosion	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bulldozing and Grading	0.072	9.5	9.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total		**9.5**	**9.5**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**

Note: Totals may not match sum of individual values because of rounding.

Table 9-A
Solar Array Construction Equipment and Motor Vehicle Numbers

Equipment/Vehicle Type	Fuel	Hours or Miles/Day	Monthly Number													
			Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12	Month 13	Month 14
Construction Equipment																
Air Compressor, Ingersoll-Rand	Diesel	4.5	0	0	0	0	0	1	1	3	6	6	6	6	6	6
Crane, 20-Ton, TR400	Diesel	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Welder, Multiquip, GA 3800	Gasoline	6.5	0	0	0	0	0	0	6	9	9	12	12	12	12	12
Welder, Multiquip, BLW-300SS	Diesel	6	0	0	0	0	0	0	2	2	4	4	6	6	6	6
Backhoe, Cat, 420E	Diesel	6	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Trencher, Cat 140G	Diesel	6	0	0	0	0	0	0	1	1	1	0	0	0	0	0
Motor Grader, Cat 135H	Diesel	6	0	0	0	0	0	0	1	1	1	1	1	1	1	1
Scraper, CAT 657G, Tractor Engine	Diesel	8	0	4	4	4	4	4	0	0	0	0	0	0	0	0
Scraper, CAT 657G, Scraper Engine	Diesel	8	0	4	4	4	4	4	0	0	0	0	0	0	0	0
Pipelayer, Cat 561N	Diesel	6	0	0	0	0	0	0	0	0	2	2	2	2	2	2
Truck, Concrete Pump, International	Diesel	6	0	0	0	0	0	0	3	5	6	6	6	6	6	6
Motor Vehicles																
On-site Vehicles																
On-Site Watering Truck	Diesel	9	0	8	8	8	8	8	3	3	3	3	3	3	2	2
On-Site Flatbed Truck	Gasoline	5	0	0	0	0	0	0	1	1	2	2	2	2	2	2
On-Site Pickup Truck	Gasoline	4	1	1	1	1	1	1	1	1	2	2	2	2	2	2
Off-Site Vehicles																
Off-Site Flat Bed Trucks	Gasoline	160	0	0	0	0	0	6	6	6	6	6	6	6	6	6
Off-Site Cement Trucks	Diesel	20	0	0	0	0	0	0	3	5	6	6	6	6	6	6
Off-Site Dump Trucks	Diesel	40	0	0	0	0	0	2	2	2	2	2	2	2	2	2
Off-Site Pickup Trucks	Gasoline	20	0	0	2	2	2	2	2	2	2	2	2	2	2	2
Off-Site Pipe Hauling Trucks	Diesel	14	0	0	0	0	0	2	2	2	2	2	2	2	2	2
Off-Site Water Trucks	Diesel	5	0	0	10	10	10	0	3	3	3	3	3	3	3	3
Off-Site Construction Worker Commute	Gasoline	60	5	5	40	40	40	60	80	100	140	180	220	340	360	300
Off-Site Tractor-Trailer	Diesel	200	0	0	0	0	0	12	12	12	12	12	12	12	12	12

Table 9-A (continued)
Solar Array Construction Equipment and Motor Vehicle Numbers

Equipment/Vehicle Type	Fuel	Hours or Miles/Day	Monthly Number												
			Month 15	Month 16	Month 17	Month 18	Month 19	Month 20	Month 21	Month 22	Month 23	Month 24	Month 25	Month 26	Month 27
Construction Equipment															
Air Compressor, Ingersoll-Rand	Diesel	4.5	6	3	3	3	3	3	3	3	0	0	0	0	0
Crane, 20-Ton, TR400	Diesel	6	0	0	1	1	1	0	0	0	0	0	0	0	0
Welder, Multiquip, GA 3800	Gasoline	6.5	12	9	9	9	6	6	6	6	0	0	0	0	0
Welder, Multiquip, BLW-300SS	Diesel	6	6	6	6	6	6	6	4	2	0	0	0	0	0
Backhoe, Cat, 420E	Diesel	6	1	1	1	1	0	0	0	0	0	0	0	0	0
Trencher, Cat 140G	Diesel	6	0	0	1	0	0	0	0	0	0	0	0	0	0
Motor Grader, Cat 135H	Diesel	6	1	1	1	1	1	1	1	1	0	0	0	0	0
Scraper, CAT 657G, Tractor Engine	Diesel	8	0	0	0	0	0	0	0	0	0	0	0	0	0
Scraper, CAT 657G, Scraper Engine	Diesel	8	0	0	0	0	0	0	0	0	0	0	0	0	0
Pipelayer, Cat 561N	Diesel	6	2	2	2	2	0	0	0	0	0	0	0	0	0
Truck, Concrete Pump, International	Diesel	6	6	6	6	6	0	0	0	0	0	0	0	0	0
Motor Vehicles															
On-site Vehicles															
On-Site Watering Truck	Diesel	9	2	2	2	2	1	1	1	1	0	0	0	0	0
On-Site Flatbed Truck	Gasoline	5	2	2	2	2	2	2	2	2	0	0	0	0	0
On-Site Pickup Truck	Gasoline	4	2	2	2	2	2	2	2	2	0	0	0	0	0
Off-Site Vehicles															
Off-Site Flat Bed Trucks	Gasoline	160	6	6	6	6	6	6	6	6	0	0	0	0	0
Off-Site Cement Trucks	Diesel	20	6	6	6	6	0	0	0	0	0	0	0	0	0
Off-Site Dump Trucks	Diesel	40	2	2	2	2	2	2	2	2	0	0	0	0	0
Off-Site Pickup Trucks	Gasoline	20	2	2	2	2	2	2	2	2	2	2	0	0	0
Off-Site Pipe Hauling Trucks	Diesel	14	2	2	2	2	2	2	2	2	0	0	0	0	0
Off-Site Water Trucks	Diesel	5	3	3	3	3	1	1	1	1	0	0	0	0	0
Off-Site Construction Worker Commute	Gasoline	60	180	80	50	50	0	0	0	0	0	0	0	0	0
Off-Site Tractor-Trailer	Diesel	200	12	12	12	12	12	12	12	12	0	0	0	0	0

Table 9-B
Solar Array Construction Monthly Construction Equipment and Motor Vehicle Use

Equipment/Vehicle Type	Fuel	Monthly Operating Hours or Miles[a]														
		Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12	Month 13	Month 14	Month 15
Construction Equipment																
Air Compressor, Ingersoll-Rand	Diesel	0	0	0	0	0	99	99	297	594	594	594	594	594	594	594
Crane, 20-Ton, TR400	Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Welder, Multiquip, GA 3800	Gasoline	0	0	0	0	0	0	858	1,287	1,287	1,716	1,716	1,716	1,716	1,716	1,716
Welder, Multiquip, BLW-300SS	Diesel	0	0	0	0	0	0	264	264	528	528	792	792	792	792	792
Backhoe, Cat, 420E	Diesel	0	0	0	0	0	0	0	0	0	0	0	0	132	132	132
Trencher, Cat 140G	Diesel	0	0	0	0	0	0	132	132	132	0	0	0	0	0	0
Motor Grader, Cat 135H	Diesel	0	0	0	0	0	0	132	132	132	132	132	132	132	132	132
Scraper, CAT 657G, Tractor Engine	Diesel	0	704	704	704	704	704	0	0	0	0	0	0	0	0	0
Scraper, CAT 657G, Scraper Engine	Diesel	0	704	704	704	704	704	0	0	0	0	0	0	0	0	0
Pipelayer, Cat 561N	Diesel	0	0	0	0	0	0	0	0	264	264	264	264	264	264	264
Truck, Concrete Pump, International	Diesel	0	0	0	0	0	0	396	660	792	792	792	792	792	792	792
Motor Vehicles																
On-site Vehicles																
On-Site Watering Truck	Diesel	0	1,584	1,584	1,584	1,584	1,584	594	594	594	594	594	594	396	396	396
On-Site Flatbed Truck	Gasoline	0	0	0	0	0	0	110	110	220	220	220	220	220	220	220
On-Site Pickup Truck	Gasoline	88	88	88	88	88	88	88	88	176	176	176	176	176	176	176
Off-Site Vehicles																
Off-Site Flat Bed Trucks	Gasoline	0	0	0	0	0	21,120	21,120	21,120	21,120	21,120	21,120	21,120	21,120	21,120	21,120
Off-Site Cement Trucks	Diesel	0	0	0	0	0	0	1,320	2,200	2,640	2,640	2,640	2,640	2,640	2,640	2,640
Off-Site Dump Trucks	Diesel	0	0	0	0	0	1,760	1,760	1,760	1,760	1,760	1,760	1,760	1,760	1,760	1,760
Off-Site Pickup Trucks	Gasoline	0	0	880	880	880	880	880	880	880	880	880	880	880	880	880
Off-Site Pipe Hauling Trucks	Diesel	0	0	0	0	0	616	616	616	616	616	616	616	616	616	616
Off-Site Water Trucks	Diesel	0	0	1,100	1,100	1,100	0	330	330	330	330	330	330	330	330	330
Off-Site Construction Worker Commute	Gasoline	6,600	6,600	52,800	52,800	52,800	79,200	105,600	132,000	184,800	237,600	290,400	448,800	475,200	396,000	237,600
Off-Site Tractor-Trailer	Diesel	0	0	0	0	0	52,800	52,800	52,800	52,800	52,800	52,800	52,800	52,800	52,800	52,800

Table 9-B (continued)
Solar Array Construction Monthly Construction Equipment and Motor Vehicle Use

Equipment/Vehicle Type	Fuel	Monthly Operating Hours or Miles[a]											
		Month 16	Month 17	Month 18	Month 19	Month 20	Month 21	Month 22	Month 23	Month 24	Month 25	Month 26	Month 27
Construction Equipment													
Air Compressor, Ingersoll-Rand	Diesel	297	297	297	297	297	297	297	0	0	0	0	0
Crane, 20-Ton, TR400	Diesel	0	132	132	132	0	0	0	0	0	0	0	0
Welder, Multiquip, GA 3800	Gasoline	1,287	1,287	1,287	858	858	858	858	0	0	0	0	0
Welder, Multiquip, BLW-300SS	Diesel	792	792	792	792	792	528	264	0	0	0	0	0
Backhoe, Cat, 420E	Diesel	132	132	132	0	0	0	0	0	0	0	0	0
Trencher, Cat 140G	Diesel	0	132	0	0	0	0	0	0	0	0	0	0
Motor Grader, Cat 135H	Diesel	132	132	132	132	132	132	132	0	0	0	0	0
Scraper, CAT 657G, Tractor Engine	Diesel	0	0	0	0	0	0	0	0	0	0	0	0
Scraper, CAT 657G, Scraper Engine	Diesel	0	0	0	0	0	0	0	0	0	0	0	0
Pipelayer, Cat 561N	Diesel	264	264	264	0	0	0	0	0	0	0	0	0
Truck, Concrete Pump, International	Diesel	792	792	792	0	0	0	0	0	0	0	0	0
Motor Vehicles													
On-site Vehicles													
On-Site Watering Truck	Diesel	396	396	396	198	198	198	198	0	0	0	0	0
On-Site Flatbed Truck	Gasoline	220	220	220	220	220	220	220	0	0	0	0	0
On-Site Pickup Truck	Gasoline	176	176	176	176	176	176	176	0	0	0	0	0
Off-Site Vehicles													
Off-Site Flat Bed Trucks	Gasoline	21,120	21,120	21,120	21,120	21,120	21,120	21,120	0	0	0	0	0
Off-Site Cement Trucks	Diesel	2,640	2,640	2,640	0	0	0	0	0	0	0	0	0
Off-Site Dump Trucks	Diesel	1,760	1,760	1,760	1,760	1,760	1,760	1,760	0	0	0	0	0
Off-Site Pickup Trucks	Gasoline	880	880	880	880	880	880	880	880	880	0	0	0
Off-Site Pipe Hauling Trucks	Diesel	616	616	616	616	616	616	616	0	0	0	0	0
Off-Site Water Trucks	Diesel	330	330	330	110	110	110	110	0	0	0	0	0
Off-Site Construction Worker Commute	Gasoline	105,600	66,000	66,000	0	0	0	0	0	0	0	0	0
Off-Site Tractor-Trailer	Diesel	52,800	52,800	52,800	52,800	52,800	52,800	52,800	0	0	0	0	0

a Based on 22 working days per month

Table 9-C
Solar Array Construction Monthly Construction Equipment and Motor Vehicle CO Emissions

Equipment/Vehicle Type	Emission Factor (lb/hr or lb/mile)	Monthly Emissions (lb/month)														
		Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12	Month 13	Month 14	Month 15
Construction Equipment																
Air Compressor, Ingersoll-Rand	0.3302	0.0	0.0	0.0	0.0	0.0	32.7	32.7	98.1	196.1	196.1	196.1	196.1	196.1	196.1	196.1
Crane, 20-Ton, TR400	0.3642	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Welder, Multiquip, GA 3800	3.6411	0.0	0.0	0.0	0.0	0.0	0.0	3,124.1	4,686.1	4,686.1	6,248.1	6,248.1	6,248.1	6,248.1	6,248.1	6,248.1
Welder, Multiquip, BLW-300SS	0.0651	0.0	0.0	0.0	0.0	0.0	0.0	17.2	17.2	34.4	34.4	51.6	51.6	51.6	51.6	51.6
Backhoe, Cat, 420E	0.3664	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	48.4	48.4	48.4
Trencher, Cat 140G	0.4892	0.0	0.0	0.0	0.0	0.0	0.0	64.6	64.6	64.6	0.0	0.0	0.0	0.0	0.0	0.0
Motor Grader, Cat 135H	0.7439	0.0	0.0	0.0	0.0	0.0	0.0	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
Scraper, CAT 657G, Tractor Engine	1.0062	0.0	708.3	708.3	708.3	708.3	708.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Scraper, CAT 657G, Scraper Engine	0.5818	0.0	409.6	409.6	409.6	409.6	409.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pipelayer, Cat 561N	0.4902	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	129.4	129.4	129.4	129.4	129.4	129.4	129.4
Truck, Concrete Pump, International	0.4516	0.0	0.0	0.0	0.0	0.0	0.0	178.8	298.0	357.6	357.6	357.6	357.6	357.6	357.6	357.6
Construction Equipment Total		**0.0**	**1,117.9**	**1,117.9**	**1,117.9**	**1,117.9**	**1,150.6**	**3,515.5**	**5,262.2**	**5,566.4**	**7,063.9**	**7,081.1**	**7,081.1**	**7,129.4**	**7,129.4**	**7,129.4**
Motor Vehicles																
On-site Vehicles																
On-Site Watering Truck	0.0104	0.0	16.5	16.5	16.5	16.5	16.5	6.2	6.2	6.2	6.2	6.2	6.2	4.1	4.1	4.1
On-Site Flatbed Truck	0.0660	0.0	0.0	0.0	0.0	0.0	0.0	7.3	7.3	14.5	14.5	14.5	14.5	14.5	14.5	14.5
On-Site Pickup Truck	0.0087	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Off-Site Vehicles																
Off-Site Flat Bed Trucks	0.0100	0.0	0.0	0.0	0.0	0.0	210.5	210.5	210.5	210.5	210.5	210.5	210.5	210.5	210.5	210.5
Off-Site Cement Trucks	0.0104	0.0	0.0	0.0	0.0	0.0	0.0	13.7	22.9	27.5	27.5	27.5	27.5	27.5	27.5	27.5
Off-Site Dump Trucks	0.0104	0.0	0.0	0.0	0.0	0.0	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3
Off-Site Pickup Trucks	0.0087	0.0	0.0	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
Off-Site Pipe Hauling Trucks	0.0104	0.0	0.0	0.0	0.0	0.0	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
Off-Site Water Trucks	0.0104	0.0	0.0	11.4	11.4	11.4	0.0	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
Off-Site Construction Worker Commute	0.0087	57.6	57.6	460.5	460.5	460.5	690.7	920.9	1,151.2	1,611.7	2,072.1	2,532.6	3,914.0	4,144.3	3,453.6	2,072.1
Off-Site Tractor-Trailer	0.0104	0.0	0.0	0.0	0.0	0.0	549.3	549.3	549.3	549.3	549.3	549.3	549.3	549.3	549.3	549.3
On-Site Motor Vehicle Total		**0.8**	**17.2**	**17.2**	**17.2**	**17.2**	**17.2**	**14.2**	**14.2**	**22.2**	**22.2**	**22.2**	**22.2**	**20.2**	**20.2**	**20.2**
Off-Site Motor Vehicle Total		**57.6**	**57.6**	**479.6**	**479.6**	**479.6**	**1,482.9**	**1,730.3**	**1,969.7**	**2,434.8**	**2,895.2**	**3,355.7**	**4,737.1**	**4,967.4**	**4,276.7**	**2,895.2**

Table 9-C (continued)
Solar Array Construction Monthly Construction Equipment and Motor Vehicle CO Emissions

Equipment/Vehicle Type	Emission Factor (lb/hr or lb/mile)	Monthly Emissions (lb/month)											
		Month 16	Month 17	Month 18	Month 19	Month 20	Month 21	Month 22	Month 23	Month 24	Month 25	Month 26	Month 27
Construction Equipment													
Air Compressor, Ingersoll-Rand	0.3302	98.1	98.1	98.1	98.1	98.1	98.1	98.1	0.0	0.0	0.0	0.0	0.0
Crane, 20-Ton, TR400	0.3642	0.0	48.1	48.1	48.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Welder, Multiquip, GA 3800	3.6411	4,686.1	4,686.1	4,686.1	3,124.1	3,124.1	3,124.1	3,124.1	0.0	0.0	0.0	0.0	0.0
Welder, Multiquip, BLW-300SS	0.0651	51.6	51.6	51.6	51.6	51.6	34.4	17.2	0.0	0.0	0.0	0.0	0.0
Backhoe, Cat, 420E	0.3664	48.4	48.4	48.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Trencher, Cat 140G	0.4892	0.0	64.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Motor Grader, Cat 135H	0.7439	98.2	98.2	98.2	98.2	98.2	98.2	98.2	0.0	0.0	0.0	0.0	0.0
Scraper, CAT 657G, Tractor Engine	1.0062	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Scraper, CAT 657G, Scraper Engine	0.5818	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pipelayer, Cat 561N	0.4902	129.4	129.4	129.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Truck, Concrete Pump, International	0.4516	357.6	357.6	357.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Construction Equipment Total		**5,469.3**	**5,582.0**	**5,517.4**	**3,420.0**	**3,371.9**	**3,354.7**	**3,337.5**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
Motor Vehicles													
On-site Vehicles													
On-Site Watering Truck	0.0104	4.1	4.1	4.1	2.1	2.1	2.1	2.1	0.0	0.0	0.0	0.0	0.0
On-Site Flatbed Truck	0.0660	14.5	14.5	14.5	14.5	14.5	14.5	14.5	0.0	0.0	0.0	0.0	0.0
On-Site Pickup Truck	0.0087	1.5	1.5	1.5	1.5	1.5	1.5	1.5	0.0	0.0	0.0	0.0	0.0
Off-Site Vehicles													
Off-Site Flat Bed Trucks	0.0100	210.5	210.5	210.5	210.5	210.5	210.5	210.5	0.0	0.0	0.0	0.0	0.0
Off-Site Cement Trucks	0.0104	27.5	27.5	27.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Dump Trucks	0.0104	18.3	18.3	18.3	18.3	18.3	18.3	18.3	0.0	0.0	0.0	0.0	0.0
Off-Site Pickup Trucks	0.0087	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	0.0	0.0	0.0
Off-Site Pipe Hauling Trucks	0.0104	6.4	6.4	6.4	6.4	6.4	6.4	6.4	0.0	0.0	0.0	0.0	0.0
Off-Site Water Trucks	0.0104	3.4	3.4	3.4	1.1	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0
Off-Site Construction Worker Commute	0.0087	920.9	575.6	575.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Tractor-Trailer	0.0104	549.3	549.3	549.3	549.3	549.3	549.3	549.3	0.0	0.0	0.0	0.0	0.0
On-Site Motor Vehicle Total		**20.2**	**20.2**	**20.2**	**18.1**	**18.1**	**18.1**	**18.1**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
Off-Site Motor Vehicle Total		**1,744.1**	**1,398.7**	**1,398.7**	**793.4**	**793.4**	**793.4**	**793.4**	**7.7**	**7.7**	**0.0**	**0.0**	**0.0**

Note: Totals may not match sum of individual values because of rounding.

Table 9-D
Solar Array Construction Monthly Construction Equipment and Motor Vehicle VOC Emissions

Equipment/Vehicle Type	Emission Factor (lb/hr or lb/mile)	Monthly Emissions (lb/month)														
		Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12	Month 13	Month 14	Month 15
Construction Equipment																
Air Compressor, Ingersoll-Rand	0.0986	0.0	0.0	0.0	0.0	0.0	9.8	9.8	29.3	58.6	58.6	58.6	58.6	58.6	58.6	58.6
Crane, 20-Ton, TR400	0.1310	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Welder, Multiquip, GA 3800	0.1273	0.0	0.0	0.0	0.0	0.0	0.0	109.3	163.9	163.9	218.5	218.5	218.5	218.5	218.5	218.5
Welder, Multiquip, BLW-300SS	0.0249	0.0	0.0	0.0	0.0	0.0	0.0	6.6	6.6	13.1	13.1	19.7	19.7	19.7	19.7	19.7
Backhoe, Cat, 420E	0.1000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.2	13.2	13.2
Trencher, Cat 140G	0.1593	0.0	0.0	0.0	0.0	0.0	0.0	21.0	21.0	21.0	0.0	0.0	0.0	0.0	0.0	0.0
Motor Grader, Cat 135H	0.1857	0.0	0.0	0.0	0.0	0.0	0.0	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5
Scraper, CAT 657G, Tractor Engine	0.2959	0.0	208.3	208.3	208.3	208.3	208.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Scraper, CAT 657G, Scraper Engine	0.1711	0.0	120.5	120.5	120.5	120.5	120.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pipelayer, Cat 561N	0.1281	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	33.8	33.8	33.8	33.8	33.8	33.8	33.8
Truck, Concrete Pump, International	0.1723	0.0	0.0	0.0	0.0	0.0	0.0	68.2	113.7	136.4	136.4	136.4	136.4	136.4	136.4	136.4
Construction Equipment Total		**0.0**	**328.8**	**328.8**	**328.8**	**328.8**	**338.6**	**239.3**	**359.0**	**451.4**	**485.0**	**491.5**	**491.5**	**504.7**	**504.7**	**504.7**
Motor Vehicles																
On-site Vehicles																
On-Site Watering Truck	0.0025	0.0	3.9	3.9	3.9	3.9	3.9	1.5	1.5	1.5	1.5	1.5	1.5	1.0	1.0	1.0
On-Site Flatbed Truck	0.0040	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.9	0.9	0.9	0.9	0.9	0.9	0.9
On-Site Pickup Truck	0.0008	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Off-Site Vehicles																
Off-Site Flat Bed Trucks	0.0010	0.0	0.0	0.0	0.0	0.0	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5
Off-Site Cement Trucks	0.0025	0.0	0.0	0.0	0.0	0.0	0.0	3.3	5.5	6.6	6.6	6.6	6.6	6.6	6.6	6.6
Off-Site Dump Trucks	0.0025	0.0	0.0	0.0	0.0	0.0	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
Off-Site Pickup Trucks	0.0008	0.0	0.0	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Off-Site Pipe Hauling Trucks	0.0025	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Off-Site Water Trucks	0.0025	0.0	0.0	2.7	2.7	2.7	0.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Off-Site Construction Worker Commute	0.0008	5.3	5.3	42.3	42.3	42.3	63.5	84.6	105.8	148.1	190.4	232.7	359.6	380.7	317.3	190.4
Off-Site Tractor-Trailer	0.0025	0.0	0.0	0.0	0.0	0.0	131.5	131.5	131.5	131.5	131.5	131.5	131.5	131.5	131.5	131.5
On-Site Motor Vehicle Total		**0.1**	**4.0**	**4.0**	**4.0**	**4.0**	**4.0**	**2.0**	**2.0**	**2.5**	**2.5**	**2.5**	**2.5**	**2.0**	**2.0**	**2.0**
Off-Site Motor Vehicle Total		**5.3**	**5.3**	**45.8**	**45.8**	**45.8**	**222.1**	**247.3**	**270.7**	**314.1**	**356.4**	**398.7**	**525.6**	**546.8**	**483.3**	**356.4**

Table 9-D (continued)
Solar Array Construction Monthly Construction Equipment and Motor Vehicle VOC Emissions

Equipment/Vehicle Type	Emission Factor (lb/hr or lb/mile)	Monthly Emissions (lb/month)											
		Month 16	Month 17	Month 18	Month 19	Month 20	Month 21	Month 22	Month 23	Month 24	Month 25	Month 26	Month 27
Construction Equipment													
Air Compressor, Ingersoll-Rand	0.0986	29.3	29.3	29.3	29.3	29.3	29.3	29.3	0.0	0.0	0.0	0.0	0.0
Crane, 20-Ton, TR400	0.1310	0.0	17.3	17.3	17.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Welder, Multiquip, GA 3800	0.1273	163.9	163.9	163.9	109.3	109.3	109.3	109.3	0.0	0.0	0.0	0.0	0.0
Welder, Multiquip, BLW-300SS	0.0249	19.7	19.7	19.7	19.7	19.7	13.1	6.6	0.0	0.0	0.0	0.0	0.0
Backhoe, Cat, 420E	0.1000	13.2	13.2	13.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Trencher, Cat 140G	0.1593	0.0	21.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Motor Grader, Cat 135H	0.1857	24.5	24.5	24.5	24.5	24.5	24.5	24.5	0.0	0.0	0.0	0.0	0.0
Scraper, CAT 657G, Tractor Engine	0.2959	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Scraper, CAT 657G, Scraper Engine	0.1711	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pipelayer, Cat 561N	0.1281	33.8	33.8	33.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Truck, Concrete Pump, International	0.1723	136.4	136.4	136.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Construction Equipment Total		**420.8**	**459.1**	**438.1**	**200.0**	**182.7**	**176.2**	**169.6**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
Motor Vehicles													
On-site Vehicles													
On-Site Watering Truck	0.0025	1.0	1.0	1.0	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0
On-Site Flatbed Truck	0.0040	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0
On-Site Pickup Truck	0.0008	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0
Off-Site Vehicles													
Off-Site Flat Bed Trucks	0.0010	20.5	20.5	20.5	20.5	20.5	20.5	20.5	0.0	0.0	0.0	0.0	0.0
Off-Site Cement Trucks	0.0025	6.6	6.6	6.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Dump Trucks	0.0025	4.4	4.4	4.4	4.4	4.4	4.4	4.4	0.0	0.0	0.0	0.0	0.0
Off-Site Pickup Trucks	0.0008	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.0	0.0	0.0
Off-Site Pipe Hauling Trucks	0.0025	1.5	1.5	1.5	1.5	1.5	1.5	1.5	0.0	0.0	0.0	0.0	0.0
Off-Site Water Trucks	0.0025	0.8	0.8	0.8	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0
Off-Site Construction Worker Commute	0.0008	84.6	52.9	52.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Tractor-Trailer	0.0025	131.5	131.5	131.5	131.5	131.5	131.5	131.5	0.0	0.0	0.0	0.0	0.0
On-Site Motor Vehicle Total		**2.0**	**2.0**	**2.0**	**1.5**	**1.5**	**1.5**	**1.5**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
Off-Site Motor Vehicle Total		**250.6**	**218.9**	**218.9**	**158.9**	**158.9**	**158.9**	**158.9**	**0.7**	**0.7**	**0.0**	**0.0**	**0.0**

Note: Totals may not match sum of individual values because of rounding.

Table 9-E
Solar Array Construction Monthly Construction Equipment and Motor Vehicle NOx Emissions

Equipment/Vehicle Type	Emission Factor (lb/hr or lb/mile)	Monthly Emissions (lb/month)														
		Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12	Month 13	Month 14	Month 15
Construction Equipment																
Air Compressor, Ingersoll-Rand	0.5945	0.0	0.0	0.0	0.0	0.0	58.9	58.9	176.6	353.1	353.1	353.1	353.1	353.1	353.1	353.1
Crane, 20-Ton, TR400	1.3109	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Welder, Multiquip, GA 3800	0.0533	0.0	0.0	0.0	0.0	0.0	0.0	45.7	68.6	68.6	91.5	91.5	91.5	91.5	91.5	91.5
Welder, Multiquip, BLW-300SS	0.1085	0.0	0.0	0.0	0.0	0.0	0.0	28.7	28.7	57.3	57.3	86.0	86.0	86.0	86.0	86.0
Backhoe, Cat, 420E	0.6082	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	80.3	80.3	80.3
Trencher, Cat 140G	0.9488	0.0	0.0	0.0	0.0	0.0	0.0	125.2	125.2	125.2	0.0	0.0	0.0	0.0	0.0	0.0
Motor Grader, Cat 135H	1.4427	0.0	0.0	0.0	0.0	0.0	0.0	190.4	190.4	190.4	190.4	190.4	190.4	190.4	190.4	190.4
Scraper, CAT 657G, Tractor Engine	2.4463	0.0	1,722.2	1,722.2	1,722.2	1,722.2	1,722.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Scraper, CAT 657G, Scraper Engine	1.4146	0.0	995.9	995.9	995.9	995.9	995.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pipelayer, Cat 561N	0.9859	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	260.3	260.3	260.3	260.3	260.3	260.3	260.3
Truck, Concrete Pump, International	1.7369	0.0	0.0	0.0	0.0	0.0	0.0	687.8	1,146.4	1,375.6	1,375.6	1,375.6	1,375.6	1,375.6	1,375.6	1,375.6
Construction Equipment Total		**0.0**	**2,718.1**	**2,718.1**	**2,718.1**	**2,718.1**	**2,776.9**	**1,136.7**	**1,735.9**	**2,430.7**	**2,328.3**	**2,356.9**	**2,356.9**	**2,437.2**	**2,437.2**	**2,437.2**
Motor Vehicles																
On-site Vehicles																
On-Site Watering Truck	0.0370	0.0	58.6	58.6	58.6	58.6	58.6	22.0	22.0	22.0	22.0	22.0	22.0	14.7	14.7	14.7
On-Site Flatbed Truck	0.0100	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2
On-Site Pickup Truck	0.0007	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Off-Site Vehicles																
Off-Site Flat Bed Trucks	0.0014	0.0	0.0	0.0	0.0	0.0	30.1	30.1	30.1	30.1	30.1	30.1	30.1	30.1	30.1	30.1
Off-Site Cement Trucks	0.0370	0.0	0.0	0.0	0.0	0.0	0.0	48.8	81.4	97.7	97.7	97.7	97.7	97.7	97.7	97.7
Off-Site Dump Trucks	0.0370	0.0	0.0	0.0	0.0	0.0	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1
Off-Site Pickup Trucks	0.0007	0.0	0.0	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Off-Site Pipe Hauling Trucks	0.0370	0.0	0.0	0.0	0.0	0.0	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8
Off-Site Water Trucks	0.0370	0.0	0.0	40.7	40.7	40.7	0.0	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2
Off-Site Construction Worker Commute	0.0007	4.9	4.9	39.1	39.1	39.1	58.6	78.1	97.6	136.7	175.7	214.8	331.9	351.5	292.9	175.7
Off-Site Tractor-Trailer	0.0370	0.0	0.0	0.0	0.0	0.0	1,953.4	1,953.4	1,953.4	1,953.4	1,953.4	1,953.4	1,953.4	1,953.4	1,953.4	1,953.4
On-Site Motor Vehicle Total		**0.1**	**58.7**	**58.7**	**58.7**	**58.7**	**58.7**	**23.1**	**23.1**	**24.3**	**24.3**	**24.3**	**24.3**	**17.0**	**17.0**	**17.0**
Off-Site Motor Vehicle Total		**4.9**	**4.9**	**80.4**	**80.4**	**80.4**	**2,130.6**	**2,211.2**	**2,263.3**	**2,318.6**	**2,357.6**	**2,396.7**	**2,513.9**	**2,533.4**	**2,474.8**	**2,357.6**

Table 9-E (continued)
Solar Array Construction Monthly Construction Equipment and Motor Vehicle NOx Emissions

Equipment/Vehicle Type	Emission Factor (lb/hr or lb/mile)	Monthly Emissions (lb/month)											
		Month 16	Month 17	Month 18	Month 19	Month 20	Month 21	Month 22	Month 23	Month 24	Month 25	Month 26	Month 27
Construction Equipment													
Air Compressor, Ingersoll-Rand	0.5945	176.6	176.6	176.6	176.6	176.6	176.6	176.6	0.0	0.0	0.0	0.0	0.0
Crane, 20-Ton, TR400	1.3109	0.0	173.0	173.0	173.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Welder, Multiquip, GA 3800	0.0533	68.6	68.6	68.6	45.7	45.7	45.7	45.7	0.0	0.0	0.0	0.0	0.0
Welder, Multiquip, BLW-300SS	0.1085	86.0	86.0	86.0	86.0	86.0	57.3	28.7	0.0	0.0	0.0	0.0	0.0
Backhoe, Cat, 420E	0.6082	80.3	80.3	80.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Trencher, Cat 140G	0.9488	0.0	125.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Motor Grader, Cat 135H	1.4427	190.4	190.4	190.4	190.4	190.4	190.4	190.4	0.0	0.0	0.0	0.0	0.0
Scraper, CAT 657G, Tractor Engine	2.4463	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Scraper, CAT 657G, Scraper Engine	1.4146	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pipelayer, Cat 561N	0.9859	260.3	260.3	260.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Truck, Concrete Pump, International	1.7369	1,375.6	1,375.6	1,375.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Construction Equipment Total		**2,237.8**	**2,536.1**	**2,410.8**	**671.8**	**498.7**	**470.1**	**441.4**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
Motor Vehicles													
On-site Vehicles													
On-Site Watering Truck	0.0370	14.7	14.7	14.7	7.3	7.3	7.3	7.3	0.0	0.0	0.0	0.0	0.0
On-Site Flatbed Truck	0.0100	2.2	2.2	2.2	2.2	2.2	2.2	2.2	0.0	0.0	0.0	0.0	0.0
On-Site Pickup Truck	0.0007	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0
Off-Site Vehicles													
Off-Site Flat Bed Trucks	0.0014	30.1	30.1	30.1	30.1	30.1	30.1	30.1	0.0	0.0	0.0	0.0	0.0
Off-Site Cement Trucks	0.0370	97.7	97.7	97.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Dump Trucks	0.0370	65.1	65.1	65.1	65.1	65.1	65.1	65.1	0.0	0.0	0.0	0.0	0.0
Off-Site Pickup Trucks	0.0007	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.0	0.0	0.0
Off-Site Pipe Hauling Trucks	0.0370	22.8	22.8	22.8	22.8	22.8	22.8	22.8	0.0	0.0	0.0	0.0	0.0
Off-Site Water Trucks	0.0370	12.2	12.2	12.2	4.1	4.1	4.1	4.1	0.0	0.0	0.0	0.0	0.0
Off-Site Construction Worker Commute	0.0007	78.1	48.8	48.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Tractor-Trailer	0.0370	1,953.4	1,953.4	1,953.4	1,953.4	1,953.4	1,953.4	1,953.4	0.0	0.0	0.0	0.0	0.0
On-Site Motor Vehicle Total		**17.0**	**17.0**	**17.0**	**9.7**	**9.7**	**9.7**	**9.7**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
Off-Site Motor Vehicle Total		**2,260.0**	**2,230.7**	**2,230.7**	**2,076.1**	**2,076.1**	**2,076.1**	**2,076.1**	**0.7**	**0.7**	**0.0**	**0.0**	**0.0**

Note: Totals may not match sum of individual values because of rounding.

Table 9-F
Solar Array Construction Monthly Construction Equipment and Motor Vehicle SOx Emissions

Equipment/Vehicle Type	Emission Factor (lb/hr or lb/mile)	Monthly Emissions (lb/month)														
		Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12	Month 13	Month 14	Month 15
Construction Equipment																
Air Compressor, Ingersoll-Rand	0.00055	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Crane, 20-Ton, TR400	0.00126	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Welder, Multiquip, GA 3800	0.00015	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3
Welder, Multiquip, BLW-300SS	0.00014	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Backhoe, Cat, 420E	0.00061	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1
Trencher, Cat 140G	0.00076	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Motor Grader, Cat 135H	0.00139	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Scraper, CAT 657G, Tractor Engine	0.00558	0.0	3.9	3.9	3.9	3.9	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Scraper, CAT 657G, Scraper Engine	0.00315	0.0	2.2	2.2	2.2	2.2	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pipelayer, Cat 561N	0.00090	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Truck, Concrete Pump, International	0.00187	0.0	0.0	0.0	0.0	0.0	0.0	0.7	1.2	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Construction Equipment Total		**0.0**	**6.1**	**6.1**	**6.1**	**6.1**	**6.2**	**1.2**	**1.9**	**2.6**	**2.6**	**2.6**	**2.6**	**2.7**	**2.7**	**2.7**
Motor Vehicles																
On-site Vehicles																
On-Site Watering Truck	0.00007	0.0	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Flatbed Truck	0.00000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Pickup Truck	0.00000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Vehicles																
Off-Site Flat Bed Trucks	0.00002	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Off-Site Cement Trucks	0.00007	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Off-Site Dump Trucks	0.00007	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Off-Site Pickup Trucks	0.00000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Pipe Hauling Trucks	0.00007	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Water Trucks	0.00007	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Construction Worker Commute	0.00000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Tractor-Trailer	0.00007	0.0	0.0	0.0	0.0	0.0	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
On-Site Motor Vehicle Total		**0.0**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
Off-Site Motor Vehicle Total		**0.0**	**0.0**	**0.1**	**0.1**	**0.1**	**4.5**	**4.6**	**4.7**	**4.7**	**4.7**	**4.7**	**4.7**	**4.7**	**4.7**	**4.7**

Table 9-F (continued)
Solar Array Construction Monthly Construction Equipment and Motor Vehicle SOx Emissions

Equipment/Vehicle Type	Emission Factor (lb/hr or lb/mile)	Monthly Emissions (lb/month)											
		Month 16	Month 17	Month 18	Month 19	Month 20	Month 21	Month 22	Month 23	Month 24	Month 25	Month 26	Month 27
Construction Equipment													
Air Compressor, Ingersoll-Rand	0.00055	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0
Crane, 20-Ton, TR400	0.00126	0.0	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Welder, Multiquip, GA 3800	0.00015	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0
Welder, Multiquip, BLW-300SS	0.00014	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Backhoe, Cat, 420E	0.00061	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Trencher, Cat 140G	0.00076	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Motor Grader, Cat 135H	0.00139	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0
Scraper, CAT 657G, Tractor Engine	0.00558	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Scraper, CAT 657G, Scraper Engine	0.00315	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pipelayer, Cat 561N	0.00090	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Truck, Concrete Pump, International	0.00187	1.5	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Construction Equipment Total		**2.5**	**2.7**	**2.6**	**0.8**	**0.6**	**0.6**	**0.5**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
Motor Vehicles													
On-site Vehicles													
On-Site Watering Truck	0.00007	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Flatbed Truck	0.00000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Pickup Truck	0.00000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Vehicles													
Off-Site Flat Bed Trucks	0.00002	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.0	0.0
Off-Site Cement Trucks	0.00007	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Dump Trucks	0.00007	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0
Off-Site Pickup Trucks	0.00000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Pipe Hauling Trucks	0.00007	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Water Trucks	0.00007	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Construction Worker Commute	0.00000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Tractor-Trailer	0.00007	3.9	3.9	3.9	3.9	3.9	3.9	3.9	0.0	0.0	0.0	0.0	0.0
On-Site Motor Vehicle Total		**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
Off-Site Motor Vehicle Total		**4.7**	**4.7**	**4.7**	**4.5**	**4.5**	**4.5**	**4.5**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**

Note: Totals may not match sum of individual values because of rounding.

Table 9-G

Solar Array Construction Monthly Construction Equipment and Motor Vehicle Exhaust PM10 Emissions

Equipment/Vehicle Type	Emission Factor (lb/hr or lb/mile)	Monthly Emissions (lb/month)														
		Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12	Month 13	Month 14	Month 15
Construction Equipment																
Air Compressor, Ingersoll-Rand	0.05268	0.0	0.0	0.0	0.0	0.0	5.2	5.2	15.6	31.3	31.3	31.3	31.3	31.3	31.3	31.3
Crane, 20-Ton, TR400	0.04990	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Welder, Multiquip, GA 3800	0.04210	0.0	0.0	0.0	0.0	0.0	0.0	36.1	54.2	54.2	72.3	72.3	72.3	72.3	72.3	72.3
Welder, Multiquip, BLW-300SS	0.00764	0.0	0.0	0.0	0.0	0.0	0.0	2.0	2.0	4.0	4.0	6.1	6.1	6.1	6.1	6.1
Backhoe, Cat, 420E	0.05583	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.4	7.4	7.4
Trencher, Cat 140G	0.08078	0.0	0.0	0.0	0.0	0.0	0.0	10.7	10.7	10.7	0.0	0.0	0.0	0.0	0.0	0.0
Motor Grader, Cat 135H	0.08278	0.0	0.0	0.0	0.0	0.0	0.0	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9
Scraper, CAT 657G, Tractor Engine	0.11226	0.0	79.0	79.0	79.0	79.0	79.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Scraper, CAT 657G, Scraper Engine	0.06492	0.0	45.7	45.7	45.7	45.7	45.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pipelayer, Cat 561N	0.05658	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.9	14.9	14.9	14.9	14.9	14.9	14.9
Truck, Concrete Pump, International	0.06130	0.0	0.0	0.0	0.0	0.0	0.0	24.3	40.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5
Construction Equipment Total		**0.0**	**124.7**	**124.7**	**124.7**	**124.7**	**129.9**	**89.2**	**133.9**	**174.6**	**182.0**	**184.0**	**184.0**	**191.4**	**191.4**	**191.4**
Motor Vehicles																
On-site Vehicles																
On-Site Watering Truck	0.00154	0.0	2.4	2.4	2.4	2.4	2.4	0.9	0.9	0.9	0.9	0.9	0.9	0.6	0.6	0.6
On-Site Flatbed Truck	0.00000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Pickup Truck	0.00003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Vehicles																
Off-Site Flat Bed Trucks	0.00004	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
Off-Site Cement Trucks	0.00154	0.0	0.0	0.0	0.0	0.0	0.0	2.0	3.4	4.1	4.1	4.1	4.1	4.1	4.1	4.1
Off-Site Dump Trucks	0.00154	0.0	0.0	0.0	0.0	0.0	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
Off-Site Pickup Trucks	0.00003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Pipe Hauling Trucks	0.00154	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
Off-Site Water Trucks	0.00154	0.0	0.0	1.7	1.7	1.7	0.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Off-Site Construction Worker Commute	0.00003	0.2	0.2	1.6	1.6	1.6	2.4	3.3	4.1	5.7	7.3	8.9	13.8	14.6	12.2	7.3
Off-Site Tractor-Trailer	0.00154	0.0	0.0	0.0	0.0	0.0	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2
On-Site Motor Vehicle Total		**0.0**	**2.4**	**2.4**	**2.4**	**2.4**	**2.4**	**0.9**	**0.9**	**0.9**	**0.9**	**0.9**	**0.9**	**0.6**	**0.6**	**0.6**
Off-Site Motor Vehicle Total		**0.2**	**0.2**	**3.3**	**3.3**	**3.3**	**88.2**	**91.6**	**93.7**	**96.0**	**97.7**	**99.3**	**104.2**	**105.0**	**102.6**	**97.7**

Table 9-G (continued)
Solar Array Construction Monthly Construction Equipment and Motor Vehicle Exhaust PM10 Emissions

Equipment/Vehicle Type	Emission Factor (lb/hr or lb/mile)	Monthly Emissions (lb/month)											
		Month 16	Month 17	Month 18	Month 19	Month 20	Month 21	Month 22	Month 23	Month 24	Month 25	Month 26	Month 27
Construction Equipment													
Air Compressor, Ingersoll-Rand	0.05268	15.6	15.6	15.6	15.6	15.6	15.6	15.6	0.0	0.0	0.0	0.0	0.0
Crane, 20-Ton, TR400	0.04990	0.0	6.6	6.6	6.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Welder, Multiquip, GA 3800	0.04210	54.2	54.2	54.2	36.1	36.1	36.1	36.1	0.0	0.0	0.0	0.0	0.0
Welder, Multiquip, BLW-300SS	0.00764	6.1	6.1	6.1	6.1	6.1	4.0	2.0	0.0	0.0	0.0	0.0	0.0
Backhoe, Cat, 420E	0.05583	7.4	7.4	7.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Trencher, Cat 140G	0.08078	0.0	10.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Motor Grader, Cat 135H	0.08278	10.9	10.9	10.9	10.9	10.9	10.9	10.9	0.0	0.0	0.0	0.0	0.0
Scraper, CAT 657G, Tractor Engine	0.11226	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Scraper, CAT 657G, Scraper Engine	0.06492	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pipelayer, Cat 561N	0.05658	14.9	14.9	14.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Truck, Concrete Pump, International	0.06130	48.5	48.5	48.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Construction Equipment Total		**157.7**	**174.9**	**164.3**	**75.3**	**68.8**	**66.7**	**64.7**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
Motor Vehicles													
On-site Vehicles													
On-Site Watering Truck	0.00154	0.6	0.6	0.6	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0
On-Site Flatbed Truck	0.00000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Pickup Truck	0.00003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Vehicles													
Off-Site Flat Bed Trucks	0.00004	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0
Off-Site Cement Trucks	0.00154	4.1	4.1	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Dump Trucks	0.00154	2.7	2.7	2.7	2.7	2.7	2.7	2.7	0.0	0.0	0.0	0.0	0.0
Off-Site Pickup Trucks	0.00003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Pipe Hauling Trucks	0.00154	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0
Off-Site Water Trucks	0.00154	0.5	0.5	0.5	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0
Off-Site Construction Worker Commute	0.00003	3.3	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Tractor-Trailer	0.00154	81.2	81.2	81.2	81.2	81.2	81.2	81.2	0.0	0.0	0.0	0.0	0.0
On-Site Motor Vehicle Total		**0.6**	**0.6**	**0.6**	**0.3**	**0.3**	**0.3**	**0.3**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
Off-Site Motor Vehicle Total		**93.6**	**92.4**	**92.4**	**86.0**	**86.0**	**86.0**	**86.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**

Note: Totals may not match sum of individual values because of rounding.

Table 9-H
Solar Array Construction Monthly Construction Equipment and Motor Vehicle Exhaust PM2.5 Emissions

Equipment/Vehicle Type	Emission Factor (lb/hr or lb/mile)	Monthly Emissions (lb/month)														
		Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12	Month 13	Month 14	Month 15
Construction Equipment																
Air Compressor, Ingersoll-Rand	0.04847	0.0	0.0	0.0	0.0	0.0	4.8	4.8	14.4	28.8	28.8	28.8	28.8	28.8	28.8	28.8
Crane, 20-Ton, TR400	0.04591	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Welder, Multiquip, GA 3800	0.03183	0.0	0.0	0.0	0.0	0.0	0.0	27.3	41.0	41.0	54.6	54.6	54.6	54.6	54.6	54.6
Welder, Multiquip, BLW-300SS	0.00703	0.0	0.0	0.0	0.0	0.0	0.0	1.9	1.9	3.7	3.7	5.6	5.6	5.6	5.6	5.6
Backhoe, Cat, 420E	0.05137	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.8	6.8	6.8
Trencher, Cat 140G	0.07432	0.0	0.0	0.0	0.0	0.0	0.0	9.8	9.8	9.8	0.0	0.0	0.0	0.0	0.0	0.0
Motor Grader, Cat 135H	0.07616	0.0	0.0	0.0	0.0	0.0	0.0	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1
Scraper, CAT 657G, Tractor Engine	0.10328	0.0	72.7	72.7	72.7	72.7	72.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Scraper, CAT 657G, Scraper Engine	0.05972	0.0	42.0	42.0	42.0	42.0	42.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pipelayer, Cat 561N	0.05205	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.7	13.7	13.7	13.7	13.7	13.7	13.7
Truck, Concrete Pump, International	0.05639	0.0	0.0	0.0	0.0	0.0	0.0	22.3	37.2	44.7	44.7	44.7	44.7	44.7	44.7	44.7
Construction Equipment Total		**0.0**	**114.8**	**114.8**	**114.8**	**114.8**	**119.6**	**76.2**	**114.3**	**151.7**	**155.6**	**157.4**	**157.4**	**164.2**	**164.2**	**164.2**
Motor Vehicles																
On-site Vehicles																
On-Site Watering Truck	0.00142	0.0	2.2	2.2	2.2	2.2	2.2	0.8	0.8	0.8	0.8	0.8	0.8	0.6	0.6	0.6
On-Site Flatbed Truck	0.00000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Pickup Truck	0.00003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Vehicles																
Off-Site Flat Bed Trucks	0.00004	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Off-Site Cement Trucks	0.00142	0.0	0.0	0.0	0.0	0.0	0.0	1.9	3.1	3.7	3.7	3.7	3.7	3.7	3.7	3.7
Off-Site Dump Trucks	0.00142	0.0	0.0	0.0	0.0	0.0	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Off-Site Pickup Trucks	0.00003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Pipe Hauling Trucks	0.00142	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
Off-Site Water Trucks	0.00142	0.0	0.0	1.6	1.6	1.6	0.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Off-Site Construction Worker Commute	0.00003	0.2	0.2	1.5	1.5	1.5	2.3	3.0	3.8	5.3	6.8	8.3	12.8	13.6	11.3	6.8
Off-Site Tractor-Trailer	0.00142	0.0	0.0	0.0	0.0	0.0	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7
On-Site Motor Vehicle Total		**0.0**	**2.2**	**2.2**	**2.2**	**2.2**	**2.2**	**0.8**	**0.8**	**0.8**	**0.8**	**0.8**	**0.8**	**0.6**	**0.6**	**0.6**
Off-Site Motor Vehicle Total		**0.2**	**2.4**	**5.3**	**5.3**	**5.3**	**83.4**	**85.1**	**87.1**	**89.3**	**90.8**	**92.3**	**96.8**	**97.3**	**95.0**	**90.5**

Table 9-H (continued)

Solar Array Construction Monthly Construction Equipment and Motor Vehicle Exhaust PM2.5 Emissions

Equipment/Vehicle Type	Emission Factor (lb/hr or lb/mile)	Monthly Emissions (lb/month)											
		Month 16	Month 17	Month 18	Month 19	Month 20	Month 21	Month 22	Month 23	Month 24	Month 25	Month 26	Month 27
Construction Equipment													
Air Compressor, Ingersoll-Rand	0.04847	14.4	14.4	14.4	14.4	14.4	14.4	14.4	0.0	0.0	0.0	0.0	0.0
Crane, 20-Ton, TR400	0.04591	0.0	6.1	6.1	6.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Welder, Multiquip, GA 3800	0.03183	41.0	41.0	41.0	27.3	27.3	27.3	27.3	0.0	0.0	0.0	0.0	0.0
Welder, Multiquip, BLW-300SS	0.00703	5.6	5.6	5.6	5.6	5.6	3.7	1.9	0.0	0.0	0.0	0.0	0.0
Backhoe, Cat, 420E	0.05137	6.8	6.8	6.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Trencher, Cat 140G	0.07432	0.0	9.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Motor Grader, Cat 135H	0.07616	10.1	10.1	10.1	10.1	10.1	10.1	10.1	0.0	0.0	0.0	0.0	0.0
Scraper, CAT 657G, Tractor Engine	0.10328	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Scraper, CAT 657G, Scraper Engine	0.05972	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pipelayer, Cat 561N	0.05205	13.7	13.7	13.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Truck, Concrete Pump, International	0.05639	44.7	44.7	44.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Construction Equipment Total		**136.2**	**152.0**	**142.2**	**63.4**	**57.3**	**55.5**	**53.6**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
Motor Vehicles													
On-site Vehicles													
On-Site Watering Truck	0.00142	0.6	0.6	0.6	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0
On-Site Flatbed Truck	0.00000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Pickup Truck	0.00003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Vehicles													
Off-Site Flat Bed Trucks	0.00004	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0
Off-Site Cement Trucks	0.00142	3.7	3.7	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Dump Trucks	0.00142	2.5	2.5	2.5	2.5	2.5	2.5	2.5	0.0	0.0	0.0	0.0	0.0
Off-Site Pickup Trucks	0.00003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Pipe Hauling Trucks	0.00142	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0
Off-Site Water Trucks	0.00142	0.5	0.5	0.5	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0
Off-Site Construction Worker Commute	0.00003	3.0	1.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Tractor-Trailer	0.00142	74.7	74.7	74.7	74.7	74.7	74.7	74.7	0.0	0.0	0.0	0.0	0.0
On-Site Motor Vehicle Total		**0.6**	**0.6**	**0.6**	**0.3**	**0.3**	**0.3**	**0.3**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
Off-Site Motor Vehicle Total		**86.7**	**85.6**	**85.6**	**79.4**	**79.4**	**79.4**	**79.4**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**

Note: Totals may not match sum of individual values because of rounding.

Table 9-I
Solar Array Construction Monthly Motor Vehicle Fugitive PM10 Emissions

Vehicle Type	Emission Factor (lb/mile)	Monthly Emissions (lb/month)														
		Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12	Month 13	Month 14	Month 15
On-site Vehicles																
On-Site Watering Truck	0.74	0.0	1,169.9	1,169.9	1,169.9	1,169.9	1,169.9	438.7	438.7	438.7	438.7	438.7	438.7	292.5	292.5	292.5
On-Site Flatbed Truck	0.74	0.0	0.0	0.0	0.0	0.0	0.0	81.2	81.2	162.4	162.4	162.4	162.4	162.4	162.4	162.4
On-Site Pickup Truck	0.74	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0
Off-Site Vehicles																
Off-Site Flat Bed Trucks	0.00090	0.0	0.0	0.0	0.0	0.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0
Off-Site Cement Trucks	0.00100	0.0	0.0	0.0	0.0	0.0	0.0	1.3	2.2	2.6	2.6	2.6	2.6	2.6	2.6	2.6
Off-Site Dump Trucks	0.00100	0.0	0.0	0.0	0.0	0.0	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
Off-Site Pickup Trucks	0.00092	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Off-Site Pipe Hauling Trucks	0.00100	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Off-Site Water Trucks	0.00100	0.0	0.0	1.1	1.1	1.1	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Off-Site Construction Worker Commute	0.00092	6.1	6.1	48.5	48.5	48.5	72.7	96.9	121.2	169.6	218.1	266.5	411.9	436.1	363.5	218.1
Off-Site Tractor-Trailer	0.00100	0.0	0.0	0.0	0.0	0.0	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9
On-Site Motor Vehicle Total		**65.0**	**1,234.8**	**1,234.8**	**1,234.8**	**1,234.8**	**1,234.8**	**584.9**	**584.9**	**731.1**	**731.1**	**731.1**	**731.1**	**584.9**	**584.9**	**584.9**
Off-Site Motor Vehicle Total		**6.1**	**6.1**	**50.4**	**50.4**	**50.4**	**147.8**	**173.7**	**198.8**	**247.7**	**296.1**	**344.6**	**490.0**	**514.2**	**441.5**	**296.1**

Table 9-I (continued)
Solar Array Construction Monthly Motor Vehicle Fugitive PM10 Emissions

Equipment/Vehicle Type	Emission Factor (lb/mile)	Monthly Emissions (lb/month)											
		Month 16	Month 17	Month 18	Month 19	Month 20	Month 21	Month 22	Month 23	Month 24	Month 25	Month 26	Month 27
On-site Vehicles													
On-Site Watering Truck	0.74	292.5	292.5	292.5	146.2	146.2	146.2	146.2	0.0	0.0	0.0	0.0	0.0
On-Site Flatbed Truck	0.74	162.4	162.4	162.4	162.4	162.4	162.4	162.4	0.0	0.0	0.0	0.0	0.0
On-Site Pickup Truck	0.74	130.0	130.0	130.0	130.0	130.0	130.0	130.0	0.0	0.0	0.0	0.0	0.0
Off-Site Vehicles													
Off-Site Flat Bed Trucks	0.00090	19.0	19.0	19.0	19.0	19.0	19.0	19.0	0.0	0.0	0.0	0.0	0.0
Off-Site Cement Trucks	0.00100	2.6	2.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Dump Trucks	0.00100	1.8	1.8	1.8	1.8	1.8	1.8	1.8	0.0	0.0	0.0	0.0	0.0
Off-Site Pickup Trucks	0.00092	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0
Off-Site Pipe Hauling Trucks	0.00100	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0
Off-Site Water Trucks	0.00100	0.3	0.3	0.3	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0
Off-Site Construction Worker Commute	0.00092	96.9	60.6	60.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Tractor-Trailer	0.00100	52.9	52.9	52.9	52.9	52.9	52.9	52.9	0.0	0.0	0.0	0.0	0.0
On-Site Motor Vehicle Total		**584.9**	**584.9**	**584.9**	**438.6**	**438.6**	**438.6**	**438.6**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
Off-Site Motor Vehicle Total		**175.0**	**138.6**	**138.6**	**75.2**	**75.2**	**75.2**	**75.2**	**0.8**	**0.8**	**0.0**	**0.0**	**0.0**

Note: Totals may not match sum of individual values because of rounding.

Table 9-J
Solar Array Construction Monthly Motor Vehicle Fugitive PM2.5 Emissions

Vehicle Type	Emission Factor (lb/mile)	Monthly Emissions (lb/month)														
		Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12	Month 13	Month 14	Month 15
On-site Vehicles																
On-Site Watering Truck	0.16	0.0	248.0	248.0	248.0	248.0	248.0	93.0	93.0	93.0	93.0	93.0	93.0	62.0	62.0	62.0
On-Site Flatbed Truck	0.16	0.0	0.0	0.0	0.0	0.0	0.0	17.2	17.2	34.4	34.4	34.4	34.4	34.4	34.4	34.4
On-Site Pickup Truck	0.16	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	27.6	27.6	27.6	27.6	27.6	27.6	27.6
Off-Site Vehicles																
Off-Site Flat Bed Trucks	0.00016	0.0	0.0	0.0	0.0	0.0	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
Off-Site Cement Trucks	0.00019	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Off-Site Dump Trucks	0.00019	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Off-Site Pickup Trucks	0.00017	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Off-Site Pipe Hauling Trucks	0.00019	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Off-Site Water Trucks	0.00019	0.0	0.0	0.2	0.2	0.2	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Off-Site Construction Worker Commute	0.00017	1.1	1.1	8.7	8.7	8.7	13.1	17.5	21.9	30.6	39.4	48.1	74.3	78.7	65.6	39.4
Off-Site Tractor-Trailer	0.00019	0.0	0.0	0.0	0.0	0.0	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3
On-Site Motor Vehicle Total		**13.8**	**261.8**	**261.8**	**261.8**	**261.8**	**261.8**	**124.0**	**124.0**	**155.0**	**155.0**	**155.0**	**155.0**	**124.0**	**124.0**	**124.0**
Off-Site Motor Vehicle Total		**1.1**	**1.1**	**9.1**	**9.1**	**9.1**	**27.3**	**32.0**	**36.6**	**45.4**	**54.2**	**62.9**	**89.1**	**93.5**	**80.4**	**54.2**

Table 9-J (continued)
Solar Array Construction Monthly Motor Vehicle Fugitive PM2.5 Emissions

Equipment/Vehicle Type	Emission Factor (lb/mile)	Monthly Emissions (lb/month)											
		Month 16	Month 17	Month 18	Month 19	Month 20	Month 21	Month 22	Month 23	Month 24	Month 25	Month 26	Month 27
On-site Vehicles													
On-Site Watering Truck	0.16	62.0	62.0	62.0	31.0	31.0	31.0	31.0	0.0	0.0	0.0	0.0	0.0
On-Site Flatbed Truck	0.16	34.4	34.4	34.4	34.4	34.4	34.4	34.4	0.0	0.0	0.0	0.0	0.0
On-Site Pickup Truck	0.16	27.6	27.6	27.6	27.6	27.6	27.6	27.6	0.0	0.0	0.0	0.0	0.0
Off-Site Vehicles													
Off-Site Flat Bed Trucks	0.00016	3.4	3.4	3.4	3.4	3.4	3.4	3.4	0.0	0.0	0.0	0.0	0.0
Off-Site Cement Trucks	0.00019	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Dump Trucks	0.00019	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0
Off-Site Pickup Trucks	0.00017	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0
Off-Site Pipe Hauling Trucks	0.00019	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0
Off-Site Water Trucks	0.00019	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Construction Worker Commute	0.00017	17.5	10.9	10.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Tractor-Trailer	0.00019	10.3	10.3	10.3	10.3	10.3	10.3	10.3	0.0	0.0	0.0	0.0	0.0
On-Site Motor Vehicle Total		**124.0**	**124.0**	**124.0**	**93.0**	**93.0**	**93.0**	**93.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
Off-Site Motor Vehicle Total		**32.3**	**25.7**	**25.7**	**14.2**	**14.2**	**14.2**	**14.2**	**0.1**	**0.1**	**0.0**	**0.0**	**0.0**

Note: Totals may not match sum of individual values because of rounding.

Table 9-K
Solar Array Construction Monthly Fugitive PM10 and PM2.5 Activities

Activity	Units	Quantity per Month														
		Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12	Month 13	Month 14	Month 15
Excavation	Cu. Yd.	0	0	319,184	319,184	319,184	0	0	0	0	0	0	0	0	0	0
Storage Pile Wind Erosion[a]	Acres-Days	0.00	0.00	45.00	45.00	45.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Bulldozing and Grading	Hours	704	704	704	704	704	132	132	132	132	132	132	132	132	132	132

Table 9-K (continued)
Solar Array Construction Monthly Fugitive PM10 and PM2.5 Activities

Activity	Units	Quantity per Day											
		Month 16	Month 17	Month 18	Month 19	Month 20	Month 21	Month 22	Month 23	Month 24	Month 25	Month 26	Month 27
Excavation	Cu. Yd.	0	0	0	0	0	0	0	0	0	0	0	0
Storage Pile Wind Erosion[a]	Acres-Days	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Bulldozing and Grading	Hours	132	132	132	132	132	132	0	0	0	0	0	0

[a] Based on 30 days per month

Table 9-L
Solar Array Construction Monthly Fugitive PM10 Emissions

Activity	Emission Factor	Emissions (lb/month)														
		Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12	Month 13	Month 14	Month 15
Excavation	9.94E-04	0.0	0.0	317.1	317.1	317.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Storage Pile Wind Erosion	2.9	0.0	0.0	131.7	131.7	131.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bulldozing and Grading	0.348	244.7	244.7	244.7	244.7	244.7	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9
Total		**244.7**	**244.7**	**693.6**	**693.6**	**693.6**	**45.9**	**45.9**	**45.9**	**45.9**	**45.9**	**45.9**	**45.9**	**45.9**	**45.9**	**45.9**

Table 9-L (continued)
Solar Array Construction Monthly Fugitive PM10 Emissions

Activity	Emission Factor	Emissions (lb/month)											
		Month 16	Month 17	Month 18	Month 19	Month 20	Month 21	Month 22	Month 23	Month 24	Month 25	Month 26	Month 27
Excavation	9.94E-04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Storage Pile Wind Erosion	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bulldozing and Grading	0.348	45.9	45.9	45.9	45.9	45.9	45.9	0.0	0.0	0.0	0.0	0.0	0.0
Total		**45.9**	**45.9**	**45.9**	**45.9**	**45.9**	**45.9**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**

Note: Totals may not match sum of individual values because of rounding.

Table 9-M
Solar Array Construction Monthly Fugitive PM2.5 Emissions

Activity	Emission Factor	Emissions (lb/month)														
		Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12	Month 13	Month 14	Month 15
Excavation	2.07E-04	0.0	0.0	66.0	66.0	66.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Storage Pile Wind Erosion	0.6	0.0	0.0	27.4	27.4	27.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bulldozing and Grading	0.072	50.9	50.9	50.9	50.9	50.9	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5
Total		**50.9**	**50.9**	**144.3**	**144.3**	**144.3**	**9.5**	**9.5**	**9.5**	**9.5**	**9.5**	**9.5**	**9.5**	**9.5**	**9.5**	**9.5**

Table 9-M (continued)
Solar Array Construction Monthly Fugitive PM2.5 Emissions

Activity	Emission Factor	Emissions (lb/month)											
		Month 16	Month 17	Month 18	Month 19	Month 20	Month 21	Month 22	Month 23	Month 24	Month 25	Month 26	Month 27
Excavation	2.07E-04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Storage Pile Wind Erosion	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bulldozing and Grading	0.072	9.5	9.5	9.5	9.5	9.5	9.5	0.0	0.0	0.0	0.0	0.0	0.0
Total		**9.5**	**9.5**	**9.5**	**9.5**	**9.5**	**9.5**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**

Note: Totals may not match sum of individual values because of rounding.

Table 10-A
Combined Cycle Facility Construction Equipment and Motor Vehicle Numbers

Equipment/Vehicle Type	Fuel	Hours or Miles/Hour	Monthly Number													
			Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12	Month 13	Month 14
Construction Equipment																
Air Compressor, Ingersoll-Rand	Diesel	1	4	4	4	4	4	4	4	5	5	5	5	5	5	5
Asphalt Paver, Cat A-8008	Diesel	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Backhoe, Cat, 420E	Diesel	1	2	2	2	2	2	2	2	2	2	2	1	1	1	1
Compactor, Cat CS-563	Diesel	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0
Crane, 150-Ton, Manitowoc	Diesel	1	0	0	0	0	1	1	2	2	2	2	2	2	1	1
Crane, 20-Ton, TR400	Diesel	1	0	0	0	1	1	1	1	1	2	2	2	2	2	2
Crane, 225-Ton, Manitowoc, 4100W	Diesel	1	0	0	0	0	0	0	0	1	1	1	1	2	2	2
Crane, 40-Ton, Grove, TR700B	Diesel	1	0	0	1	1	1	2	2	2	2	2	2	3	3	4
Loader, Cat, 938F	Diesel	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0
Motor Grader, Cat 135H	Diesel	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Trencher, Cat 140G	Diesel	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Truck, Concrete Pump, International	Diesel	1	1	2	2	2	2	2	2	1	1	1	1	1	1	1
Welder, Multiquip, BLW-300SS	Diesel	1	1	1	1	2	3	6	9	9	9	9	9	9	8	7
Welder, Multiquip, GA 3800	Gasoline	1	5	5	5	5	7	7	7	7	7	7	8	9	9	9
Motor Vehicles																
On-site Vehicles																
On-Site Welding Truck	Gasoline	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3
On-Site Fuel/Lube Truck	Gasoline	2	1	1	1	1	1	1	1	1	1	2	2	2	2	2
On-Site Flatbed Truck	Gasoline	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3
On-Site Watering Truck	Diesel	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1
On-Site Dump Truck	Diesel	2	1	1	1	1	1	2	2	2	2	2	2	2	2	2
Off-Site Vehicles																
Off-Site Flat Bed Trucks	Gasoline	20	4	4	4	4	4	9	9	15	15	20	20	20	15	15
Off-Site Asphalt Trucks	Diesel	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Off-Site Cement Trucks	Diesel	20	0	0	5	5	5	5	5	6	6	3	1	1	1	1
Off-Site Construction Worker Commute	Gasoline	30	129	148	167	185	204	252	263	267	269	272	272	285	272	259
Off-Site Dump Trucks	Diesel	20	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Off-Site Low Boy Trucks	Diesel	15	0	0	0	0	5	5	5	5	5	0	0	0	0	0
Off-Site Pickup Trucks	Gasoline	20	5	5	5	5	5	5	7	12	12	10	10	10	10	10
Off-Site Pipe Hauling Trucks	Diesel	35	0	0	0	0	0	4	4	8	8	8	8	4	4	4
Off-Site Water Trucks	Diesel	5	1	1	1	1	1	1	1	1	2	2	2	2	2	2
Off-Site Fuel/Lube Trucks	Gasoline	20	2	2	2	2	2	3	3	3	3	3	3	3	3	3

Table 10-A (continued)
Combined Cycle Facility Construction Equipment and Motor Vehicle Numbers

Equipment/Vehicle Type	Fuel	Hours or Miles/Hour	Monthly Number												
			Month 15	Month 16	Month 17	Month 18	Month 19	Month 20	Month 21	Month 22	Month 23	Month 24	Month 25	Month 26	Month 27
Construction Equipment															
Air Compressor, Ingersoll-Rand	Diesel	1	5	5	5	5	6	6	6	6	6	6	6	6	0
Asphalt Paver, Cat A-8008	Diesel	1	0	0	0	0	0	0	0	2	2	2	2	2	0
Backhoe, Cat, 420E	Diesel	1	1	1	1	1	1	1	1	1	0	0	0	0	0
Compactor, Cat CS-563	Diesel	1	0	0	0	0	0	0	1	1	1	1	1	1	0
Crane, 150-Ton, Manitowoc	Diesel	1	1	1	1	1	1	1	1	1	1	1	0	0	0
Crane, 20-Ton, TR400	Diesel	1	2	2	2	2	2	2	2	2	2	2	2	2	2
Crane, 225-Ton, Manitowoc, 4100W	Diesel	1	2	1	1	1	1	1	1	0	0	0	0	0	0
Crane, 40-Ton, Grove, TR700B	Diesel	1	4	2	2	2	2	2	2	2	2	2	2	2	2
Loader, Cat, 938F	Diesel	1	0	0	0	0	0	0	0	0	0	0	0	0	0
Motor Grader, Cat 135H	Diesel	1	1	1	1	0	0	0	0	0	0	0	0	0	0
Trencher, Cat 140G	Diesel	1	1	1	1	1	1	0	0	0	0	0	0	0	0
Truck, Concrete Pump, International	Diesel	1	1	0	0	0	0	0	0	0	0	0	0	0	0
Welder, Multiquip, BLW-300SS	Diesel	1	6	6	6	6	5	5	5	5	5	5	5	5	5
Welder, Multiquip, GA 3800	Gasoline	1	9	9	9	9	9	9	9	8	8	8	8	8	8
Motor Vehicles															
On-site Vehicles															
On-Site Welding Truck	Gasoline	2	3	3	3	3	3	3	3	3	3	3	3	3	3
On-Site Fuel/Lube Truck	Gasoline	2	2	2	2	2	2	2	2	1	1	1	1	1	1
On-Site Flatbed Truck	Gasoline	2	3	3	3	3	3	3	3	3	3	3	3	3	3
On-Site Watering Truck	Diesel	5	1	1	1	1	1	1	1	1	1	1	1	1	1
On-Site Dump Truck	Diesel	2	2	2	2	2	1	1	1	1	1	1	1	1	1
Off-Site Vehicles															
Off-Site Flat Bed Trucks	Gasoline	20	10	10	10	5	5	1	1	1	1	1	1	1	1
Off-Site Asphalt Trucks	Diesel	20	0	0	0	0	0	0	0	2	2	2	2	2	2
Off-Site Cement Trucks	Diesel	20	1	0	0	0	0	0	0	0	0	0	0	0	0
Off-Site Construction Worker Commute	Gasoline	30	227	210	184	181	167	166	152	126	118	106	105	104	99
Off-Site Dump Trucks	Diesel	20	2	2	2	2	2	2	2	2	2	2	2	2	2
Off-Site Low Boy Trucks	Diesel	15	0	0	0	0	0	0	0	0	0	0	0	0	0
Off-Site Pickup Trucks	Gasoline	20	10	5	5	5	5	5	5	5	5	5	3	3	3
Off-Site Pipe Hauling Trucks	Diesel	35	4	4	4	4	1	1	1	0	0	0	0	0	0
Off-Site Water Trucks	Diesel	5	2	2	2	2	2	2	2	1	1	1	1	1	1
Off-Site Fuel/Lube Trucks	Gasoline	20	3	3	2	2	2	2	2	2	2	2	2	2	2

Table 10-B
Combined Cycle Facility Construction Maximum Hourly Construction Equipment and Motor Vehicle Use

Equipment/Vehicle Type	Fuel	Maximum Hourly Operating Hours or Miles[a]														
		Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12	Month 13	Month 14	Month 15
Construction Equipment																
Air Compressor, Ingersoll-Rand	Diesel	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5
Asphalt Paver, Cat A-8008	Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Backhoe, Cat, 420E	Diesel	2	2	2	2	2	2	2	2	2	2	1	1	1	1	1
Compactor, Cat CS-563	Diesel	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0
Crane, 150-Ton, Manitowoc	Diesel	0	0	0	0	1	1	2	2	2	2	2	2	1	1	1
Crane, 20-Ton, TR400	Diesel	0	0	0	1	1	1	1	1	2	2	2	2	2	2	2
Crane, 225-Ton, Manitowoc, 4100W	Diesel	0	0	0	0	0	0	0	1	1	1	1	2	2	2	2
Crane, 40-Ton, Grove, TR700B	Diesel	0	0	1	1	1	2	2	2	2	2	2	3	3	4	4
Loader, Cat, 938F	Diesel	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0
Motor Grader, Cat 135H	Diesel	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Trencher, Cat 140G	Diesel	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Truck, Concrete Pump, International	Diesel	1	2	2	2	2	2	2	1	1	1	1	1	1	1	1
Welder, Multiquip, BLW-300SS	Diesel	1	1	1	2	3	6	9	9	9	9	9	9	8	7	6
Welder, Multiquip, GA 3800	Gasoline	5	5	5	5	7	7	7	7	7	7	8	9	9	9	9
Motor Vehicles																
On-site Vehicles																
On-Site Welding Truck	Gasoline	4	4	4	4	4	4	4	4	4	4	6	6	6	6	6
On-Site Fuel/Lube Truck	Gasoline	2	2	2	2	2	2	2	2	2	4	4	4	4	4	4
On-Site Flatbed Truck	Gasoline	4	4	4	4	4	4	4	4	6	6	6	6	6	6	6
On-Site Watering Truck	Diesel	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
On-Site Dump Truck	Diesel	2	2	2	2	2	4	4	4	4	4	4	4	4	4	4
Off-Site Vehicles																
Off-Site Flat Bed Trucks	Gasoline	80	80	80	80	80	180	180	300	300	400	400	400	300	300	200
Off-Site Asphalt Trucks	Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Off-Site Cement Trucks	Diesel	0	0	100	100	100	100	100	120	120	60	20	20	20	20	20
Off-Site Construction Worker Commute	Gasoline	3,870	4,440	5,010	5,550	6,120	7,560	7,890	8,010	8,070	8,160	8,160	8,550	8,160	7,770	6,810
Off-Site Dump Trucks	Diesel	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
Off-Site Low Boy Trucks	Diesel	0	0	0	0	75	75	75	75	75	0	0	0	0	0	0
Off-Site Pickup Trucks	Gasoline	100	100	100	100	100	100	140	240	240	200	200	200	200	200	200
Off-Site Pipe Hauling Trucks	Diesel	0	0	0	0	0	140	140	280	280	280	280	140	140	140	140
Off-Site Water Trucks	Diesel	5	5	5	5	5	5	5	5	10	10	10	10	10	10	10
Off-Site Fuel/Lube Trucks	Gasoline	40	40	40	40	40	60	60	60	60	60	60	60	60	60	60

Table 10-B (continued)
Combined Cycle Facility Construction Maximum Hourly Construction Equipment and Motor Vehicle Use

Equipment/Vehicle Type	Fuel	Maximum Hourly Operating Hours or Miles											
		Month 16	Month 17	Month 18	Month 19	Month 20	Month 21	Month 22	Month 23	Month 24	Month 25	Month 26	Month 27
Construction Equipment													
Air Compressor, Ingersoll-Rand	Diesel	5	5	5	6	6	6	6	6	6	6	6	0
Asphalt Paver, Cat A-8008	Diesel	0	0	0	0	0	0	2	2	2	2	2	0
Backhoe, Cat, 420E	Diesel	1	1	1	1	1	1	1	0	0	0	0	0
Compactor, Cat CS-563	Diesel	0	0	0	0	0	1	1	1	1	1	1	0
Crane, 150-Ton, Manitowoc	Diesel	1	1	1	1	1	1	1	1	1	0	0	0
Crane, 20-Ton, TR400	Diesel	2	2	2	2	2	2	2	2	2	2	2	2
Crane, 225-Ton, Manitowoc, 4100W	Diesel	1	1	1	1	1	1	0	0	0	0	0	0
Crane, 40-Ton, Grove, TR700B	Diesel	2	2	2	2	2	2	2	2	2	2	2	2
Loader, Cat, 938F	Diesel	0	0	0	0	0	0	0	0	0	0	0	0
Motor Grader, Cat 135H	Diesel	1	1	0	0	0	0	0	0	0	0	0	0
Trencher, Cat 140G	Diesel	1	1	1	1	0	0	0	0	0	0	0	0
Truck, Concrete Pump, International	Diesel	0	0	0	0	0	0	0	0	0	0	0	0
Welder, Multiquip, BLW-300SS	Diesel	6	6	6	5	5	5	5	5	5	5	5	5
Welder, Multiquip, GA 3800	Gasoline	9	9	9	9	9	9	8	8	8	8	8	8
Motor Vehicles													
On-site Vehicles													
On-Site Welding Truck	Gasoline	6	6	6	6	6	6	6	6	6	6	6	6
On-Site Fuel/Lube Truck	Gasoline	4	4	4	4	4	4	2	2	2	2	2	2
On-Site Flatbed Truck	Gasoline	6	6	6	6	6	6	6	6	6	6	6	6
On-Site Watering Truck	Diesel	5	5	5	5	5	5	5	5	5	5	5	5
On-Site Dump Truck	Diesel	4	4	4	2	2	2	2	2	2	2	2	2
Off-Site Vehicles													
Off-Site Flat Bed Trucks	Gasoline	200	200	100	100	20	20	20	20	20	20	20	20
Off-Site Asphalt Trucks	Diesel	0	0	0	0	0	0	40	40	40	40	40	40
Off-Site Cement Trucks	Diesel	0	0	0	0	0	0	0	0	0	0	0	0
Off-Site Construction Worker Commute	Gasoline	6,300	5,520	5,430	5,010	4,980	4,560	3,780	3,540	3,180	3,150	3,120	2,970
Off-Site Dump Trucks	Diesel	40	40	40	40	40	40	40	40	40	40	40	40
Off-Site Low Boy Trucks	Diesel	0	0	0	0	0	0	0	0	0	0	0	0
Off-Site Pickup Trucks	Gasoline	100	100	100	100	100	100	100	100	100	60	60	60
Off-Site Pipe Hauling Trucks	Diesel	140	140	140	35	35	35	0	0	0	0	0	0
Off-Site Water Trucks	Diesel	10	10	10	10	10	10	5	5	5	5	5	5
Off-Site Fuel/Lube Trucks	Gasoline	60	40	40	40	40	40	40	40	40	40	40	40

Table 10-C
Combined Cycle Facility Construction Maximum Hourly Construction Equipment and Motor Vehicle CO Emissions

Equipment/Vehicle Type	Emission Factor (lb/hr or lb/mile)	Maxum Hourly Emissions (lb/hr)														
		Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12	Month 13	Month 14	Month 15
Construction Equipment																
Air Compressor, Ingersoll-Rand	0.3302	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
Asphalt Paver, Cat A-8008	0.5282	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Backhoe, Cat, 420E	0.3664	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.4	0.4	0.4	0.4	0.4
Compactor, Cat CS-563	0.6294	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Crane, 150-Ton, Manitowoc	0.3642	0.0	0.0	0.0	0.0	0.4	0.4	0.7	0.7	0.7	0.7	0.7	0.7	0.4	0.4	0.4
Crane, 20-Ton, TR400	0.3642	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.4	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Crane, 225-Ton, Manitowoc, 4100W	0.7101	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7	1.4	1.4	1.4	1.4
Crane, 40-Ton, Grove, TR700B	0.3642	0.0	0.0	0.4	0.4	0.4	0.7	0.7	0.7	0.7	0.7	0.7	1.1	1.1	1.5	1.5
Loader, Cat, 938F	0.6348	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Motor Grader, Cat 135H	0.7439	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Trencher, Cat 140G	0.4892	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Truck, Concrete Pump, International	0.4516	0.5	0.9	0.9	0.9	0.9	0.9	0.9	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Welder, Multiquip, BLW-300SS	0.0651	0.1	0.1	0.1	0.1	0.2	0.4	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.5	0.4
Welder, Multiquip, GA 3800	3.6411	18.2	18.2	18.2	18.2	25.5	25.5	25.5	25.5	25.5	25.5	29.1	32.8	32.8	32.8	32.8
Construction Equipment Total		**23.3**	**23.7**	**24.1**	**24.5**	**32.2**	**32.2**	**32.7**	**32.7**	**33.0**	**33.0**	**36.3**	**41.0**	**40.6**	**40.9**	**40.8**
Motor Vehicles																
On-site Vehicles																
On-Site Welding Truck	0.0100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1
On-Site Fuel/Lube Truck	0.0100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Flatbed Truck	0.0660	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4
On-Site Watering Truck	0.0104	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
On-Site Dump Truck	0.0104	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Vehicles																
Off-Site Flat Bed Trucks	0.0100	0.8	0.8	0.8	0.8	0.8	1.8	1.8	3.0	3.0	4.0	4.0	4.0	3.0	3.0	2.0
Off-Site Asphalt Trucks	0.0104	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Cement Trucks	0.0104	0.0	0.0	1.0	1.0	1.0	1.0	1.0	1.2	1.2	0.6	0.2	0.2	0.2	0.2	0.2
Off-Site Construction Worker Commute	0.0087	33.8	38.7	43.7	48.4	53.4	65.9	68.8	69.9	70.4	71.2	71.2	74.6	71.2	67.8	59.4
Off-Site Dump Trucks	0.0104	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Off-Site Low Boy Trucks	0.0104	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Pickup Trucks	0.0087	0.9	0.9	0.9	0.9	0.9	0.9	1.2	2.1	2.1	1.7	1.7	1.7	1.7	1.7	1.7
Off-Site Pipe Hauling Trucks	0.0104	0.0	0.0	0.0	0.0	0.0	1.5	1.5	2.9	2.9	2.9	2.9	1.5	1.5	1.5	1.5
Off-Site Water Trucks	0.0104	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Off-Site Fuel/Lube Trucks	0.0100	0.4	0.4	0.4	0.4	0.4	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
On-Site Motor Vehicle Total		**0.4**	**0.4**	**0.4**	**0.4**	**0.4**	**0.4**	**0.4**	**0.4**	**0.5**	**0.6**	**0.6**	**0.6**	**0.6**	**0.6**	**0.6**
Off-Site Motor Vehicle Total		**36.3**	**41.3**	**47.3**	**52.0**	**57.7**	**72.9**	**76.2**	**80.9**	**81.5**	**81.6**	**81.1**	**83.1**	**78.7**	**75.3**	**65.9**

Table 10-C (continued)
Combined Cycle Facility Construction Maximum Hourly Construction Equipment and Motor Vehicle CO Emissions

Equipment/Vehicle Type	Emission Factor (lb/hr or lb/mile)	Maximum Hourly Emissions (lb/month)											
		Month 16	Month 17	Month 18	Month 19	Month 20	Month 21	Month 22	Month 23	Month 24	Month 25	Month 26	Month 27
Construction Equipment													
Air Compressor, Ingersoll-Rand	0.3302	1.7	1.7	1.7	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	0.0
Asphalt Paver, Cat A-8008	0.5282	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	1.1	0.0
Backhoe, Cat, 420E	0.3664	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.0	0.0
Compactor, Cat CS-563	0.6294	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6	0.6	0.6	0.0
Crane, 150-Ton, Manitowoc	0.3642	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0
Crane, 20-Ton, TR400	0.3642	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Crane, 225-Ton, Manitowoc, 4100W	0.7101	0.7	0.7	0.7	0.7	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0
Crane, 40-Ton, Grove, TR700B	0.3642	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Loader, Cat, 938F	0.6348	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Motor Grader, Cat 135H	0.7439	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Trencher, Cat 140G	0.4892	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Truck, Concrete Pump, International	0.4516	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Welder, Multiquip, BLW-300SS	0.0651	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Welder, Multiquip, GA 3800	3.6411	32.8	32.8	32.8	32.8	32.8	32.8	29.1	29.1	29.1	29.1	29.1	29.1
Construction Equipment Total		**38.9**	**38.9**	**38.2**	**38.5**	**38.0**	**38.6**	**35.3**	**34.9**	**34.9**	**34.6**	**34.6**	**30.9**
Motor Vehicles													
On-site Vehicles													
On-Site Welding Truck	0.0100	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
On-Site Fuel/Lube Truck	0.0100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Flatbed Truck	0.0660	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
On-Site Watering Truck	0.0104	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
On-Site Dump Truck	0.0104	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Vehicles													
Off-Site Flat Bed Trucks	0.0100	2.0	2.0	1.0	1.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Off-Site Asphalt Trucks	0.0104	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.4	0.4
Off-Site Cement Trucks	0.0104	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Construction Worker Commute	0.0087	54.9	48.1	47.4	43.7	43.4	39.8	33.0	30.9	27.7	27.5	27.2	25.9
Off-Site Dump Trucks	0.0104	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Off-Site Low Boy Trucks	0.0104	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Pickup Trucks	0.0087	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.5	0.5	0.5
Off-Site Pipe Hauling Trucks	0.0104	1.5	1.5	1.5	0.4	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Water Trucks	0.0104	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Off-Site Fuel/Lube Trucks	0.0100	0.6	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
On-Site Motor Vehicle Total		**0.6**	**0.6**	**0.6**	**0.6**	**0.6**	**0.6**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**
Off-Site Motor Vehicle Total		**60.4**	**53.4**	**51.6**	**46.8**	**45.8**	**42.1**	**35.3**	**33.2**	**30.1**	**29.5**	**29.2**	**27.9**

Note: Totals may not match sum of individual values because of rounding.

Table 10-D
Combined Cycle Facility Construction Maximum Hourly Construction Equipment and Motor Vehicle VOC Emissions

Equipment/Vehicle Type	Emission Factor (lb/hr or lb/mile)	Maxum Hourly Emissions (lb/hr)														
		Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12	Month 13	Month 14	Month 15
Construction Equipment																
Air Compressor, Ingersoll-Rand	0.0986	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Asphalt Paver, Cat A-8008	0.1731	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Backhoe, Cat, 420E	0.1000	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1
Compactor, Cat CS-563	0.1567	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Crane, 150-Ton, Manitowoc	0.1310	0.0	0.0	0.0	0.0	0.1	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.1	0.1	0.1
Crane, 20-Ton, TR400	0.1310	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Crane, 225-Ton, Manitowoc, 4100W	0.1906	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4
Crane, 40-Ton, Grove, TR700B	0.1310	0.0	0.0	0.1	0.1	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.5	0.5
Loader, Cat, 938F	0.1573	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Motor Grader, Cat 135H	0.1857	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Trencher, Cat 140G	0.1593	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Truck, Concrete Pump, International	0.1723	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Welder, Multiquip, BLW-300SS	0.0249	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1
Welder, Multiquip, GA 3800	0.1273	0.6	0.6	0.6	0.6	0.9	0.9	0.9	0.9	0.9	0.9	1.0	1.1	1.1	1.1	1.1
Construction Equipment Total		**2.1**	**2.3**	**2.4**	**2.5**	**3.0**	**3.0**	**3.2**	**3.2**	**3.3**	**3.3**	**3.3**	**3.8**	**3.6**	**3.7**	**3.7**
Motor Vehicles																
On-site Vehicles																
On-Site Welding Truck	0.0010	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Fuel/Lube Truck	0.0010	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Flatbed Truck	0.0040	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Watering Truck	0.0025	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Dump Truck	0.0025	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Vehicles																
Off-Site Flat Bed Trucks	0.0010	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.4	0.4	0.3	0.3	0.2
Off-Site Asphalt Trucks	0.0025	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Cement Trucks	0.0025	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.1	0.0	0.0	0.0	0.0	0.0
Off-Site Construction Worker Commute	0.0008	3.1	3.6	4.0	4.4	4.9	6.1	6.3	6.4	6.5	6.5	6.5	6.9	6.5	6.2	5.5
Off-Site Dump Trucks	0.0025	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Off-Site Low Boy Trucks	0.0025	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Pickup Trucks	0.0008	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Off-Site Pipe Hauling Trucks	0.0025	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.7	0.7	0.7	0.7	0.3	0.3	0.3	0.3
Off-Site Water Trucks	0.0025	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Fuel/Lube Trucks	0.0010	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
On-Site Motor Vehicle Total		**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**
Off-Site Motor Vehicle Total		**3.4**	**3.9**	**4.6**	**5.0**	**5.6**	**7.3**	**7.6**	**8.3**	**8.3**	**8.1**	**8.0**	**8.0**	**7.6**	**7.3**	**6.4**

Table 10-D (continued)
Combined Cycle Facility Construction Maximum Hourly Construction Equipment and Motor Vehicle VOC Emissions

Equipment/Vehicle Type	Emission Factor (lb/hr or lb/mile)	Maximum Hourly Emissions (lb/month)											
		Month 16	Month 17	Month 18	Month 19	Month 20	Month 21	Month 22	Month 23	Month 24	Month 25	Month 26	Month 27
Construction Equipment													
Air Compressor, Ingersoll-Rand	0.0986	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.0
Asphalt Paver, Cat A-8008	0.1731	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.0
Backhoe, Cat, 420E	0.1000	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0
Compactor, Cat CS-563	0.1567	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.0
Crane, 150-Ton, Manitowoc	0.1310	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0
Crane, 20-Ton, TR400	0.1310	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Crane, 225-Ton, Manitowoc, 4100W	0.1906	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0
Crane, 40-Ton, Grove, TR700B	0.1310	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Loader, Cat, 938F	0.1573	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Motor Grader, Cat 135H	0.1857	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Trencher, Cat 140G	0.1593	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Truck, Concrete Pump, International	0.1723	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Welder, Multiquip, BLW-300SS	0.0249	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Welder, Multiquip, GA 3800	0.1273	1.1	1.1	1.1	1.1	1.1	1.1	1.0	1.0	1.0	1.0	1.0	1.0
Construction Equipment Total		**3.1**	**3.1**	**2.9**	**3.0**	**2.8**	**3.0**	**3.0**	**2.9**	**2.9**	**2.8**	**2.8**	**1.7**
Motor Vehicles													
On-site Vehicles													
On-Site Welding Truck	0.0010	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Fuel/Lube Truck	0.0010	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Flatbed Truck	0.0040	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Watering Truck	0.0025	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Dump Truck	0.0025	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Vehicles													
Off-Site Flat Bed Trucks	0.0010	0.2	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Asphalt Trucks	0.0025	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1
Off-Site Cement Trucks	0.0025	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Construction Worker Commute	0.0008	5.0	4.4	4.4	4.0	4.0	3.7	3.0	2.8	2.5	2.5	2.5	2.4
Off-Site Dump Trucks	0.0025	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Off-Site Low Boy Trucks	0.0025	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Pickup Trucks	0.0008	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0
Off-Site Pipe Hauling Trucks	0.0025	0.3	0.3	0.3	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Water Trucks	0.0025	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Fuel/Lube Trucks	0.0010	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Motor Vehicle Total		**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
Off-Site Motor Vehicle Total		**5.9**	**5.2**	**5.0**	**4.4**	**4.3**	**4.0**	**3.4**	**3.2**	**2.9**	**2.8**	**2.8**	**2.7**

Note: Totals may not match sum of individual values because of rounding.

Table 10-E
Combined Cycle Facility Construction Maximum Hourly Construction Equipment and Motor Vehicle NOx Emissions

Equipment/Vehicle Type	Emission Factor (lb/hr or lb/mile)	Maxum Hourly Emissions (lb/hr)														
		Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12	Month 13	Month 14	Month 15
Construction Equipment																
Air Compressor, Ingersoll-Rand	0.5945	2.4	2.4	2.4	2.4	2.4	2.4	2.4	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Asphalt Paver, Cat A-8008	1.0144	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Backhoe, Cat, 420E	0.6082	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	0.6	0.6	0.6	0.6	0.6
Compactor, Cat CS-563	1.2714	1.3	1.3	1.3	1.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Crane, 150-Ton, Manitowoc	1.3109	0.0	0.0	0.0	0.0	1.3	1.3	2.6	2.6	2.6	2.6	2.6	2.6	1.3	1.3	1.3
Crane, 20-Ton, TR400	1.3109	0.0	0.0	0.0	1.3	1.3	1.3	1.3	1.3	2.6	2.6	2.6	2.6	2.6	2.6	2.6
Crane, 225-Ton, Manitowoc, 4100W	1.8726	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	1.9	1.9	1.9	3.7	3.7	3.7	3.7
Crane, 40-Ton, Grove, TR700B	1.3109	0.0	0.0	1.3	1.3	1.3	2.6	2.6	2.6	2.6	2.6	2.6	3.9	3.9	5.2	5.2
Loader, Cat, 938F	1.2278	1.2	1.2	1.2	1.2	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Motor Grader, Cat 135H	1.4427	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
Trencher, Cat 140G	0.9488	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
Truck, Concrete Pump, International	1.7369	1.7	3.5	3.5	3.5	3.5	3.5	3.5	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
Welder, Multiquip, BLW-300SS	0.1085	0.1	0.1	0.1	0.2	0.3	0.7	1.0	1.0	1.0	1.0	1.0	1.0	0.9	0.8	0.7
Welder, Multiquip, GA 3800	0.0533	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.5
Construction Equipment Total		**10.6**	**12.3**	**13.6**	**15.1**	**16.6**	**17.0**	**18.6**	**18.1**	**19.4**	**19.4**	**18.9**	**22.1**	**20.7**	**21.9**	**21.8**
Motor Vehicles																
On-site Vehicles																
On-Site Welding Truck	0.0014	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Fuel/Lube Truck	0.0014	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Flatbed Truck	0.0100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1
On-Site Watering Truck	0.0370	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
On-Site Dump Truck	0.0370	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Off-Site Vehicles																
Off-Site Flat Bed Trucks	0.0014	0.1	0.1	0.1	0.1	0.1	0.3	0.3	0.4	0.4	0.6	0.6	0.6	0.4	0.4	0.3
Off-Site Asphalt Trucks	0.0370	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Cement Trucks	0.0370	0.0	0.0	3.7	3.7	3.7	3.7	3.7	4.4	4.4	2.2	0.7	0.7	0.7	0.7	0.7
Off-Site Construction Worker Commute	0.0007	2.9	3.3	3.7	4.1	4.5	5.6	5.8	5.9	6.0	6.0	6.0	6.3	6.0	5.7	5.0
Off-Site Dump Trucks	0.0370	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Off-Site Low Boy Trucks	0.0370	0.0	0.0	0.0	0.0	2.8	2.8	2.8	2.8	2.8	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Pickup Trucks	0.0007	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1
Off-Site Pipe Hauling Trucks	0.0370	0.0	0.0	0.0	0.0	0.0	5.2	5.2	10.4	10.4	10.4	10.4	5.2	5.2	5.2	5.2
Off-Site Water Trucks	0.0370	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Off-Site Fuel/Lube Trucks	0.0014	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
On-Site Motor Vehicle Total		**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.4**	**0.4**	**0.4**	**0.4**	**0.4**	**0.4**	**0.4**	**0.4**	**0.4**	**0.4**
Off-Site Motor Vehicle Total		**4.8**	**5.2**	**9.3**	**9.7**	**12.9**	**19.3**	**19.6**	**25.9**	**26.1**	**21.3**	**19.8**	**14.9**	**14.5**	**14.2**	**13.3**

Table 10-E (continued)

Combined Cycle Facility Construction Maximum Hourly Construction Equipment and Motor Vehicle NOx Emissions

Equipment/Vehicle Type	Emission Factor (lb/hr or lb/mile)	Maximum Hourly Emissions (lb/month)											
		Month 16	Month 17	Month 18	Month 19	Month 20	Month 21	Month 22	Month 23	Month 24	Month 25	Month 26	Month 27
Construction Equipment													
Air Compressor, Ingersoll-Rand	0.5945	3.0	3.0	3.0	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	0.0
Asphalt Paver, Cat A-8008	1.0144	0.0	0.0	0.0	0.0	0.0	0.0	2.0	2.0	2.0	2.0	2.0	0.0
Backhoe, Cat, 420E	0.6082	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0
Compactor, Cat CS-563	1.2714	0.0	0.0	0.0	0.0	0.0	1.3	1.3	1.3	1.3	1.3	1.3	0.0
Crane, 150-Ton, Manitowoc	1.3109	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	0.0	0.0	0.0
Crane, 20-Ton, TR400	1.3109	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
Crane, 225-Ton, Manitowoc, 4100W	1.8726	1.9	1.9	1.9	1.9	1.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0
Crane, 40-Ton, Grove, TR700B	1.3109	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
Loader, Cat, 938F	1.2278	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Motor Grader, Cat 135H	1.4427	1.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Trencher, Cat 140G	0.9488	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Truck, Concrete Pump, International	1.7369	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Welder, Multiquip, BLW-300SS	0.1085	0.7	0.7	0.7	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Welder, Multiquip, GA 3800	0.0533	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4
Construction Equipment Total		**15.5**	**15.5**	**14.1**	**14.6**	**13.6**	**14.9**	**15.0**	**14.4**	**14.4**	**13.1**	**13.1**	**6.2**
Motor Vehicles													
On-site Vehicles													
On-Site Welding Truck	0.0014	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Fuel/Lube Truck	0.0014	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Flatbed Truck	0.0100	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
On-Site Watering Truck	0.0370	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
On-Site Dump Truck	0.0370	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Off-Site Vehicles													
Off-Site Flat Bed Trucks	0.0014	0.3	0.3	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Asphalt Trucks	0.0370	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5	1.5	1.5
Off-Site Cement Trucks	0.0370	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Construction Worker Commute	0.0007	4.7	4.1	4.0	3.7	3.7	3.4	2.8	2.6	2.4	2.3	2.3	2.2
Off-Site Dump Trucks	0.0370	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Off-Site Low Boy Trucks	0.0370	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Pickup Trucks	0.0007	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0
Off-Site Pipe Hauling Trucks	0.0370	5.2	5.2	5.2	1.3	1.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Water Trucks	0.0370	0.4	0.4	0.4	0.4	0.4	0.4	0.2	0.2	0.2	0.2	0.2	0.2
Off-Site Fuel/Lube Trucks	0.0014	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
On-Site Motor Vehicle Total		**0.4**	**0.4**	**0.4**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**
Off-Site Motor Vehicle Total		**12.1**	**11.5**	**11.3**	**7.1**	**7.0**	**6.7**	**6.1**	**5.9**	**5.7**	**5.6**	**5.6**	**5.5**

Note: Totals may not match sum of individual values because of rounding.

Table 10-F

Combined Cycle Facility Construction Maximum Hourly Construction Equipment and Motor Vehicle SOx Emissions

Equipment/Vehicle Type	Emission Factor (lb/hr or lb/mile)	Maxum Hourly Emissions (lb/hr)														
		Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12	Month 13	Month 14	Month 15
Construction Equipment																
Air Compressor, Ingersoll-Rand	0.00055	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Asphalt Paver, Cat A-8008	0.00081	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Backhoe, Cat, 420E	0.00061	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Compactor, Cat CS-563	0.00122	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Crane, 150-Ton, Manitowoc	0.00126	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Crane, 20-Ton, TR400	0.00126	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Crane, 225-Ton, Manitowoc, 4100W	0.00177	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Crane, 40-Ton, Grove, TR700B	0.00126	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Loader, Cat, 938F	0.00120	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Motor Grader, Cat 135H	0.00139	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Trencher, Cat 140G	0.00076	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Truck, Concrete Pump, International	0.00187	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Welder, Multiquip, BLW-300SS	0.00014	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Welder, Multiquip, GA 3800	0.00015	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Construction Equipment Total		**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
Motor Vehicles																
On-site Vehicles																
On-Site Welding Truck	0.00002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Fuel/Lube Truck	0.00002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Flatbed Truck	0.00000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Watering Truck	0.00007	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Dump Truck	0.00007	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Vehicles																
Off-Site Flat Bed Trucks	0.00002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Asphalt Trucks	0.00007	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Cement Trucks	0.00007	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Construction Worker Commute	0.00000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Dump Trucks	0.00007	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Low Boy Trucks	0.00007	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Pickup Trucks	0.00000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Pipe Hauling Trucks	0.00007	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Water Trucks	0.00007	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Fuel/Lube Trucks	0.00002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Motor Vehicle Total		**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
Off-Site Motor Vehicle Total		**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**

Table 10-F (continued)

Combined Cycle Facility Construction Maximum Hourly Construction Equipment and Motor Vehicle SOx Emissions

Equipment/Vehicle Type	Emission Factor (lb/hr or lb/mile)	Maximum Hourly Emissions (lb/month)											
		Month 16	Month 17	Month 18	Month 19	Month 20	Month 21	Month 22	Month 23	Month 24	Month 25	Month 26	Month 27
Construction Equipment													
Air Compressor, Ingersoll-Rand	0.00055	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Asphalt Paver, Cat A-8008	0.00081	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Backhoe, Cat, 420E	0.00061	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Compactor, Cat CS-563	0.00122	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Crane, 150-Ton, Manitowoc	0.00126	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Crane, 20-Ton, TR400	0.00126	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Crane, 225-Ton, Manitowoc, 4100W	0.00177	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Crane, 40-Ton, Grove, TR700B	0.00126	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Loader, Cat, 938F	0.00120	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Motor Grader, Cat 135H	0.00139	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Trencher, Cat 140G	0.00076	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Truck, Concrete Pump, International	0.00187	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Welder, Multiquip, BLW-300SS	0.00014	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Welder, Multiquip, GA 3800	0.00015	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Construction Equipment Total		**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
Motor Vehicles													
On-site Vehicles													
On-Site Welding Truck	0.00002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Fuel/Lube Truck	0.00002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Flatbed Truck	0.00000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Watering Truck	0.00007	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Dump Truck	0.00007	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Vehicles													
Off-Site Flat Bed Trucks	0.00002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Asphalt Trucks	0.00007	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Cement Trucks	0.00007	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Construction Worker Commute	0.00000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Dump Trucks	0.00007	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Low Boy Trucks	0.00007	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Pickup Trucks	0.00000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Pipe Hauling Trucks	0.00007	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Water Trucks	0.00007	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Fuel/Lube Trucks	0.00002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Motor Vehicle Total		**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
Off-Site Motor Vehicle Total		**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**

Note: Totals may not match sum of individual values because of rounding.

Table 10-G
Combined Cycle Facility Construction Maximum Hourly Construction Equipment and Motor Vehicle Exhaust PM10 Emissions

Equipment/Vehicle Type	Emission Factor (lb/hr or lb/mile)	Maxum Hourly Emissions (lb/hr)														
		Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12	Month 13	Month 14	Month 15
Construction Equipment																
Air Compressor, Ingersoll-Rand	0.05268	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Asphalt Paver, Cat A-8008	0.08908	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Backhoe, Cat, 420E	0.05583	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Compactor, Cat CS-563	0.06886	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Crane, 150-Ton, Manitowoc	0.04990	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0
Crane, 20-Ton, TR400	0.04990	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Crane, 225-Ton, Manitowoc, 4100W	0.07225	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Crane, 40-Ton, Grove, TR700B	0.04990	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2
Loader, Cat, 938F	0.07020	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Motor Grader, Cat 135H	0.08278	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Trencher, Cat 140G	0.08078	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Truck, Concrete Pump, International	0.06130	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Welder, Multiquip, BLW-300SS	0.00764	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0
Welder, Multiquip, GA 3800	0.04210	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4
Construction Equipment Total		**0.9**	**1.0**	**1.0**	**1.1**	**1.2**	**1.2**	**1.3**	**1.3**	**1.3**	**1.3**	**1.3**	**1.5**	**1.4**	**1.5**	**1.5**
Motor Vehicles																
On-site Vehicles																
On-Site Welding Truck	0.00004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Fuel/Lube Truck	0.00004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Flatbed Truck	0.00000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Watering Truck	0.00154	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Dump Truck	0.00154	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Vehicles																
Off-Site Flat Bed Trucks	0.00004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Asphalt Trucks	0.00154	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Cement Trucks	0.00154	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.0	0.0	0.0	0.0	0.0
Off-Site Construction Worker Commute	0.00003	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.2	0.2
Off-Site Dump Trucks	0.00154	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Off-Site Low Boy Trucks	0.00154	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Pickup Trucks	0.00003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Pipe Hauling Trucks	0.00154	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.4	0.4	0.4	0.4	0.2	0.2	0.2	0.2
Off-Site Water Trucks	0.00154	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Fuel/Lube Trucks	0.00004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Motor Vehicle Total		**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
Off-Site Motor Vehicle Total		**0.2**	**0.2**	**0.4**	**0.4**	**0.5**	**0.8**	**0.8**	**1.1**	**1.1**	**0.9**	**0.8**	**0.6**	**0.6**	**0.6**	**0.5**

Table 10-G (continued)
Combined Cycle Facility Construction Maximum Hourly Construction Equipment and Motor Vehicle Exhaust PM10 Emissions

Equipment/Vehicle Type	Emission Factor (lb/hr or lb/mile)	Maximum Hourly Emissions (lb/month)											
		Month 16	Month 17	Month 18	Month 19	Month 20	Month 21	Month 22	Month 23	Month 24	Month 25	Month 26	Month 27
Construction Equipment													
Air Compressor, Ingersoll-Rand	0.05268	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0
Asphalt Paver, Cat A-8008	0.08908	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.0
Backhoe, Cat, 420E	0.05583	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0
Compactor, Cat CS-563	0.06886	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.0
Crane, 150-Ton, Manitowoc	0.04990	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Crane, 20-Ton, TR400	0.04990	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Crane, 225-Ton, Manitowoc, 4100W	0.07225	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Crane, 40-Ton, Grove, TR700B	0.04990	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Loader, Cat, 938F	0.07020	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Motor Grader, Cat 135H	0.08278	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Trencher, Cat 140G	0.08078	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Truck, Concrete Pump, International	0.06130	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Welder, Multiquip, BLW-300SS	0.00764	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Welder, Multiquip, GA 3800	0.04210	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3
Construction Equipment Total		**1.2**	**1.2**	**1.1**	**1.2**	**1.1**	**1.2**	**1.2**	**1.2**	**1.2**	**1.1**	**1.1**	**0.6**
Motor Vehicles													
On-site Vehicles													
On-Site Welding Truck	0.00004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Fuel/Lube Truck	0.00004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Flatbed Truck	0.00000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Watering Truck	0.00154	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Dump Truck	0.00154	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Vehicles													
Off-Site Flat Bed Trucks	0.00004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Asphalt Trucks	0.00154	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1
Off-Site Cement Trucks	0.00154	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Construction Worker Commute	0.00003	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Off-Site Dump Trucks	0.00154	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Off-Site Low Boy Trucks	0.00154	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Pickup Trucks	0.00003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Pipe Hauling Trucks	0.00154	0.2	0.2	0.2	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Water Trucks	0.00154	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Fuel/Lube Trucks	0.00004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Motor Vehicle Total		**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
Off-Site Motor Vehicle Total		**0.5**	**0.5**	**0.5**	**0.3**	**0.3**	**0.3**	**0.3**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**

Note: Totals may not match sum of individual values because of rounding.

Table 10-H

Combined Cycle Facility Construction Maximum Hourly Construction Equipment and Motor Vehicle Exhaust PM2.5 Emissions

Equipment/Vehicle Type	Emission Factor (lb/hr or lb/mile)	Maxum Hourly Emissions (lb/hr)														
		Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12	Month 13	Month 14	Month 15
Construction Equipment																
Air Compressor, Ingersoll-Rand	0.04847	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Asphalt Paver, Cat A-8008	0.08195	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Backhoe, Cat, 420E	0.05137	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Compactor, Cat CS-563	0.06335	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Crane, 150-Ton, Manitowoc	0.04591	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0
Crane, 20-Ton, TR400	0.04591	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Crane, 225-Ton, Manitowoc, 4100W	0.06647	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Crane, 40-Ton, Grove, TR700B	0.04591	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2
Loader, Cat, 938F	0.06458	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Motor Grader, Cat 135H	0.07616	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Trencher, Cat 140G	0.07432	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Truck, Concrete Pump, International	0.05639	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Welder, Multiquip, BLW-300SS	0.00703	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0
Welder, Multiquip, GA 3800	0.03183	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3
Construction Equipment Total		**0.8**	**0.9**	**0.9**	**1.0**	**1.1**	**1.1**	**1.1**	**1.1**	**1.2**	**1.2**	**1.2**	**1.3**	**1.3**	**1.3**	**1.3**
Motor Vehicles																
On-site Vehicles																
On-Site Welding Truck	0.00004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Fuel/Lube Truck	0.00004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Flatbed Truck	0.00000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Watering Truck	0.00142	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Dump Truck	0.00142	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Vehicles																
Off-Site Flat Bed Trucks	0.00004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Asphalt Trucks	0.00142	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Cement Trucks	0.00142	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.0	0.0	0.0	0.0	0.0
Off-Site Construction Worker Commute	0.00003	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Off-Site Dump Trucks	0.00142	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Off-Site Low Boy Trucks	0.00142	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Pickup Trucks	0.00003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Pipe Hauling Trucks	0.00142	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.4	0.4	0.4	0.4	0.2	0.2	0.2	0.2
Off-Site Water Trucks	0.00142	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Fuel/Lube Trucks	0.00004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Motor Vehicle Total		**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
Off-Site Motor Vehicle Total		**0.2**	**0.2**	**0.4**	**0.4**	**0.5**	**0.8**	**0.8**	**1.0**	**1.0**	**0.8**	**0.8**	**0.6**	**0.6**	**0.6**	**0.5**

Table 10-H (continued)
Combined Cycle Facility Construction Maximum Hourly Construction Equipment and Motor Vehicle Exhaust PM2.5 Emissions

Equipment/Vehicle Type	Emission Factor (lb/hr or lb/mile)	Maximum Hourly Emissions (lb/month)											
		Month 16	Month 17	Month 18	Month 19	Month 20	Month 21	Month 22	Month 23	Month 24	Month 25	Month 26	Month 27
Construction Equipment													
Air Compressor, Ingersoll-Rand	0.04847	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0
Asphalt Paver, Cat A-8008	0.08195	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.0
Backhoe, Cat, 420E	0.05137	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0
Compactor, Cat CS-563	0.06335	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.0
Crane, 150-Ton, Manitowoc	0.04591	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Crane, 20-Ton, TR400	0.04591	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Crane, 225-Ton, Manitowoc, 4100W	0.06647	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Crane, 40-Ton, Grove, TR700B	0.04591	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Loader, Cat, 938F	0.06458	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Motor Grader, Cat 135H	0.07616	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Trencher, Cat 140G	0.07432	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Truck, Concrete Pump, International	0.05639	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Welder, Multiquip, BLW-300SS	0.00703	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Welder, Multiquip, GA 3800	0.03183	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Construction Equipment Total		**1.1**	**1.1**	**1.0**	**1.0**	**1.0**	**1.0**	**1.1**	**1.0**	**1.0**	**1.0**	**1.0**	**0.5**
Motor Vehicles													
On-site Vehicles													
On-Site Welding Truck	0.00004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Fuel/Lube Truck	0.00004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Flatbed Truck	0.00000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Watering Truck	0.00142	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Dump Truck	0.00142	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Vehicles													
Off-Site Flat Bed Trucks	0.00004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Asphalt Trucks	0.00142	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1
Off-Site Cement Trucks	0.00142	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Construction Worker Commute	0.00003	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Off-Site Dump Trucks	0.00142	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Off-Site Low Boy Trucks	0.00142	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Pickup Trucks	0.00003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Pipe Hauling Trucks	0.00142	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Water Trucks	0.00142	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Fuel/Lube Trucks	0.00004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Motor Vehicle Total		**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
Off-Site Motor Vehicle Total		**0.5**	**0.5**	**0.4**	**0.3**	**0.3**	**0.3**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**

Note: Totals may not match sum of individual values because of rounding.

Table 10-I
Combined Cycle Facility Construction Maximum Hourly Motor Vehicle Fugitive PM10 Emissions

Vehicle Type	Emission Factor (lb/mile)	Maxum Hourly Emissions (lb/hr)														
		Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12	Month 13	Month 14	Month 15
On-site Vehicles																
On-Site Welding Truck	0.74	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	4.4	4.4	4.4	4.4	4.4
On-Site Fuel/Lube Truck	0.74	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	3.0	3.0	3.0	3.0	3.0	3.0
On-Site Flatbed Truck	0.74	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	4.4	4.4	4.4	4.4	4.4	4.4	4.4
On-Site Watering Truck	0.74	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
On-Site Dump Truck	0.74	1.5	1.5	1.5	1.5	1.5	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Off-Site Vehicles																
Off-Site Flat Bed Trucks	0.00090	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.4	0.4	0.3	0.3	0.2
Off-Site Asphalt Trucks	0.00100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Cement Trucks	0.00100	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0
Off-Site Construction Worker Commute	0.00092	3.6	4.1	4.6	5.1	5.6	6.9	7.2	7.4	7.4	7.5	7.5	7.8	7.5	7.1	6.3
Off-Site Dump Trucks	0.00100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Low Boy Trucks	0.00100	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Pickup Trucks	0.00092	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Off-Site Pipe Hauling Trucks	0.00100	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.3	0.3	0.3	0.3	0.1	0.1	0.1	0.1
Off-Site Water Trucks	0.00100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Fuel/Lube Trucks	0.00090	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
On-Site Motor Vehicle Total		**12.6**	**12.6**	**12.6**	**12.6**	**12.6**	**14.0**	**14.0**	**14.0**	**15.5**	**17.0**	**18.5**	**18.5**	**18.5**	**18.5**	**18.5**
Off-Site Motor Vehicle Total		**3.8**	**4.3**	**4.9**	**5.4**	**6.0**	**7.6**	**7.9**	**8.4**	**8.5**	**8.5**	**8.4**	**8.7**	**8.2**	**7.8**	**6.9**

Table 10-I (continued)
Combined Cycle Facility Construction Maximum Hourly Motor Vehicle Fugitive PM10 Emissions

Equipment/Vehicle Type	Emission Factor (lb/mile)	Maximum Hourly Emissions (lb/hr)											
		Month 16	Month 17	Month 18	Month 19	Month 20	Month 21	Month 22	Month 23	Month 24	Month 25	Month 26	Month 27
On-site Vehicles													
On-Site Welding Truck	0.74	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
On-Site Fuel/Lube Truck	0.74	3.0	3.0	3.0	3.0	3.0	3.0	1.5	1.5	1.5	1.5	1.5	1.5
On-Site Flatbed Truck	0.74	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
On-Site Watering Truck	0.74	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
On-Site Dump Truck	0.74	3.0	3.0	3.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Off-Site Vehicles													
Off-Site Flat Bed Trucks	0.00090	0.2	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Asphalt Trucks	0.00100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Cement Trucks	0.00100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Construction Worker Commute	0.00092	5.8	5.1	5.0	4.6	4.6	4.2	3.5	3.2	2.9	2.9	2.9	2.7
Off-Site Dump Trucks	0.00100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Low Boy Trucks	0.00100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Pickup Trucks	0.00092	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Off-Site Pipe Hauling Trucks	0.00100	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Water Trucks	0.00100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Fuel/Lube Trucks	0.00090	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Motor Vehicle Total		**18.5**	**18.5**	**18.5**	**17.0**	**17.0**	**17.0**	**15.5**	**15.5**	**15.5**	**15.5**	**15.5**	**15.5**
Off-Site Motor Vehicle Total		**6.3**	**5.6**	**5.4**	**4.9**	**4.8**	**4.4**	**3.7**	**3.5**	**3.1**	**3.1**	**3.1**	**2.9**

Note: Totals may not match sum of individual values because of rounding.

Table 10-J
Combined Cycle Facility Construction Maximum Hourly Motor Vehicle Fugitive PM2.5 Emissions

Vehicle Type	Emission Factor (lb/mile)	Maxum Hourly Emissions (lb/hr)														
		Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12	Month 13	Month 14	Month 15
On-site Vehicles																
On-Site Welding Truck	0.16	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.9	0.9	0.9	0.9	0.9
On-Site Fuel/Lube Truck	0.16	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.6	0.6	0.6	0.6	0.6	0.6
On-Site Flatbed Truck	0.16	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.9	0.9	0.9	0.9	0.9	0.9	0.9
On-Site Watering Truck	0.16	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
On-Site Dump Truck	0.16	0.3	0.3	0.3	0.3	0.3	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Off-Site Vehicles																
Off-Site Flat Bed Trucks	0.00016	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.0
Off-Site Asphalt Trucks	0.00019	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Cement Trucks	0.00019	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Construction Worker Commute	0.00017	0.6	0.7	0.8	0.9	1.0	1.3	1.3	1.3	1.3	1.4	1.4	1.4	1.4	1.3	1.1
Off-Site Dump Trucks	0.00019	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Low Boy Trucks	0.00019	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Pickup Trucks	0.00017	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Pipe Hauling Trucks	0.00019	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0
Off-Site Water Trucks	0.00019	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Fuel/Lube Trucks	0.00016	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Motor Vehicle Total		**2.7**	**2.7**	**2.7**	**2.7**	**2.7**	**3.0**	**3.0**	**3.0**	**3.3**	**3.6**	**3.9**	**3.9**	**3.9**	**3.9**	**3.9**
Off-Site Motor Vehicle Total		**0.7**	**0.8**	**0.9**	**1.0**	**1.1**	**1.4**	**1.4**	**1.5**	**1.5**	**1.5**	**1.5**	**1.6**	**1.5**	**1.4**	**1.2**

Table 10-J (continued)
Combined Cycle Facility Construction Maximum Hourly Motor Vehicle Fugitive PM2.5 Emissions

Equipment/Vehicle Type	Emission Factor (lb/mile)	Maximum Hourly Emissions (lb/hr)											
		Month 16	Month 17	Month 18	Month 19	Month 20	Month 21	Month 22	Month 23	Month 24	Month 25	Month 26	Month 27
On-site Vehicles													
On-Site Welding Truck	0.16	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
On-Site Fuel/Lube Truck	0.16	0.6	0.6	0.6	0.6	0.6	0.6	0.3	0.3	0.3	0.3	0.3	0.3
On-Site Flatbed Truck	0.16	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
On-Site Watering Truck	0.16	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
On-Site Dump Truck	0.16	0.6	0.6	0.6	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Off-Site Vehicles													
Off-Site Flat Bed Trucks	0.00016	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Asphalt Trucks	0.00019	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Cement Trucks	0.00019	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Construction Worker Commute	0.00017	1.0	0.9	0.9	0.8	0.8	0.8	0.6	0.6	0.5	0.5	0.5	0.5
Off-Site Dump Trucks	0.00019	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Low Boy Trucks	0.00019	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Pickup Trucks	0.00017	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Pipe Hauling Trucks	0.00019	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Water Trucks	0.00019	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Fuel/Lube Trucks	0.00016	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Motor Vehicle Total		**3.9**	**3.9**	**3.9**	**3.6**	**3.6**	**3.6**	**3.3**	**3.3**	**3.3**	**3.3**	**3.3**	**3.3**
Off-Site Motor Vehicle Total		**1.1**	**1.0**	**1.0**	**0.9**	**0.9**	**0.8**	**0.7**	**0.6**	**0.6**	**0.6**	**0.6**	**0.5**

Note: Totals may not match sum of individual values because of rounding.

Table 10-K
Combined Cycle Facility Construction Maximum Hourly Fugitive PM10 and PM2.5 Activities

Activity	Units	Quantity per Hour														
		Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12	Month 13	Month 14	Month 15
Excavation	Cu. Yd.	1,478	1,478	0	0	0	0	0	0	0	0	0	0	0	0	0
Storage Pile Wind Erosion[a]	Acre-Hours	1.50	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Bulldozing and Grading	Hours	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

Table 10-K (continued)
Combined Cycle Facility Construction Maximum Hourly Fugitive PM10 and PM2.5 Activities

Activity	Units	Quantity per Hour											
		Month 16	Month 17	Month 18	Month 19	Month 20	Month 21	Month 22	Month 23	Month 24	Month 25	Month 26	Month 27
Excavation	Cu. Yd.	0	0	0	0	0	0	0	0	0	0	0	0
Storage Pile Wind Erosion[a]	Acre-Hours	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Bulldozing and Grading	Hours	1	1	0	0	0	0	0	0	0	0	0	0

[a] Based on 30 days per month

Table 10-L
Combined Cycle Facility Construction Maximum Hourly Fugitive PM10 Emissions

Activity	Emission Factor	Emissions (lb/hr)														
		Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12	Month 13	Month 14	Month 15
Excavation	9.94E-04	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Storage Pile Wind Erosion	0.122	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bulldozing and Grading	0.348	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Total		**2.0**	**2.0**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**

Table 10-L (continued)
Combined Cycle Facility Construction Maximum Hourly Fugitive PM10 Emissions

Activity	Emission Factor	Emissions (lb/hr)											
		Month 16	Month 17	Month 18	Month 19	Month 20	Month 21	Month 22	Month 23	Month 24	Month 25	Month 26	Month 27
Excavation	9.94E-04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Storage Pile Wind Erosion	0.122	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bulldozing and Grading	0.348	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total		**0.3**	**0.3**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**

Note: Totals may not match sum of individual values because of rounding.

Table 10-M
Combined Cycle Facility Construction Maximum Hourly Fugitive PM2.5 Emissions

Activity	Emission Factor	Emissions (lb/hr)														
		Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12	Month 13	Month 14	Month 15
Excavation	2.07E-04	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Storage Pile Wind Erosion	0.025	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bulldozing and Grading	0.072	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Total		**0.4**	**0.4**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**

Table 10-M (continued)
Combined Cycle Facility Construction Maximum Hourly Fugitive PM2.5 Emissions

Activity	Emission Factor	Emissions (lb/hr)											
		Month 16	Month 17	Month 18	Month 19	Month 20	Month 21	Month 22	Month 23	Month 24	Month 25	Month 26	Month 27
Excavation	2.07E-04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Storage Pile Wind Erosion	0.025	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bulldozing and Grading	0.072	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total		**0.1**	**0.1**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**

Note: Totals may not match sum of individual values because of rounding.

Table 11-A
Solar Array Construction Equipment and Motor Vehicle Numbers

Equipment/Vehicle Type	Fuel	Hours or Miles/Hour	Monthly Number													
			Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12	Month 13	Month 14
Construction Equipment																
Air Compressor, Ingersoll-Rand	Diesel	1	0	0	0	0	0	1	1	3	6	6	6	6	6	6
Crane, 20-Ton, TR400	Diesel	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Welder, Multiquip, GA 3800	Gasoline	1	0	0	0	0	0	0	6	9	9	12	12	12	12	12
Welder, Multiquip, BLW-300SS	Diesel	1	0	0	0	0	0	0	2	2	4	4	6	6	6	6
Backhoe, Cat, 420E	Diesel	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Trencher, Cat 140G	Diesel	1	0	0	0	0	0	0	1	1	1	0	0	0	0	0
Motor Grader, Cat 135H	Diesel	1	0	0	0	0	0	0	1	1	1	1	1	1	1	1
Scraper, CAT 657G, Tractor Engine	Diesel	1	0	4	4	4	4	4	0	0	0	0	0	0	0	0
Scraper, CAT 657G, Scraper Engine	Diesel	1	0	4	4	4	4	4	0	0	0	0	0	0	0	0
Pipelayer, Cat 561N	Diesel	1	0	0	0	0	0	0	0	0	2	2	2	2	2	2
Truck, Concrete Pump, International	Diesel	1	0	0	0	0	0	0	3	5	6	6	6	6	6	6
Motor Vehicles																
On-site Vehicles																
On-Site Watering Truck	Diesel	4	0	8	8	8	8	8	3	3	3	3	3	3	2	2
On-Site Flatbed Truck	Gasoline	2	0	0	0	0	0	0	1	1	2	2	2	2	2	2
On-Site Pickup Truck	Gasoline	2	1	1	1	1	1	1	1	1	2	2	2	2	2	2
Off-Site Vehicles																
Off-Site Flat Bed Trucks	Gasoline	35	0	0	0	0	0	6	6	6	6	6	6	6	6	6
Off-Site Cement Trucks	Diesel	20	0	0	0	0	0	0	3	5	6	6	6	6	6	6
Off-Site Dump Trucks	Diesel	35	0	0	0	0	0	2	2	2	2	2	2	2	2	2
Off-Site Pickup Trucks	Gasoline	20	0	0	2	2	2	2	2	2	2	2	2	2	2	2
Off-Site Pipe Hauling Trucks	Diesel	14	0	0	0	0	0	2	2	2	2	2	2	2	2	2
Off-Site Water Trucks	Diesel	5	0	0	10	10	10	0	3	3	3	3	3	3	3	3
Off-Site Construction Worker Commute	Gasoline	35	5	5	40	40	40	60	80	100	140	180	220	340	360	300
Off-Site Tractor-Trailer	Diesel	35	0	0	0	0	0	12	12	12	12	12	12	12	12	12

Table 11-A (continued)
Solar Array Construction Equipment and Motor Vehicle Numbers

Equipment/Vehicle Type	Fuel	Hours or Miles/Hour	Monthly Number												
			Month 15	Month 16	Month 17	Month 18	Month 19	Month 20	Month 21	Month 22	Month 23	Month 24	Month 25	Month 26	Month 27
Construction Equipment															
Air Compressor, Ingersoll-Rand	Diesel	1	6	3	3	3	3	3	3	3	0	0	0	0	0
Crane, 20-Ton, TR400	Diesel	1	0	0	1	1	1	0	0	0	0	0	0	0	0
Welder, Multiquip, GA 3800	Gasoline	1	12	9	9	9	6	6	6	6	0	0	0	0	0
Welder, Multiquip, BLW-300SS	Diesel	1	6	6	6	6	6	6	4	2	0	0	0	0	0
Backhoe, Cat, 420E	Diesel	1	1	1	1	1	0	0	0	0	0	0	0	0	0
Trencher, Cat 140G	Diesel	1	0	0	1	0	0	0	0	0	0	0	0	0	0
Motor Grader, Cat 135H	Diesel	1	1	1	1	1	1	1	1	1	0	0	0	0	0
Scraper, CAT 657G, Tractor Engine	Diesel	1	0	0	0	0	0	0	0	0	0	0	0	0	0
Scraper, CAT 657G, Scraper Engine	Diesel	1	0	0	0	0	0	0	0	0	0	0	0	0	0
Pipelayer, Cat 561N	Diesel	1	2	2	2	2	0	0	0	0	0	0	0	0	0
Truck, Concrete Pump, International	Diesel	1	6	6	6	6	0	0	0	0	0	0	0	0	0
Motor Vehicles															
On-site Vehicles															
On-Site Watering Truck	Diesel	4	2	2	2	2	1	1	1	1	0	0	0	0	0
On-Site Flatbed Truck	Gasoline	2	2	2	2	2	2	2	2	2	0	0	0	0	0
On-Site Pickup Truck	Gasoline	2	2	2	2	2	2	2	2	2	0	0	0	0	0
Off-Site Vehicles															
Off-Site Flat Bed Trucks	Gasoline	35	10	10	10	5	5	1	1	1	1	1	1	1	1
Off-Site Cement Trucks	Diesel	20	0	0	0	0	0	0	0	2	2	2	2	2	2
Off-Site Dump Trucks	Diesel	35	1	0	0	0	0	0	0	0	0	0	0	0	0
Off-Site Pickup Trucks	Gasoline	20	227	210	184	181	167	166	152	126	118	106	105	104	99
Off-Site Pipe Hauling Trucks	Diesel	14	2	2	2	2	2	2	2	2	2	2	2	2	2
Off-Site Water Trucks	Diesel	5	0	0	0	0	0	0	0	0	0	0	0	0	0
Off-Site Construction Worker Commute	Gasoline	35	10	5	5	5	5	5	5	5	5	5	3	3	3
Off-Site Tractor-Trailer	Diesel	35	4	4	4	4	1	1	1	0	0	0	0	0	0

Table 11-B
Solar Array Construction Maximum Hourly Construction Equipment and Motor Vehicle Use

Equipment/Vehicle Type	Fuel	Maximum Hourly Operating Hours or Miles[a]														
		Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12	Month 13	Month 14	Month 15
Construction Equipment																
Air Compressor, Ingersoll-Rand	Diesel	0	0	0	0	0	1	1	3	6	6	6	6	6	6	6
Crane, 20-Ton, TR400	Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Welder, Multiquip, GA 3800	Gasoline	0	0	0	0	0	0	6	9	9	12	12	12	12	12	12
Welder, Multiquip, BLW-300SS	Diesel	0	0	0	0	0	0	2	2	4	4	6	6	6	6	6
Backhoe, Cat, 420E	Diesel	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1
Trencher, Cat 140G	Diesel	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0
Motor Grader, Cat 135H	Diesel	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1
Scraper, CAT 657G, Tractor Engine	Diesel	0	4	4	4	4	4	0	0	0	0	0	0	0	0	0
Scraper, CAT 657G, Scraper Engine	Diesel	0	4	4	4	4	4	0	0	0	0	0	0	0	0	0
Pipelayer, Cat 561N	Diesel	0	0	0	0	0	0	0	0	2	2	2	2	2	2	2
Truck, Concrete Pump, International	Diesel	0	0	0	0	0	0	3	5	6	6	6	6	6	6	6
Motor Vehicles																
On-site Vehicles																
On-Site Watering Truck	Diesel	0	32	32	32	32	32	12	12	12	12	12	12	8	8	8
On-Site Flatbed Truck	Gasoline	0	0	0	0	0	0	2	2	4	4	4	4	4	4	4
On-Site Pickup Truck	Gasoline	2	2	2	2	2	2	2	2	4	4	4	4	4	4	4
Off-Site Vehicles																
Off-Site Flat Bed Trucks	Gasoline	0	0	0	0	0	210	210	210	210	210	210	210	210	210	350
Off-Site Cement Trucks	Diesel	0	0	0	0	0	0	60	100	120	120	120	120	120	120	0
Off-Site Dump Trucks	Diesel	0	0	0	0	0	70	70	70	70	70	70	70	70	70	35
Off-Site Pickup Trucks	Gasoline	0	0	40	40	40	40	40	40	40	40	40	40	40	40	4,540
Off-Site Pipe Hauling Trucks	Diesel	0	0	0	0	0	28	28	28	28	28	28	28	28	28	28
Off-Site Water Trucks	Diesel	0	0	50	50	50	0	15	15	15	15	15	15	15	15	0
Off-Site Construction Worker Commute	Gasoline	175	175	1,400	1,400	1,400	2,100	2,800	3,500	4,900	6,300	7,700	11,900	12,600	10,500	350
Off-Site Tractor-Trailer	Diesel	0	0	0	0	0	420	420	420	420	420	420	420	420	420	140

Table 11-B (continued)
Solar Array Construction Maximum Hourly Construction Equipment and Motor Vehicle Use

Equipment/Vehicle Type	Fuel	Maximum Hourly Operating Hours or Miles											
		Month 16	Month 17	Month 18	Month 19	Month 20	Month 21	Month 22	Month 23	Month 24	Month 25	Month 26	Month 27
Construction Equipment													
Air Compressor, Ingersoll-Rand	Diesel	3	3	3	3	3	3	3	0	0	0	0	0
Crane, 20-Ton, TR400	Diesel	0	1	1	1	0	0	0	0	0	0	0	0
Welder, Multiquip, GA 3800	Gasoline	9	9	9	6	6	6	6	0	0	0	0	0
Welder, Multiquip, BLW-300SS	Diesel	6	6	6	6	6	4	2	0	0	0	0	0
Backhoe, Cat, 420E	Diesel	1	1	1	0	0	0	0	0	0	0	0	0
Trencher, Cat 140G	Diesel	0	1	0	0	0	0	0	0	0	0	0	0
Motor Grader, Cat 135H	Diesel	1	1	1	1	1	1	1	0	0	0	0	0
Scraper, CAT 657G, Tractor Engine	Diesel	0	0	0	0	0	0	0	0	0	0	0	0
Scraper, CAT 657G, Scraper Engine	Diesel	0	0	0	0	0	0	0	0	0	0	0	0
Pipelayer, Cat 561N	Diesel	2	2	2	0	0	0	0	0	0	0	0	0
Truck, Concrete Pump, International	Diesel	6	6	6	0	0	0	0	0	0	0	0	0
Motor Vehicles													
On-site Vehicles													
On-Site Watering Truck	Diesel	8	8	8	4	4	4	4	0	0	0	0	0
On-Site Flatbed Truck	Gasoline	4	4	4	4	4	4	4	0	0	0	0	0
On-Site Pickup Truck	Gasoline	4	4	4	4	4	4	4	0	0	0	0	0
Off-Site Vehicles													
Off-Site Flat Bed Trucks	Gasoline	350	350	175	175	35	35	35	35	35	35	35	35
Off-Site Cement Trucks	Diesel	0	0	0	0	0	0	40	40	40	40	40	40
Off-Site Dump Trucks	Diesel	0	0	0	0	0	0	0	0	0	0	0	0
Off-Site Pickup Trucks	Gasoline	4,200	3,680	3,620	3,340	3,320	3,040	2,520	2,360	2,120	2,100	2,080	1,980
Off-Site Pipe Hauling Trucks	Diesel	28	28	28	28	28	28	28	28	28	28	28	28
Off-Site Water Trucks	Diesel	0	0	0	0	0	0	0	0	0	0	0	0
Off-Site Construction Worker Commute	Gasoline	175	175	175	175	175	175	175	175	175	105	105	105
Off-Site Tractor-Trailer	Diesel	140	140	140	35	35	35	0	0	0	0	0	0

Table 11-C

Solar Array Construction Maximum Hourly Construction Equipment and Motor Vehicle CO Emissions

Equipment/Vehicle Type	Emission Factor (lb/hr or lb/mile)	Maxum Hourly Emissions (lb/hr)														
		Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12	Month 13	Month 14	Month 15
Construction Equipment																
Air Compressor, Ingersoll-Rand	0.3302	0.0	0.0	0.0	0.0	0.0	0.3	0.3	1.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Crane, 20-Ton, TR400	0.3642	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Welder, Multiquip, GA 3800	3.6411	0.0	0.0	0.0	0.0	0.0	0.0	21.8	32.8	32.8	43.7	43.7	43.7	43.7	43.7	43.7
Welder, Multiquip, BLW-300SS	0.0651	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.3	0.3	0.4	0.4	0.4	0.4	0.4
Backhoe, Cat, 420E	0.3664	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4
Trencher, Cat 140G	0.4892	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
Motor Grader, Cat 135H	0.7439	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Scraper, CAT 657G, Tractor Engine	1.0062	0.0	4.0	4.0	4.0	4.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Scraper, CAT 657G, Scraper Engine	0.5818	0.0	2.3	2.3	2.3	2.3	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pipelayer, Cat 561N	0.4902	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Truck, Concrete Pump, International	0.4516	0.0	0.0	0.0	0.0	0.0	0.0	1.4	2.3	2.7	2.7	2.7	2.7	2.7	2.7	2.7
Construction Equipment Total		**0.0**	**6.4**	**6.4**	**6.4**	**6.4**	**6.7**	**24.9**	**37.4**	**39.9**	**50.4**	**50.5**	**50.5**	**50.9**	**50.9**	**50.9**
Motor Vehicles																
On-site Vehicles																
On-Site Watering Truck	0.0104	0.0	0.3	0.3	0.3	0.3	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
On-Site Flatbed Truck	0.0660	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3
On-Site Pickup Truck	0.0087	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Vehicles																
Off-Site Flat Bed Trucks	0.0100	0.0	0.0	0.0	0.0	0.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	3.5
Off-Site Cement Trucks	0.0104	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.0	1.2	1.2	1.2	1.2	1.2	1.2	0.0
Off-Site Dump Trucks	0.0104	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.4
Off-Site Pickup Trucks	0.0087	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	39.6
Off-Site Pipe Hauling Trucks	0.0104	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Off-Site Water Trucks	0.0104	0.0	0.0	0.5	0.5	0.5	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0
Off-Site Construction Worker Commute	0.0087	1.5	1.5	12.2	12.2	12.2	18.3	24.4	30.5	42.7	54.9	67.2	103.8	109.9	91.6	3.1
Off-Site Tractor-Trailer	0.0104	0.0	0.0	0.0	0.0	0.0	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	1.5
On-Site Motor Vehicle Total		**0.0**	**0.4**	**0.4**	**0.4**	**0.4**	**0.4**	**0.3**	**0.3**	**0.4**	**0.4**	**0.4**	**0.4**	**0.4**	**0.4**	**0.4**
Off-Site Motor Vehicle Total		**1.5**	**1.5**	**13.1**	**13.1**	**13.1**	**26.1**	**33.0**	**39.6**	**52.0**	**64.2**	**76.4**	**113.0**	**119.1**	**100.8**	**48.2**

Table 11-C (continued)
Solar Array Construction Maximum Hourly Construction Equipment and Motor Vehicle CO Emissions

Equipment/Vehicle Type	Emission Factor (lb/hr or lb/mile)	Maximum Hourly Emissions (lb/month)											
		Month 16	Month 17	Month 18	Month 19	Month 20	Month 21	Month 22	Month 23	Month 24	Month 25	Month 26	Month 27
Construction Equipment													
Air Compressor, Ingersoll-Rand	0.3302	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0
Crane, 20-Ton, TR400	0.3642	0.0	0.4	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Welder, Multiquip, GA 3800	3.6411	32.8	32.8	32.8	21.8	21.8	21.8	21.8	0.0	0.0	0.0	0.0	0.0
Welder, Multiquip, BLW-300SS	0.0651	0.4	0.4	0.4	0.4	0.4	0.3	0.1	0.0	0.0	0.0	0.0	0.0
Backhoe, Cat, 420E	0.3664	0.4	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Trencher, Cat 140G	0.4892	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Motor Grader, Cat 135H	0.7439	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.0	0.0	0.0	0.0	0.0
Scraper, CAT 657G, Tractor Engine	1.0062	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Scraper, CAT 657G, Scraper Engine	0.5818	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pipelayer, Cat 561N	0.4902	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Truck, Concrete Pump, International	0.4516	2.7	2.7	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Construction Equipment Total		**39.0**	**39.8**	**39.3**	**24.3**	**24.0**	**23.8**	**23.7**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
Motor Vehicles													
On-site Vehicles													
On-Site Watering Truck	0.0104	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Flatbed Truck	0.0660	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0
On-Site Pickup Truck	0.0087	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Vehicles													
Off-Site Flat Bed Trucks	0.0100	3.5	3.5	1.7	1.7	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Off-Site Cement Trucks	0.0104	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.4	0.4
Off-Site Dump Trucks	0.0104	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Pickup Trucks	0.0087	36.6	32.1	31.6	29.1	29.0	26.5	22.0	20.6	18.5	18.3	18.1	17.3
Off-Site Pipe Hauling Trucks	0.0104	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Off-Site Water Trucks	0.0104	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Construction Worker Commute	0.0087	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	0.9	0.9	0.9
Off-Site Tractor-Trailer	0.0104	1.5	1.5	1.5	0.4	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Motor Vehicle Total		**0.4**	**0.4**	**0.4**	**0.3**	**0.3**	**0.3**	**0.3**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
Off-Site Motor Vehicle Total		**43.4**	**38.9**	**36.6**	**33.1**	**31.5**	**29.0**	**24.6**	**23.2**	**21.1**	**20.3**	**20.1**	**19.2**

Note: Totals may not match sum of individual values because of rounding.

Table 11-D

Solar Array Construction Maximum Hourly Construction Equipment and Motor Vehicle VOC Emissions

Equipment/Vehicle Type	Emission Factor (lb/hr or lb/mile)	Maxum Hourly Emissions (lb/hr)														
		Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12	Month 13	Month 14	Month 15
Construction Equipment																
Air Compressor, Ingersoll-Rand	0.0986	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.3	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Crane, 20-Ton, TR400	0.1310	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Welder, Multiquip, GA 3800	0.1273	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.1	1.1	1.5	1.5	1.5	1.5	1.5	1.5
Welder, Multiquip, BLW-300SS	0.0249	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Backhoe, Cat, 420E	0.1000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1
Trencher, Cat 140G	0.1593	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0
Motor Grader, Cat 135H	0.1857	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Scraper, CAT 657G, Tractor Engine	0.2959	0.0	1.2	1.2	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Scraper, CAT 657G, Scraper Engine	0.1711	0.0	0.7	0.7	0.7	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pipelayer, Cat 561N	0.1281	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Truck, Concrete Pump, International	0.1723	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Construction Equipment Total		**0.0**	**1.9**	**1.9**	**1.9**	**1.9**	**2.0**	**1.8**	**2.7**	**3.5**	**3.7**	**3.7**	**3.7**	**3.8**	**3.8**	**3.8**
Motor Vehicles																
On-site Vehicles																
On-Site Watering Truck	0.0025	0.0	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Flatbed Truck	0.0040	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Pickup Truck	0.0008	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Vehicles																
Off-Site Flat Bed Trucks	0.0010	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3
Off-Site Cement Trucks	0.0025	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.0
Off-Site Dump Trucks	0.0025	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1
Off-Site Pickup Trucks	0.0008	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6
Off-Site Pipe Hauling Trucks	0.0025	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Off-Site Water Trucks	0.0025	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Construction Worker Commute	0.0008	0.1	0.1	1.1	1.1	1.1	1.7	2.2	2.8	3.9	5.0	6.2	9.5	10.1	8.4	0.3
Off-Site Tractor-Trailer	0.0025	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.3
On-Site Motor Vehicle Total		**0.0**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
Off-Site Motor Vehicle Total		**0.1**	**0.1**	**1.3**	**1.3**	**1.3**	**3.2**	**4.0**	**4.6**	**5.8**	**6.9**	**8.0**	**11.4**	**12.0**	**10.3**	**4.8**

Table 11-D (continued)
Solar Array Construction Maximum Hourly Construction Equipment and Motor Vehicle VOC Emissions

Equipment/Vehicle Type	Emission Factor (lb/hr or lb/mile)	Maximum Hourly Emissions (lb/month)											
		Month 16	Month 17	Month 18	Month 19	Month 20	Month 21	Month 22	Month 23	Month 24	Month 25	Month 26	Month 27
Construction Equipment													
Air Compressor, Ingersoll-Rand	0.0986	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0
Crane, 20-Ton, TR400	0.1310	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Welder, Multiquip, GA 3800	0.1273	1.1	1.1	1.1	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0
Welder, Multiquip, BLW-300SS	0.0249	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Backhoe, Cat, 420E	0.1000	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Trencher, Cat 140G	0.1593	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Motor Grader, Cat 135H	0.1857	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0
Scraper, CAT 657G, Tractor Engine	0.2959	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Scraper, CAT 657G, Scraper Engine	0.1711	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pipelayer, Cat 561N	0.1281	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Truck, Concrete Pump, International	0.1723	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Construction Equipment Total		**3.2**	**3.5**	**3.3**	**1.5**	**1.4**	**1.3**	**1.3**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
Motor Vehicles													
On-site Vehicles													
On-Site Watering Truck	0.0025	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Flatbed Truck	0.0040	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Pickup Truck	0.0008	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Vehicles													
Off-Site Flat Bed Trucks	0.0010	0.3	0.3	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Cement Trucks	0.0025	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1
Off-Site Dump Trucks	0.0025	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Pickup Trucks	0.0008	3.4	2.9	2.9	2.7	2.7	2.4	2.0	1.9	1.7	1.7	1.7	1.6
Off-Site Pipe Hauling Trucks	0.0025	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Off-Site Water Trucks	0.0025	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Construction Worker Commute	0.0008	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Off-Site Tractor-Trailer	0.0025	0.3	0.3	0.3	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Motor Vehicle Total		**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
Off-Site Motor Vehicle Total		**4.3**	**3.8**	**3.6**	**3.1**	**3.0**	**2.8**	**2.4**	**2.2**	**2.0**	**2.0**	**2.0**	**1.9**

Note: Totals may not match sum of individual values because of rounding.

Table 11-E
Solar Array Construction Maximum Hourly Construction Equipment and Motor Vehicle NOx Emissions

Equipment/Vehicle Type	Emission Factor (lb/hr or lb/mile)	Maxum Hourly Emissions (lb/hr)														
		Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12	Month 13	Month 14	Month 15
Construction Equipment																
Air Compressor, Ingersoll-Rand	0.5945	0.0	0.0	0.0	0.0	0.0	0.6	0.6	1.8	3.6	3.6	3.6	3.6	3.6	3.6	3.6
Crane, 20-Ton, TR400	1.3109	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Welder, Multiquip, GA 3800	0.0533	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.6
Welder, Multiquip, BLW-300SS	0.1085	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.4	0.4	0.7	0.7	0.7	0.7	0.7
Backhoe, Cat, 420E	0.6082	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6
Trencher, Cat 140G	0.9488	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
Motor Grader, Cat 135H	1.4427	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
Scraper, CAT 657G, Tractor Engine	2.4463	0.0	9.8	9.8	9.8	9.8	9.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Scraper, CAT 657G, Scraper Engine	1.4146	0.0	5.7	5.7	5.7	5.7	5.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pipelayer, Cat 561N	0.9859	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Truck, Concrete Pump, International	1.7369	0.0	0.0	0.0	0.0	0.0	0.0	5.2	8.7	10.4	10.4	10.4	10.4	10.4	10.4	10.4
Construction Equipment Total		**0.0**	**15.4**	**15.4**	**15.4**	**15.4**	**16.0**	**8.7**	**13.6**	**19.3**	**18.5**	**18.7**	**18.7**	**19.3**	**19.3**	**19.3**
Motor Vehicles																
On-site Vehicles																
On-Site Watering Truck	0.0370	0.0	1.2	1.2	1.2	1.2	1.2	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3
On-Site Flatbed Truck	0.0100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Pickup Truck	0.0007	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Vehicles																
Off-Site Flat Bed Trucks	0.0014	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.5
Off-Site Cement Trucks	0.0370	0.0	0.0	0.0	0.0	0.0	0.0	2.2	3.7	4.4	4.4	4.4	4.4	4.4	4.4	0.0
Off-Site Dump Trucks	0.0370	0.0	0.0	0.0	0.0	0.0	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	1.3
Off-Site Pickup Trucks	0.0007	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4
Off-Site Pipe Hauling Trucks	0.0370	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Off-Site Water Trucks	0.0370	0.0	0.0	1.8	1.8	1.8	0.0	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.0
Off-Site Construction Worker Commute	0.0007	0.1	0.1	1.0	1.0	1.0	1.6	2.1	2.6	3.6	4.7	5.7	8.8	9.3	7.8	0.3
Off-Site Tractor-Trailer	0.0370	0.0	0.0	0.0	0.0	0.0	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	5.2
On-Site Motor Vehicle Total		**0.0**	**1.2**	**1.2**	**1.2**	**1.2**	**1.2**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.3**	**0.3**	**0.3**
Off-Site Motor Vehicle Total		**0.1**	**0.1**	**2.9**	**2.9**	**2.9**	**21.0**	**24.3**	**26.3**	**28.1**	**29.1**	**30.2**	**33.3**	**33.8**	**32.3**	**11.6**

Table 11-E (continued)
Solar Array Construction Maximum Hourly Construction Equipment and Motor Vehicle NOx Emissions

Equipment/Vehicle Type	Emission Factor (lb/hr or lb/mile)	Maximum Hourly Emissions (lb/month)											
		Month 16	Month 17	Month 18	Month 19	Month 20	Month 21	Month 22	Month 23	Month 24	Month 25	Month 26	Month 27
Construction Equipment													
Air Compressor, Ingersoll-Rand	0.5945	1.8	1.8	1.8	1.8	1.8	1.8	1.8	0.0	0.0	0.0	0.0	0.0
Crane, 20-Ton, TR400	1.3109	0.0	1.3	1.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Welder, Multiquip, GA 3800	0.0533	0.5	0.5	0.5	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0
Welder, Multiquip, BLW-300SS	0.1085	0.7	0.7	0.7	0.7	0.7	0.4	0.2	0.0	0.0	0.0	0.0	0.0
Backhoe, Cat, 420E	0.6082	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Trencher, Cat 140G	0.9488	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Motor Grader, Cat 135H	1.4427	1.4	1.4	1.4	1.4	1.4	1.4	1.4	0.0	0.0	0.0	0.0	0.0
Scraper, CAT 657G, Tractor Engine	2.4463	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Scraper, CAT 657G, Scraper Engine	1.4146	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pipelayer, Cat 561N	0.9859	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Truck, Concrete Pump, International	1.7369	10.4	10.4	10.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Construction Equipment Total		**17.4**	**19.6**	**18.7**	**5.5**	**4.2**	**4.0**	**3.8**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
Motor Vehicles													
On-site Vehicles													
On-Site Watering Truck	0.0370	0.3	0.3	0.3	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0
On-Site Flatbed Truck	0.0100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Pickup Truck	0.0007	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Vehicles													
Off-Site Flat Bed Trucks	0.0014	0.5	0.5	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Cement Trucks	0.0370	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5	1.5	1.5
Off-Site Dump Trucks	0.0370	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Pickup Trucks	0.0007	3.1	2.7	2.7	2.5	2.5	2.2	1.9	1.7	1.6	1.6	1.5	1.5
Off-Site Pipe Hauling Trucks	0.0370	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Off-Site Water Trucks	0.0370	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Construction Worker Commute	0.0007	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Off-Site Tractor-Trailer	0.0370	5.2	5.2	5.2	1.3	1.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Motor Vehicle Total		**0.3**	**0.3**	**0.3**	**0.2**	**0.2**	**0.2**	**0.2**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
Off-Site Motor Vehicle Total		**9.9**	**9.6**	**9.3**	**5.2**	**5.0**	**4.8**	**4.6**	**4.4**	**4.3**	**4.2**	**4.2**	**4.1**

Note: Totals may not match sum of individual values because of rounding.

Table 11-F

Solar Array Construction Maximum Hourly Construction Equipment and Motor Vehicle SOx Emissions

Equipment/Vehicle Type	Emission Factor (lb/hr or lb/mile)	Maxum Hourly Emissions (lb/hr)														
		Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12	Month 13	Month 14	Month 15
Construction Equipment																
Air Compressor, Ingersoll-Rand	0.00055	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Crane, 20-Ton, TR400	0.00126	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Welder, Multiquip, GA 3800	0.00015	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Welder, Multiquip, BLW-300SS	0.00014	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Backhoe, Cat, 420E	0.00061	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Trencher, Cat 140G	0.00076	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Motor Grader, Cat 135H	0.00139	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Scraper, CAT 657G, Tractor Engine	0.00558	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Scraper, CAT 657G, Scraper Engine	0.00315	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pipelayer, Cat 561N	0.00090	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Truck, Concrete Pump, International	0.00187	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Construction Equipment Total		**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
Motor Vehicles																
On-site Vehicles																
On-Site Watering Truck	0.00007	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Flatbed Truck	0.00000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Pickup Truck	0.00000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Vehicles																
Off-Site Flat Bed Trucks	0.00002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Cement Trucks	0.00007	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Dump Trucks	0.00007	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Pickup Trucks	0.00000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Pipe Hauling Trucks	0.00007	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Water Trucks	0.00007	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Construction Worker Commute	0.00000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Tractor-Trailer	0.00007	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Motor Vehicle Total		**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
Off-Site Motor Vehicle Total		**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.0**

Table 11-F (continued)
Solar Array Construction Maximum Hourly Construction Equipment and Motor Vehicle SOx Emissions

Equipment/Vehicle Type	Emission Factor (lb/hr or lb/mile)	Maximum Hourly Emissions (lb/month)											
		Month 16	Month 17	Month 18	Month 19	Month 20	Month 21	Month 22	Month 23	Month 24	Month 25	Month 26	Month 27
Construction Equipment													
Air Compressor, Ingersoll-Rand	0.00055	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Crane, 20-Ton, TR400	0.00126	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Welder, Multiquip, GA 3800	0.00015	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Welder, Multiquip, BLW-300SS	0.00014	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Backhoe, Cat, 420E	0.00061	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Trencher, Cat 140G	0.00076	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Motor Grader, Cat 135H	0.00139	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Scraper, CAT 657G, Tractor Engine	0.00558	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Scraper, CAT 657G, Scraper Engine	0.00315	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pipelayer, Cat 561N	0.00090	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Truck, Concrete Pump, International	0.00187	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Construction Equipment Total		**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
Motor Vehicles													
On-site Vehicles													
On-Site Watering Truck	0.00007	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Flatbed Truck	0.00000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Pickup Truck	0.00000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Vehicles													
Off-Site Flat Bed Trucks	0.00002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Cement Trucks	0.00007	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Dump Trucks	0.00007	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Pickup Trucks	0.00000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Pipe Hauling Trucks	0.00007	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Water Trucks	0.00007	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Construction Worker Commute	0.00000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Tractor-Trailer	0.00007	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Motor Vehicle Total		**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
Off-Site Motor Vehicle Total		**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**

Note: Totals may not match sum of individual values because of rounding.

Table 11-G

Solar Array Construction Maximum Hourly Construction Equipment and Motor Vehicle Exhaust PM10 Emissions

Equipment/Vehicle Type	Emission Factor (lb/hr or lb/mile)	Maxum Hourly Emissions (lb/hr)														
		Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12	Month 13	Month 14	Month 15
Construction Equipment																
Air Compressor, Ingersoll-Rand	0.05268	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Crane, 20-Ton, TR400	0.04990	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Welder, Multiquip, GA 3800	0.04210	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.5
Welder, Multiquip, BLW-300SS	0.00764	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Backhoe, Cat, 420E	0.05583	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1
Trencher, Cat 140G	0.08078	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Motor Grader, Cat 135H	0.08278	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Scraper, CAT 657G, Tractor Engine	0.11226	0.0	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Scraper, CAT 657G, Scraper Engine	0.06492	0.0	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pipelayer, Cat 561N	0.05658	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Truck, Concrete Pump, International	0.06130	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Construction Equipment Total		**0.0**	**0.7**	**0.7**	**0.7**	**0.7**	**0.8**	**0.7**	**1.0**	**1.4**	**1.4**	**1.4**	**1.4**	**1.5**	**1.5**	**1.5**
Motor Vehicles																
On-site Vehicles																
On-Site Watering Truck	0.00154	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Flatbed Truck	0.00000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Pickup Truck	0.00003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Vehicles																
Off-Site Flat Bed Trucks	0.00004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Cement Trucks	0.00154	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0
Off-Site Dump Trucks	0.00154	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Off-Site Pickup Trucks	0.00003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Off-Site Pipe Hauling Trucks	0.00154	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Water Trucks	0.00154	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Construction Worker Commute	0.00003	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.2	0.2	0.4	0.4	0.3	0.0
Off-Site Tractor-Trailer	0.00154	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.2
On-Site Motor Vehicle Total		**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
Off-Site Motor Vehicle Total		**0.0**	**0.0**	**0.1**	**0.1**	**0.1**	**0.9**	**1.0**	**1.1**	**1.2**	**1.2**	**1.3**	**1.4**	**1.4**	**1.3**	**0.5**

Table 11-G (continued)
Solar Array Construction Maximum Hourly Construction Equipment and Motor Vehicle Exhaust PM10 Emissions

Equipment/Vehicle Type	Emission Factor (lb/hr or lb/mile)	Maximum Hourly Emissions (lb/month)											
		Month 16	Month 17	Month 18	Month 19	Month 20	Month 21	Month 22	Month 23	Month 24	Month 25	Month 26	Month 27
Construction Equipment													
Air Compressor, Ingersoll-Rand	0.05268	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0
Crane, 20-Ton, TR400	0.04990	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Welder, Multiquip, GA 3800	0.04210	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0
Welder, Multiquip, BLW-300SS	0.00764	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Backhoe, Cat, 420E	0.05583	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Trencher, Cat 140G	0.08078	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Motor Grader, Cat 135H	0.08278	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0
Scraper, CAT 657G, Tractor Engine	0.11226	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Scraper, CAT 657G, Scraper Engine	0.06492	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pipelayer, Cat 561N	0.05658	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Truck, Concrete Pump, International	0.06130	0.4	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Construction Equipment Total		**1.2**	**1.3**	**1.3**	**0.6**	**0.5**	**0.5**	**0.5**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
Motor Vehicles													
On-site Vehicles													
On-Site Watering Truck	0.00154	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Flatbed Truck	0.00000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Pickup Truck	0.00003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Vehicles													
Off-Site Flat Bed Trucks	0.00004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Cement Trucks	0.00154	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1
Off-Site Dump Trucks	0.00154	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Pickup Trucks	0.00003	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Off-Site Pipe Hauling Trucks	0.00154	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Water Trucks	0.00154	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Construction Worker Commute	0.00003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Tractor-Trailer	0.00154	0.2	0.2	0.2	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Motor Vehicle Total		**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
Off-Site Motor Vehicle Total		**0.4**	**0.4**	**0.4**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**

Note: Totals may not match sum of individual values because of rounding.

Table 11-H
Solar Array Construction Maximum Hourly Construction Equipment and Motor Vehicle Exhaust PM2.5 Emissions

Equipment/Vehicle Type	Emission Factor (lb/hr or lb/mile)	Maxum Hourly Emissions (lb/hr)														
		Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12	Month 13	Month 14	Month 15
Construction Equipment																
Air Compressor, Ingersoll-Rand	0.04847	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Crane, 20-Ton, TR400	0.04591	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Welder, Multiquip, GA 3800	0.03183	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4
Welder, Multiquip, BLW-300SS	0.00703	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Backhoe, Cat, 420E	0.05137	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1
Trencher, Cat 140G	0.07432	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Motor Grader, Cat 135H	0.07616	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Scraper, CAT 657G, Tractor Engine	0.10328	0.0	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Scraper, CAT 657G, Scraper Engine	0.05972	0.0	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pipelayer, Cat 561N	0.05205	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Truck, Concrete Pump, International	0.05639	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Construction Equipment Total		**0.0**	**0.7**	**0.7**	**0.7**	**0.7**	**0.7**	**0.6**	**0.9**	**1.2**	**1.2**	**1.2**	**1.2**	**1.3**	**1.3**	**1.3**
Motor Vehicles																
On-site Vehicles																
On-Site Watering Truck	0.00142	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Flatbed Truck	0.00000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Pickup Truck	0.00003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Vehicles																
Off-Site Flat Bed Trucks	0.00004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Cement Trucks	0.00142	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.0
Off-Site Dump Trucks	0.00142	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0
Off-Site Pickup Trucks	0.00003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Off-Site Pipe Hauling Trucks	0.00142	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Water Trucks	0.00142	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Construction Worker Commute	0.00003	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.3	0.0
Off-Site Tractor-Trailer	0.00142	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.2
On-Site Motor Vehicle Total		**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
Off-Site Motor Vehicle Total		**0.0**	**0.1**	**0.2**	**0.2**	**0.2**	**0.8**	**0.9**	**1.0**	**1.1**	**1.1**	**1.2**	**1.3**	**1.3**	**1.2**	**0.5**

Table 11-H (continued)

Solar Array Construction Maximum Hourly Construction Equipment and Motor Vehicle Exhaust PM2.5 Emissions

Equipment/Vehicle Type	Emission Factor (lb/hr or lb/mile)	Maximum Hourly Emissions (lb/month)											
		Month 16	Month 17	Month 18	Month 19	Month 20	Month 21	Month 22	Month 23	Month 24	Month 25	Month 26	Month 27
Construction Equipment													
Air Compressor, Ingersoll-Rand	0.04847	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0
Crane, 20-Ton, TR400	0.04591	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Welder, Multiquip, GA 3800	0.03183	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0
Welder, Multiquip, BLW-300SS	0.00703	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Backhoe, Cat, 420E	0.05137	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Trencher, Cat 140G	0.07432	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Motor Grader, Cat 135H	0.07616	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0
Scraper, CAT 657G, Tractor Engine	0.10328	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Scraper, CAT 657G, Scraper Engine	0.05972	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pipelayer, Cat 561N	0.05205	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Truck, Concrete Pump, International	0.05639	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Construction Equipment Total		**1.0**	**1.2**	**1.1**	**0.5**	**0.5**	**0.4**	**0.4**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
Motor Vehicles													
On-site Vehicles													
On-Site Watering Truck	0.00142	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Flatbed Truck	0.00000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Pickup Truck	0.00003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Vehicles													
Off-Site Flat Bed Trucks	0.00004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Cement Trucks	0.00142	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1
Off-Site Dump Trucks	0.00142	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Pickup Trucks	0.00003	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Off-Site Pipe Hauling Trucks	0.00142	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Water Trucks	0.00142	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Construction Worker Commute	0.00003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Tractor-Trailer	0.00142	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Motor Vehicle Total		**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
Off-Site Motor Vehicle Total		**0.4**	**0.4**	**0.4**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**

Note: Totals may not match sum of individual values because of rounding.

Table 11-I
Solar Array Construction Maximum Hourly Motor Vehicle Fugitive PM10 Emissions

Vehicle Type	Emission Factor (lb/mile)	Maxum Hourly Emissions (lb/hr)														
		Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12	Month 13	Month 14	Month 15
On-site Vehicles																
On-Site Watering Truck	0.74	0.0	23.6	23.6	23.6	23.6	23.6	8.9	8.9	8.9	8.9	8.9	8.9	5.9	5.9	5.9
On-Site Flatbed Truck	0.74	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	3.0	3.0	3.0	3.0	3.0	3.0	3.0
On-Site Pickup Truck	0.74	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Off-Site Vehicles																
Off-Site Flat Bed Trucks	0.00090	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3
Off-Site Cement Trucks	0.00100	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0
Off-Site Dump Trucks	0.00100	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0
Off-Site Pickup Trucks	0.00092	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
Off-Site Pipe Hauling Trucks	0.00100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Water Trucks	0.00100	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Construction Worker Commute	0.00092	0.2	0.2	1.3	1.3	1.3	1.9	2.6	3.2	4.5	5.8	7.1	10.9	11.6	9.6	0.3
Off-Site Tractor-Trailer	0.00100	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.1
On-Site Motor Vehicle Total		**1.5**	**25.1**	**25.1**	**25.1**	**25.1**	**25.1**	**11.8**	**11.8**	**14.8**	**14.8**	**14.8**	**14.8**	**11.8**	**11.8**	**11.8**
Off-Site Motor Vehicle Total		**0.2**	**0.2**	**1.4**	**1.4**	**1.4**	**2.7**	**3.4**	**4.1**	**5.4**	**6.7**	**7.9**	**11.8**	**12.4**	**10.5**	**5.0**

Table 11-I (continued)
Solar Array Construction Maximum Hourly Motor Vehicle Fugitive PM10 Emissions

Equipment/Vehicle Type	Emission Factor (lb/mile)	Maximum Hourly Emissions (lb/hr)											
		Month 16	Month 17	Month 18	Month 19	Month 20	Month 21	Month 22	Month 23	Month 24	Month 25	Month 26	Month 27
On-site Vehicles													
On-Site Watering Truck	0.74	5.9	5.9	5.9	3.0	3.0	3.0	3.0	0.0	0.0	0.0	0.0	0.0
On-Site Flatbed Truck	0.74	3.0	3.0	3.0	3.0	3.0	3.0	3.0	0.0	0.0	0.0	0.0	0.0
On-Site Pickup Truck	0.74	3.0	3.0	3.0	3.0	3.0	3.0	3.0	0.0	0.0	0.0	0.0	0.0
Off-Site Vehicles													
Off-Site Flat Bed Trucks	0.00090	0.3	0.3	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Cement Trucks	0.00100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Dump Trucks	0.00100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Pickup Trucks	0.00092	3.9	3.4	3.3	3.1	3.0	2.8	2.3	2.2	1.9	1.9	1.9	1.8
Off-Site Pipe Hauling Trucks	0.00100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Water Trucks	0.00100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Construction Worker Commute	0.00092	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1
Off-Site Tractor-Trailer	0.00100	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Motor Vehicle Total		**11.8**	**11.8**	**11.8**	**8.9**	**8.9**	**8.9**	**8.9**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
Off-Site Motor Vehicle Total		**4.5**	**4.0**	**3.8**	**3.4**	**3.3**	**3.0**	**2.6**	**2.4**	**2.2**	**2.1**	**2.1**	**2.0**

Note: Totals may not match sum of individual values because of rounding.

Table 11-J
Solar Array Construction Maximum Hourly Motor Vehicle Fugitive PM2.5 Emissions

Vehicle Type	Emission Factor (lb/mile)	Maxum Hourly Emissions (lb/hr)														
		Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12	Month 13	Month 14	Month 15
On-site Vehicles																
On-Site Watering Truck	0.16	0.0	5.0	5.0	5.0	5.0	5.0	1.9	1.9	1.9	1.9	1.9	1.9	1.3	1.3	1.3
On-Site Flatbed Truck	0.16	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.6	0.6	0.6	0.6	0.6	0.6	0.6
On-Site Pickup Truck	0.16	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Off-Site Vehicles																
Off-Site Flat Bed Trucks	0.00016	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Off-Site Cement Trucks	0.00019	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Dump Trucks	0.00019	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Pickup Trucks	0.00017	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8
Off-Site Pipe Hauling Trucks	0.00019	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Water Trucks	0.00019	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Construction Worker Commute	0.00017	0.0	0.0	0.2	0.2	0.2	0.3	0.5	0.6	0.8	1.0	1.3	2.0	2.1	1.7	0.1
Off-Site Tractor-Trailer	0.00019	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0
On-Site Motor Vehicle Total		**0.3**	**5.3**	**5.3**	**5.3**	**5.3**	**5.3**	**2.5**	**2.5**	**3.1**	**3.1**	**3.1**	**3.1**	**2.5**	**2.5**	**2.5**
Off-Site Motor Vehicle Total		**0.0**	**0.0**	**0.2**	**0.2**	**0.2**	**0.5**	**0.6**	**0.7**	**1.0**	**1.2**	**1.4**	**2.1**	**2.3**	**1.9**	**0.9**

Table 11-J (continued)
Solar Array Construction Maximum Hourly Motor Vehicle Fugitive PM2.5 Emissions

Equipment/Vehicle Type	Emission Factor (lb/mile)	Maximum Hourly Emissions (lb/hr)											
		Month 16	Month 17	Month 18	Month 19	Month 20	Month 21	Month 22	Month 23	Month 24	Month 25	Month 26	Month 27
On-site Vehicles													
On-Site Watering Truck	0.16	1.3	1.3	1.3	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0
On-Site Flatbed Truck	0.16	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0
On-Site Pickup Truck	0.16	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0
Off-Site Vehicles													
Off-Site Flat Bed Trucks	0.00016	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Cement Trucks	0.00019	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Dump Trucks	0.00019	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Pickup Trucks	0.00017	0.7	0.6	0.6	0.6	0.5	0.5	0.4	0.4	0.4	0.3	0.3	0.3
Off-Site Pipe Hauling Trucks	0.00019	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Water Trucks	0.00019	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Construction Worker Commute	0.00017	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Tractor-Trailer	0.00019	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Motor Vehicle Total		**2.5**	**2.5**	**2.5**	**1.9**	**1.9**	**1.9**	**1.9**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
Off-Site Motor Vehicle Total		**0.8**	**0.7**	**0.7**	**0.6**	**0.6**	**0.6**	**0.5**	**0.4**	**0.4**	**0.4**	**0.4**	**0.4**

Note: Totals may not match sum of individual values because of rounding.

Table 11-K
Solar Array Construction Maximum Hourly Fugitive PM10 and PM2.5 Activities

Activity	Units	Quantity per Hour														
		Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12	Month 13	Month 14	Month 15
Excavation	Cu. Yd.	0	0	1,478	1,478	1,478	0	0	0	0	0	0	0	0	0	0
Storage Pile Wind Erosion[a]	Acre-Hours	0.00	0.00	1.50	1.50	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Bulldozing and Grading	Hours	0	4	4	4	4	4	1	1	1	1	1	1	1	1	1

Table 11-K (continued)
Solar Array Construction Maximum Hourly Fugitive PM10 and PM2.5 Activities

Activity	Units	Quantity per Hour											
		Month 16	Month 17	Month 18	Month 19	Month 20	Month 21	Month 22	Month 23	Month 24	Month 25	Month 26	Month 27
Excavation	Cu. Yd.	0	0	0	0	0	0	0	0	0	0	0	0
Storage Pile Wind Erosion[a]	Acre-Hours	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Bulldozing and Grading	Hours	1	1	1	1	1	1	1	0	0	0	0	0

[a] Based on 30 days per month

Table 11-L
Solar Array Construction Maximum Hourly Fugitive PM10 Emissions

Activity	Emission Factor	Emissions (lb/hr)														
		Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12	Month 13	Month 14	Month 15
Excavation	9.94E-04	0.0	0.0	1.5	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Storage Pile Wind Erosion	0.122	0.0	0.0	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bulldozing and Grading	0.348	0.0	1.4	1.4	1.4	1.4	1.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Total		**0.0**	**1.4**	**3.0**	**3.0**	**3.0**	**1.4**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**

Table 11-L (continued)
Solar Array Construction Maximum Hourly Fugitive PM10 Emissions

Activity	Emission Factor	Emissions (lb/hr)											
		Month 16	Month 17	Month 18	Month 19	Month 20	Month 21	Month 22	Month 23	Month 24	Month 25	Month 26	Month 27
Excavation	9.94E-04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Storage Pile Wind Erosion	0.122	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bulldozing and Grading	0.348	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0
Total		**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**

Note: Totals may not match sum of individual values because of rounding.

Table 11-M
Solar Array Construction Maximum Hourly Fugitive PM2.5 Emissions

Activity	Emission Factor	Emissions (lb/hr)														
		Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12	Month 13	Month 14	Month 15
Excavation	2.07E-04	0.0	0.0	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Storage Pile Wind Erosion	0.025	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bulldozing and Grading	0.072	0.0	0.3	0.3	0.3	0.3	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Total		**0.0**	**0.3**	**0.6**	**0.6**	**0.6**	**0.3**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**

Table 11-M (continued)
Solar Array Construction Maximum Hourly Fugitive PM2.5 Emissions

Activity	Emission Factor	Emissions (lb/hr)											
		Month 16	Month 17	Month 18	Month 19	Month 20	Month 21	Month 22	Month 23	Month 24	Month 25	Month 26	Month 27
Excavation	2.07E-04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Storage Pile Wind Erosion	0.025	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bulldozing and Grading	0.072	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0
Total		**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**

Note: Totals may not match sum of individual values because of rounding.

Table 12-A
Combined Cycle Facility Construction CO Emissions Summary

	Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12	Month 13	Month 14
12-Month Running Emissions (ton/year)[a]														
On-Site														
Equipment	25.0	26.1	27.3	28.5	29.5	30.0	30.4	30.8	31.2	31.7	31.9	31.8	31.4	31.0
Motor Vehicles	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
On-Site Total	**25.1**	**26.3**	**27.5**	**28.6**	**29.7**	**30.1**	**30.6**	**31.0**	**31.4**	**31.9**	**32.0**	**32.0**	**31.6**	**31.2**
Off-Site Motor Vehicles	**17.0**	**17.9**	**18.7**	**19.1**	**19.3**	**19.2**	**18.8**	**18.1**	**17.4**	**16.6**	**15.5**	**14.5**	**13.4**	**12.3**
12-Month Total	**42.1**	**44.2**	**46.1**	**47.7**	**48.9**	**49.4**	**49.4**	**49.2**	**48.8**	**48.4**	**47.6**	**46.5**	**45.0**	**43.5**
Maximum On-Site 12-Month Total (ton/year)	**32.0**													
Maximum 12-Month Total (ton/year)	**49.4**													
Monthly Emissions (lb/month)														
On-Site														
Equipment	3,164.9	3,204.7	3,244.7	3,293.4	4,375.4	4,372.0	4,429.8	4,415.4	4,455.5	4,455.5	4,935.9	5,559.1	5,518.5	5,549.9
Motor Vehicles	20.8	20.8	20.8	20.8	20.8	21.9	21.9	21.9	29.2	30.3	31.4	31.4	31.4	31.4
On-Site Total	**3,185.7**	**3,225.5**	**3,265.5**	**3,314.2**	**4,396.2**	**4,393.9**	**4,451.7**	**4,437.4**	**4,484.7**	**4,485.8**	**4,967.3**	**5,590.5**	**5,549.8**	**5,581.3**
Off-Site Motor Vehicles	**1,550.0**	**1,768.7**	**2,010.3**	**2,217.5**	**2,453.4**	**3,142.2**	**3,276.5**	**3,482.5**	**3,506.6**	**3,524.5**	**3,515.4**	**3,555.2**	**3,383.6**	**3,233.9**
Monthly Total	**4,735.7**	**4,994.2**	**5,275.8**	**5,531.7**	**6,849.6**	**7,536.1**	**7,728.2**	**7,919.8**	**7,991.3**	**8,010.3**	**8,482.6**	**9,145.7**	**8,933.4**	**8,815.2**
Maximum On-Site Monthly Total (lb/month)	**5,590.5**													
Maximum Monthly Total (lb/month)	**9,145.7**													
Daily Emissions (lb/day)[b]														
On-Site														
Equipment	143.9	145.7	147.5	149.7	198.9	198.7	201.4	200.7	202.5	202.5	224.4	252.7	250.8	252.3
Motor Vehicles	0.9	0.9	0.9	0.9	0.9	1.0	1.0	1.0	1.3	1.4	1.4	1.4	1.4	1.4
On-Site Total	**144.8**	**146.6**	**148.4**	**150.6**	**199.8**	**199.7**	**202.4**	**201.7**	**203.8**	**203.9**	**225.8**	**254.1**	**252.3**	**253.7**
Off-Site Motor Vehicles	**70.5**	**80.4**	**91.4**	**100.8**	**111.5**	**142.8**	**148.9**	**158.3**	**159.4**	**160.2**	**159.8**	**161.6**	**153.8**	**147.0**
Daily Total	**215.3**	**227.0**	**239.8**	**251.4**	**311.3**	**342.5**	**351.3**	**360.0**	**363.2**	**364.1**	**385.6**	**415.7**	**406.1**	**400.7**
Maximum On-Site Daily Total (lb/day)	**254.1**													
Maximum Off-Site Daily Total (lb/day)	**161.6**													
Maximum Daily Total (lb/day)	**415.7**													
Hourly Emissions (lb/hour)[c]														
On-Site														
Equipment	23.3	23.7	24.1	24.5	32.2	32.2	32.7	32.7	33.0	33.0	36.3	41.0	40.6	40.9
Motor Vehicles	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.6	0.6	0.6	0.6	0.6
On-Site Total	**23.7**	**24.1**	**24.5**	**24.9**	**32.6**	**32.6**	**33.1**	**33.1**	**33.6**	**33.6**	**36.9**	**41.6**	**41.2**	**41.5**
Off-Site Motor Vehicles	**36.3**	**41.3**	**47.3**	**52.0**	**57.7**	**72.9**	**76.2**	**80.9**	**81.5**	**81.6**	**81.1**	**83.1**	**78.7**	**75.3**
Hourly Total	**60.0**	**65.4**	**71.8**	**76.9**	**90.4**	**105.5**	**109.3**	**114.0**	**115.1**	**115.2**	**118.0**	**124.7**	**119.9**	**116.8**
Maximum On-Site Hourly Total (lb/hour)	**41.6**													
Maximum Hourly Total (lb/hour)	**124.7**													

Table 12-A (continued)
Combined Cycle Facility Construction CO Emissions Summary

	Month 15	Month 16	Month 17	Month 18	Month 19	Month 20	Month 21	Month 22	Month 23	Month 24	Month 25	Month 26	Month 27
12-Month Running Emissions (ton/yr)[a]													
On-Site													
Equipment	30.7	30.1	27.4	24.7	22.1	19.4	16.8	14.2	11.8	9.4	7.0	4.6	2.2
Motor Vehicles	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0
On-Site Total	**30.8**	**30.3**	**27.6**	**24.9**	**22.2**	**19.6**	**16.9**	**14.3**	**11.8**	**9.4**	**7.0**	**4.6**	**2.2**
Off-Site Motor Vehicles	**11.3**	**10.5**	**9.2**	**8.0**	**6.9**	**5.9**	**4.9**	**4.0**	**3.2**	**2.5**	**1.9**	**1.2**	**0.6**
12-Month Total	**42.1**	**40.7**	**36.7**	**32.9**	**29.1**	**25.4**	**21.8**	**18.2**	**15.0**	**11.9**	**8.9**	**5.8**	**2.8**
Monthly Emissions (lb/month)													
On-Site													
Equipment	5,541.3	5,359.0	5,359.0	5,260.8	5,284.9	5,220.3	5,289.5	4,845.8	4,805.5	4,805.5	4,773.5	4,773.5	4,368.6
Motor Vehicles	31.4	31.4	31.4	31.4	30.2	30.2	30.2	29.1	29.1	29.1	29.1	29.1	29.1
On-Site Total	**5,572.7**	**5,390.4**	**5,390.4**	**5,292.2**	**5,315.1**	**5,250.5**	**5,319.8**	**4,874.9**	**4,834.6**	**4,834.6**	**4,802.6**	**4,802.6**	**4,397.8**
Off-Site Motor Vehicles	**2,843.6**	**2,624.2**	**2,320.5**	**2,264.0**	**2,020.4**	**1,991.4**	**1,830.2**	**1,511.4**	**1,419.4**	**1,281.2**	**1,262.0**	**1,250.5**	**1,193.0**
Monthly Total	**8,416.3**	**8,014.5**	**7,710.8**	**7,556.2**	**7,335.6**	**7,241.9**	**7,150.0**	**6,386.4**	**6,254.0**	**6,115.9**	**6,064.6**	**6,053.1**	**5,590.7**
Daily Emissions (lb/day)[b]													
On-Site													
Equipment	251.9	243.6	243.6	239.1	240.2	237.3	240.4	220.3	218.4	218.4	217.0	217.0	198.6
Motor Vehicles	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.3	1.3	1.3	1.3	1.3	1.3
On-Site Total	**253.3**	**245.0**	**245.0**	**240.6**	**241.6**	**238.7**	**241.8**	**221.6**	**219.8**	**219.8**	**218.3**	**218.3**	**199.9**
Off-Site Motor Vehicles	**129.3**	**119.3**	**105.5**	**102.9**	**91.8**	**90.5**	**83.2**	**68.7**	**64.5**	**58.2**	**57.4**	**56.8**	**54.2**
Daily Total	**382.6**	**364.3**	**350.5**	**343.5**	**333.4**	**329.2**	**325.0**	**290.3**	**284.3**	**278.0**	**275.7**	**275.1**	**254.1**
Hourly Emissions (lb/hour)[c]													
On-Site													
Equipment	40.8	38.9	38.9	38.2	38.5	38.0	38.6	35.3	34.9	34.9	34.6	34.6	30.9
Motor Vehicles	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.5
On-Site Total	**41.4**	**39.5**	**39.5**	**38.8**	**39.0**	**38.5**	**39.2**	**35.9**	**35.5**	**35.5**	**35.1**	**35.1**	**31.5**
Off-Site Motor Vehicles	**65.9**	**60.4**	**53.4**	**51.6**	**46.8**	**45.8**	**42.1**	**35.3**	**33.2**	**30.1**	**29.5**	**29.2**	**27.9**
Hourly Total	**107.3**	**99.9**	**92.9**	**90.4**	**85.9**	**84.3**	**81.3**	**71.2**	**68.7**	**65.6**	**64.6**	**64.3**	**59.4**

[a] The value for each month is the total for that month and the next 11 months

[b] Daily emissions = Monthly emissions / 22 working days/month

[c] Hourly emissions are based on simultaneous operation of all emission sources

Table 12-B
Combined Cycle Facility Construction Maximum On-Site CO Emissions Summary

Source	Hourly (lb/hr)	Daily (lb/day)	Annual (ton/yr)
Equipment[a]	41.0	252.7	31.9
Motor Vehicles[a]	0.6	1.4	0.2
Maximum On-Site Total	**41.6**	**254.1**	**32.0**

[a] Emissions from source during period with maximum on-site total emissions

Table 12-C
Combined Cycle Facility Construction VOC Emissions Summary

	Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12	Month 13	Month 14
12-Month Running Emissions (ton/year)[a]														
On-Site														
Equipment	2.1	2.2	2.3	2.3	2.4	2.4	2.4	2.4	2.4	2.3	2.3	2.3	2.3	2.2
Motor Vehicles	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Total	**2.1**	**2.2**	**2.3**	**2.3**	**2.4**	**2.4**	**2.4**	**2.4**	**2.4**	**2.4**	**2.3**	**2.3**	**2.3**	**2.2**
Off-Site Motor Vehicles	**1.7**	**1.8**	**1.9**	**1.9**	**1.9**	**1.9**	**1.9**	**1.8**	**1.7**	**1.6**	**1.5**	**1.4**	**1.3**	**1.2**
12-Month Total	**3.8**	**4.0**	**4.1**	**4.3**	**4.3**	**4.3**	**4.3**	**4.2**	**4.1**	**4.0**	**3.9**	**3.7**	**3.6**	**3.4**
Maximum On-Site 12-Month Total (ton/year)	**2.4**													
Maximum 12-Month Total (ton/year)	**4.3**													
Monthly Emissions (lb/month)														
On-Site														
Equipment	250.6	265.8	280.2	297.9	349.1	356.1	377.5	371.6	386.0	386.0	393.2	442.6	427.8	438.9
Motor Vehicles	1.9	1.9	1.9	1.9	1.9	2.2	2.2	2.2	2.6	2.7	2.8	2.8	2.8	2.8
On-Site Total	**252.5**	**267.7**	**282.1**	**299.8**	**351.0**	**358.3**	**379.7**	**373.7**	**388.6**	**388.7**	**396.0**	**445.4**	**430.6**	**441.7**
Off-Site Motor Vehicles	**145.4**	**165.5**	**191.1**	**210.1**	**234.3**	**314.0**	**326.3**	**362.3**	**364.6**	**361.8**	**359.7**	**347.1**	**331.2**	**317.5**
Monthly Total	**397.9**	**433.2**	**473.2**	**509.9**	**585.3**	**672.3**	**706.0**	**736.0**	**753.2**	**750.5**	**755.7**	**792.5**	**761.8**	**759.2**
Maximum On-Site Monthly Total (lb/month)	**445.4**													
Maximum Monthly Total (lb/month)	**792.5**													
Daily Emissions (lb/day)[b]														
On-Site														
Equipment	11.4	12.1	12.7	13.5	15.9	16.2	17.2	16.9	17.5	17.5	17.9	20.1	19.4	19.9
Motor Vehicles	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
On-Site Total	**11.5**	**12.2**	**12.8**	**13.6**	**16.0**	**16.3**	**17.3**	**17.0**	**17.7**	**17.7**	**18.0**	**20.2**	**19.6**	**20.1**
Off-Site Motor Vehicles	**6.6**	**7.5**	**8.7**	**9.6**	**10.7**	**14.3**	**14.8**	**16.5**	**16.6**	**16.4**	**16.3**	**15.8**	**15.1**	**14.4**
Daily Total	**18.1**	**19.7**	**21.5**	**23.2**	**26.6**	**30.6**	**32.1**	**33.5**	**34.2**	**34.1**	**34.3**	**36.0**	**34.6**	**34.5**
Maximum On-Site Daily Total (lb/day)	**20.2**													
Maximum Off-Site Daily Total (lb/day)	**16.6**													
Maximum Daily Total (lb/day)	**36.0**													
Hourly Emissions (lb/hour)[c]														
On-Site														
Equipment	2.1	2.3	2.4	2.5	3.0	3.0	3.2	3.2	3.3	3.3	3.3	3.8	3.6	3.7
Motor Vehicles	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1
On-Site Total	**2.1**	**2.3**	**2.4**	**2.6**	**3.0**	**3.0**	**3.3**	**3.2**	**3.4**	**3.4**	**3.4**	**3.8**	**3.7**	**3.8**
Off-Site Motor Vehicles	**3.4**	**3.9**	**4.6**	**5.0**	**5.6**	**7.3**	**7.6**	**8.3**	**8.3**	**8.1**	**8.0**	**8.0**	**7.6**	**7.3**
Hourly Total	**5.5**	**6.2**	**7.0**	**7.6**	**8.6**	**10.3**	**10.8**	**11.5**	**11.7**	**11.5**	**11.4**	**11.8**	**11.2**	**11.0**
Maximum On-Site Hourly Total (lb/hour)	**3.8**													
Maximum Hourly Total (lb/hour)	**11.8**													

Table 12-C (continued)
Combined Cycle Facility Construction VOC Emissions Summary

	Month 15	Month 16	Month 17	Month 18	Month 19	Month 20	Month 21	Month 22	Month 23	Month 24	Month 25	Month 26	Month 27
12-Month Running Emissions (ton/yr)[a]													
On-Site													
Equipment	2.2	2.1	1.9	1.7	1.5	1.3	1.2	1.0	0.8	0.6	0.5	0.3	0.1
Motor Vehicles	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Total	**2.2**	**2.1**	**1.9**	**1.7**	**1.5**	**1.3**	**1.2**	**1.0**	**0.8**	**0.6**	**0.5**	**0.3**	**0.1**
Off-Site Motor Vehicles	**1.1**	**1.0**	**0.9**	**0.8**	**0.7**	**0.6**	**0.5**	**0.4**	**0.3**	**0.2**	**0.2**	**0.1**	**0.1**
12-Month Total	**3.3**	**3.1**	**2.8**	**2.5**	**2.2**	**1.9**	**1.6**	**1.4**	**1.1**	**0.9**	**0.6**	**0.4**	**0.2**
Monthly Emissions (lb/month)													
On-Site													
Equipment	435.6	374.9	374.9	350.4	356.8	335.8	353.0	363.8	352.8	352.8	341.2	341.2	219.7
Motor Vehicles	2.8	2.8	2.8	2.8	2.6	2.6	2.6	2.5	2.5	2.5	2.5	2.5	2.5
On-Site Total	**438.5**	**377.7**	**377.7**	**353.2**	**359.4**	**338.4**	**355.6**	**366.2**	**355.2**	**355.2**	**343.7**	**343.7**	**222.2**
Off-Site Motor Vehicles	**281.5**	**260.6**	**232.7**	**227.4**	**192.9**	**190.1**	**175.3**	**143.2**	**134.7**	**122.0**	**120.2**	**119.2**	**113.9**
Monthly Total	**719.9**	**638.3**	**610.4**	**580.6**	**552.3**	**528.5**	**530.9**	**509.4**	**489.9**	**477.2**	**463.9**	**462.9**	**336.1**
Daily Emissions (lb/day)[b]													
On-Site													
Equipment	19.8	17.0	17.0	15.9	16.2	15.3	16.0	16.5	16.0	16.0	15.5	15.5	10.0
Motor Vehicles	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
On-Site Total	**19.9**	**17.2**	**17.2**	**16.1**	**16.3**	**15.4**	**16.2**	**16.6**	**16.1**	**16.1**	**15.6**	**15.6**	**10.1**
Off-Site Motor Vehicles	**12.8**	**11.8**	**10.6**	**10.3**	**8.8**	**8.6**	**8.0**	**6.5**	**6.1**	**5.5**	**5.5**	**5.4**	**5.2**
Daily Total	**32.7**	**29.0**	**27.7**	**26.4**	**25.1**	**24.0**	**24.1**	**23.2**	**22.3**	**21.7**	**21.1**	**21.0**	**15.3**
Hourly Emissions (lb/hour)[c]													
On-Site													
Equipment	3.7	3.1	3.1	2.9	3.0	2.8	3.0	3.0	2.9	2.9	2.8	2.8	1.7
Motor Vehicles	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Total	**3.8**	**3.1**	**3.1**	**2.9**	**3.0**	**2.9**	**3.0**	**3.0**	**2.9**	**2.9**	**2.8**	**2.8**	**1.7**
Off-Site Motor Vehicles	**6.4**	**5.9**	**5.2**	**5.0**	**4.4**	**4.3**	**4.0**	**3.4**	**3.2**	**2.9**	**2.8**	**2.8**	**2.7**
Hourly Total	**10.2**	**9.0**	**8.3**	**8.0**	**7.5**	**7.2**	**7.0**	**6.4**	**6.1**	**5.8**	**5.7**	**5.6**	**4.4**

[a] The value for each month is the total for that month and the next 11 months

[b] Daily emissions = Monthly emissions / 22 working days/month

[c] Hourly emissions are based on simultaneous operation of all emission sources

Table 12-D
Combined Cycle Facility Construction Maximum On-Site VOC Emissions Summary

Source	Hourly (lb/hr)	Daily (lb/day)	Annual (ton/yr)
Equipment[a]	3.8	20.1	2.4
Motor Vehicles[a]	0.1	0.1	0.0
Maximum On-Site Total	**3.8**	**20.2**	**2.4**

[a] Emissions from source during period with maximum on-site total emissions

Table 12-E
Combined Cycle Facility Construction NOx Emissions Summary

	Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12	Month 13	Month 14
12-Month Running Emissions (ton/year)[a]														
On-Site														
Equipment	10.7	11.2	11.7	12.1	12.2	12.1	12.0	11.8	11.5	11.3	11.1	10.9	10.5	10.1
Motor Vehicles	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
On-Site Total	**10.8**	**11.3**	**11.8**	**12.2**	**12.3**	**12.2**	**12.1**	**11.9**	**11.6**	**11.4**	**11.2**	**11.0**	**10.6**	**10.2**
Off-Site Motor Vehicles	**4.5**	**4.7**	**5.0**	**5.2**	**5.4**	**5.5**	**5.4**	**5.1**	**4.6**	**4.2**	**3.7**	**3.2**	**2.9**	**2.7**
12-Month Total	**15.3**	**16.1**	**16.8**	**17.4**	**17.6**	**17.7**	**17.5**	**17.0**	**16.3**	**15.5**	**14.8**	**14.2**	**13.5**	**12.9**
Maximum On-Site 12-Month Total (ton/year)	**12.3**													
Maximum 12-Month Total (ton/year)	**17.7**													
Monthly Emissions (lb/month)														
On-Site														
Equipment	1,165.1	1,318.0	1,462.2	1,620.7	1,765.6	1,812.9	1,971.3	1,907.0	2,051.2	2,051.2	1,991.9	2,308.5	2,178.9	2,308.7
Motor Vehicles	13.3	13.3	13.3	13.3	13.3	17.3	17.3	17.3	18.4	18.6	18.7	18.7	18.7	18.7
On-Site Total	**1,178.4**	**1,331.2**	**1,475.4**	**1,633.9**	**1,778.9**	**1,830.2**	**1,988.6**	**1,924.3**	**2,069.6**	**2,069.8**	**2,010.7**	**2,327.3**	**2,197.6**	**2,327.5**
Off-Site Motor Vehicles	**200.5**	**219.1**	**319.0**	**336.6**	**416.2**	**857.5**	**868.9**	**1,285.1**	**1,291.1**	**1,186.7**	**1,154.1**	**776.1**	**760.3**	**747.6**
Monthly Total	**1,378.9**	**1,550.3**	**1,794.4**	**1,970.5**	**2,195.0**	**2,687.7**	**2,857.4**	**3,209.4**	**3,360.8**	**3,256.4**	**3,164.8**	**3,103.4**	**2,957.9**	**3,075.1**
Maximum On-Site Monthly Total (lb/month)	**2,327.5**													
Maximum Monthly Total (lb/month)	**3,360.8**													
Daily Emissions (lb/day)[b]														
On-Site														
Equipment	53.0	59.9	66.5	73.7	80.3	82.4	89.6	86.7	93.2	93.2	90.5	104.9	99.0	104.9
Motor Vehicles	0.6	0.6	0.6	0.6	0.6	0.8	0.8	0.8	0.8	0.8	0.9	0.9	0.9	0.9
On-Site Total	**53.6**	**60.5**	**67.1**	**74.3**	**80.9**	**83.2**	**90.4**	**87.5**	**94.1**	**94.1**	**91.4**	**105.8**	**99.9**	**105.8**
Off-Site Motor Vehicles	**9.1**	**10.0**	**14.5**	**15.3**	**18.9**	**39.0**	**39.5**	**58.4**	**58.7**	**53.9**	**52.5**	**35.3**	**34.6**	**34.0**
Daily Total	**62.7**	**70.5**	**81.6**	**89.6**	**99.8**	**122.2**	**129.9**	**145.9**	**152.8**	**148.0**	**143.9**	**141.1**	**134.4**	**139.8**
Maximum On-Site Daily Total (lb/day)	**105.8**													
Maximum Off-Site Daily Total (lb/day)	**58.7**													
Maximum Daily Total (lb/day)	**152.8**													
Hourly Emissions (lb/hour)[c]														
On-Site														
Equipment	10.6	12.3	13.6	15.1	16.6	17.0	18.6	18.1	19.4	19.4	18.9	22.1	20.7	21.9
Motor Vehicles	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
On-Site Total	**10.9**	**12.6**	**14.0**	**15.4**	**16.9**	**17.3**	**19.0**	**18.5**	**19.8**	**19.8**	**19.3**	**22.5**	**21.1**	**22.3**
Off-Site Motor Vehicles	**4.8**	**5.2**	**9.3**	**9.7**	**12.9**	**19.3**	**19.6**	**25.9**	**26.1**	**21.3**	**19.8**	**14.9**	**14.5**	**14.2**
Hourly Total	**15.7**	**17.8**	**23.3**	**25.1**	**29.8**	**36.7**	**38.6**	**44.3**	**45.9**	**41.1**	**39.0**	**37.4**	**35.5**	**36.5**
Maximum On-Site Hourly Total (lb/hour)	**22.5**													
Maximum Hourly Total (lb/hour)	**45.9**													

Table 12-E (continued)
Combined Cycle Facility Construction NOx Emissions Summary

	Month 15	Month 16	Month 17	Month 18	Month 19	Month 20	Month 21	Month 22	Month 23	Month 24	Month 25	Month 26	Month 27
12-Month Running Emissions (ton/yr)[a]													
On-Site													
Equipment	9.7	8.9	8.1	7.2	6.5	5.7	5.0	4.2	3.4	2.6	1.8	1.1	0.4
Motor Vehicles	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Total	**9.8**	**9.0**	**8.2**	**7.3**	**6.6**	**5.8**	**5.1**	**4.3**	**3.4**	**2.6**	**1.8**	**1.1**	**0.4**
Off-Site Motor Vehicles	**2.4**	**2.1**	**1.8**	**1.5**	**1.1**	**1.0**	**0.8**	**0.6**	**0.5**	**0.4**	**0.3**	**0.2**	**0.1**
12-Month Total	**12.2**	**11.2**	**10.0**	**8.8**	**7.7**	**6.7**	**5.9**	**4.9**	**4.0**	**3.1**	**2.2**	**1.3**	**0.5**
Monthly Emissions (lb/month)													
On-Site													
Equipment	2,294.4	1,688.4	1,688.4	1,497.9	1,542.5	1,417.2	1,557.1	1,652.5	1,585.6	1,585.6	1,470.2	1,470.2	709.4
Motor Vehicles	18.7	18.7	18.7	18.7	14.7	14.7	14.7	14.5	14.5	14.5	14.5	14.5	14.5
On-Site Total	**2,313.1**	**1,707.1**	**1,707.1**	**1,516.7**	**1,557.1**	**1,431.9**	**1,571.7**	**1,667.0**	**1,600.1**	**1,600.1**	**1,484.7**	**1,484.7**	**723.9**
Off-Site Motor Vehicles	**713.2**	**678.7**	**652.7**	**646.7**	**340.0**	**336.5**	**322.8**	**228.3**	**220.4**	**208.7**	**207.1**	**206.1**	**201.2**
Monthly Total	**3,026.3**	**2,385.8**	**2,359.8**	**2,163.3**	**1,897.1**	**1,768.4**	**1,894.6**	**1,895.2**	**1,820.5**	**1,808.8**	**1,691.8**	**1,690.9**	**925.2**
Daily Emissions (lb/day)[b]													
On-Site													
Equipment	104.3	76.7	76.7	68.1	70.1	64.4	70.8	75.1	72.1	72.1	66.8	66.8	32.2
Motor Vehicles	0.9	0.9	0.9	0.9	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
On-Site Total	**105.1**	**77.6**	**77.6**	**68.9**	**70.8**	**65.1**	**71.4**	**75.8**	**72.7**	**72.7**	**67.5**	**67.5**	**32.9**
Off-Site Motor Vehicles	**32.4**	**30.9**	**29.7**	**29.4**	**15.5**	**15.3**	**14.7**	**10.4**	**10.0**	**9.5**	**9.4**	**9.4**	**9.1**
Daily Total	**137.6**	**108.4**	**107.3**	**98.3**	**86.2**	**80.4**	**86.1**	**86.1**	**82.8**	**82.2**	**76.9**	**76.9**	**42.1**
Hourly Emissions (lb/hour)[c]													
On-Site													
Equipment	21.8	15.5	15.5	14.1	14.6	13.6	14.9	15.0	14.4	14.4	13.1	13.1	6.2
Motor Vehicles	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
On-Site Total	**22.2**	**15.9**	**15.9**	**14.5**	**14.9**	**14.0**	**15.2**	**15.3**	**14.7**	**14.7**	**13.4**	**13.4**	**6.5**
Off-Site Motor Vehicles	**13.3**	**12.1**	**11.5**	**11.3**	**7.1**	**7.0**	**6.7**	**6.1**	**5.9**	**5.7**	**5.6**	**5.6**	**5.5**
Hourly Total	**35.5**	**28.1**	**27.5**	**25.8**	**22.0**	**20.9**	**21.9**	**21.4**	**20.6**	**20.4**	**19.0**	**19.0**	**12.0**

[a] The value for each month is the total for that month and the next 11 months

[b] Daily emissions = Monthly emissions / 22 working days/month

[c] Hourly emissions are based on simultaneous operation of all emission sources

Table 12-F
Combined Cycle Facility Construction Maximum On-Site NOx Emissions Summary

Source	Hourly (lb/hr)	Daily (lb/day)	Annual (ton/yr)
Equipment[a]	22.1	104.9	12.2
Motor Vehicles[a]	0.4	0.9	0.1
Maximum On-Site Total	**22.5**	**105.8**	**12.3**

[a] Emissions from source during period with maximum on-site total emissions

Table 12-G
Combined Cycle Facility Construction SOx Emissions Summary

	Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12	Month 13	Month 14
12-Month Running Emissions (ton/year)[a]														
On-Site														
Equipment	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Motor Vehicles	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Total	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
Off-Site Motor Vehicles	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
12-Month Total	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
Maximum On-Site 12-Month Total (ton/year)	**0.0**													
Maximum 12-Month Total (ton/year)	**0.0**													
Monthly Emissions (lb/month)														
On-Site														
Equipment	1.2	1.4	1.5	1.7	1.8	1.9	2.1	2.0	2.1	2.1	2.1	2.4	2.2	2.4
Motor Vehicles	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Total	**1.2**	**1.4**	**1.5**	**1.7**	**1.9**	**1.9**	**2.1**	**2.0**	**2.1**	**2.1**	**2.1**	**2.4**	**2.3**	**2.4**
Off-Site Motor Vehicles	**0.2**	**0.2**	**0.4**	**0.4**	**0.5**	**1.3**	**1.3**	**2.2**	**2.2**	**2.0**	**1.9**	**1.2**	**1.1**	**1.1**
Monthly Total	**1.4**	**1.6**	**1.9**	**2.0**	**2.3**	**3.2**	**3.4**	**4.2**	**4.3**	**4.1**	**4.0**	**3.6**	**3.4**	**3.5**
Maximum On-Site Monthly Total (lb/month)	**2.4**													
Maximum Monthly Total (lb/month)	**4.3**													
Daily Emissions (lb/day)[b]														
On-Site														
Equipment	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Motor Vehicles	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Total	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**
Off-Site Motor Vehicles	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**
Daily Total	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**
Maximum On-Site Daily Total (lb/day)	**0.1**													
Maximum Off-Site Daily Total (lb/day)	**0.1**													
Maximum Daily Total (lb/day)	**0.2**													
Hourly Emissions (lb/hour)[c]														
On-Site														
Equipment	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Motor Vehicles	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Total	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
Off-Site Motor Vehicles	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
Hourly Total	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.0**	**0.0**	**0.0**
Maximum On-Site Hourly Total (lb/hour)	**0.0**													
Maximum Hourly Total (lb/hour)	**0.1**													

Table 12-G (continued)
Combined Cycle Facility Construction SOx Emissions Summary

	Month 15	Month 16	Month 17	Month 18	Month 19	Month 20	Month 21	Month 22	Month 23	Month 24	Month 25	Month 26	Month 27
12-Month Running Emissions (ton/yr)[a]													
On-Site													
Equipment	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Motor Vehicles	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Total	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
Off-Site Motor Vehicles	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
12-Month Total	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
Monthly Emissions (lb/month)													
On-Site													
Equipment	2.4	1.8	1.8	1.6	1.6	1.5	1.6	1.7	1.6	1.6	1.5	1.5	0.8
Motor Vehicles	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Total	**2.4**	**1.8**	**1.8**	**1.6**	**1.6**	**1.5**	**1.7**	**1.7**	**1.6**	**1.6**	**1.5**	**1.5**	**0.9**
Off-Site Motor Vehicles	**1.1**	**1.0**	**1.0**	**1.0**	**0.4**	**0.4**	**0.4**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**
Monthly Total	**3.5**	**2.8**	**2.8**	**2.6**	**2.0**	**1.9**	**2.0**	**1.9**	**1.9**	**1.9**	**1.8**	**1.8**	**1.1**
Daily Emissions (lb/day)[b]													
On-Site													
Equipment	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0
Motor Vehicles	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Total	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.0**
Off-Site Motor Vehicles	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
Daily Total	**0.2**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.0**
Hourly Emissions (lb/hour)[c]													
On-Site													
Equipment	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Motor Vehicles	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Total	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
Off-Site Motor Vehicles	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
Hourly Total	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**

[a] The value for each month is the total for that month and the next 11 months

[b] Daily emissions = Monthly emissions / 22 working days/month

[c] Hourly emissions are based on simultaneous operation of all emission sources

Table 12-H
Combined Cycle Facility Construction Maximum On-Site SOx Emissions Summary

Source	Hourly (lb/hr)	Daily (lb/day)	Annual (ton/yr)
Equipment[a]	0.0	0.1	0.0
Motor Vehicles[a]	0.0	0.0	0.0
Maximum On-Site Total	**0.0**	**0.1**	**0.0**

[a] Emissions from source during period with maximum on-site total emissions

Table 12-I
Combined Cycle Facility Construction PM10 Emissions Summary

	Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12	Month 13	Month 14
12-Month Running Emissions (ton/year)[a]														
On-Site														
Equipment	0.8	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
Motor Vehicle Exhaust	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fugitive	5.1	5.0	5.0	5.1	5.3	5.4	5.5	5.6	5.7	5.7	5.6	5.5	5.4	5.3
On-Site Total	**5.9**	**5.9**	**5.9**	**6.0**	**6.2**	**6.4**	**6.5**	**6.5**	**6.6**	**6.6**	**6.5**	**6.4**	**6.3**	**6.2**
Off-Site Motor Vehicle Exhaust and Fugitive	**2.0**	**2.1**	**2.2**	**2.2**	**2.2**	**2.2**	**2.2**	**2.1**	**2.0**	**1.9**	**1.8**	**1.6**	**1.5**	**1.4**
12-Month Total	**7.9**	**8.0**	**8.0**	**8.2**	**8.5**	**8.6**	**8.7**	**8.6**	**8.6**	**8.5**	**8.3**	**8.1**	**7.8**	**7.6**
Maximum On-Site 12-Month Total (ton/year)	**6.6**													
Maximum 12-Month Total (ton/year)	**8.7**													
Monthly Emissions (lb/month)														
	1219.1	1224.5	781.1	787.6	805.1	887.4	894.8	893.3	980.0	1061.2	1142.3	1160.2	1154.8	1159.3
On-Site														
Equipment	106.5	111.9	117.4	123.9	141.4	142.3	149.7	148.2	153.7	153.7	153.5	171.4	166.0	170.5
Motor Vehicle Exhaust	0.5	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Fugitive	1,112.1	1,112.1	663.2	663.2	663.2	744.5	744.5	744.5	825.7	906.9	988.2	988.2	988.2	988.2
On-Site Total	**1,219.1**	**1,224.5**	**781.1**	**787.6**	**805.1**	**887.4**	**894.8**	**893.3**	**980.0**	**1,061.2**	**1,142.3**	**1,160.2**	**1,154.8**	**1,159.3**
Off-Site Motor Vehicle Exhaust and Fugitive	**170.8**	**194.6**	**224.0**	**246.6**	**274.5**	**364.0**	**378.6**	**416.1**	**418.9**	**416.3**	**414.1**	**403.5**	**385.2**	**368.9**
Monthly Total	**1,389.9**	**1,419.1**	**1,005.1**	**1,034.2**	**1,079.6**	**1,251.4**	**1,273.4**	**1,309.4**	**1,398.9**	**1,477.6**	**1,556.4**	**1,563.7**	**1,540.0**	**1,528.2**
Maximum On-Site Monthly Total (lb/month)	**1,224.5**													
Maximum Monthly Total (lb/month)	**1,563.7**													
Daily Emissions (lb/day)[b]														
On-Site														
Equipment	4.8	5.1	5.3	5.6	6.4	6.5	6.8	6.7	7.0	7.0	7.0	7.8	7.5	7.7
Motor Vehicle Exhaust	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fugitive	50.5	50.5	30.1	30.1	30.1	33.8	33.8	33.8	37.5	41.2	44.9	44.9	44.9	44.9
On-Site Total	**55.4**	**55.7**	**35.5**	**35.8**	**36.6**	**40.3**	**40.7**	**40.6**	**44.5**	**48.2**	**51.9**	**52.7**	**52.5**	**52.7**
Off-Site Motor Vehicle Exhaust and Fugitive	**7.8**	**8.8**	**10.2**	**11.2**	**12.5**	**16.5**	**17.2**	**18.9**	**19.0**	**18.9**	**18.8**	**18.3**	**17.5**	**16.8**
Daily Total	**63.2**	**64.5**	**45.7**	**47.0**	**49.1**	**56.9**	**57.9**	**59.5**	**63.6**	**67.2**	**70.7**	**71.1**	**70.0**	**69.5**
Maximum On-Site Daily Total (lb/day)	**55.7**													
Maximum Off-Site Daily Total (lb/day)	**19.0**													
Maximum Daily Total (lb/day)	**71.1**													
Hourly Emissions (lb/hour)[c]														
On-Site														
Equipment	0.9	1.0	1.0	1.1	1.2	1.2	1.3	1.3	1.3	1.3	1.3	1.5	1.4	1.5
Motor Vehicle Exhaust	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fugitive	14.6	14.6	12.9	12.9	12.9	14.4	14.4	14.4	15.9	17.3	18.8	18.8	18.8	18.8
On-Site Total	**15.5**	**15.5**	**13.9**	**14.0**	**14.1**	**15.6**	**15.7**	**15.7**	**17.2**	**18.7**	**20.1**	**20.3**	**20.3**	**20.3**
Off-Site Motor Vehicle Exhaust and Fugitive	**4.0**	**4.5**	**5.3**	**5.8**	**6.6**	**8.4**	**8.8**	**9.5**	**9.6**	**9.4**	**9.3**	**9.3**	**8.8**	**8.4**
Hourly Total	**19.5**	**20.1**	**19.3**	**19.8**	**20.7**	**24.0**	**24.4**	**25.2**	**26.8**	**28.0**	**29.4**	**29.6**	**29.1**	**28.7**
Maximum On-Site Hourly Total (lb/hour)	**20.3**													
Maximum Hourly Total (lb/hour)	**29.6**													

Table 12-I (continued)
Combined Cycle Facility Construction PM10 Emissions Summary

	Month 15	Month 16	Month 17	Month 18	Month 19	Month 20	Month 21	Month 22	Month 23	Month 24	Month 25	Month 26	Month 27
12-Month Running Emissions (ton/yr)[a]													
On-Site													
Equipment	0.9	0.8	0.7	0.7	0.6	0.5	0.5	0.4	0.3	0.2	0.2	0.1	0.0
Motor Vehicle Exhaust	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fugitive	5.2	5.1	4.6	4.1	3.6	3.2	2.8	2.3	1.9	1.6	1.2	0.8	0.4
On-Site Total	**6.1**	**5.9**	**5.3**	**4.8**	**4.2**	**3.7**	**3.2**	**2.7**	**2.3**	**1.8**	**1.3**	**0.9**	**0.4**
Off-Site Motor Vehicle Exhaust and Fugitive	**1.3**	**1.2**	**1.0**	**0.9**	**0.8**	**0.7**	**0.5**	**0.4**	**0.4**	**0.3**	**0.2**	**0.1**	**0.1**
12-Month Total	**7.3**	**7.1**	**6.4**	**5.7**	**5.0**	**4.4**	**3.8**	**3.2**	**2.6**	**2.1**	**1.6**	**1.0**	**0.5**
Monthly Emissions (lb/month)													
On-Site													
Equipment	169.5	146.8	146.8	135.8	140.0	129.4	136.9	148.1	141.9	141.9	137.6	137.6	75.2
Motor Vehicle Exhaust	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Fugitive	988.2	988.2	988.2	942.3	861.0	861.0	861.0	779.8	779.8	779.8	779.8	779.8	779.8
On-Site Total	**1,158.3**	**1,135.6**	**1,135.6**	**1,078.7**	**1,001.5**	**990.9**	**998.4**	**928.4**	**922.2**	**922.2**	**917.8**	**917.8**	**855.4**
Off-Site Motor Vehicle Exhaust and Fugitive	**326.8**	**302.3**	**269.3**	**263.5**	**225.8**	**222.9**	**205.4**	**168.1**	**158.1**	**143.0**	**141.0**	**139.7**	**133.4**
Monthly Total	**1,485.1**	**1,437.8**	**1,404.9**	**1,342.2**	**1,227.4**	**1,213.8**	**1,203.8**	**1,096.4**	**1,080.3**	**1,065.3**	**1,058.8**	**1,057.5**	**988.9**
Daily Emissions (lb/day)[b]													
On-Site													
Equipment	7.7	6.7	6.7	6.2	6.4	5.9	6.2	6.7	6.5	6.5	6.3	6.3	3.4
Motor Vehicle Exhaust	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fugitive	44.9	44.9	44.9	42.8	39.1	39.1	39.1	35.4	35.4	35.4	35.4	35.4	35.4
On-Site Total	**52.6**	**51.6**	**51.6**	**49.0**	**45.5**	**45.0**	**45.4**	**42.2**	**41.9**	**41.9**	**41.7**	**41.7**	**38.9**
Off-Site Motor Vehicle Exhaust and Fugitive	**14.9**	**13.7**	**12.2**	**12.0**	**10.3**	**10.1**	**9.3**	**7.6**	**7.2**	**6.5**	**6.4**	**6.4**	**6.1**
Daily Total	**67.5**	**65.4**	**63.9**	**61.0**	**55.8**	**55.2**	**54.7**	**49.8**	**49.1**	**48.4**	**48.1**	**48.1**	**44.9**
Hourly Emissions (lb/hour)[c]													
On-Site													
Equipment	1.5	1.2	1.2	1.1	1.2	1.1	1.2	1.2	1.2	1.2	1.1	1.1	0.6
Motor Vehicle Exhaust	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fugitive	18.8	18.8	18.8	18.5	17.0	17.0	17.0	15.5	15.5	15.5	15.5	15.5	15.5
On-Site Total	**20.3**	**20.1**	**20.1**	**19.6**	**18.2**	**18.1**	**18.2**	**16.8**	**16.7**	**16.7**	**16.7**	**16.7**	**16.1**
Off-Site Motor Vehicle Exhaust and Fugitive	**7.4**	**6.8**	**6.0**	**5.9**	**5.2**	**5.1**	**4.7**	**4.0**	**3.7**	**3.4**	**3.3**	**3.3**	**3.1**
Hourly Total	**27.7**	**26.9**	**26.1**	**25.5**	**23.4**	**23.2**	**22.9**	**20.7**	**20.4**	**20.1**	**20.0**	**19.9**	**19.2**

[a] The value for each month is the total for that month and the next 11 months

[b] Daily emissions = Monthly emissions / 22 working days/month

[c] Hourly emissions are based on simultaneous operation of all emission sources

Table 12-J
Combined Cycle Facility Construction Maximum On-Site PM10 Emissions Summary

Source	Hourly (lb/hr)	Daily (lb/day)	Annual (ton/yr)
Equipment[a]	1.5	5.1	0.9
Motor Vehicle Exhaust[a]	0.0	0.0	0.0
Fugitive[a]	18.8	50.5	5.7
Maximum On-Site Total	**20.3**	**55.7**	**6.6**

[a] Emissions from source during period with maximum on-site total emissions

Table 12-K
Combined Cycle Facility Construction PM2.5 Emissions Summary

	Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12	Month 13	Month 14
12-Month Running Emissions (ton/year)[a]														
On-Site														
Equipment	0.7	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Motor Vehicle Exhaust	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fugitive	1.1	1.1	1.0	1.1	1.1	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.1	1.1
On-Site Total	**1.8**	**1.8**	**1.8**	**1.9**	**1.9**	**2.0**	**2.0**	**2.0**	**2.0**	**2.0**	**2.0**	**1.9**	**1.9**	**1.9**
Off-Site Motor Vehicle Exhaust and Fugitive	**0.5**	**0.5**	**0.5**	**0.6**	**0.6**	**0.6**	**0.6**	**0.5**	**0.5**	**0.5**	**0.4**	**0.4**	**0.4**	**0.3**
12-Month Total	**2.3**	**2.3**	**2.4**	**2.5**	**2.5**	**2.5**	**2.6**	**2.5**	**2.5**	**2.5**	**2.4**	**2.3**	**2.3**	**2.2**
Maximum On-Site 12-Month Total (ton/year)	**2.0**													
Maximum 12-Month Total (ton/year)	**2.6**													
Monthly Emissions (lb/month)														
On-Site														
Equipment	93.1	98.0	103.1	109.1	123.1	124.0	130.8	129.4	134.5	134.5	133.4	148.8	143.8	148.0
Motor Vehicle Exhaust	0.4	0.4	0.4	0.4	0.4	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Fugitive	233.8	233.8	140.4	140.4	140.4	157.7	157.7	157.7	174.9	192.1	209.3	209.3	209.3	209.3
On-Site Total	**327.3**	**332.2**	**243.9**	**249.9**	**264.0**	**282.2**	**289.1**	**287.6**	**309.9**	**327.1**	**343.3**	**358.7**	**353.7**	**357.9**
Off-Site Motor Vehicle Exhaust and Fugitive	**37.4**	**42.3**	**50.7**	**55.3**	**62.9**	**92.9**	**95.8**	**115.5**	**116.2**	**112.5**	**111.1**	**97.4**	**93.6**	**90.3**
Monthly Total	**364.7**	**374.6**	**294.7**	**305.3**	**326.9**	**375.1**	**384.9**	**403.2**	**426.1**	**439.6**	**454.3**	**456.1**	**447.4**	**448.2**
Maximum On-Site Monthly Total (lb/month)	**358.7**													
Maximum Monthly Total (lb/month)	**456.1**													
Daily Emissions (lb/day)[b]														
On-Site														
Equipment	4.2	4.5	4.7	5.0	5.6	5.6	5.9	5.9	6.1	6.1	6.1	6.8	6.5	6.7
Motor Vehicle Exhaust	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fugitive	10.6	10.6	6.4	6.4	6.4	7.2	7.2	7.2	7.9	8.7	9.5	9.5	9.5	9.5
On-Site Total	**14.9**	**15.1**	**11.1**	**11.4**	**12.0**	**12.8**	**13.1**	**13.1**	**14.1**	**14.9**	**15.6**	**16.3**	**16.1**	**16.3**
Off-Site Motor Vehicle Exhaust and Fugitive	**1.7**	**1.9**	**2.3**	**2.5**	**2.9**	**4.2**	**4.4**	**5.3**	**5.3**	**5.1**	**5.0**	**4.4**	**4.3**	**4.1**
Daily Total	**16.6**	**17.0**	**13.4**	**13.9**	**14.9**	**17.0**	**17.5**	**18.3**	**19.4**	**20.0**	**20.7**	**20.7**	**20.3**	**20.4**
Maximum On-Site Daily Total (lb/day)	**16.3**													
Maximum Off-Site Daily Total (lb/day)	**5.3**													
Maximum Daily Total (lb/day)	**20.7**													
Hourly Emissions (lb/hour)[c]														
On-Site														
Equipment	0.8	0.2	0.4	0.4	0.5	0.8	0.8	1.0	1.0	0.8	0.8	0.6	0.6	0.6
Motor Vehicle Exhaust	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fugitive	3.1	3.1	2.7	2.7	2.7	3.0	3.0	3.0	3.4	3.7	4.0	4.0	4.0	4.0
On-Site Total	**3.9**	**3.3**	**3.1**	**3.2**	**3.3**	**3.8**	**3.8**	**4.1**	**4.4**	**4.5**	**4.8**	**4.6**	**4.5**	**4.5**
Off-Site Motor Vehicle Exhaust and Fugitive	**0.9**	**1.0**	**1.3**	**1.4**	**1.6**	**2.1**	**2.2**	**2.5**	**2.5**	**2.4**	**2.3**	**2.1**	**2.0**	**2.0**
Hourly Total	**4.8**	**4.3**	**4.4**	**4.5**	**4.9**	**6.0**	**6.0**	**6.6**	**6.9**	**6.9**	**7.1**	**6.7**	**6.6**	**6.5**
Maximum On-Site Hourly Total (lb/hour)	**4.8**													
Maximum Hourly Total (lb/hour)	**7.1**													

Table 12-K (continued)
Combined Cycle Facility Construction PM2.5 Emissions Summary

	Month 15	Month 16	Month 17	Month 18	Month 19	Month 20	Month 21	Month 22	Month 23	Month 24	Month 25	Month 26	Month 27
12-Month Running Emissions (ton/yr)[a]													
On-Site													
Equipment	0.7	0.7	0.6	0.6	0.5	0.4	0.4	0.3	0.3	0.2	0.1	0.1	0.0
Motor Vehicle Exhaust	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fugitive	1.1	1.1	1.0	0.9	0.8	0.7	0.6	0.5	0.4	0.3	0.2	0.2	0.1
On-Site Total	**1.8**	**1.8**	**1.6**	**1.4**	**1.3**	**1.1**	**1.0**	**0.8**	**0.7**	**0.5**	**0.4**	**0.3**	**0.1**
Off-Site Motor Vehicle Exhaust and Fugitive	**0.3**	**0.3**	**0.2**	**0.2**	**0.2**	**0.2**	**0.1**	**0.1**	**0.1**	**0.1**	**0.0**	**0.0**	**0.0**
12-Month Total	**2.1**	**2.1**	**1.9**	**1.6**	**1.5**	**1.3**	**1.1**	**0.9**	**0.8**	**0.6**	**0.4**	**0.3**	**0.1**
Monthly Emissions (lb/month)													
On-Site													
Equipment	147.0	126.1	126.1	116.1	119.9	110.1	117.1	128.3	122.7	122.7	118.6	118.6	61.3
Motor Vehicle Exhaust	0.6	0.6	0.6	0.6	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Fugitive	209.3	209.3	209.3	199.8	182.5	182.5	182.5	165.3	165.3	165.3	165.3	165.3	165.3
On-Site Total	**356.9**	**336.0**	**336.0**	**316.4**	**302.9**	**293.1**	**300.1**	**294.1**	**288.4**	**288.4**	**284.4**	**284.4**	**227.0**
Off-Site Motor Vehicle Exhaust and Fugitive	**81.7**	**76.2**	**69.4**	**68.2**	**51.7**	**51.1**	**47.5**	**37.8**	**35.8**	**32.7**	**32.3**	**32.0**	**30.7**
Monthly Total	**438.6**	**412.2**	**405.4**	**384.6**	**354.6**	**344.2**	**347.6**	**331.9**	**324.2**	**321.1**	**316.7**	**316.4**	**257.7**
Daily Emissions (lb/day)[b]													
On-Site													
Equipment	6.7	5.7	5.7	5.3	5.5	5.0	5.3	5.8	5.6	5.6	5.4	5.4	2.8
Motor Vehicle Exhaust	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fugitive	9.5	9.5	9.5	9.1	8.3	8.3	8.3	7.5	7.5	7.5	7.5	7.5	7.5
On-Site Total	**16.2**	**15.3**	**15.3**	**14.4**	**13.8**	**13.3**	**13.6**	**13.4**	**13.1**	**13.1**	**12.9**	**12.9**	**10.3**
Off-Site Motor Vehicle Exhaust and Fugitive	**3.7**	**3.5**	**3.2**	**3.1**	**2.4**	**2.3**	**2.2**	**1.7**	**1.6**	**1.5**	**1.5**	**1.5**	**1.4**
Daily Total	**19.9**	**18.7**	**18.4**	**17.5**	**16.1**	**15.6**	**15.8**	**15.1**	**14.7**	**14.6**	**14.4**	**14.4**	**11.7**
Hourly Emissions (lb/hour)[c]													
On-Site													
Equipment	0.5	0.5	0.5	0.4	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2
Motor Vehicle Exhaust	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fugitive	4.0	4.0	4.0	3.9	3.6	3.6	3.6	3.3	3.3	3.3	3.3	3.3	3.3
On-Site Total	**4.5**	**4.5**	**4.4**	**4.4**	**3.9**	**3.9**	**3.9**	**3.5**	**3.5**	**3.5**	**3.5**	**3.5**	**3.5**
Off-Site Motor Vehicle Exhaust and Fugitive	**1.8**	**1.6**	**1.5**	**1.4**	**1.2**	**1.1**	**1.1**	**0.9**	**0.9**	**0.8**	**0.8**	**0.8**	**0.7**
Hourly Total	**6.3**	**6.1**	**5.9**	**5.8**	**5.1**	**5.0**	**4.9**	**4.4**	**4.4**	**4.3**	**4.3**	**4.3**	**4.3**

[a] The value for each month is the total for that month and the next 11 months

[b] Daily emissions = Monthly emissions / 22 working days/month

[c] Hourly emissions are based on simultaneous operation of all emission sources

Table 12-L
Combined Cycle Facility Construction Maximum On-Site PM2.5 Emissions Summary

Source	Hourly (lb/hr)	Daily (lb/day)	Annual (ton/yr)
Equipment[a]	0.8	6.8	0.8
Motor Vehicle Exhaust[a]	0.0	0.0	0.0
Fugitive[a]	4.0	9.5	1.2
Maximum On-Site Total	**4.8**	**16.3**	**2.0**

[a] Emissions from source during period with maximum on-site total emissions

Table 13-A
Solar Array Construction CO Emissions Summary

	Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12	Month 13	Month 14
12-Month Running Emissions (ton/year)[a]														
On-Site														
Equipment	20.6	24.2	27.2	30.2	32.3	34.6	36.8	36.7	35.8	34.7	32.8	29.3	25.7	22.2
Motor Vehicles	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
On-Site Total	**20.7**	**24.3**	**27.3**	**30.3**	**32.5**	**34.7**	**36.9**	**36.8**	**35.9**	**34.8**	**32.9**	**29.4**	**25.8**	**22.2**
Off-Site Motor Vehicles	**10.1**	**12.5**	**14.6**	**15.9**	**16.5**	**16.9**	**16.9**	**16.4**	**15.8**	**15.0**	**14.0**	**12.3**	**9.9**	**7.5**
12-Month Total	**30.8**	**36.8**	**41.9**	**46.1**	**48.9**	**51.6**	**53.8**	**53.3**	**51.7**	**49.8**	**46.9**	**41.7**	**35.8**	**29.7**
Maximum On-Site 12-Month Total (ton/year)	**36.9**													
Maximum 12-Month Total (ton/year)	**53.8**													
Monthly Emissions (lb/month)														
On-Site														
Equipment	0.0	1,117.9	1,117.9	1,117.9	1,117.9	1,150.6	3,515.5	5,262.2	5,566.4	7,063.9	7,081.1	7,081.1	7,129.4	7,129.4
Motor Vehicles	0.8	17.2	17.2	17.2	17.2	17.2	14.2	14.2	22.2	22.2	22.2	22.2	20.2	20.2
On-Site Total	**0.8**	**1,135.2**	**1,135.2**	**1,135.2**	**1,135.2**	**1,167.9**	**3,529.7**	**5,276.4**	**5,588.7**	**7,086.1**	**7,103.3**	**7,103.3**	**7,149.6**	**7,149.6**
Off-Site Motor Vehicles	**57.6**	**57.6**	**479.6**	**479.6**	**479.6**	**1,482.9**	**1,730.3**	**1,969.7**	**2,434.8**	**2,895.2**	**3,355.7**	**4,737.1**	**4,967.4**	**4,276.7**
Monthly Total	**58.3**	**1,192.7**	**1,614.8**	**1,614.8**	**1,614.8**	**2,650.8**	**5,260.1**	**7,246.1**	**8,023.4**	**9,981.4**	**10,459.0**	**11,840.4**	**12,117.0**	**11,426.3**
Maximum On-Site Monthly Total (lb/month)	**7,149.6**													
Maximum Monthly Total (lb/month)	**12,117.0**													
Daily Emissions (lb/day)[b]														
On-Site														
Equipment	0.0	50.8	50.8	50.8	50.8	52.3	159.8	239.2	253.0	321.1	321.9	321.9	324.1	324.1
Motor Vehicles	0.0	0.8	0.8	0.8	0.8	0.8	0.6	0.6	1.0	1.0	1.0	1.0	0.9	0.9
On-Site Total	**0.0**	**51.6**	**51.6**	**51.6**	**51.6**	**53.1**	**160.4**	**239.8**	**254.0**	**322.1**	**322.9**	**322.9**	**325.0**	**325.0**
Off-Site Motor Vehicles	**2.6**	**2.6**	**21.8**	**21.8**	**21.8**	**67.4**	**78.7**	**89.5**	**110.7**	**131.6**	**152.5**	**215.3**	**225.8**	**194.4**
Daily Total	**2.7**	**54.2**	**73.4**	**73.4**	**73.4**	**120.5**	**239.1**	**329.4**	**364.7**	**453.7**	**475.4**	**538.2**	**550.8**	**519.4**
Maximum On-Site Daily Total (lb/day)	**325.0**													
Maximum Off-Site Daily Total (lb/day)	**225.8**													
Maximum Daily Total (lb/day)	**550.8**													
Hourly Emissions (lb/hour)[c]														
On-Site														
Equipment	0.0	6.4	6.4	6.4	6.4	6.7	24.9	37.4	39.9	50.4	50.5	50.5	50.9	50.9
Motor Vehicles	0.0	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4
On-Site Total	**0.0**	**6.7**	**6.7**	**6.7**	**6.7**	**7.0**	**25.2**	**37.7**	**40.4**	**50.8**	**50.9**	**50.9**	**51.2**	**51.2**
Off-Site Motor Vehicles	**1.5**	**1.5**	**13.1**	**13.1**	**13.1**	**26.1**	**33.0**	**39.6**	**52.0**	**64.2**	**76.4**	**113.0**	**119.1**	**100.8**
Hourly Total	**1.5**	**8.2**	**19.8**	**19.8**	**19.8**	**33.2**	**58.2**	**77.2**	**92.3**	**115.0**	**127.3**	**163.9**	**170.4**	**152.1**
Maximum On-Site Hourly Total (lb/hour)	**51.2**													
Maximum Hourly Total (lb/hour)	**170.4**													

Table 13-A (continued)
Solar Array Construction CO Emissions Summary

	Month 15	Month 16	Month 17	Month 18	Month 19	Month 20	Month 21	Month 22	Month 23	Month 24	Month 25	Month 26	Month 27
12-Month Running Emissions (ton/yr)[a]													
On-Site													
Equipment	18.6	15.0	12.3	9.5	6.7	5.0	3.3	1.7	0.0	0.0	0.0	0.0	0.0
Motor Vehicles	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Total	**18.7**	**15.1**	**12.3**	**9.5**	**6.8**	**5.1**	**3.4**	**1.7**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
Off-Site Motor Vehicles	**5.3**	**3.9**	**3.0**	**2.3**	**1.6**	**1.2**	**0.8**	**0.4**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
12-Month Total	**24.0**	**19.0**	**15.3**	**11.8**	**8.4**	**6.3**	**4.2**	**2.1**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
Monthly Emissions (lb/month)													
On-Site													
Equipment	7,129.4	5,469.3	5,582.0	5,517.4	3,420.0	3,371.9	3,354.7	3,337.5	0.0	0.0	0.0	0.0	0.0
Motor Vehicles	20.2	20.2	20.2	20.2	18.1	18.1	18.1	18.1	0.0	0.0	0.0	0.0	0.0
On-Site Total	**7,149.6**	**5,489.5**	**5,602.1**	**5,537.6**	**3,438.1**	**3,390.0**	**3,372.8**	**3,355.6**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
Off-Site Motor Vehicles	**2,895.2**	**1,744.1**	**1,398.7**	**1,398.7**	**793.4**	**793.4**	**793.4**	**793.4**	**7.7**	**7.7**	**0.0**	**0.0**	**0.0**
Monthly Total	**10,044.8**	**7,233.6**	**7,000.9**	**6,936.3**	**4,231.4**	**4,183.4**	**4,166.2**	**4,149.0**	**7.7**	**7.7**	**0.0**	**0.0**	**0.0**
Daily Emissions (lb/day)[b]													
On-Site													
Equipment	324.1	248.6	253.7	250.8	155.5	153.3	152.5	151.7	0.0	0.0	0.0	0.0	0.0
Motor Vehicles	0.9	0.9	0.9	0.9	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0
On-Site Total	**325.0**	**249.5**	**254.6**	**251.7**	**156.3**	**154.1**	**153.3**	**152.5**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
Off-Site Motor Vehicles	**131.6**	**79.3**	**63.6**	**63.6**	**36.1**	**36.1**	**36.1**	**36.1**	**0.3**	**0.3**	**0.0**	**0.0**	**0.0**
Daily Total	**456.6**	**328.8**	**318.2**	**315.3**	**192.3**	**190.2**	**189.4**	**188.6**	**0.3**	**0.3**	**0.0**	**0.0**	**0.0**
Hourly Emissions (lb/hour)[c]													
On-Site													
Equipment	50.9	39.0	39.8	39.3	24.3	24.0	23.8	23.7	0.0	0.0	0.0	0.0	0.0
Motor Vehicles	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0
On-Site Total	**51.2**	**39.3**	**40.2**	**39.7**	**24.7**	**24.3**	**24.2**	**24.1**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
Off-Site Motor Vehicles	**48.2**	**43.4**	**38.9**	**36.6**	**33.1**	**31.5**	**29.0**	**24.6**	**23.2**	**21.1**	**20.3**	**20.1**	**19.2**
Hourly Total	**99.5**	**82.7**	**79.0**	**76.3**	**57.7**	**55.8**	**53.2**	**48.6**	**23.2**	**21.1**	**20.3**	**20.1**	**19.2**

[a] The value for each month is the total for that month and the next 11 months

[b] Daily emissions = Monthly emissions / 22 working days/month

[c] Hourly emissions are based on simultaneous operation of all emission sources

Table 13-B
Solar Array Construction Maximum On-Site CO Emissions Summary

Source	Hourly (lb/hr)	Daily (lb/day)	Annual (ton/yr)
Equipment[a]	50.9	324.1	36.8
Motor Vehicles[a]	0.4	0.9	0.1
Maximum On-Site Total	**51.2**	**325.0**	**36.9**

[a] Emissions from source during period with maximum on-site total emissions

Table 13-C
Solar Array Construction VOC Emissions Summary

	Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12	Month 13	Month 14
12-Month Running Emissions (ton/year)[a]														
On-Site														
Equipment	2.1	2.3	2.4	2.5	2.6	2.6	2.7	2.7	2.6	2.4	2.3	2.0	1.8	1.5
Motor Vehicles	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Total	2.1	2.4	2.4	2.5	2.6	2.6	2.7	2.7	2.6	2.4	2.3	2.0	1.8	1.5
Off-Site Motor Vehicles	1.2	1.5	1.8	1.9	2.0	2.1	2.1	2.0	2.0	1.9	1.8	1.6	1.4	1.1
12-Month Total	3.3	3.9	4.2	4.4	4.6	4.7	4.8	4.7	4.6	4.4	4.1	3.7	3.1	2.6
Maximum On-Site 12-Month Total (ton/year)	2.7													
Maximum 12-Month Total (ton/year)	4.8													
Monthly Emissions (lb/month)														
On-Site														
Equipment	0.0	328.8	328.8	328.8	328.8	338.6	239.3	359.0	451.4	485.0	491.5	491.5	504.7	504.7
Motor Vehicles	0.1	4.0	4.0	4.0	4.0	4.0	2.0	2.0	2.5	2.5	2.5	2.5	2.0	2.0
On-Site Total	0.1	332.8	332.8	332.8	332.8	342.6	241.3	361.0	453.9	487.5	494.0	494.0	506.7	506.7
Off-Site Motor Vehicles	5.3	5.3	45.8	45.8	45.8	222.1	247.3	270.7	314.1	356.4	398.7	525.6	546.8	483.3
Monthly Total	5.4	338.1	378.6	378.6	378.6	564.7	488.7	631.6	768.0	843.9	892.7	1,019.7	1,053.5	990.1
Maximum On-Site Monthly Total (lb/month)	506.7													
Maximum Monthly Total (lb/month)	1,053.5													
Daily Emissions (lb/day)[b]														
On-Site														
Equipment	0.0	14.9	14.9	14.9	14.9	15.4	10.9	16.3	20.5	22.0	22.3	22.3	22.9	22.9
Motor Vehicles	0.0	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
On-Site Total	0.0	15.1	15.1	15.1	15.1	15.6	11.0	16.4	20.6	22.2	22.5	22.5	23.0	23.0
Off-Site Motor Vehicles	0.2	0.2	2.1	2.1	2.1	10.1	11.2	12.3	14.3	16.2	18.1	23.9	24.9	22.0
Daily Total	0.2	15.4	17.2	17.2	17.2	25.7	22.2	28.7	34.9	38.4	40.6	46.3	47.9	45.0
Maximum On-Site Daily Total (lb/day)	23.0													
Maximum Off-Site Daily Total (lb/day)	24.9													
Maximum Daily Total (lb/day)	47.9													
Hourly Emissions (lb/hour)[c]														
On-Site														
Equipment	0.0	1.9	1.9	1.9	1.9	2.0	1.8	2.7	3.5	3.7	3.7	3.7	3.8	3.8
Motor Vehicles	0.0	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Total	0.0	1.9	1.9	1.9	1.9	2.0	1.8	2.7	3.5	3.7	3.8	3.8	3.9	3.9
Off-Site Motor Vehicles	0.1	0.1	1.3	1.3	1.3	3.2	4.0	4.6	5.8	6.9	8.0	11.4	12.0	10.3
Hourly Total	0.1	2.1	3.2	3.2	3.2	5.3	5.8	7.4	9.3	10.7	11.8	15.2	15.8	14.2
Maximum On-Site Hourly Total (lb/hour)	3.9													
Maximum Hourly Total (lb/hour)	15.8													

Table 13-C (continued)
Solar Array Construction VOC Emissions Summary

	Month 15	Month 16	Month 17	Month 18	Month 19	Month 20	Month 21	Month 22	Month 23	Month 24	Month 25	Month 26	Month 27
12-Month Running Emissions (ton/yr)[a]													
On-Site													
Equipment	1.3	1.0	0.8	0.6	0.4	0.3	0.2	0.1	0.0	0.0	0.0	0.0	0.0
Motor Vehicles	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Total	**1.3**	**1.0**	**0.8**	**0.6**	**0.4**	**0.3**	**0.2**	**0.1**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
Off-Site Motor Vehicles	**0.8**	**0.7**	**0.5**	**0.4**	**0.3**	**0.2**	**0.2**	**0.1**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
12-Month Total	**2.1**	**1.7**	**1.4**	**1.0**	**0.7**	**0.5**	**0.3**	**0.2**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
Monthly Emissions (lb/month)													
On-Site													
Equipment	504.7	420.8	459.1	438.1	200.0	182.7	176.2	169.6	0.0	0.0	0.0	0.0	0.0
Motor Vehicles	2.0	2.0	2.0	2.0	1.5	1.5	1.5	1.5	0.0	0.0	0.0	0.0	0.0
On-Site Total	**506.7**	**422.8**	**461.1**	**440.1**	**201.5**	**184.3**	**177.7**	**171.1**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
Off-Site Motor Vehicles	**356.4**	**250.6**	**218.9**	**218.9**	**158.9**	**158.9**	**158.9**	**158.9**	**0.7**	**0.7**	**0.0**	**0.0**	**0.0**
Monthly Total	**863.1**	**673.5**	**680.0**	**659.0**	**360.4**	**343.2**	**336.6**	**330.0**	**0.7**	**0.7**	**0.0**	**0.0**	**0.0**
Daily Emissions (lb/day)[b]													
On-Site													
Equipment	22.9	19.1	20.9	19.9	9.1	8.3	8.0	7.7	0.0	0.0	0.0	0.0	0.0
Motor Vehicles	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0
On-Site Total	**23.0**	**19.2**	**21.0**	**20.0**	**9.2**	**8.4**	**8.1**	**7.8**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
Off-Site Motor Vehicles	**16.2**	**11.4**	**10.0**	**10.0**	**7.2**	**7.2**	**7.2**	**7.2**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
Daily Total	**39.2**	**30.6**	**30.9**	**30.0**	**16.4**	**15.6**	**15.3**	**15.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
Hourly Emissions (lb/hour)[c]													
On-Site													
Equipment	3.8	3.2	3.5	3.3	1.5	1.4	1.3	1.3	0.0	0.0	0.0	0.0	0.0
Motor Vehicles	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Total	**3.9**	**3.2**	**3.5**	**3.3**	**1.6**	**1.4**	**1.4**	**1.3**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
Off-Site Motor Vehicles	**4.8**	**4.3**	**3.8**	**3.6**	**3.1**	**3.0**	**2.8**	**2.4**	**2.2**	**2.0**	**2.0**	**2.0**	**1.9**
Hourly Total	**8.6**	**7.5**	**7.3**	**7.0**	**4.7**	**4.4**	**4.1**	**3.7**	**2.2**	**2.0**	**2.0**	**2.0**	**1.9**

[a] The value for each month is the total for that month and the next 11 months
[b] Daily emissions = Monthly emissions / 22 working days/month
[c] Hourly emissions are based on simultaneous operation of all emission sources

Table 13-D
Solar Array Construction Maximum On-Site VOC Emissions Summary

Source	Hourly (lb/hr)	Daily (lb/day)	Annual (ton/yr)
Equipment[a]	3.8	22.9	2.7
Motor Vehicles[a]	0.0	0.1	0.0
Maximum On-Site Total	**3.9**	**23.0**	**2.7**

[a] Emissions from source during period with maximum on-site total emissions

Table 13-E
Solar Array Construction NOx Emissions Summary

	Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12	Month 13	Month 14
12-Month Running Emissions (ton/year)[a]														
	13.2	14.4	14.3	14.1	13.9	13.7	13.5	13.3	12.7	11.7	10.7	9.5	8.4	7.1
On-Site														
Equipment	13.0	14.2	14.1	13.9	13.7	13.6	13.4	13.2	12.6	11.6	10.6	9.5	8.3	7.1
Motor Vehicles	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
On-Site Total	13.2	14.4	14.3	14.1	13.9	13.7	13.5	13.3	12.7	11.7	10.7	9.5	8.4	7.1
Off-Site Motor Vehicles	8.2	9.5	10.7	11.9	12.9	14.0	14.1	14.0	13.9	13.8	13.7	12.5	11.2	9.9
12-Month Total	21.4	23.9	25.0	26.0	26.8	27.8	27.6	27.3	26.6	25.5	24.4	22.0	19.6	17.1
Maximum On-Site 12-Month Total (ton/year)	14.4													
Maximum 12-Month Total (ton/year)	27.8													
Monthly Emissions (lb/month)														
On-Site														
Equipment	0.0	2,718.1	2,718.1	2,718.1	2,718.1	2,776.9	1,136.7	1,735.9	2,430.7	2,328.3	2,356.9	2,356.9	2,437.2	2,437.2
Motor Vehicles	0.1	58.7	58.7	58.7	58.7	58.7	23.1	23.1	24.3	24.3	24.3	24.3	17.0	17.0
On-Site Total	0.1	2,776.7	2,776.7	2,776.7	2,776.7	2,835.6	1,159.9	1,759.0	2,455.0	2,352.6	2,381.2	2,381.2	2,454.2	2,454.2
Off-Site Motor Vehicles	4.9	4.9	80.4	80.4	80.4	2,130.6	2,211.2	2,263.3	2,318.6	2,357.6	2,396.7	2,513.9	2,533.4	2,474.8
Monthly Total	4.9	2,781.6	2,857.1	2,857.1	2,857.1	4,966.2	3,371.1	4,022.3	4,773.6	4,710.2	4,777.9	4,895.1	4,987.6	4,929.0
Maximum On-Site Monthly Total (lb/month)	2,835.6													
Maximum Monthly Total (lb/month)	4,987.6													
Daily Emissions (lb/day)[b]														
On-Site														
Equipment	0.0	123.5	123.5	123.5	123.5	126.2	51.7	78.9	110.5	105.8	107.1	107.1	110.8	110.8
Motor Vehicles	0.0	2.7	2.7	2.7	2.7	2.7	1.1	1.1	1.1	1.1	1.1	1.1	0.8	0.8
On-Site Total	0.0	126.2	126.2	126.2	126.2	128.9	52.7	80.0	111.6	106.9	108.2	108.2	111.6	111.6
Off-Site Motor Vehicles	0.2	0.2	3.7	3.7	3.7	96.8	100.5	102.9	105.4	107.2	108.9	114.3	115.2	112.5
Daily Total	0.2	126.4	129.9	129.9	129.9	225.7	153.2	182.8	217.0	214.1	217.2	222.5	226.7	224.0
Maximum On-Site Daily Total (lb/day)	128.9													
Maximum Off-Site Daily Total (lb/day)	115.2													
Maximum Daily Total (lb/day)	226.7													
Hourly Emissions (lb/hour)[c]														
On-Site														
Equipment	0.0	15.4	15.4	15.4	15.4	16.0	8.7	13.6	19.3	18.5	18.7	18.7	19.3	19.3
Motor Vehicles	0.0	1.2	1.2	1.2	1.2	1.2	0.5	0.5	0.5	0.5	0.5	0.5	0.3	0.3
On-Site Total	0.0	16.6	16.6	16.6	16.6	17.2	9.2	14.0	19.8	19.0	19.2	19.2	19.6	19.6
Off-Site Motor Vehicles	0.1	0.1	2.9	2.9	2.9	21.0	24.3	26.3	28.1	29.1	30.2	33.3	33.8	32.3
Hourly Total	0.1	16.8	19.5	19.5	19.5	38.3	33.5	40.4	47.9	48.1	49.4	52.5	53.4	51.9
Maximum On-Site Hourly Total (lb/hour)	20.0													
Maximum Hourly Total (lb/hour)	53.4													

Table 13-E (continued)
Solar Array Construction NOx Emissions Summary

	Month 15	Month 16	Month 17	Month 18	Month 19	Month 20	Month 21	Month 22	Month 23	Month 24	Month 25	Month 26	Month 27
12-Month Running Emissions (ton/yr)[a]													
On-Site													
Equipment	5.9	4.6	3.5	2.2	1.0	0.7	0.5	0.2	0.0	0.0	0.0	0.0	0.0
Motor Vehicles	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Total	**5.9**	**4.7**	**3.6**	**2.3**	**1.1**	**0.7**	**0.5**	**0.2**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
Off-Site Motor Vehicles	**8.7**	**7.5**	**6.4**	**5.3**	**4.2**	**3.1**	**2.1**	**1.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
12-Month Total	**14.6**	**12.2**	**9.9**	**7.5**	**5.2**	**3.8**	**2.5**	**1.3**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
Monthly Emissions (lb/month)													
On-Site													
Equipment	2,437.2	2,237.8	2,536.1	2,410.8	671.8	498.7	470.1	441.4	0.0	0.0	0.0	0.0	0.0
Motor Vehicles	17.0	17.0	17.0	17.0	9.7	9.7	9.7	9.7	0.0	0.0	0.0	0.0	0.0
On-Site Total	**2,454.2**	**2,254.8**	**2,553.0**	**2,427.8**	**681.4**	**508.4**	**479.7**	**451.1**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
Off-Site Motor Vehicles	**2,357.6**	**2,260.0**	**2,230.7**	**2,230.7**	**2,076.1**	**2,076.1**	**2,076.1**	**2,076.1**	**0.7**	**0.7**	**0.0**	**0.0**	**0.0**
Monthly Total	**4,811.8**	**4,514.8**	**4,783.8**	**4,658.5**	**2,757.5**	**2,584.5**	**2,555.8**	**2,527.2**	**0.7**	**0.7**	**0.0**	**0.0**	**0.0**
Daily Emissions (lb/day)[b]													
On-Site													
Equipment	110.8	101.7	115.3	109.6	30.5	22.7	21.4	20.1	0.0	0.0	0.0	0.0	0.0
Motor Vehicles	0.8	0.8	0.8	0.8	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.0	0.0
On-Site Total	**111.6**	**102.5**	**116.0**	**110.4**	**31.0**	**23.1**	**21.8**	**20.5**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
Off-Site Motor Vehicles	**107.2**	**102.7**	**101.4**	**101.4**	**94.4**	**94.4**	**94.4**	**94.4**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
Daily Total	**218.7**	**205.2**	**217.4**	**211.8**	**125.3**	**117.5**	**116.2**	**114.9**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
Hourly Emissions (lb/hour)[c]													
On-Site													
Equipment	19.3	17.4	19.6	18.7	5.5	4.2	4.0	3.8	0.0	0.0	0.0	0.0	0.0
Motor Vehicles	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0
On-Site Total	**19.6**	**17.7**	**20.0**	**19.0**	**5.7**	**4.4**	**4.2**	**4.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
Off-Site Motor Vehicles	**11.6**	**9.9**	**9.6**	**9.3**	**5.2**	**5.0**	**4.8**	**4.6**	**4.4**	**4.3**	**4.2**	**4.2**	**4.1**
Hourly Total	**31.3**	**27.6**	**29.5**	**28.3**	**10.9**	**9.4**	**8.9**	**8.5**	**4.4**	**4.3**	**4.2**	**4.2**	**4.1**

[a] The value for each month is the total for that month and the next 11 months

[b] Daily emissions = Monthly emissions / 22 working days/month

[c] Hourly emissions are based on simultaneous operation of all emission sources

Table 13-F
Solar Array Construction Maximum On-Site NOx Emissions Summary

Source	Hourly (lb/hr)	Daily (lb/day)	Annual (ton/yr)
Equipment[a]	19.6	126.2	14.2
Motor Vehicles[a]	0.3	2.7	0.2
Maximum On-Site Total	**20.0**	**128.9**	**14.4**

[a] Emissions from source during period with maximum on-site total emissions

Table 13-G
Solar Array Construction SOx Emissions Summary

	Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12	Month 13	Month 14
12-Month Running Emissions (ton/year)[a]														
On-Site														
Equipment	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Motor Vehicles	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Total	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
Off-Site Motor Vehicles	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
12-Month Total	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
Maximum On-Site 12-Month Total (ton/year)	**0.0**													
Maximum 12-Month Total (ton/year)	**0.0**													
Monthly Emissions (lb/month)														
On-Site														
Equipment	0.0	6.1	6.1	6.1	6.1	6.2	1.2	1.9	2.6	2.6	2.6	2.6	2.7	2.7
Motor Vehicles	0.0	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Total	**0.0**	**6.3**	**6.3**	**6.3**	**6.3**	**6.3**	**1.3**	**2.0**	**2.6**	**2.6**	**2.6**	**2.6**	**2.7**	**2.7**
Off-Site Motor Vehicles	**0.0**	**0.0**	**0.1**	**0.1**	**0.1**	**4.5**	**4.6**	**4.7**	**4.7**	**4.7**	**4.7**	**4.7**	**4.7**	**4.7**
Monthly Total	**0.0**	**6.3**	**6.3**	**6.3**	**6.3**	**10.8**	**5.9**	**6.6**	**7.3**	**7.3**	**7.3**	**7.3**	**7.4**	**7.4**
Maximum On-Site Monthly Total (lb/month)	**6.3**													
Maximum Monthly Total (lb/month)	**10.8**													
Daily Emissions (lb/day)[b]														
On-Site														
Equipment	0.0	0.3	0.3	0.3	0.3	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Motor Vehicles	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Total	**0.0**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**
Off-Site Motor Vehicles	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**
Daily Total	**0.0**	**0.3**	**0.3**	**0.3**	**0.3**	**0.5**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**
Maximum On-Site Daily Total (lb/day)	**0.3**													
Maximum Off-Site Daily Total (lb/day)	**0.2**													
Maximum Daily Total (lb/day)	**0.5**													
Hourly Emissions (lb/hour)[c]														
On-Site														
Equipment	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Motor Vehicles	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Total	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
Off-Site Motor Vehicles	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**
Hourly Total	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**
Maximum On-Site Hourly Total (lb/hour)	**0.0**													
Maximum Hourly Total (lb/hour)	**0.1**													

Table 13-G (continued)
Solar Array Construction SOx Emissions Summary

	Month 15	Month 16	Month 17	Month 18	Month 19	Month 20	Month 21	Month 22	Month 23	Month 24	Month 25	Month 26	Month 27
12-Month Running Emissions (ton/yr)[a]													
On-Site													
Equipment	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Motor Vehicles	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Total	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
Off-Site Motor Vehicles	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
12-Month Total	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
Monthly Emissions (lb/month)													
On-Site													
Equipment	2.7	2.5	2.7	2.6	0.8	0.6	0.6	0.5	0.0	0.0	0.0	0.0	0.0
Motor Vehicles	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Total	**2.7**	**2.5**	**2.8**	**2.7**	**0.8**	**0.6**	**0.6**	**0.5**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
Off-Site Motor Vehicles	**4.7**	**4.7**	**4.7**	**4.7**	**4.5**	**4.5**	**4.5**	**4.5**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
Monthly Total	**7.4**	**7.2**	**7.4**	**7.3**	**5.3**	**5.1**	**5.1**	**5.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
Daily Emissions (lb/day)[b]													
On-Site													
Equipment	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Motor Vehicles	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Total	**0.1**	**0.1**	**0.1**	**0.1**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
Off-Site Motor Vehicles	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
Daily Total	**0.3**	**0.3**	**0.3**	**0.3**	**0.2**	**0.2**	**0.2**	**0.2**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
Hourly Emissions (lb/hour)[c]													
On-Site													
Equipment	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Motor Vehicles	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Total	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
Off-Site Motor Vehicles	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
Hourly Total	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**

[a] The value for each month is the total for that month and the next 11 months

[b] Daily emissions = Monthly emissions / 22 working days/month

[c] Hourly emissions are based on simultaneous operation of all emission sources

Table 13-H
Solar Array Construction Maximum On-Site SOx Emissions Summary

Source	Hourly (lb/hr)	Daily (lb/day)	Annual (ton/yr)
Equipment[a]	0.0	0.3	0.0
Motor Vehicles[a]	0.0	0.0	0.0
Maximum On-Site Total	**0.0**	**0.3**	**0.0**

[a] Emissions from source during period with maximum on-site total emissions

Table 13-I
Solar Array Construction PM10 Emissions Summary

	Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12	Month 13	Month 14
12-Month Running Emissions (ton/year)[a]														
On-Site														
Equipment	0.8	0.9	0.9	1.0	1.0	1.0	1.0	1.0	1.0	0.9	0.9	0.8	0.7	0.6
Motor Vehicle Exhaust	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fugitive	6.6	6.8	6.3	5.7	5.1	4.4	4.1	4.0	3.9	3.8	3.6	3.2	2.8	2.5
On-Site Total	**7.4**	**7.7**	**7.3**	**6.7**	**6.0**	**5.4**	**5.1**	**5.0**	**4.9**	**4.7**	**4.5**	**4.0**	**3.5**	**3.1**
Off-Site Motor Vehicle Exhaust and Fugitive	**1.4**	**1.7**	**1.9**	**2.1**	**2.2**	**2.3**	**2.3**	**2.3**	**2.2**	**2.1**	**2.0**	**1.8**	**1.5**	**1.2**
12-Month Total	**8.8**	**9.3**	**9.2**	**8.8**	**8.2**	**7.7**	**7.4**	**7.3**	**7.1**	**6.8**	**6.5**	**5.8**	**5.0**	**4.3**
Maximum On-Site 12-Month Total (ton/year)	**7.7**													
Maximum 12-Month Total (ton/year)	**9.3**													
Monthly Emissions (lb/month)														
On-Site														
Equipment	0.0	124.7	124.7	124.7	124.7	129.9	89.2	133.9	174.6	182.0	184.0	184.0	191.4	191.4
Motor Vehicle Exhaust	0.0	2.4	2.4	2.4	2.4	2.4	0.9	0.9	0.9	0.9	0.9	0.9	0.6	0.6
Fugitive	309.7	1,479.6	1,928.4	1,928.4	1,928.4	1,280.7	630.8	630.8	777.0	777.0	777.0	777.0	630.8	630.8
On-Site Total	**309.7**	**1,606.8**	**2,055.6**	**2,055.6**	**2,055.6**	**1,413.1**	**720.9**	**765.6**	**952.5**	**959.9**	**961.9**	**961.9**	**822.8**	**822.8**
Off-Site Motor Vehicle Exhaust and Fugitive	**6.3**	**6.3**	**53.7**	**53.7**	**53.7**	**236.0**	**265.2**	**292.5**	**343.7**	**393.8**	**443.9**	**594.2**	**619.2**	**544.1**
Monthly Total	**316.0**	**1,613.0**	**2,109.3**	**2,109.3**	**2,109.3**	**1,649.1**	**986.2**	**1,058.1**	**1,296.2**	**1,353.7**	**1,405.8**	**1,556.1**	**1,442.0**	**1,366.8**
Maximum On-Site Monthly Total (lb/month)	**2,055.6**													
Maximum Monthly Total (lb/month)	**2,109.3**													
Daily Emissions (lb/day)[b]														
On-Site														
Equipment	0.0	5.7	5.7	5.7	5.7	5.9	4.1	6.1	7.9	8.3	8.4	8.4	8.7	8.7
Motor Vehicle Exhaust	0.0	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fugitive	14.1	67.3	87.7	87.7	87.7	58.2	28.7	28.7	35.3	35.3	35.3	35.3	28.7	28.7
On-Site Total	**14.1**	**73.0**	**93.4**	**93.4**	**93.4**	**64.2**	**32.8**	**34.8**	**43.3**	**43.6**	**43.7**	**43.7**	**37.4**	**37.4**
Off-Site Motor Vehicle Exhaust and Fugitive	**0.3**	**0.3**	**2.4**	**2.4**	**2.4**	**10.7**	**12.1**	**13.3**	**15.6**	**17.9**	**20.2**	**27.0**	**28.1**	**24.7**
Daily Total	**14.4**	**73.3**	**95.9**	**95.9**	**95.9**	**75.0**	**44.8**	**48.1**	**58.9**	**61.5**	**63.9**	**70.7**	**65.5**	**62.1**
Maximum On-Site Daily Total (lb/day)	**93.4**													
Maximum Off-Site Daily Total (lb/day)	**28.1**													
Maximum Daily Total (lb/day)	**95.9**													
Hourly Emissions (lb/hour)[c]														
On-Site														
Equipment	0.0	0.7	0.7	0.7	0.7	0.8	0.7	1.0	1.4	1.4	1.4	1.4	1.5	1.5
Motor Vehicle Exhaust	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fugitive	1.5	26.5	28.2	28.2	28.2	26.5	12.2	12.2	15.1	15.1	15.1	15.1	12.2	12.2
On-Site Total	**1.5**	**27.3**	**28.9**	**28.9**	**28.9**	**27.3**	**12.9**	**13.2**	**16.5**	**16.6**	**16.6**	**16.6**	**13.7**	**13.7**
Off-Site Motor Vehicle Exhaust and Fugitive	**0.2**	**0.2**	**1.5**	**1.5**	**1.5**	**3.5**	**4.4**	**5.2**	**6.5**	**7.9**	**9.2**	**13.2**	**13.8**	**11.9**
Hourly Total	**1.6**	**27.4**	**30.4**	**30.4**	**30.4**	**30.9**	**17.2**	**18.4**	**23.0**	**24.4**	**25.8**	**29.8**	**27.5**	**25.5**
Maximum On-Site Hourly Total (lb/hour)	**28.9**													
Maximum Hourly Total (lb/hour)	**30.9**													

Table 13-I (continued)
Solar Array Construction PM10 Emissions Summary

	Month 15	Month 16	Month 17	Month 18	Month 19	Month 20	Month 21	Month 22	Month 23	Month 24	Month 25	Month 26	Month 27
12-Month Running Emissions (ton/yr)[a]													
On-Site													
Equipment	0.5	0.4	0.3	0.2	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Motor Vehicle Exhaust	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fugitive	2.2	1.9	1.6	1.3	0.9	0.7	0.5	0.2	0.0	0.0	0.0	0.0	0.0
On-Site Total	**2.7**	**2.3**	**1.9**	**1.5**	**1.1**	**0.8**	**0.5**	**0.3**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
Off-Site Motor Vehicle Exhaust and Fugitive	**0.9**	**0.7**	**0.6**	**0.4**	**0.3**	**0.2**	**0.2**	**0.1**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
12-Month Total	**3.6**	**3.0**	**2.4**	**1.9**	**1.4**	**1.0**	**0.7**	**0.3**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
Monthly Emissions (lb/month)													
On-Site													
Equipment	191.4	157.7	174.9	164.3	75.3	68.8	66.7	64.7	0.0	0.0	0.0	0.0	0.0
Motor Vehicle Exhaust	0.6	0.6	0.6	0.6	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0
Fugitive	630.8	630.8	630.8	630.8	484.5	484.5	484.5	438.6	0.0	0.0	0.0	0.0	0.0
On-Site Total	**822.8**	**789.1**	**806.3**	**795.6**	**560.2**	**553.6**	**551.6**	**503.7**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
Off-Site Motor Vehicle Exhaust and Fugitive	**393.8**	**268.6**	**231.0**	**231.0**	**161.2**	**161.2**	**161.2**	**161.2**	**0.8**	**0.8**	**0.0**	**0.0**	**0.0**
Monthly Total	**1,216.6**	**1,057.6**	**1,037.3**	**1,026.7**	**721.3**	**714.8**	**712.7**	**664.8**	**0.8**	**0.8**	**0.0**	**0.0**	**0.0**
Daily Emissions (lb/day)[b]													
On-Site													
Equipment	8.7	7.2	8.0	7.5	3.4	3.1	3.0	2.9	0.0	0.0	0.0	0.0	0.0
Motor Vehicle Exhaust	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fugitive	28.7	28.7	28.7	28.7	22.0	22.0	22.0	19.9	0.0	0.0	0.0	0.0	0.0
On-Site Total	**37.4**	**35.9**	**36.7**	**36.2**	**25.5**	**25.2**	**25.1**	**22.9**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
Off-Site Motor Vehicle Exhaust and Fugitive	**17.9**	**12.2**	**10.5**	**10.5**	**7.3**	**7.3**	**7.3**	**7.3**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
Daily Total	**55.3**	**48.1**	**47.2**	**46.7**	**32.8**	**32.5**	**32.4**	**30.2**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
Hourly Emissions (lb/hour)[c]													
On-Site													
Equipment	1.5	1.2	1.3	1.3	0.6	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0
Motor Vehicle Exhaust	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fugitive	12.2	12.2	12.2	12.2	9.2	9.2	9.2	9.2	0.0	0.0	0.0	0.0	0.0
On-Site Total	**13.7**	**13.4**	**13.5**	**13.4**	**9.8**	**9.8**	**9.7**	**9.7**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
Off-Site Motor Vehicle Exhaust and Fugitive	**5.5**	**4.9**	**4.4**	**4.2**	**3.7**	**3.5**	**3.2**	**2.8**	**2.6**	**2.4**	**2.3**	**2.3**	**2.2**
Hourly Total	**19.1**	**18.3**	**17.9**	**17.6**	**13.5**	**13.3**	**13.0**	**12.5**	**2.6**	**2.4**	**2.3**	**2.3**	**2.2**

[a] The value for each month is the total for that month and the next 11 months

[b] Daily emissions = Monthly emissions / 22 working days/month

[c] Hourly emissions are based on simultaneous operation of all emission sources

Table 13-J
Solar Array Construction Maximum On-Site PM10 Emissions Summary

Source	Hourly (lb/hr)	Daily (lb/day)	Annual (ton/yr)
Equipment[a]	0.7	5.7	0.9
Motor Vehicle Exhaust[a]	0.0	0.1	0.0
Fugitive[a]	28.2	87.7	6.8
Maximum On-Site Total	**28.9**	**93.4**	**7.7**

[a] Emissions from source during period with maximum on-site total emissions

Table 13-K
Solar Array Construction PM2.5 Emissions Summary

	Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12	Month 13	Month 14
12-Month Running Emissions (ton/year)[a]														
On-Site														
Equipment	0.7	0.8	0.8	0.8	0.8	0.9	0.9	0.9	0.8	0.8	0.7	0.7	0.6	0.5
Motor Vehicle Exhaust	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fugitive	1.4	1.4	1.3	1.2	1.1	0.9	0.9	0.8	0.8	0.8	0.8	0.7	0.6	0.5
On-Site Total	**2.1**	**2.2**	**2.2**	**2.0**	**1.9**	**1.8**	**1.7**	**1.7**	**1.7**	**1.6**	**1.5**	**1.3**	**1.2**	**1.0**
Off-Site Motor Vehicle Exhaust and Fugitive	**0.5**	**0.6**	**0.7**	**0.8**	**0.8**	**0.9**	**0.9**	**0.8**	**0.8**	**0.8**	**0.8**	**0.7**	**0.6**	**0.5**
12-Month Total	**2.6**	**2.8**	**2.8**	**2.8**	**2.7**	**2.7**	**2.6**	**2.6**	**2.5**	**2.4**	**2.3**	**2.0**	**1.8**	**1.5**
Maximum On-Site 12-Month Total (ton/year)	**2.2**													
Maximum 12-Month Total (ton/year)	**2.8**													
Monthly Emissions (lb/month)														
On-Site														
Equipment	0.0	114.8	114.8	114.8	114.8	119.6	76.2	114.3	151.7	155.6	157.4	157.4	164.2	164.2
Motor Vehicle Exhaust	0.0	2.2	2.2	2.2	2.2	2.2	0.8	0.8	0.8	0.8	0.8	0.8	0.6	0.6
Fugitive	64.7	312.7	406.1	406.1	406.1	271.4	133.6	133.6	164.6	164.6	164.6	164.6	133.5	133.5
On-Site Total	**64.7**	**429.7**	**523.1**	**523.1**	**523.1**	**393.2**	**210.6**	**248.7**	**317.1**	**321.0**	**322.8**	**322.8**	**298.3**	**298.3**
Off-Site Motor Vehicle Exhaust and Fugitive	**1.3**	**3.5**	**14.4**	**14.4**	**14.4**	**110.8**	**117.2**	**123.7**	**134.7**	**144.9**	**155.2**	**185.9**	**190.8**	**175.4**
Monthly Total	**66.0**	**433.2**	**537.5**	**537.5**	**537.5**	**503.9**	**327.7**	**372.4**	**451.8**	**465.9**	**478.0**	**508.8**	**489.1**	**473.7**
Maximum On-Site Monthly Total (lb/month)	**523.1**													
Maximum Monthly Total (lb/month)	**537.5**													
Daily Emissions (lb/day)[b]														
On-Site														
Equipment	0.0	5.2	5.2	5.2	5.2	5.4	3.5	5.2	6.9	7.1	7.2	7.2	7.5	7.5
Motor Vehicle Exhaust	0.0	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fugitive	2.9	14.2	18.5	18.5	18.5	12.3	6.1	6.1	7.5	7.5	7.5	7.5	6.1	6.1
On-Site Total	**2.9**	**19.5**	**23.8**	**23.8**	**23.8**	**17.9**	**9.6**	**11.3**	**14.4**	**14.6**	**14.7**	**14.7**	**13.6**	**13.6**
Off-Site Motor Vehicle Exhaust and Fugitive	**0.1**	**0.2**	**0.7**	**0.7**	**0.7**	**5.0**	**5.3**	**5.6**	**6.1**	**6.6**	**7.1**	**8.5**	**8.7**	**8.0**
Daily Total	**3.0**	**19.7**	**24.4**	**24.4**	**24.4**	**22.9**	**14.9**	**16.9**	**20.5**	**21.2**	**21.7**	**23.1**	**22.2**	**21.5**
Maximum On-Site Daily Total (lb/day)	**23.8**													
Maximum Off-Site Daily Total (lb/day)	**8.7**													
Maximum Daily Total (lb/day)	**24.4**													
Hourly Emissions (lb/hour)[c]														
On-Site														
Equipment	0.0	0.7	0.7	0.7	0.7	0.7	0.6	0.9	1.2	1.2	1.2	1.2	1.3	1.3
Motor Vehicle Exhaust	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fugitive	0.3	5.6	6.0	6.0	6.0	5.6	2.6	2.6	3.2	3.2	3.2	3.2	2.6	2.6
On-Site Total	**0.3**	**6.3**	**6.7**	**6.7**	**6.7**	**6.4**	**3.2**	**3.5**	**4.4**	**4.4**	**4.5**	**4.5**	**3.9**	**3.9**
Off-Site Motor Vehicle Exhaust and Fugitive	**0.0**	**0.1**	**0.4**	**0.4**	**0.4**	**1.3**	**1.6**	**1.8**	**2.1**	**2.3**	**2.6**	**3.4**	**3.6**	**3.2**
Hourly Total	**0.3**	**6.4**	**7.1**	**7.1**	**7.1**	**7.7**	**4.7**	**5.2**	**6.5**	**6.8**	**7.1**	**7.9**	**7.4**	**7.0**
Maximum On-Site Hourly Total (lb/hour)	**6.7**													
Maximum Hourly Total (lb/hour)	**7.9**													

Table 13-K (continued)
Solar Array Construction PM2.5 Emissions Summary

	Month 15	Month 16	Month 17	Month 18	Month 19	Month 20	Month 21	Month 22	Month 23	Month 24	Month 25	Month 26	Month 27
12-Month Running Emissions (ton/yr)[a]													
On-Site													
Equipment	0.4	0.3	0.3	0.2	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Motor Vehicle Exhaust	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fugitive	0.5	0.4	0.3	0.3	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Total	**0.9**	**0.7**	**0.6**	**0.5**	**0.3**	**0.2**	**0.2**	**0.1**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
Off-Site Motor Vehicle Exhaust and Fugitive	**0.4**	**0.4**	**0.3**	**0.2**	**0.2**	**0.1**	**0.1**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
12-Month Total	**1.3**	**1.1**	**0.9**	**0.7**	**0.5**	**0.4**	**0.2**	**0.1**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
Monthly Emissions (lb/month)													
On-Site													
Equipment	164.2	136.2	152.0	142.2	63.4	57.3	55.5	53.6	0.0	0.0	0.0	0.0	0.0
Motor Vehicle Exhaust	0.6	0.6	0.6	0.6	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0
Fugitive	133.5	133.5	133.5	133.5	102.5	102.5	102.5	93.0	0.0	0.0	0.0	0.0	0.0
On-Site Total	**298.3**	**270.3**	**286.2**	**276.3**	**166.2**	**160.2**	**158.3**	**146.9**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
Off-Site Motor Vehicle Exhaust and Fugitive	**144.6**	**119.0**	**111.3**	**111.3**	**93.6**	**93.6**	**93.6**	**93.6**	**0.2**	**0.2**	**0.0**	**0.0**	**0.0**
Monthly Total	**443.0**	**389.3**	**397.5**	**387.7**	**259.8**	**253.8**	**251.9**	**240.5**	**0.2**	**0.2**	**0.0**	**0.0**	**0.0**
Daily Emissions (lb/day)[b]													
On-Site													
Equipment	7.5	6.2	6.9	6.5	2.9	2.6	2.5	2.4	0.0	0.0	0.0	0.0	0.0
Motor Vehicle Exhaust	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fugitive	6.1	6.1	6.1	6.1	4.7	4.7	4.7	4.2	0.0	0.0	0.0	0.0	0.0
On-Site Total	**13.6**	**12.3**	**13.0**	**12.6**	**7.6**	**7.3**	**7.2**	**6.7**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
Off-Site Motor Vehicle Exhaust and Fugitive	**6.6**	**5.4**	**5.1**	**5.1**	**4.3**	**4.3**	**4.3**	**4.3**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
Daily Total	**20.1**	**17.7**	**18.1**	**17.6**	**11.8**	**11.5**	**11.5**	**10.9**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
Hourly Emissions (lb/hour)[c]													
On-Site													
Equipment	1.3	1.0	1.2	1.1	0.5	0.5	0.4	0.4	0.0	0.0	0.0	0.0	0.0
Motor Vehicle Exhaust	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fugitive	2.6	2.6	2.6	2.6	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0
On-Site Total	**3.9**	**3.6**	**3.8**	**3.7**	**2.5**	**2.4**	**2.4**	**2.4**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
Off-Site Motor Vehicle Exhaust and Fugitive	**1.4**	**1.2**	**1.1**	**1.1**	**0.8**	**0.8**	**0.7**	**0.6**	**0.6**	**0.6**	**0.5**	**0.5**	**0.5**
Hourly Total	**5.2**	**4.8**	**4.9**	**4.7**	**3.3**	**3.2**	**3.1**	**3.0**	**0.6**	**0.6**	**0.5**	**0.5**	**0.5**

[a] The value for each month is the total for that month and the next 11 months

[b] Daily emissions = Monthly emissions / 22 working days/month

[c] Hourly emissions are based on simultaneous operation of all emission sources

Table 13-L
Solar Array Construction Maximum On-Site PM2.5 Emissions Summary

Source	Hourly (lb/hr)	Daily (lb/day)	Annual (ton/yr)
Equipment[a]	0.7	5.2	0.8
Motor Vehicle Exhaust[a]	0.0	0.1	0.0
Fugitive[a]	6.0	18.5	1.4
Maximum On-Site Total	**6.7**	**23.8**	**2.2**

[a] Emissions from source during period with maximum on-site total emissions

Table 14-A
Emission Rates for Modeling Impacts During Construction of Combined Cycle Facility

Pollutant	Source	Averaging Period	Emission Rate (lb/hr)	How Calculated
CO	Construction Equipment	1-hr	4.10E+01	Maximum hourly (lb/hr)
CO	On-site Motor Vehicles	1-hr	5.89E-01	Maximum hourly (lb/hr)
CO	Construction Equipment	8-hr	4.10E+01	Maximum hourly (lb/hr)
CO	On-site Motor Vehicles	8-hr	5.89E-01	Maximum hourly (lb/hr)
NO2	Construction Equipment	1-hr	2.21E+01	Maximum hourly (lb/hr)
NO2	On-site Motor Vehicles	1-hr	4.07E-01	Maximum hourly (lb/hr)
NO2	Construction Equipment	Annual	6.67E+00	Max. Annual (ton/yr)x2000 (lb/ton) /365 days per year/10 hr. per day
NO2	On-site Motor Vehicles	Annual	5.88E-02	Max. Annual (ton/yr)x2000 (lb/ton) /365 days per year/10 hr. per day
SO2	Construction Equipment	1-hr	2.24E-02	Maximum hourly (lb/hr)
SO2	On-site Motor Vehicles	1-hr	8.66E-04	Maximum hourly (lb/hr)
SO2	Construction Equipment	3-hr	2.24E-02	Maximum hourly (lb/hr)
SO2	On-site Motor Vehicles	3-hr	8.66E-04	Maximum hourly (lb/hr)
SO2	Construction Equipment	24-hr	1.08E-02	Max. daily (lb/day)/10 hr. per day
SO2	On-site Motor Vehicles	24-hr	1.83E-04	Max. daily/10 hr. per day
SO2	Construction Equipment	Annual	6.88E-03	Max. Annual (ton/yr)x2000 (lb/ton) /365 days per year/10 hr. per day
SO2	On-site Motor Vehicles	Annual	1.24E-04	Max. Annual (ton/yr)x2000 (lb/ton) /365 days per year/10 hr. per day
PM10	Construction Equipment	24-hr	5.09E-01	Max. daily (lb/day)/10 hr. per day
PM10	On-site Motor Vehicles	24-hr	2.06E-03	Max. daily (lb/day)/10 hr. per day
PM10	Fugitive Emissions	24-hr	5.05E+00	Max. daily (lb/day)/10 hr. per day
PM10	Construction Equipment	Annual	4.99E-01	Max. Annual (ton/yr)x2000 (lb/ton) /365 days per year/10 hr. per day
PM10	On-site Motor Vehicles	Annual	1.94E-03	Max. Annual (ton/yr)x2000 (lb/ton) /365 days per year/10 hr. per day
PM10	Fugitive Emissions	Annual	3.11E+00	Max. Annual (ton/yr)x2000 (lb/ton) /365 days per year/10 hr. per day
PM2.5	Construction Equipment	24-hr	6.76E-01	Max. daily (lb/day)/10 hr. per day
PM2.5	On-site Motor Vehicles	24-hr	2.64E-03	Max. daily (lb/day)/10 hr. per day
PM2.5	Fugitive Emissions	24-hr	9.51E-01	Max. daily (lb/day)/10 hr. per day
PM2.5	Construction Equipment	Annual	4.35E-01	Max. Annual (ton/yr)x2000 (lb/ton) /365 days per year/10 hr. per day
PM2.5	On-site Motor Vehicles	Annual	1.82E-03	Max. Annual (ton/yr)x2000 (lb/ton) /365 days per year/10 hr. per day
PM2.5	Fugitive Emissions	Annual	6.57E-01	Max. Annual (ton/yr)x2000 (lb/ton) /365 days per year/10 hr. per day

Table 14-B
Emission Rates for Modeling Impacts During Construction of Solar Array

Pollutant	Source	Averaging Period	Emission Rate (lb/hr)	How Calculated
CO	Construction Equipment	1-hr	5.09E+01	Maximum hourly (lb/hr)
CO	On-site Motor Vehicles	1-hr	3.82E-01	Maximum hourly (lb/hr)
CO	Construction Equipment	8-hr	5.09E+01	Maximum hourly (lb/hr)
CO	On-site Motor Vehicles	8-hr	3.82E-01	Maximum hourly (lb/hr)
NO2	Construction Equipment	1-hr	1.96E+01	Maximum hourly (lb/hr)
NO2	On-site Motor Vehicles	1-hr	3.39E-01	Maximum hourly (lb/hr)
NO2	Construction Equipment	Annual	7.79E+00	Max. Annual (ton/yr)x2000 (lb/ton) /365 days per year/10 hr. per day
NO2	On-site Motor Vehicles	Annual	1.24E-01	Max. Annual (ton/yr)x2000 (lb/ton) /365 days per year/10 hr. per day
SO2	Construction Equipment	1-hr	3.55E-02	Maximum hourly (lb/hr)
SO2	On-site Motor Vehicles	1-hr	2.34E-03	Maximum hourly (lb/hr)
SO2	Construction Equipment	3-hr	3.55E-02	Maximum hourly (lb/hr)
SO2	On-site Motor Vehicles	3-hr	2.34E-03	Maximum hourly (lb/hr)
SO2	Construction Equipment	24-hr	2.82E-02	Max. daily (lb/day)/10 hr. per day
SO2	On-site Motor Vehicles	24-hr	5.27E-04	Max. daily/10 hr. per day
SO2	Construction Equipment	Annual	1.29E-02	Max. Annual (ton/yr)x2000 (lb/ton) /365 days per year/10 hr. per day
SO2	On-site Motor Vehicles	Annual	2.38E-04	Max. Annual (ton/yr)x2000 (lb/ton) /365 days per year/10 hr. per day
PM10	Construction Equipment	24-hr	5.67E-01	Max. daily (lb/day)/10 hr. per day
PM10	On-site Motor Vehicles	24-hr	1.11E-02	Max. daily (lb/day)/10 hr. per day
PM10	Fugitive Emissions	24-hr	8.77E+00	Max. daily (lb/day)/10 hr. per day
PM10	Construction Equipment	Annual	4.84E-01	Max. Annual (ton/yr)x2000 (lb/ton) /365 days per year/10 hr. per day
PM10	On-site Motor Vehicles	Annual	5.02E-03	Max. Annual (ton/yr)x2000 (lb/ton) /365 days per year/10 hr. per day
PM10	Fugitive Emissions	Annual	3.71E+00	Max. Annual (ton/yr)x2000 (lb/ton) /365 days per year/10 hr. per day
PM2.5	Construction Equipment	24-hr	5.22E-01	Max. daily (lb/day)/10 hr. per day
PM2.5	On-site Motor Vehicles	24-hr	1.02E-02	Max. daily (lb/day)/10 hr. per day
PM2.5	Fugitive Emissions	24-hr	1.85E+00	Max. daily (lb/day)/10 hr. per day
PM2.5	Construction Equipment	Annual	4.26E-01	Max. Annual (ton/yr)x2000 (lb/ton) /365 days per year/10 hr. per day
PM2.5	On-site Motor Vehicles	Annual	4.62E-03	Max. Annual (ton/yr)x2000 (lb/ton) /365 days per year/10 hr. per day
PM2.5	Fugitive Emissions	Annual	7.84E-01	Max. Annual (ton/yr)x2000 (lb/ton) /365 days per year/10 hr. per day

Table 15-A
Reclaimed Water Pipeline Construction Equipment and Motor Vehicle Numbers

Equipment/Vehicle Type	Fuel	Hours or Miles/Day	Monthly Number								
			Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9
			1	2	3	4	5	6	7	8	9
Construction Equipment											
Compressor, 250 cfm	Diesel	8	3	3	3	3	6	6	6	6	6
Tractor/Loader/Backhoe	Diesel	3	3	6	0	0	6	6	0	0	0
Backhoe	Diesel	3	0	3	3	0	0	6	6	0	0
Crane, 5 ton	Diesel	3	3	3	3	3	6	6	6	6	6
Welder	Diesel	6	3	3	3	3	6	6	6	6	6
Vibratory Compactor	Diesel	2	0	3	3	3	0	0	6	6	6
Roller, 5 ton	Diesel	2	0	3	3	3	0	0	6	6	6
Motor Vehicles											
Off-Site Vehicles											
Off-Site Dump Trucks	Diesel	40	0	3	3	3	0	0	3	3	3
Off-Site Pipe Hauling Trucks	Diesel	14	3	3	3	3	3	3	3	3	3
Off-Site Construction Worker Commute	Gasoline	60	144	144	144	144	216	216	216	216	216

Table 15-B
Reclaimed Water Pipeline Construction Daily Construction Equipment and Motor Vehicle Use

Equipment/Vehicle Type	Fuel	Daily Operating Hours or Miles								
		Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9
Construction Equipment										
Compressor, 250 cfm	Diesel	24	24	24	24	48	48	48	48	48
Tractor/Loader/Backhoe	Diesel	9	18	0	0	18	18	0	0	0
Backhoe	Diesel	0	9	9	0	0	18	18	0	0
Crane, 5 ton	Diesel	9	9	9	9	18	18	18	18	18
Welder	Diesel	18	18	18	18	36	36	36	36	36
Vibratory Compactor	Diesel	0	6	6	6	0	0	12	12	12
Roller, 5 ton	Diesel	0	6	6	6	0	0	12	12	12
Motor Vehicles										
Off-Site Vehicles										
Off-Site Dump Trucks	Diesel	0	120	120	120	0	0	120	120	120
Off-Site Pipe Hauling Trucks	Diesel	42	42	42	42	42	42	42	42	42
Off-Site Construction Worker Commute	Gasoline	8,640	8,640	8,640	8,640	12,960	12,960	12,960	12,960	12,960

Table 15-C
Reclaimed Water Pipeline Construction Daily Construction Equipment and Motor Vehicle CO Emissions

Equipment/Vehicle Type	Emission Factor (lb/hr or lb/mile)	Daily Emissions (lb/day)								
		Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9
Construction Equipment										
Compressor, 250 cfm	0.3302	7.9	7.9	7.9	7.9	15.8	15.8	15.8	15.8	15.8
Tractor/Loader/Backhoe	0.3664	3.3	6.6	0.0	0.0	6.6	6.6	0.0	0.0	0.0
Backhoe	0.3694	0.0	3.3	3.3	0.0	0.0	6.6	6.6	0.0	0.0
Crane, 5 ton	0.3763	3.4	3.4	3.4	3.4	6.8	6.8	6.8	6.8	6.8
Welder	0.2908	5.2	5.2	5.2	5.2	10.5	10.5	10.5	10.5	10.5
Vibratory Compactor	0.4218	0.0	2.5	2.5	2.5	0.0	0.0	5.1	5.1	5.1
Roller, 5 ton	0.4218	0.0	2.5	2.5	2.5	0.0	0.0	5.1	5.1	5.1
Construction Equipment Total		**19.8**	**31.5**	**24.9**	**21.6**	**39.7**	**46.3**	**49.9**	**43.2**	**43.2**
Motor Vehicles										
Off-Site Vehicles										
Off-Site Dump Trucks	0.0104	0.0	1.2	1.2	1.2	0.0	0.0	1.2	1.2	1.2
Off-Site Pipe Hauling Trucks	0.0104	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Off-Site Construction Worker Commute	0.0087	75.4	75.4	75.4	75.4	113.0	113.0	113.0	113.0	113.0
Off-Site Motor Vehicle Total		**75.8**	**77.0**	**77.0**	**77.0**	**113.5**	**113.5**	**114.7**	**114.7**	**114.7**

Table 15-D
Reclaimed Water Pipeline Construction Daily Construction Equipment and Motor Vehicle VOC Emissions

Equipment/Vehicle Type	Emission Factor (lb/hr or lb/mile)	Daily Emissions (lb/day)								
		Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9
Construction Equipment										
Compressor, 250 cfm	0.0986	2.4	2.4	2.4	2.4	4.7	4.7	4.7	4.7	4.7
Tractor/Loader/Backhoe	0.1000	0.9	1.8	0.0	0.0	1.8	1.8	0.0	0.0	0.0
Backhoe	0.1403	0.0	1.3	1.3	0.0	0.0	2.5	2.5	0.0	0.0
Crane, 5 ton	0.1191	1.1	1.1	1.1	1.1	2.1	2.1	2.1	2.1	2.1
Welder	0.1173	2.1	2.1	2.1	2.1	4.2	4.2	4.2	4.2	4.2
Vibratory Compactor	0.1282	0.0	0.8	0.8	0.8	0.0	0.0	1.5	1.5	1.5
Roller, 5 ton	0.1282	0.0	0.8	0.8	0.8	0.0	0.0	1.5	1.5	1.5
Construction Equipment Total		**6.4**	**10.2**	**8.4**	**7.1**	**12.9**	**15.4**	**16.7**	**14.2**	**14.2**
Motor Vehicles										
Off-Site Vehicles										
Off-Site Dump Trucks	0.0025	0.0	0.3	0.3	0.3	0.0	0.0	0.3	0.3	0.3
Off-Site Pipe Hauling Trucks	0.0025	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Off-Site Construction Worker Commute	0.0008	6.9	6.9	6.9	6.9	10.4	10.4	10.4	10.4	10.4
Off-Site Motor Vehicle Total		**7.0**	**7.3**	**7.3**	**7.3**	**10.5**	**10.5**	**10.8**	**10.8**	**10.8**

Table 15-E
Reclaimed Water Pipeline Construction Daily Construction Equipment and Motor Vehicle NOx Emissions

Equipment/Vehicle Type	Emission Factor (lb/hr or lb/mile)	Daily Emissions (lb/day)								
		Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9
Construction Equipment										
Compressor, 250 cfm	0.5945	14.3	14.3	14.3	14.3	28.5	28.5	28.5	28.5	28.5
Tractor/Loader/Backhoe	0.6082	5.5	10.9	0.0	0.0	10.9	10.9	0.0	0.0	0.0
Backhoe	0.3165	0.0	2.8	2.8	0.0	0.0	5.7	5.7	0.0	0.0
Crane, 5 ton	0.6897	6.2	6.2	6.2	6.2	12.4	12.4	12.4	12.4	12.4
Welder	0.2691	4.8	4.8	4.8	4.8	9.7	9.7	9.7	9.7	9.7
Vibratory Compactor	0.7773	0.0	4.7	4.7	4.7	0.0	0.0	9.3	9.3	9.3
Roller, 5 ton	0.7773	0.0	4.7	4.7	4.7	0.0	0.0	9.3	9.3	9.3
Construction Equipment Total		**30.8**	**48.4**	**37.5**	**34.6**	**61.6**	**67.3**	**75.0**	**69.3**	**69.3**
Motor Vehicles										
Off-Site Vehicles										
Off-Site Dump Trucks	0.0370	0.0	4.4	4.4	4.4	0.0	0.0	4.4	4.4	4.4
Off-Site Pipe Hauling Trucks	0.0370	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
Off-Site Construction Worker Commute	0.0007	6.4	6.4	6.4	6.4	9.6	9.6	9.6	9.6	9.6
Off-Site Motor Vehicle Total		**7.9**	**12.4**	**12.4**	**12.4**	**11.1**	**11.1**	**15.6**	**15.6**	**15.6**

Table 15-F
Reclaimed Water Pipeline Construction Daily Construction Equipment and Motor Vehicle SOx Emissions

Equipment/Vehicle Type	Emission Factor (lb/hr or lb/mile)	Daily Emissions (lb/day)								
		Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9
Construction Equipment										
Compressor, 250 cfm	0.00055	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tractor/Loader/Backhoe	0.00061	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Backhoe	0.00039	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Crane, 5 ton	0.00059	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Welder	0.00034	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Vibratory Compactor	0.00069	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Roller, 5 ton	0.00069	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Construction Equipment Total		**0.0**	**0.0**	**0.0**	**0.0**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**
Motor Vehicles										
Off-Site Vehicles										
Off-Site Dump Trucks	0.00007	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Pipe Hauling Trucks	0.00007	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Construction Worker Commute	0.00000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Motor Vehicle Total		**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**

Table 15-G
Reclaimed Water Pipeline Construction Daily Construction Equipment and Motor Vehicle Exhaust PM10 Emissions

Equipment/Vehicle Type	Emission Factor (lb/hr or lb/mile)	Daily Emissions (lb/day)								
		Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9
Construction Equipment										
Compressor, 250 cfm	0.05268	1.3	1.3	1.3	1.3	2.5	2.5	2.5	2.5	2.5
Tractor/Loader/Backhoe	0.05583	0.5	1.0	0.0	0.0	1.0	1.0	0.0	0.0	0.0
Backhoe	0.03381	0.0	0.3	0.3	0.0	0.0	0.6	0.6	0.0	0.0
Crane, 5 ton	0.06359	0.6	0.6	0.6	0.6	1.1	1.1	1.1	1.1	1.1
Welder	0.02796	0.5	0.5	0.5	0.5	1.0	1.0	1.0	1.0	1.0
Vibratory Compactor	0.06738	0.0	0.4	0.4	0.4	0.0	0.0	0.8	0.8	0.8
Roller, 5 ton	0.06738	0.0	0.4	0.4	0.4	0.0	0.0	0.8	0.8	0.8
Construction Equipment Total		**2.8**	**4.5**	**3.5**	**3.1**	**5.7**	**6.3**	**6.9**	**6.3**	**6.3**
Motor Vehicles										
Off-Site Vehicles										
Off-Site Dump Trucks	0.00154	0.0	0.2	0.2	0.2	0.0	0.0	0.2	0.2	0.2
Off-Site Pipe Hauling Trucks	0.00154	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Off-Site Construction Worker Commute	0.00003	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4
Off-Site Motor Vehicle Total		**0.3**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.6**	**0.6**	**0.6**

Table 15-H
Reclaimed Water Pipeline Construction Daily Construction Equipment and Motor Vehicle Exhaust PM2.5 Emissions

Equipment/Vehicle Type	Emission Factor (lb/hr or lb/mile)	Daily Emissions (lb/day)								
		Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9
Construction Equipment										
Compressor, 250 cfm	0.04847	1.2	1.2	1.2	1.2	2.3	2.3	2.3	2.3	2.3
Tractor/Loader/Backhoe	0.05137	0.5	0.9	0.0	0.0	0.9	0.9	0.0	0.0	0.0
Backhoe	0.03110	0.0	0.3	0.3	0.0	0.0	0.6	0.6	0.0	0.0
Crane, 5 ton	0.05850	0.5	0.5	0.5	0.5	1.1	1.1	1.1	1.1	1.1
Welder	0.02572	0.5	0.5	0.5	0.5	0.9	0.9	0.9	0.9	0.9
Vibratory Compactor	0.06199	0.0	0.4	0.4	0.4	0.0	0.0	0.7	0.7	0.7
Roller, 5 ton	0.06199	0.0	0.4	0.4	0.4	0.0	0.0	0.7	0.7	0.7
Construction Equipment Total		**2.6**	**4.1**	**3.2**	**2.9**	**5.2**	**5.8**	**6.4**	**5.8**	**5.8**
Motor Vehicles										
Off-Site Vehicles										
Off-Site Dump Trucks	0.00142	0.0	0.2	0.2	0.2	0.0	0.0	0.2	0.2	0.2
Off-Site Pipe Hauling Trucks	0.00142	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Off-Site Construction Worker Commute	0.00003	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4
Off-Site Motor Vehicle Total		**0.3**	**0.5**	**0.5**	**0.5**	**0.4**	**0.4**	**0.6**	**0.6**	**0.6**

Table 15-I
Reclaimed Water Pipeline Construction Daily Motor Vehicle Fugitive PM10 Emissions

Vehicle Type	Emission Factor (lb/mile)	Daily Emissions (lb/day)								
		Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9
Off-Site Vehicles										
Off-Site Dump Trucks	0.00100	0.0	0.1	0.1	0.1	0.0	0.0	0.1	0.1	0.1
Off-Site Pipe Hauling Trucks	0.00100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Construction Worker Commute	0.00092	7.9	7.9	7.9	7.9	11.9	11.9	11.9	11.9	11.9
Off-Site Motor Vehicle Total		**8.0**	**8.1**	**8.1**	**8.1**	**11.9**	**11.9**	**12.1**	**12.1**	**12.1**

Table 15-J
Reclaimed Water Pipeline Construction Daily Motor Vehicle Fugitive PM2.5 Emissions

Vehicle Type	Emission Factor (lb/mile)	Daily Emissions (lb/day)								
		Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9
Off-Site Vehicles										
Off-Site Dump Trucks	0.00019	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Pipe Hauling Trucks	0.00019	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Construction Worker Commute	0.00017	1.4	1.4	1.4	1.4	2.1	2.1	2.1	2.1	2.1
Off-Site Motor Vehicle Total		**1.4**	**1.5**	**1.5**	**1.5**	**2.2**	**2.2**	**2.2**	**2.2**	**2.2**

Table 15-K
Reclaimed Water Pipeline Construction Daily Fugitive PM10 and PM2.5 Activities

Activity	Units	Quantity per Day								
		Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9
Excavation[a]	Cu. Yd.	185	185	185	185	185	185	185	185	185
Storage Pile Wind Erosion[b]	Acres	7.56	7.56	7.56	7.56	7.56	7.56	7.56	7.56	7.56

[a] Total excavation is 4 ft. wide x 6 ft. deep x 7.8 mi. long, assumed to occur at a constant rate, during 22 working days per month.

[b] Based 4 ft. wide x 6 ft. tall x 7.8 mi. long and assuming 50 percent is stockpiled at any time.

Table 15-L
Reclaimed Water Pipeline Construction Daily Fugitive PM10 Emissions

Activity	Emission Factor	Daily Emissions (lb/day)								
		Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9
Excavation	9.94E-04	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Storage Pile Wind Erosion	2.9	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1
Total		**22.3**	**22.3**	**22.3**	**22.3**	**22.3**	**22.3**	**22.3**	**22.3**	**22.3**

Table 15-M
Reclaimed Water Pipeline Construction Daily Fugitive PM2.5 Emissions

Activity	Emission Factor	Daily Emissions (lb/day)								
		Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9
Excavation	2.07E-04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Storage Pile Wind Erosion	0.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
Total		**4.6**	**4.6**	**4.6**	**4.6**	**4.6**	**4.6**	**4.6**	**4.6**	**4.6**

Table 16-A
Natural Gas Pipeline Construction Equipment and Motor Vehicle Numbers

Equipment/Vehicle Type	Fuel	Hours or Miles/Day	Monthly Number														
			Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12	Month 13	Month 14	Month 15
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Construction Equipment																	
Compressor, 250 cfm	Diesel	8	3	3	3	3	6	6	6	6	6	6	6	6	6	6	6
Tractor/Loader/Backhoe	Diesel	3	3	6	0	0	6	6	0	0	0	0	0	0	0	0	0
Backhoe	Diesel	3	0	3	3	0	0	6	6	0	0	0	0	0	0	0	0
Crane, 5 ton	Diesel	3	3	3	3	3	6	6	6	6	6	6	6	6	6	6	6
Welder	Diesel	6	3	3	3	3	6	6	6	6	6	6	6	6	6	6	6
Vibratory Compactor	Diesel	2	0	3	3	3	0	0	6	6	6	6	6	6	6	6	6
Roller, 5 ton	Diesel	2	0	3	3	3	0	0	6	6	6	6	6	6	6	6	6
Motor Vehicles																	
Off-Site Vehicles																	
Off-Site Dump Trucks	Diesel	40	0	3	3	3	0	0	3	3	3	3	3	3	3	3	3
Off-Site Pipe Hauling Trucks	Diesel	14	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Off-Site Construction Worker Commute	Gasoline	60	144	144	144	144	216	216	216	216	216	216	216	216	216	216	216

Table 16-B
Natural Gas Pipeline Construction Monthly Construction Equipment and Motor Vehicle Use

Equipment/Vehicle Type	Fuel	Daily Operating Hours or Miles														
		Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12	Month 13	Month 14	Month 15
Construction Equipment																
Compressor, 250 cfm	Diesel	24	24	24	24	48	48	48	48	48	48	48	48	48	48	48
Tractor/Loader/Backhoe	Diesel	9	18	0	0	18	18	0	0	0	0	0	0	0	0	0
Backhoe	Diesel	0	9	9	0	0	18	18	0	0	0	0	0	0	0	0
Crane, 5 ton	Diesel	9	9	9	9	18	18	18	18	18	18	18	18	18	18	18
Welder	Diesel	18	18	18	18	36	36	36	36	36	36	36	36	36	36	36
Vibratory Compactor	Diesel	0	6	6	6	0	0	12	12	12	12	12	12	12	12	12
Roller, 5 ton	Diesel	0	6	6	6	0	0	12	12	12	12	12	12	12	12	12
Motor Vehicles																
Off-Site Vehicles																
Off-Site Dump Trucks	Diesel	0	120	120	120	0	0	120	120	120	120	120	120	120	120	120
Off-Site Pipe Hauling Trucks	Diesel	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42
Off-Site Construction Worker Commute	Gasoline	8,640	8,640	8,640	8,640	12,960	12,960	12,960	12,960	12,960	12,960	12,960	12,960	12,960	12,960	12,960

Table 16-C
Natural Gas Pipeline Construction Daily Construction Equipment and Motor Vehicle CO Emissions

Equipment/Vehicle Type	Emission Factor (lb/hr or lb/mile)	Daily Emissions (lb/day)														
		Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12	Month 13	Month 14	Month 15
Construction Equipment																
Compressor, 250 cfm	0.3302	7.9	7.9	7.9	7.9	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8
Tractor/Loader/Backhoe	0.3664	3.3	6.6	0.0	0.0	6.6	6.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Backhoe	0.3694	0.0	3.3	3.3	0.0	0.0	6.6	6.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Crane, 5 ton	0.3763	3.4	3.4	3.4	3.4	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
Welder	0.2908	5.2	5.2	5.2	5.2	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
Vibratory Compactor	0.4218	0.0	2.5	2.5	2.5	0.0	0.0	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
Roller, 5 ton	0.4218	0.0	2.5	2.5	2.5	0.0	0.0	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
Construction Equipment Total		**19.8**	**31.5**	**24.9**	**21.6**	**39.7**	**46.3**	**49.9**	**43.2**	**43.2**	**43.2**	**43.2**	**43.2**	**43.2**	**43.2**	**43.2**
Motor Vehicles																
Off-Site Vehicles																
Off-Site Dump Trucks	0.0104	0.0	1.2	1.2	1.2	0.0	0.0	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Off-Site Pipe Hauling Trucks	0.0104	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Off-Site Construction Worker Commute	0.0087	75.4	75.4	75.4	75.4	113.0	113.0	113.0	113.0	113.0	113.0	113.0	113.0	113.0	113.0	113.0
Off-Site Motor Vehicle Total		**75.8**	**77.0**	**77.0**	**77.0**	**113.5**	**113.5**	**114.7**	**114.7**	**114.7**	**114.7**	**114.7**	**114.7**	**114.7**	**114.7**	**114.7**

Table 16-D
Natural Gas Pipeline Construction Daily Construction Equipment and Motor Vehicle VOC Emissions

Equipment/Vehicle Type	Emission Factor (lb/hr or lb/mile)	Daily Emissions (lb/day)														
		Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12	Month 13	Month 14	Month 15
Construction Equipment																
Compressor, 250 cfm	0.0986	2.4	2.4	2.4	2.4	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
Tractor/Loader/Backhoe	0.1000	0.9	1.8	0.0	0.0	1.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Backhoe	0.1403	0.0	1.3	1.3	0.0	0.0	2.5	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Crane, 5 ton	0.1191	1.1	1.1	1.1	1.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
Welder	0.1173	2.1	2.1	2.1	2.1	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
Vibratory Compactor	0.1282	0.0	0.8	0.8	0.8	0.0	0.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Roller, 5 ton	0.1282	0.0	0.8	0.8	0.8	0.0	0.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Construction Equipment Total		**6.4**	**10.2**	**8.4**	**7.1**	**12.9**	**15.4**	**16.7**	**14.2**	**14.2**	**14.2**	**14.2**	**14.2**	**14.2**	**14.2**	**14.2**
Motor Vehicles																
Off-Site Vehicles																
Off-Site Dump Trucks	0.0025	0.0	0.3	0.3	0.3	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Off-Site Pipe Hauling Trucks	0.0025	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Off-Site Construction Worker Commute	0.0008	6.9	6.9	6.9	6.9	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4
Off-Site Motor Vehicle Total		**7.0**	**7.3**	**7.3**	**7.3**	**10.5**	**10.5**	**10.8**	**10.8**	**10.8**	**10.8**	**10.8**	**10.8**	**10.8**	**10.8**	**10.8**

Table 16-E
Natural Gas Pipeline Construction Daily Construction Equipment and Motor Vehicle NOx Emissions

Equipment/Vehicle Type	Emission Factor (lb/hr or lb/mile)	Daily Emissions (lb/day)														
		Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12	Month 13	Month 14	Month 15
Construction Equipment																
Compressor, 250 cfm	0.5945	14.3	14.3	14.3	14.3	28.5	28.5	28.5	28.5	28.5	28.5	28.5	28.5	28.5	28.5	28.5
Tractor/Loader/Backhoe	0.6082	5.5	10.9	0.0	0.0	10.9	10.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Backhoe	0.3165	0.0	2.8	2.8	0.0	0.0	5.7	5.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Crane, 5 ton	0.6897	6.2	6.2	6.2	6.2	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4
Welder	0.2691	4.8	4.8	4.8	4.8	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7
Vibratory Compactor	0.7773	0.0	4.7	4.7	4.7	0.0	0.0	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3
Roller, 5 ton	0.7773	0.0	4.7	4.7	4.7	0.0	0.0	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3
Construction Equipment Total		**30.8**	**48.4**	**37.5**	**34.6**	**61.6**	**67.3**	**75.0**	**69.3**	**69.3**	**69.3**	**69.3**	**69.3**	**69.3**	**69.3**	**69.3**
Motor Vehicles																
Off-Site Vehicles																
Off-Site Dump Trucks	0.0370	0.0	4.4	4.4	4.4	0.0	0.0	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
Off-Site Pipe Hauling Trucks	0.0370	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
Off-Site Construction Worker Commute	0.0007	6.4	6.4	6.4	6.4	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6
Off-Site Motor Vehicle Total		**7.9**	**12.4**	**12.4**	**12.4**	**11.1**	**11.1**	**15.6**	**15.6**	**15.6**	**15.6**	**15.6**	**15.6**	**15.6**	**15.6**	**15.6**

Table 16-F
Natural Gas Pipeline Construction Daily Construction Equipment and Motor Vehicle SOx Emissions

Equipment/Vehicle Type	Emission Factor (lb/hr or lb/mile)	Daily Emissions (lb/day)														
		Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12	Month 13	Month 14	Month 15
Construction Equipment																
Compressor, 250 cfm	0.00055	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tractor/Loader/Backhoe	0.00061	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Backhoe	0.00039	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Crane, 5 ton	0.00059	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Welder	0.00034	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Vibratory Compactor	0.00069	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Roller, 5 ton	0.00069	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Construction Equipment Total		**0.0**	**0.0**	**0.0**	**0.0**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**
Motor Vehicles																
Off-Site Vehicles																
Off-Site Dump Trucks	0.00007	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Pipe Hauling Trucks	0.00007	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Construction Worker Commute	0.00000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Motor Vehicle Total		**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**

Table 16-G
Natural Gas Pipeline Construction Daily Construction Equipment and Motor Vehicle Exhaust PM10 Emissions

Equipment/Vehicle Type	Emission Factor (lb/hr or lb/mile)	Daily Emissions (lb/day)														
		Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12	Month 13	Month 14	Month 15
Construction Equipment																
Compressor, 250 cfm	0.05268	1.3	1.3	1.3	1.3	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Tractor/Loader/Backhoe	0.05583	0.5	1.0	0.0	0.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Backhoe	0.03381	0.0	0.3	0.3	0.0	0.0	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Crane, 5 ton	0.06359	0.6	0.6	0.6	0.6	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Welder	0.02796	0.5	0.5	0.5	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Vibratory Compactor	0.06738	0.0	0.4	0.4	0.4	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Roller, 5 ton	0.06738	0.0	0.4	0.4	0.4	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Construction Equipment Total		**2.8**	**4.5**	**3.5**	**3.1**	**5.7**	**6.3**	**6.9**	**6.3**	**6.3**	**6.3**	**6.3**	**6.3**	**6.3**	**6.3**	**6.3**
Motor Vehicles																
Off-Site Vehicles																
Off-Site Dump Trucks	0.00154	0.0	0.2	0.2	0.2	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Off-Site Pipe Hauling Trucks	0.00154	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Off-Site Construction Worker Commute	0.00003	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Off-Site Motor Vehicle Total		**0.3**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.6**	**0.6**	**0.6**	**0.6**	**0.6**	**0.6**	**0.6**	**0.6**	**0.6**

Table 16-H
Natural Gas Pipeline Construction Daily Construction Equipment and Motor Vehicle Exhaust PM2.5 Emissions

Equipment/Vehicle Type	Emission Factor (lb/hr or lb/mile)	Daily Emissions (lb/day)														
		Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12	Month 13	Month 14	Month 15
Construction Equipment																
Compressor, 250 cfm	0.04847	1.2	1.2	1.2	1.2	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
Tractor/Loader/Backhoe	0.05137	0.5	0.9	0.0	0.0	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Backhoe	0.03110	0.0	0.3	0.3	0.0	0.0	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Crane, 5 ton	0.05850	0.5	0.5	0.5	0.5	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Welder	0.02572	0.5	0.5	0.5	0.5	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
Vibratory Compactor	0.06199	0.0	0.4	0.4	0.4	0.0	0.0	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Roller, 5 ton	0.06199	0.0	0.4	0.4	0.4	0.0	0.0	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Construction Equipment Total		**2.6**	**4.1**	**3.2**	**2.9**	**5.2**	**5.8**	**6.4**	**5.8**	**5.8**	**5.8**	**5.8**	**5.8**	**5.8**	**5.8**	**5.8**
Motor Vehicles																
Off-Site Vehicles																
Off-Site Dump Trucks	0.00142	0.0	0.2	0.2	0.2	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Off-Site Pipe Hauling Trucks	0.00142	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Off-Site Construction Worker Commute	0.00003	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Off-Site Motor Vehicle Total		**0.3**	**0.5**	**0.5**	**0.5**	**0.4**	**0.4**	**0.6**	**0.6**	**0.6**	**0.6**	**0.6**	**0.6**	**0.6**	**0.6**	**0.6**

Table 16-I
Natural Gas Pipeline Construction Daily Motor Vehicle Fugitive PM10 Emissions

Vehicle Type	Emission Factor (lb/mile)	Daily Emissions (lb/day)														
		Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12	Month 13	Month 14	Month 15
Off-Site Vehicles																
Off-Site Dump Trucks	0.00100	0.0	0.1	0.1	0.1	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Off-Site Pipe Hauling Trucks	0.00100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Construction Worker Commute	0.00092	7.9	7.9	7.9	7.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9
Off-Site Motor Vehicle Total		**8.0**	**8.1**	**8.1**	**8.1**	**11.9**	**11.9**	**12.1**	**12.1**	**12.1**	**12.1**	**12.1**	**12.1**	**12.1**	**12.1**	**12.1**

Table 16-J
Natural Gas Pipeline Construction Daily Motor Vehicle Fugitive PM2.5 Emissions

Vehicle Type	Emission Factor (lb/mile)	Daily Emissions (lb/day)														
		Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12	Month 13	Month 14	Month 15
Off-Site Vehicles																
Off-Site Dump Trucks	0.00019	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Pipe Hauling Trucks	0.00019	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Construction Worker Commute	0.00017	1.4	1.4	1.4	1.4	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
Off-Site Motor Vehicle Total		**1.4**	**1.5**	**1.5**	**1.5**	**2.2**	**2.2**	**2.2**	**2.2**	**2.2**	**2.2**	**2.2**	**2.2**	**2.2**	**2.2**	**2.2**

Table 16-K
Natural Gas Pipeline Construction Daily Fugitive PM10 and PM2.5 Activities

Activity	Units	Quantity per Day														
		Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12	Month 13	Month 14	Month 15
Excavation	Cu. Yd.	164	164	164	164	164	164	164	164	164	164	164	164	164	164	164
Storage Pile Wind Erosion[a]	Acres	9.48	9.48	9.48	9.48	9.48	9.48	9.48	9.48	9.48	9.48	9.48	9.48	9.48	9.48	9.48

[a] Total excavation is 5 ft. wide x 6 ft. deep x 9.2 mi. long, assumed to occur at a constant rate, during 22 working days per month.

[b] Based 5 ft. wide x 6 ft. tall x 9.2 mi. long and assuming 50 percent is stockpiled at any time.

Table 16-L
Natural Gas Pipeline Construction Daily Fugitive PM10 Emissions

Activity	Emission Factor	Daily Emissions (lb/day)														
		Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12	Month 13	Month 14	Month 15
Excavation	9.94E-04	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Storage Pile Wind Erosion	2.9	27.7	27.7	27.7	27.7	27.7	27.7	27.7	27.7	27.7	27.7	27.7	27.7	27.7	27.7	27.7
Total		**27.9**	**27.9**	**27.9**	**27.9**	**27.9**	**27.9**	**27.9**	**27.9**	**27.9**	**27.9**	**27.9**	**27.9**	**27.9**	**27.9**	**27.9**

Table 16-M
Natural Gas Pipeline Construction Daily Fugitive PM2.5 Emissions

Activity	Emission Factor	Daily Emissions (lb/day)														
		Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12	Month 13	Month 14	Month 15
Excavation	2.07E-04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Storage Pile Wind Erosion	0.6	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
Total		**5.8**	**5.8**	**5.8**	**5.8**	**5.8**	**5.8**	**5.8**	**5.8**	**5.8**	**5.8**	**5.8**	**5.8**	**5.8**	**5.8**	**5.8**

Table 17-A
Sewer Line Construction Equipment and Motor Vehicle Numbers

Equipment/Vehicle Type	Fuel	Hours or Miles/Day	Monthly Number				
			Month 1	Month 2	Month 3	Month 4	Month 5
			1	2	3	4	5
Construction Equipment							
Compressor, 250 cfm	Diesel	8	2	2	2	2	2
Tractor/Loader/Backhoe	Diesel	3	2	2	2	2	2
Backhoe	Diesel	3	0	0	0	0	0
Crane, 5 ton	Diesel	3	2	2	2	2	2
Welder	Diesel	6	2	2	2	2	2
Vibratory Compactor	Diesel	2	0	0	0	0	0
Roller, 5 ton	Diesel	2	0	0	0	0	0
Motor Vehicles							
Off-Site Vehicles							
Off-Site Dump Trucks	Diesel	40	0	0	0	0	0
Off-Site Pipe Hauling Trucks	Diesel	14	1	1	1	1	1
Off-Site Construction Worker Commute	Gasoline	60	72	72	72	72	72

Table 17-B
Sewer Line Construction Daily Construction Equipment and Motor Vehicle Use

Equipment/Vehicle Type	Fuel	Daily Operating Hours or Miles				
		Month 1	Month 2	Month 3	Month 4	Month 5
Construction Equipment						
Compressor, 250 cfm	Diesel	16	16	16	16	16
Tractor/Loader/Backhoe	Diesel	6	6	6	6	6
Backhoe	Diesel	0	0	0	0	0
Crane, 5 ton	Diesel	6	6	6	6	6
Welder	Diesel	12	12	12	12	12
Vibratory Compactor	Diesel	0	0	0	0	0
Roller, 5 ton	Diesel	0	0	0	0	0
Motor Vehicles						
Off-Site Vehicles						
Off-Site Dump Trucks	Diesel	0	0	0	0	0
Off-Site Pipe Hauling Trucks	Diesel	14	14	14	14	14
Off-Site Construction Worker Commute	Gasoline	4,320	4,320	4,320	4,320	4,320

Table 17-C
Sewer Line Construction Daily Construction Equipment and Motor Vehicle CO Emissions

Equipment/Vehicle Type	Emission Factor (lb/hr or lb/mile)	Daily Emissions (lb/day)				
		Month 1	Month 2	Month 3	Month 4	Month 5
Construction Equipment						
Compressor, 250 cfm	0.3302	5.3	5.3	5.3	5.3	5.3
Tractor/Loader/Backhoe	0.3664	2.2	2.2	2.2	2.2	2.2
Backhoe	0.3694	0.0	0.0	0.0	0.0	0.0
Crane, 5 ton	0.3763	2.3	2.3	2.3	2.3	2.3
Welder	0.2908	3.5	3.5	3.5	3.5	3.5
Vibratory Compactor	0.4218	0.0	0.0	0.0	0.0	0.0
Roller, 5 ton	0.4218	0.0	0.0	0.0	0.0	0.0
Construction Equipment Total		**13.2**	**13.2**	**13.2**	**13.2**	**13.2**
Motor Vehicles						
Off-Site Vehicles						
Off-Site Dump Trucks	0.0104	0.0	0.0	0.0	0.0	0.0
Off-Site Pipe Hauling Trucks	0.0104	0.1	0.1	0.1	0.1	0.1
Off-Site Construction Worker Commute	0.0087	37.7	37.7	37.7	37.7	37.7
Off-Site Motor Vehicle Total		**37.8**	**37.8**	**37.8**	**37.8**	**37.8**

Table 17-D
Sewer Line Construction Daily Construction Equipment and Motor Vehicle VOC Emissions

Equipment/Vehicle Type	Emission Factor (lb/hr or lb/mile)	Daily Emissions (lb/day)				
		Month 1	Month 2	Month 3	Month 4	Month 5
Construction Equipment						
Compressor, 250 cfm	0.0986	1.6	1.6	1.6	1.6	1.6
Tractor/Loader/Backhoe	0.1000	0.6	0.6	0.6	0.6	0.6
Backhoe	0.1403	0.0	0.0	0.0	0.0	0.0
Crane, 5 ton	0.1191	0.7	0.7	0.7	0.7	0.7
Welder	0.1173	1.4	1.4	1.4	1.4	1.4
Vibratory Compactor	0.1282	0.0	0.0	0.0	0.0	0.0
Roller, 5 ton	0.1282	0.0	0.0	0.0	0.0	0.0
Construction Equipment Total		**4.3**	**4.3**	**4.3**	**4.3**	**4.3**
Motor Vehicles						
Off-Site Vehicles						
Off-Site Dump Trucks	0.0025	0.0	0.0	0.0	0.0	0.0
Off-Site Pipe Hauling Trucks	0.0025	0.0	0.0	0.0	0.0	0.0
Off-Site Construction Worker Commute	0.0008	3.5	3.5	3.5	3.5	3.5
Off-Site Motor Vehicle Total		**3.5**	**3.5**	**3.5**	**3.5**	**3.5**

Table 17-E
Sewer Line Construction Daily Construction Equipment and Motor Vehicle NOx Emissions

Equipment/Vehicle Type	Emission Factor (lb/hr or lb/mile)	Daily Emissions (lb/day)				
		Month 1	Month 2	Month 3	Month 4	Month 5
Construction Equipment						
Compressor, 250 cfm	0.5945	9.5	9.5	9.5	9.5	9.5
Tractor/Loader/Backhoe	0.6082	3.6	3.6	3.6	3.6	3.6
Backhoe	0.3165	0.0	0.0	0.0	0.0	0.0
Crane, 5 ton	0.6897	4.1	4.1	4.1	4.1	4.1
Welder	0.2691	3.2	3.2	3.2	3.2	3.2
Vibratory Compactor	0.7773	0.0	0.0	0.0	0.0	0.0
Roller, 5 ton	0.7773	0.0	0.0	0.0	0.0	0.0
Construction Equipment Total		**20.5**	**20.5**	**20.5**	**20.5**	**20.5**
Motor Vehicles						
Off-Site Vehicles						
Off-Site Dump Trucks	0.0370	0.0	0.0	0.0	0.0	0.0
Off-Site Pipe Hauling Trucks	0.0370	0.5	0.5	0.5	0.5	0.5
Off-Site Construction Worker Commute	0.0007	3.2	3.2	3.2	3.2	3.2
Off-Site Motor Vehicle Total		**3.7**	**3.7**	**3.7**	**3.7**	**3.7**

Table 17-F
Sewer Line Construction Daily Construction Equipment and Motor Vehicle SOx Emissions

Equipment/Vehicle Type	Emission Factor (lb/hr or lb/mile)	Daily Emissions (lb/day)				
		Month 1	Month 2	Month 3	Month 4	Month 5
Construction Equipment						
Compressor, 250 cfm	0.00055	0.0	0.0	0.0	0.0	0.0
Tractor/Loader/Backhoe	0.00061	0.0	0.0	0.0	0.0	0.0
Backhoe	0.00039	0.0	0.0	0.0	0.0	0.0
Crane, 5 ton	0.00059	0.0	0.0	0.0	0.0	0.0
Welder	0.00034	0.0	0.0	0.0	0.0	0.0
Vibratory Compactor	0.00069	0.0	0.0	0.0	0.0	0.0
Roller, 5 ton	0.00069	0.0	0.0	0.0	0.0	0.0
Construction Equipment Total		**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
Motor Vehicles						
Off-Site Vehicles						
Off-Site Dump Trucks	0.00007	0.0	0.0	0.0	0.0	0.0
Off-Site Pipe Hauling Trucks	0.00007	0.0	0.0	0.0	0.0	0.0
Off-Site Construction Worker Commute	0.00000	0.0	0.0	0.0	0.0	0.0
Off-Site Motor Vehicle Total		**0.0**	**0.0**	**0.0**	**0.0**	**0.0**

Table 17-G
Sewer Line Construction Daily Construction Equipment and Motor Vehicle Exhaust PM10 Emissions

Equipment/Vehicle Type	Emission Factor (lb/hr or lb/mile)	Daily Emissions (lb/day)				
		Month 1	Month 2	Month 3	Month 4	Month 5
Construction Equipment						
Compressor, 250 cfm	0.05268	0.8	0.8	0.8	0.8	0.8
Tractor/Loader/Backhoe	0.05583	0.3	0.3	0.3	0.3	0.3
Backhoe	0.03381	0.0	0.0	0.0	0.0	0.0
Crane, 5 ton	0.06359	0.4	0.4	0.4	0.4	0.4
Welder	0.02796	0.3	0.3	0.3	0.3	0.3
Vibratory Compactor	0.06738	0.0	0.0	0.0	0.0	0.0
Roller, 5 ton	0.06738	0.0	0.0	0.0	0.0	0.0
Construction Equipment Total		**1.9**	**1.9**	**1.9**	**1.9**	**1.9**
Motor Vehicles						
Off-Site Vehicles						
Off-Site Dump Trucks	0.00154	0.0	0.0	0.0	0.0	0.0
Off-Site Pipe Hauling Trucks	0.00154	0.0	0.0	0.0	0.0	0.0
Off-Site Construction Worker Commute	0.00003	0.1	0.1	0.1	0.1	0.1
Off-Site Motor Vehicle Total		**0.2**	**0.2**	**0.2**	**0.2**	**0.2**

Table 17-H
Sewer Line Construction Daily Construction Equipment and Motor Vehicle Exhaust PM2.5 Emissions

Equipment/Vehicle Type	Emission Factor (lb/hr or lb/mile)	Daily Emissions (lb/day)				
		Month 1	Month 2	Month 3	Month 4	Month 5
Construction Equipment						
Compressor, 250 cfm	0.04847	0.8	0.8	0.8	0.8	0.8
Tractor/Loader/Backhoe	0.05137	0.3	0.3	0.3	0.3	0.3
Backhoe	0.03110	0.0	0.0	0.0	0.0	0.0
Crane, 5 ton	0.05850	0.4	0.4	0.4	0.4	0.4
Welder	0.02572	0.3	0.3	0.3	0.3	0.3
Vibratory Compactor	0.06199	0.0	0.0	0.0	0.0	0.0
Roller, 5 ton	0.06199	0.0	0.0	0.0	0.0	0.0
Construction Equipment Total		**1.7**	**1.7**	**1.7**	**1.7**	**1.7**
Motor Vehicles						
Off-Site Vehicles						
Off-Site Dump Trucks	0.00142	0.0	0.0	0.0	0.0	0.0
Off-Site Pipe Hauling Trucks	0.00142	0.0	0.0	0.0	0.0	0.0
Off-Site Construction Worker Commute	0.00003	0.1	0.1	0.1	0.1	0.1
Off-Site Motor Vehicle Total		**0.1**	**0.1**	**0.1**	**0.1**	**0.1**

Table 17-I
Sewer Line Construction Daily Motor Vehicle Fugitive PM10 Emissions

Vehicle Type	Emission Factor (lb/mile)	Daily Emissions (lb/day)				
		Month 1	Month 2	Month 3	Month 4	Month 5
Off-Site Vehicles						
Off-Site Dump Trucks	0.00100	0.0	0.0	0.0	0.0	0.0
Off-Site Pipe Hauling Trucks	0.00100	0.0	0.0	0.0	0.0	0.0
Off-Site Construction Worker Commute	0.00092	4.0	4.0	4.0	4.0	4.0
Off-Site Motor Vehicle Total		**4.0**	**4.0**	**4.0**	**4.0**	**4.0**

Table 17-J
Sewer Line Construction Daily Motor Vehicle Fugitive PM2.5 Emissions

Vehicle Type	Emission Factor (lb/mile)	Daily Emissions (lb/day)				
		Month 1	Month 2	Month 3	Month 4	Month 5
Off-Site Vehicles						
Off-Site Dump Trucks	0.00019	0.0	0.0	0.0	0.0	0.0
Off-Site Pipe Hauling Trucks	0.00019	0.0	0.0	0.0	0.0	0.0
Off-Site Construction Worker Commute	0.00017	0.7	0.7	0.7	0.7	0.7
Off-Site Motor Vehicle Total		**0.7**	**0.7**	**0.7**	**0.7**	**0.7**

Table 17-K
Sewer Line Construction Daily Fugitive PM10 and PM2.5 Activities

Activity	Units	Quantity per Day				
		Month 1	Month 2	Month 3	Month 4	Month 5
Excavation[a]	Cu. Yd.	60	60	60	60	60
Storage Pile Wind Erosion[b]	Acres	1.36	1.36	1.36	1.36	1.36

[a] Total excavation is 4 ft. wide x 6 ft. deep x 1.4 mi. long, assumed to occur at a constant rate, during 22 working days per month.

[b] Based 4 ft. wide x 6 ft. tall x 1.4 mi. long and assuming 50 percent is stockpiled at any time.

Table 17-L
Sewer Line Construction Daily Fugitive PM10 Emissions

Activity	Emission Factor	Daily Emissions (lb/day)				
		Month 1	Month 2	Month 3	Month 4	Month 5
Excavation	9.94E-04	0.1	0.1	0.1	0.1	0.1
Storage Pile Wind Erosion	2.9	4.0	4.0	4.0	4.0	4.0
Total		**4.0**	**4.0**	**4.0**	**4.0**	**4.0**

Table 17-M
Sewer Line Construction Daily Fugitive PM2.5 Emissions

Activity	Emission Factor	Daily Emissions (lb/day)				
		Month 1	Month 2	Month 3	Month 4	Month 5
Excavation	2.07E-04	0.0	0.0	0.0	0.0	0.0
Storage Pile Wind Erosion	0.6	0.8	0.8	0.8	0.8	0.8
Total		**0.8**	**0.8**	**0.8**	**0.8**	**0.8**

Table 18-A
Potable Water Line Construction Equipment and Motor Vehicle Numbers

Equipment/Vehicle Type	Fuel	Hours or Miles/Day	Monthly Number				
			Month 1	Month 2	Month 3	Month 4	Month 5
			1	2	3	4	5
Construction Equipment							
Compressor, 250 cfm	Diesel	8	2	2			
Tractor/Loader/Backhoe	Diesel	3	2	2			
Backhoe	Diesel	3	0	0			
Crane, 5 ton	Diesel	3	2	2			
Welder	Diesel	6	2	2			
Vibratory Compactor	Diesel	2	0	0			
Roller, 5 ton	Diesel	2	0	0			
Motor Vehicles							
Off-Site Vehicles							
Off-Site Dump Trucks	Diesel	40	0	0			
Off-Site Pipe Hauling Trucks	Diesel	14	1	1			
Off-Site Construction Worker Commute	Gasoline	60	72	72			

Table 18-B
Potable Water Line Construction Daily Construction Equipment and Motor Vehicle Use

Equipment/Vehicle Type	Fuel	Daily Operating Hours or Miles				
		Month 1	Month 2	Month 3	Month 4	Month 5
Construction Equipment						
Compressor, 250 cfm	Diesel	16	16	0	0	0
Tractor/Loader/Backhoe	Diesel	6	6	0	0	0
Backhoe	Diesel	0	0	0	0	0
Crane, 5 ton	Diesel	6	6	0	0	0
Welder	Diesel	12	12	0	0	0
Vibratory Compactor	Diesel	0	0	0	0	0
Roller, 5 ton	Diesel	0	0	0	0	0
Motor Vehicles						
Off-Site Vehicles						
Off-Site Dump Trucks	Diesel	0	0	0	0	0
Off-Site Pipe Hauling Trucks	Diesel	14	14	0	0	0
Off-Site Construction Worker Commute	Gasoline	4,320	4,320	0	0	0

Table 18-C
Potable Water Line Construction Daily Construction Equipment and Motor Vehicle CO Emissions

Equipment/Vehicle Type	Emission Factor (lb/hr or lb/mile)	Daily Emissions (lb/day)				
		Month 1	Month 2	Month 3	Month 4	Month 5
Construction Equipment						
Compressor, 250 cfm	0.3302	5.3	5.3	0.0	0.0	0.0
Tractor/Loader/Backhoe	0.3664	2.2	2.2	0.0	0.0	0.0
Backhoe	0.3694	0.0	0.0	0.0	0.0	0.0
Crane, 5 ton	0.3763	2.3	2.3	0.0	0.0	0.0
Welder	0.2908	3.5	3.5	0.0	0.0	0.0
Vibratory Compactor	0.4218	0.0	0.0	0.0	0.0	0.0
Roller, 5 ton	0.4218	0.0	0.0	0.0	0.0	0.0
Construction Equipment Total		**13.2**	**13.2**	**0.0**	**0.0**	**0.0**
Motor Vehicles						
Off-Site Vehicles						
Off-Site Dump Trucks	0.0104	0.0	0.0	0.0	0.0	0.0
Off-Site Pipe Hauling Trucks	0.0104	0.1	0.1	0.0	0.0	0.0
Off-Site Construction Worker Commute	0.0087	37.7	37.7	0.0	0.0	0.0
Off-Site Motor Vehicle Total		**37.8**	**37.8**	**0.0**	**0.0**	**0.0**

Table 18-D
Potable Water Line Construction Daily Construction Equipment and Motor Vehicle VOC Emissions

Equipment/Vehicle Type	Emission Factor (lb/hr or lb/mile)	Daily Emissions (lb/day)				
		Month 1	Month 2	Month 3	Month 4	Month 5
Construction Equipment						
Compressor, 250 cfm	0.0986	1.6	1.6	0.0	0.0	0.0
Tractor/Loader/Backhoe	0.1000	0.6	0.6	0.0	0.0	0.0
Backhoe	0.1403	0.0	0.0	0.0	0.0	0.0
Crane, 5 ton	0.1191	0.7	0.7	0.0	0.0	0.0
Welder	0.1173	1.4	1.4	0.0	0.0	0.0
Vibratory Compactor	0.1282	0.0	0.0	0.0	0.0	0.0
Roller, 5 ton	0.1282	0.0	0.0	0.0	0.0	0.0
Construction Equipment Total		**4.3**	**4.3**	**0.0**	**0.0**	**0.0**
Motor Vehicles						
Off-Site Vehicles						
Off-Site Dump Trucks	0.0025	0.0	0.0	0.0	0.0	0.0
Off-Site Pipe Hauling Trucks	0.0025	0.0	0.0	0.0	0.0	0.0
Off-Site Construction Worker Commute	0.0008	3.5	3.5	0.0	0.0	0.0
Off-Site Motor Vehicle Total		**3.5**	**3.5**	**0.0**	**0.0**	**0.0**

Table 18-E
Potable Water Line Construction Daily Construction Equipment and Motor Vehicle NOx Emissions

Equipment/Vehicle Type	Emission Factor (lb/hr or lb/mile)	Daily Emissions (lb/day)				
		Month 1	Month 2	Month 3	Month 4	Month 5
Construction Equipment						
Compressor, 250 cfm	0.5945	9.5	9.5	0.0	0.0	0.0
Tractor/Loader/Backhoe	0.6082	3.6	3.6	0.0	0.0	0.0
Backhoe	0.3165	0.0	0.0	0.0	0.0	0.0
Crane, 5 ton	0.6897	4.1	4.1	0.0	0.0	0.0
Welder	0.2691	3.2	3.2	0.0	0.0	0.0
Vibratory Compactor	0.7773	0.0	0.0	0.0	0.0	0.0
Roller, 5 ton	0.7773	0.0	0.0	0.0	0.0	0.0
Construction Equipment Total		**20.5**	**20.5**	**0.0**	**0.0**	**0.0**
Motor Vehicles						
Off-Site Vehicles						
Off-Site Dump Trucks	0.0370	0.0	0.0	0.0	0.0	0.0
Off-Site Pipe Hauling Trucks	0.0370	0.5	0.5	0.0	0.0	0.0
Off-Site Construction Worker Commute	0.0007	3.2	3.2	0.0	0.0	0.0
Off-Site Motor Vehicle Total		**3.7**	**3.7**	**0.0**	**0.0**	**0.0**

Table 18-F
Potable Water Line Construction Daily Construction Equipment and Motor Vehicle SOx Emissions

Equipment/Vehicle Type	Emission Factor (lb/hr or lb/mile)	Daily Emissions (lb/day)				
		Month 1	Month 2	Month 3	Month 4	Month 5
Construction Equipment						
Compressor, 250 cfm	0.00055	0.0	0.0	0.0	0.0	0.0
Tractor/Loader/Backhoe	0.00061	0.0	0.0	0.0	0.0	0.0
Backhoe	0.00039	0.0	0.0	0.0	0.0	0.0
Crane, 5 ton	0.00059	0.0	0.0	0.0	0.0	0.0
Welder	0.00034	0.0	0.0	0.0	0.0	0.0
Vibratory Compactor	0.00069	0.0	0.0	0.0	0.0	0.0
Roller, 5 ton	0.00069	0.0	0.0	0.0	0.0	0.0
Construction Equipment Total		**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
Motor Vehicles						
Off-Site Vehicles						
Off-Site Dump Trucks	0.00007	0.0	0.0	0.0	0.0	0.0
Off-Site Pipe Hauling Trucks	0.00007	0.0	0.0	0.0	0.0	0.0
Off-Site Construction Worker Commute	0.00000	0.0	0.0	0.0	0.0	0.0
Off-Site Motor Vehicle Total		**0.0**	**0.0**	**0.0**	**0.0**	**0.0**

Table 18-G
Potable Water Line Construction Daily Construction Equipment and Motor Vehicle Exhaust PM10 Emissions

Equipment/Vehicle Type	Emission Factor (lb/hr or lb/mile)	Daily Emissions (lb/day)				
		Month 1	Month 2	Month 3	Month 4	Month 5
Construction Equipment						
Compressor, 250 cfm	0.05268	0.8	0.8	0.0	0.0	0.0
Tractor/Loader/Backhoe	0.05583	0.3	0.3	0.0	0.0	0.0
Backhoe	0.03381	0.0	0.0	0.0	0.0	0.0
Crane, 5 ton	0.06359	0.4	0.4	0.0	0.0	0.0
Welder	0.02796	0.3	0.3	0.0	0.0	0.0
Vibratory Compactor	0.06738	0.0	0.0	0.0	0.0	0.0
Roller, 5 ton	0.06738	0.0	0.0	0.0	0.0	0.0
Construction Equipment Total		**1.9**	**1.9**	**0.0**	**0.0**	**0.0**
Motor Vehicles						
Off-Site Vehicles						
Off-Site Dump Trucks	0.00154	0.0	0.0	0.0	0.0	0.0
Off-Site Pipe Hauling Trucks	0.00154	0.0	0.0	0.0	0.0	0.0
Off-Site Construction Worker Commute	0.00003	0.1	0.1	0.0	0.0	0.0
Off-Site Motor Vehicle Total		**0.2**	**0.2**	**0.0**	**0.0**	**0.0**

Table 18-H
Potable Water Line Construction Daily Construction Equipment and Motor Vehicle Exhaust PM2.5 Emissions

Equipment/Vehicle Type	Emission Factor (lb/hr or lb/mile)	Daily Emissions (lb/day)				
		Month 1	Month 2	Month 3	Month 4	Month 5
Construction Equipment						
Compressor, 250 cfm	0.04847	0.8	0.8	0.0	0.0	0.0
Tractor/Loader/Backhoe	0.05137	0.3	0.3	0.0	0.0	0.0
Backhoe	0.03110	0.0	0.0	0.0	0.0	0.0
Crane, 5 ton	0.05850	0.4	0.4	0.0	0.0	0.0
Welder	0.02572	0.3	0.3	0.0	0.0	0.0
Vibratory Compactor	0.06199	0.0	0.0	0.0	0.0	0.0
Roller, 5 ton	0.06199	0.0	0.0	0.0	0.0	0.0
Construction Equipment Total		**1.7**	**1.7**	**0.0**	**0.0**	**0.0**
Motor Vehicles						
Off-Site Vehicles						
Off-Site Dump Trucks	0.00142	0.0	0.0	0.0	0.0	0.0
Off-Site Pipe Hauling Trucks	0.00142	0.0	0.0	0.0	0.0	0.0
Off-Site Construction Worker Commute	0.00003	0.1	0.1	0.0	0.0	0.0
Off-Site Motor Vehicle Total		**0.1**	**0.1**	**0.0**	**0.0**	**0.0**

Table 18-I
Potable Water Line Construction Daily Motor Vehicle Fugitive PM10 Emissions

Vehicle Type	Emission Factor (lb/mile)	Daily Emissions (lb/day)				
		Month 1	Month 2	Month 3	Month 4	Month 5
Off-Site Vehicles						
Off-Site Dump Trucks	0.00100	0.0	0.0	0.0	0.0	0.0
Off-Site Pipe Hauling Trucks	0.00100	0.0	0.0	0.0	0.0	0.0
Off-Site Construction Worker Commute	0.00092	4.0	4.0	0.0	0.0	0.0
Off-Site Motor Vehicle Total		**4.0**	**4.0**	**0.0**	**0.0**	**0.0**

Table 18-J
Potable Water Line Construction Daily Motor Vehicle Fugitive PM2.5 Emissions

Vehicle Type	Emission Factor (lb/mile)	Daily Emissions (lb/day)				
		Month 1	Month 2	Month 3	Month 4	Month 5
Off-Site Vehicles						
Off-Site Dump Trucks	0.00019	0.0	0.0	0.0	0.0	0.0
Off-Site Pipe Hauling Trucks	0.00019	0.0	0.0	0.0	0.0	0.0
Off-Site Construction Worker Commute	0.00017	0.7	0.7	0.0	0.0	0.0
Off-Site Motor Vehicle Total		**0.7**	**0.7**	**0.0**	**0.0**	**0.0**

Table 18-K
Potable Water Line Construction Daily Fugitive PM10 and PM2.5 Activities

Activity	Units	Quantity per Day				
		Month 1	Month 2	Month 3	Month 4	Month 5
Excavation[a]	Cu. Yd.	60	60	60	60	60
Storage Pile Wind Erosion[b]	Acres	1.36	1.36	1.36	1.36	1.36

[a] Total excavation is 4 ft. wide x 6 ft. deep x 1.4 mi. long, assumed to occur at a constant rate, during 22 working days per month.

[b] Based 4 ft. wide x 6 ft. tall x 1.4 mi. long and assuming 50 percent is stockpiled at any time.

Table 18-L
Potable Water Line Construction Daily Fugitive PM10 Emissions

Activity	Emission Factor	Daily Emissions (lb/day)				
		Month 1	Month 2	Month 3	Month 4	Month 5
Excavation	9.94E-04	0.1	0.1	0.1	0.1	0.1
Storage Pile Wind Erosion	2.9	4.0	4.0	4.0	4.0	4.0
Total		**4.0**	**4.0**	**4.0**	**4.0**	**4.0**

Table 18-M
Potable Water Line Construction Daily Fugitive PM2.5 Emissions

Activity	Emission Factor	Daily Emissions (lb/day)				
		Month 1	Month 2	Month 3	Month 4	Month 5
Excavation	2.07E-04	0.0	0.0	0.0	0.0	0.0
Storage Pile Wind Erosion	0.6	0.8	0.8	0.8	0.8	0.8
Total		**0.8**	**0.8**	**0.8**	**0.8**	**0.8**

Table 19-A
Reclaimed Water Pipeline Construction Daily CO Emissions Summary

	Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9
On-Site									
Equipment	19.8	31.5	24.9	21.6	39.7	46.3	49.9	43.2	43.2
Motor Vehicles	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Total	**19.8**	**31.5**	**24.9**	**21.6**	**39.7**	**46.3**	**49.9**	**43.2**	**43.2**
Off-Site Motor Vehicles	**75.8**	**77.0**	**77.0**	**77.0**	**113.5**	**113.5**	**114.7**	**114.7**	**114.7**
Monthly Total	**95.6**	**108.6**	**102.0**	**98.6**	**153.1**	**159.8**	**164.6**	**157.9**	**157.9**
Maximum Daily Total (lb/day)	**164.6**								

Table 19-B
Reclaimed Water Pipeline Construction Daily VOC Emissions Summary

	Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9
On-Site									
Equipment	6.4	10.2	8.4	7.1	12.9	15.4	16.7	14.2	14.2
Motor Vehicles	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Total	**6.4**	**10.2**	**8.4**	**7.1**	**12.9**	**15.4**	**16.7**	**14.2**	**14.2**
Off-Site Motor Vehicles	**7.0**	**7.3**	**7.3**	**7.3**	**10.5**	**10.5**	**10.8**	**10.8**	**10.8**
Monthly Total	**13.5**	**17.5**	**15.7**	**14.4**	**23.4**	**25.9**	**27.5**	**25.0**	**25.0**
Maximum Daily Total (lb/day)	**27.5**								

Table 19-C
Reclaimed Water Pipeline Construction Daily NOx Emissions Summary

	Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9
On-Site									
Equipment	30.8	48.4	37.5	34.6	61.6	67.3	75.0	69.3	69.3
Motor Vehicles	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Total	**30.8**	**48.4**	**37.5**	**34.6**	**61.6**	**67.3**	**75.0**	**69.3**	**69.3**
Off-Site Motor Vehicles	**7.9**	**12.4**	**12.4**	**12.4**	**11.1**	**11.1**	**15.6**	**15.6**	**15.6**
Monthly Total	**38.7**	**60.8**	**49.9**	**47.0**	**72.7**	**78.4**	**90.6**	**84.9**	**84.9**
Maximum Daily Total (lb/day)	**90.6**								

Table 19-D
Reclaimed Water Pipeline Construction Daily SOx Emissions Summary

	Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9
On-Site									
Equipment	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1
Motor Vehicles	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Total	**0.0**	**0.0**	**0.0**	**0.0**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**
Off-Site Motor Vehicles	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
Monthly Total	**0.0**	**0.1**	**0.0**	**0.0**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**
Maximum Daily Total (lb/day)	**0.1**								

Table 19-E
Reclaimed Water Pipeline Construction Daily PM10 Emissions Summary

	Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9
On-Site									
Equipment	2.8	4.5	3.5	3.1	5.7	6.3	6.9	6.3	6.3
Motor Vehicles	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fugitive	22.3	22.3	22.3	22.3	22.3	22.3	22.3	22.3	22.3
On-Site Total	**25.2**	**26.8**	**25.8**	**25.5**	**28.0**	**28.6**	**29.2**	**28.6**	**28.6**
Off-Site Motor Vehicle Exhaust and Fugitive	**8.3**	**8.6**	**8.6**	**8.6**	**12.4**	**12.4**	**12.7**	**12.7**	**12.7**
Monthly Total	**33.5**	**35.4**	**34.4**	**34.1**	**40.4**	**41.0**	**41.9**	**41.3**	**41.3**
Maximum Daily Total (lb/day)	**41.9**								

Table 19-F
Reclaimed Water Pipeline Construction Daily PM2.5 Emissions Summary

	Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9
On-Site									
Equipment	2.6	4.1	3.2	2.9	5.2	5.8	6.4	5.8	5.8
Motor Vehicles	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fugitive	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
On-Site Total	**7.3**	**8.7**	**7.8**	**7.5**	**9.9**	**10.4**	**11.0**	**10.4**	**10.4**
Off-Site Motor Vehicle Exhaust and Fugitive	**1.7**	**1.9**	**1.9**	**1.9**	**2.6**	**2.6**	**2.8**	**2.8**	**2.8**
Monthly Total	**9.0**	**10.7**	**9.8**	**9.5**	**12.5**	**13.0**	**13.8**	**13.2**	**13.2**
Maximum Daily Total (lb/day)	**13.8**								

Table 20-A
Natural Gas Pipeline Construction Daily CO Emissions Summary

	Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12	Month 13	Month 14	Month 15
On-Site															
Equipment	19.8	31.5	24.9	21.6	39.7	46.3	49.9	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2
Motor Vehicles	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Total	19.8	31.5	24.9	21.6	39.7	46.3	49.9	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2
Off-Site Motor Vehicles	75.8	77.0	77.0	77.0	113.5	113.5	114.7	114.7	114.7	114.7	114.7	114.7	114.7	114.7	114.7
Monthly Total	95.6	108.6	102.0	98.6	153.1	159.8	164.6	157.9	157.9	157.9	157.9	157.9	157.9	157.9	157.9
Maximum Daily Total (lb/day)	164.6														

Table 20-B
Natural Gas Pipeline Construction Daily VOC Emissions Summary

	Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12	Month 13	Month 14	Month 15
On-Site															
Equipment	6.4	10.2	8.4	7.1	12.9	15.4	16.7	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2
Motor Vehicles	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Total	6.4	10.2	8.4	7.1	12.9	15.4	16.7	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2
Off-Site Motor Vehicles	7.0	7.3	7.3	7.3	10.5	10.5	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8
Monthly Total	13.5	17.5	15.7	14.4	23.4	25.9	27.5	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Maximum Daily Total (lb/day)	27.5														

Table 20-C
Natural Gas Pipeline Construction Daily NOx Emissions Summary

	Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12	Month 13	Month 14	Month 15
On-Site															
Equipment	30.8	48.4	37.5	34.6	61.6	67.3	75.0	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3
Motor Vehicles	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Total	30.8	48.4	37.5	34.6	61.6	67.3	75.0	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3
Off-Site Motor Vehicles	7.9	12.4	12.4	12.4	11.1	11.1	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6
Monthly Total	38.7	60.8	49.9	47.0	72.7	78.4	90.6	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9
Maximum Daily Total (lb/day)	90.6														

Table 20-D
Natural Gas Pipeline Construction Daily SOx Emissions Summary

	Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12	Month 13	Month 14	Month 15
On-Site															
Equipment	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Motor Vehicles	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Total	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Off-Site Motor Vehicles	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Monthly Total	0.0	0.1	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Maximum Daily Total (lb/day)	0.1														

Table 20-E

Natural Gas Pipeline Construction Daily PM10 Emissions Summary

	Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12	Month 13	Month 14	Month 15
On-Site															
Equipment	2.8	4.5	3.5	3.1	5.7	6.3	6.9	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3
Motor Vehicle Exhaust	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fugitive	27.9	27.9	27.9	27.9	27.9	27.9	27.9	27.9	27.9	27.9	27.9	27.9	27.9	27.9	27.9
On-Site Total	**30.7**	**32.4**	**31.4**	**31.1**	**33.6**	**34.2**	**34.8**	**34.2**	**34.2**	**34.2**	**34.2**	**34.2**	**34.2**	**34.2**	**34.2**
Off-Site Motor Vehicle Exhaust and Fugitive	**8.3**	**8.6**	**8.6**	**8.6**	**12.4**	**12.4**	**12.7**	**12.7**	**12.7**	**12.7**	**12.7**	**12.7**	**12.7**	**12.7**	**12.7**
Monthly Total	**39.0**	**41.0**	**40.0**	**39.7**	**46.0**	**46.6**	**47.5**	**46.9**	**46.9**	**46.9**	**46.9**	**46.9**	**46.9**	**46.9**	**46.9**
Maximum Daily Total (lb/day)	**47.5**														

Table 20-F

Natural Gas Pipeline Construction Daily PM2.5 Emissions Summary

	Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12	Month 13	Month 14	Month 15
On-Site															
Equipment	2.6	4.1	3.2	2.9	5.2	5.8	6.4	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
Motor Vehicle Exhaust	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fugitive	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
On-Site Total	**8.4**	**9.9**	**9.0**	**8.7**	**11.0**	**11.6**	**12.2**	**11.6**	**11.6**	**11.6**	**11.6**	**11.6**	**11.6**	**11.6**	**11.6**
Off-Site Motor Vehicle Exhaust and Fugitive	**1.7**	**1.9**	**1.9**	**1.9**	**2.6**	**2.6**	**2.8**	**2.8**	**2.8**	**2.8**	**2.8**	**2.8**	**2.8**	**2.8**	**2.8**
Monthly Total	**10.2**	**11.8**	**10.9**	**10.6**	**13.6**	**14.2**	**14.9**	**14.4**	**14.4**	**14.4**	**14.4**	**14.4**	**14.4**	**14.4**	**14.4**
Maximum Daily Total (lb/day)	**14.9**														

Table 21-A
Sewer Line Construction Daily CO Emissions Summary

	Month 1	Month 2	Month 3	Month 4	Month 5
On-Site					
Equipment	13.2	13.2	13.2	13.2	13.2
Motor Vehicles	0.0	0.0	0.0	0.0	0.0
On-Site Total	**13.2**	**13.2**	**13.2**	**13.2**	**13.2**
Off-Site Motor Vehicles	**37.8**	**37.8**	**37.8**	**37.8**	**37.8**
Monthly Total	**51.0**	**51.0**	**51.0**	**51.0**	**51.0**
Maximum Daily Total (lb/day)	**51.0**				

Table 21-B
Sewer Line Construction Daily VOC Emissions Summary

	Month 1	Month 2	Month 3	Month 4	Month 5
On-Site					
Equipment	4.3	4.3	4.3	4.3	4.3
Motor Vehicles	0.0	0.0	0.0	0.0	0.0
On-Site Total	**4.3**	**4.3**	**4.3**	**4.3**	**4.3**
Off-Site Motor Vehicles	**3.5**	**3.5**	**3.5**	**3.5**	**3.5**
Monthly Total	**7.8**	**7.8**	**7.8**	**7.8**	**7.8**
Maximum Daily Total (lb/day)	**7.8**				

Table 21-C
Sewer Line Construction Daily NOx Emissions Summary

	Month 1	Month 2	Month 3	Month 4	Month 5
On-Site					
Equipment	20.5	20.5	20.5	20.5	20.5
Motor Vehicles	0.0	0.0	0.0	0.0	0.0
On-Site Total	**20.5**	**20.5**	**20.5**	**20.5**	**20.5**
Off-Site Motor Vehicles	**3.7**	**3.7**	**3.7**	**3.7**	**3.7**
Monthly Total	**24.2**	**24.2**	**24.2**	**24.2**	**24.2**
Maximum Daily Total (lb/day)	**24.2**				

Table 21-D
Sewer Line Construction Daily SOx Emissions Summary

	Month 1	Month 2	Month 3	Month 4	Month 5
On-Site					
Equipment	0.0	0.0	0.0	0.0	0.0
Motor Vehicles	0.0	0.0	0.0	0.0	0.0
On-Site Total	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
Off-Site Motor Vehicles	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
Monthly Total	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
Maximum Daily Total (lb/day)	**0.0**				

Table 21-E
Sewer Line Construction Daily PM10 Emissions Summary

	Month 1	Month 2	Month 3	Month 4	Month 5
On-Site					
Equipment	1.9	1.9	1.9	1.9	1.9
Motor Vehicles	0.0	0.0	0.0	0.0	0.0
Fugitive	4.0	4.0	4.0	4.0	4.0
On-Site Total	**5.9**	**5.9**	**5.9**	**5.9**	**5.9**
Off-Site Motor Vehicle Exhaust and Fugitive	**4.1**	**4.1**	**4.1**	**4.1**	**4.1**
Monthly Total	**10.1**	**10.1**	**10.1**	**10.1**	**10.1**
Maximum Daily Total (lb/day)	**10.1**				

Table 21-F
Sewer Line Construction Daily PM2.5 Emissions Summary

	Month 1	Month 2	Month 3	Month 4	Month 5
On-Site					
Equipment	1.7	1.7	1.7	1.7	1.7
Motor Vehicles	0.0	0.0	0.0	0.0	0.0
Fugitive	0.8	0.8	0.8	0.8	0.8
On-Site Total	**2.6**	**2.6**	**2.6**	**2.6**	**2.6**
Off-Site Motor Vehicle Exhaust and Fugitive	**0.9**	**0.9**	**0.9**	**0.9**	**0.9**
Monthly Total	**3.4**	**3.4**	**3.4**	**3.4**	**3.4**
Maximum Daily Total (lb/day)	**3.4**				

Table 22-A
Potable Water Line Construction Daily CO Emissions Summary

	Month 1	Month 2	Month 3	Month 4	Month 5
On-Site					
Equipment	13.2	13.2	0.0	0.0	0.0
Motor Vehicles	0.0	0.0	0.0	0.0	0.0
On-Site Total	**13.2**	**13.2**	**0.0**	**0.0**	**0.0**
Off-Site Motor Vehicles	**37.8**	**37.8**	**0.0**	**0.0**	**0.0**
Monthly Total	**51.0**	**51.0**	**0.0**	**0.0**	**0.0**
Maximum Daily Total (lb/day)	**51.0**				

Table 22-B
Potable Water Line Construction Daily VOC Emissions Summary

	Month 1	Month 2	Month 3	Month 4	Month 5
On-Site					
Equipment	4.3	4.3	0.0	0.0	0.0
Motor Vehicles	0.0	0.0	0.0	0.0	0.0
On-Site Total	**4.3**	**4.3**	**0.0**	**0.0**	**0.0**
Off-Site Motor Vehicles	**3.5**	**3.5**	**0.0**	**0.0**	**0.0**
Monthly Total	**7.8**	**7.8**	**0.0**	**0.0**	**0.0**
Maximum Daily Total (lb/day)	**7.8**				

Table 22-C
Potable Water Line Construction Daily NOx Emissions Summary

	Month 1	Month 2	Month 3	Month 4	Month 5
On-Site					
Equipment	20.5	20.5	0.0	0.0	0.0
Motor Vehicles	0.0	0.0	0.0	0.0	0.0
On-Site Total	**20.5**	**20.5**	**0.0**	**0.0**	**0.0**
Off-Site Motor Vehicles	**3.7**	**3.7**	**0.0**	**0.0**	**0.0**
Monthly Total	**24.2**	**24.2**	**0.0**	**0.0**	**0.0**
Maximum Daily Total (lb/day)	**24.2**				

Table 22-D
Potable Water Line Construction Daily SOx Emissions Summary

	Month 1	Month 2	Month 3	Month 4	Month 5
On-Site					
Equipment	0.0	0.0	0.0	0.0	0.0
Motor Vehicles	0.0	0.0	0.0	0.0	0.0
On-Site Total	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
Off-Site Motor Vehicles	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
Monthly Total	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
Maximum Daily Total (lb/day)	**0.0**				

Table 22-E
Potable Water Line Construction Daily PM10 Emissions Summary

	Month 1	Month 2	Month 3	Month 4	Month 5
On-Site					
Equipment	1.9	1.9	0.0	0.0	0.0
Motor Vehicles	0.0	0.0	0.0	0.0	0.0
Fugitive	4.0	4.0	4.0	4.0	4.0
On-Site Total	**5.9**	**5.9**	**4.0**	**4.0**	**4.0**
Off-Site Motor Vehicle Exhaust and Fugitive	**4.1**	**4.1**	**0.0**	**0.0**	**0.0**
Monthly Total	**10.1**	**10.1**	**4.0**	**4.0**	**4.0**
Maximum Daily Total (lb/day)	**10.1**				

Table 22-F
Potable Water Line Construction Daily PM2.5 Emissions Summary

	Month 1	Month 2	Month 3	Month 4	Month 5
On-Site					
Equipment	1.7	1.7	0.0	0.0	0.0
Motor Vehicles	0.0	0.0	0.0	0.0	0.0
Fugitive	0.8	0.8	0.8	0.8	0.8
On-Site Total	**2.6**	**2.6**	**0.8**	**0.8**	**0.8**
Off-Site Motor Vehicle Exhaust and Fugitive	**0.9**	**0.9**	**0.0**	**0.0**	**0.0**
Monthly Total	**3.4**	**3.4**	**0.8**	**0.8**	**0.8**
Maximum Daily Total (lb/day)	**3.4**				

Table 23-A
Transmission Line Segment 1 Construction Equipment Emissions

Phase	Equipment Type	Fuel	Hours/Day	Number	Emission Factors (lb/hr)						Emissions (lb/day)					
					CO	VOC	NOx	SOx	PM10	PM2.5	CO	VOC	NOx	SOx	PM10	PM2.5
Construction Equipment																
Marshalling Yards	Crane, Hydraulic, Rough Terrain, 30 Ton	Diesel	4	1	0.4902	0.1281	0.9859	0.0009	0.0566	0.0521	2.0	0.5	3.9	0.0	0.2	0.2
	Loader, Front End, w/ Bucket	Diesel	1	1	0.6348	0.1573	1.2278	0.0012	0.0702	0.0646	0.6	0.2	1.2	0.0	0.1	0.1
	Forklift, 5 Ton	Diesel	3	1	1.0875	0.3460	3.5414	0.0039	0.1269	0.1168	3.3	1.0	10.6	0.0	0.4	0.4
	Forklift, 10 Ton	Diesel	3	1	1.0875	0.3460	3.5414	0.0039	0.1269	0.1168	3.3	1.0	10.6	0.0	0.4	0.4
Marshalling Yards Total											**9.1**	**2.7**	**26.4**	**0.0**	**1.1**	**1.0**
Road Work	Crawler, Track Type, w/ Blade (D8 type)	Diesel	8	1	1.2793	0.3022	2.8640	0.0025	0.1150	0.1058	10.2	2.4	22.9	0.0	0.9	0.8
	Motor Grader	Diesel	8	1	0.5520	0.1672	0.9824	0.0009	0.0904	0.0832	4.4	1.3	7.9	0.0	0.7	0.7
Road Work Total											**14.7**	**3.8**	**30.8**	**0.0**	**1.6**	**1.5**
Foundations	Drill Rig, Truck Mount	Diesel	8.5	2	0.3476	0.1002	1.3151	0.0021	0.0396	0.0364	5.9	1.7	22.4	0.0	0.7	0.6
	Truck, Flatbed w/Boom, 5 Ton	Diesel	6	2	0.3642	0.1310	1.3109	0.0013	0.0499	0.0459	4.4	1.6	15.7	0.0	0.6	0.6
	Crawler, Track Type, Drill Rig, Pneumatic	Diesel	2	1	1.2793	0.3022	2.8640	0.0025	0.1150	0.1058	2.6	0.6	5.7	0.0	0.2	0.2
	Concrete Pumper	Diesel	8.5	2	0.5475	0.1448	0.9250	0.0009	0.0794	0.0730	9.3	2.5	15.7	0.0	1.3	1.2
	Loader, Front End, w/ Bucket	Diesel	3.5	1	0.6348	0.1573	1.2278	0.0012	0.0702	0.0646	2.2	0.6	4.3	0.0	0.2	0.2
	Generator	Gasoline	8.5	2	1.5828	0.1232	0.0217	0.0001	0.0087	0.0066	26.9	2.1	0.4	0.0	0.1	0.1
Foundations Total											**51.3**	**9.0**	**64.2**	**0.1**	**3.2**	**3.0**
Steel	Crane, Hydraulic, 150 Ton	Diesel	9	2	0.3642	0.1310	1.3109	0.0013	0.0499	0.0459	6.6	2.4	23.6	0.0	0.9	0.8
	Crane, Hydraulic, Rough Terrain, 30 Ton	Diesel	9	3	0.4902	0.1281	0.9859	0.0009	0.0566	0.0521	13.2	3.5	26.6	0.0	1.5	1.4
	Truck, Flatbed w/Boom, 5 Ton	Diesel	9	2	0.3642	0.1310	1.3109	0.0013	0.0499	0.0459	6.6	2.4	23.6	0.0	0.9	0.8
	Crawler, Track Type, w/ Blade (D8 type)	Diesel	6	1	0.7652	0.2048	1.5628	0.0014	0.0900	0.0828	4.6	1.2	9.4	0.0	0.5	0.5
Steel Total											**30.9**	**9.4**	**83.2**	**0.1**	**3.9**	**3.6**
Conductor	Truck, Flatbed w/Boom, 5 Ton	Diesel	10	3	0.3642	0.1310	1.3109	0.0013	0.0499	0.0459	10.9	3.9	39.3	0.0	1.5	1.4
	Tension Machine	Diesel	2.5	1	0.5910	0.1265	1.0686	0.0012	0.0576	0.0530	1.5	0.3	2.7	0.0	0.1	0.1
	Truck, Wire Puller, 3 Drum	Diesel	2.5	1	0.6496	0.1811	2.1214	0.0025	0.0719	0.0661	1.6	0.5	5.3	0.0	0.2	0.2
	Truck, Wire Puller, 1 Drum (OVHD Gr. Wr.)	Diesel	2.5	1	0.6496	0.1811	2.1214	0.0025	0.0719	0.0661	1.6	0.5	5.3	0.0	0.2	0.2
	Crawler, Track Type, w/ Blade (D8 type)	Diesel	2.5	1	1.2793	0.3022	2.8640	0.0025	0.1150	0.1058	3.2	0.8	7.2	0.0	0.3	0.3
	Crawler, Track Type, Sagging (D8 type)	Diesel	4	1	1.2793	0.3022	2.8640	0.0025	0.1150	0.1058	5.1	1.2	11.5	0.0	0.5	0.4
	Backhoe, w/Bucket	Diesel	3.5	1	0.3664	0.1000	0.6082	0.0006	0.0558	0.0514	1.3	0.3	2.1	0.0	0.2	0.2
	Digger, Transmission Type, Truck Mount	Diesel	1	1	0.8496	0.2900	2.8069	0.0025	0.1154	0.1062	0.8	0.3	2.8	0.0	0.1	0.1
	Crane, Hydraulic, Rough Terrain, 30 Ton	Diesel	10	3	0.4902	0.1281	0.9859	0.0009	0.0566	0.0521	14.7	3.8	29.6	0.0	1.7	1.6
	Generator	Gasoline	10	3	1.5828	0.1232	0.0217	0.0001	0.0087	0.0066	47.5	3.7	0.7	0.0	0.3	0.2
Conductor Total											**88.3**	**15.3**	**106.4**	**0.1**	**5.0**	**4.6**
Cleanup	Truck, Flatbed w/Boom, 5 Ton	Diesel	8	1	0.3642	0.1310	1.3109	0.0013	0.0499	0.0459	2.9	1.0	10.5	0.0	0.4	0.4
	Crawler, Track Type, w/ Blade (D8 type)	Diesel	10	1	0.7652	0.2048	1.5628	0.0014	0.0900	0.0828	7.7	2.0	15.6	0.0	0.9	0.8
	Motor Grader	Diesel	10	1	0.5520	0.1672	0.9824	0.0009	0.0904	0.0832	5.5	1.7	9.8	0.0	0.9	0.8
Cleanup Total											**16.1**	**4.8**	**35.9**	**0.0**	**2.2**	**2.0**

Note: Totals may not match sum of individual values because of rounding.

Table 23-B
Transmission Line Segment 1 Construction Motor Vehicle Exhaust Emissions

Phase	Vehicle Type	Fuel	Miles/Day	Number	Emission Factors (lb/hr)						Emissions (lb/day)					
					CO	VOC	NOx	SOx	PM10	PM2.5	CO	VOC	NOx	SOx	PM10	PM2.5
On-site Vehicles																
Marshalling Yards	On-Site Semi Tractor	Diesel	5	1	0.0104	0.0025	0.0370	0.0001	0.0015	0.0014	0.1	0.0	0.2	0.0	0.0	0.0
	On-Site Pickup Truck	Gasoline	5	2	0.0087	0.0008	0.0007	0.0000	0.0000	0.0000	0.1	0.0	0.0	0.0	0.0	0.0
	On-Site Flatbed Truck	Diesel	5	1	0.0660	0.0040	0.0100	0.0000	0.0000	0.0000	0.3	0.0	0.1	0.0	0.0	0.0
Marshalling Yards Total											**0.5**	**0.0**	**0.2**	**0.0**	**0.0**	**0.0**
Road Work	On-Site Semi Tractor	Diesel	6	2	0.0104	0.0025	0.0370	0.0001	0.0015	0.0014	0.1	0.0	0.4	0.0	0.0	0.0
	On-Site Pickup Truck	Gasoline	6	1	0.0087	0.0008	0.0007	0.0000	0.0000	0.0000	0.1	0.0	0.0	0.0	0.0	0.0
Road Work Total											**0.2**	**0.0**	**0.4**	**0.0**	**0.0**	**0.0**
Foundations	On-Site Flatbed Truck, 2 Ton	Gasoline	3	2	0.0660	0.0040	0.0100	0.0000	0.0000	0.0000	0.4	0.0	0.1	0.0	0.0	0.0
	On-Site Cement Trucks	Diesel	3	4	0.0104	0.0025	0.0370	0.0001	0.0015	0.0014	0.1	0.0	0.4	0.0	0.0	0.0
	On-Site Semi Tractor	Diesel	3	2	0.0104	0.0025	0.0370	0.0001	0.0015	0.0014	0.1	0.0	0.2	0.0	0.0	0.0
	On-Site Dump Truck	Diesel	3	2	0.0104	0.0025	0.0370	0.0001	0.0015	0.0014	0.1	0.0	0.2	0.0	0.0	0.0
	On-Site Watering Truck	Diesel	3	1	0.0104	0.0025	0.0370	0.0001	0.0015	0.0014	0.0	0.0	0.1	0.0	0.0	0.0
	On-Site Mechanics Truck	Diesel	3	1	0.0104	0.0025	0.0370	0.0001	0.0015	0.0014	0.0	0.0	0.1	0.0	0.0	0.0
	On-Site Pickup Truck	Gasoline	3	2	0.0087	0.0008	0.0007	0.0000	0.0000	0.0000	0.1	0.0	0.0	0.0	0.0	0.0
	On-Site Flatbed Truck	Gasoline	3	2	0.0660	0.0040	0.0100	0.0000	0.0000	0.0000	0.4	0.0	0.1	0.0	0.0	0.0
Foundations Total											**1.2**	**0.1**	**1.2**	**0.0**	**0.0**	**0.0**
Steel	On-Site Flatbed Truck, 2 Ton	Gasoline	3	2	0.0660	0.0040	0.0100	0.0000	0.0000	0.0000	0.4	0.0	0.1	0.0	0.0	0.0
	On-Site Pickup Truck	Gasoline	3	4	0.0087	0.0008	0.0007	0.0000	0.0000	0.0000	0.1	0.0	0.0	0.0	0.0	0.0
	On-Site Flatbed Truck	Gasoline	3	2	0.0660	0.0040	0.0100	0.0000	0.0000	0.0000	0.4	0.0	0.1	0.0	0.0	0.0
	On-Site Semi Tractor	Diesel	3	4	0.0104	0.0025	0.0370	0.0001	0.0015	0.0014	0.1	0.0	0.4	0.0	0.0	0.0
	On-Site Watering Truck	Diesel	3	1	0.0104	0.0025	0.0370	0.0001	0.0015	0.0014	0.0	0.0	0.1	0.0	0.0	0.0
	On-Site Mechanics Truck	Diesel	3	1	0.0104	0.0025	0.0370	0.0001	0.0015	0.0014	0.0	0.0	0.1	0.0	0.0	0.0
Steel Total											**1.1**	**0.1**	**0.8**	**0.0**	**0.0**	**0.0**
Conductor	On-Site Semi Tractor	Diesel	3	2	0.0104	0.0025	0.0370	0.0001	0.0015	0.0014	0.1	0.0	0.2	0.0	0.0	0.0
	On-Site Watering Truck	Diesel	3	1	0.0104	0.0025	0.0370	0.0001	0.0015	0.0014	0.0	0.0	0.1	0.0	0.0	0.0
	On-Site Flatbed Truck	Gasoline	3	2	0.0660	0.0040	0.0100	0.0000	0.0000	0.0000	0.4	0.0	0.1	0.0	0.0	0.0
	On-Site Pickup Truck	Gasoline	3	3	0.0087	0.0008	0.0007	0.0000	0.0000	0.0000	0.1	0.0	0.0	0.0	0.0	0.0
	On-Site Mechanics Truck	Diesel	3	1	0.0104	0.0025	0.0370	0.0001	0.0015	0.0014	0.0	0.0	0.1	0.0	0.0	0.0
Conductor Total											**0.6**	**0.1**	**0.5**	**0.0**	**0.0**	**0.0**
Cleanup	On-Site Dump Truck	Diesel	3	1	0.0104	0.0025	0.0370	0.0001	0.0015	0.0014	0.0	0.0	0.1	0.0	0.0	0.0
	On-Site Semi Tractor	Diesel	3	1	0.0104	0.0025	0.0370	0.0001	0.0015	0.0014	0.0	0.0	0.1	0.0	0.0	0.0
	On-Site Flatbed Truck	Gasoline	3	1	0.0660	0.0040	0.0100	0.0000	0.0000	0.0000	0.2	0.0	0.0	0.0	0.0	0.0
	On-Site Pickup Truck	Gasoline	3	1	0.0087	0.0008	0.0007	0.0000	0.0000	0.0000	0.0	0.0	0.0	0.0	0.0	0.0
Cleanup Total											**1.5**	**0.2**	**1.3**	**0.0**	**0.0**	**0.0**
Off-Site Vehicles																
Marshalling Yards	Off-Site Construction Worker Commute	Gasoline	60	6	0.0087	0.0008	0.0007	0.0000	0.0000	0.0000	3.1	0.3	0.3	0.0	0.0	0.0
Road Work	Off-Site Construction Worker Commute	Gasoline	60	3	0.0087	0.0008	0.0007	0.0000	0.0000	0.0000	1.6	0.1	0.1	0.0	0.0	0.0
Foundations	Off-Site Construction Worker Commute	Gasoline	60	20	0.0087	0.0008	0.0007	0.0000	0.0000	0.0000	10.5	1.0	0.9	0.0	0.0	0.0
Steel	Off-Site Construction Worker Commute	Gasoline	60	28	0.0087	0.0008	0.0007	0.0000	0.0000	0.0000	14.7	1.3	1.2	0.0	0.1	0.0
Conductor	Off-Site Construction Worker Commute	Gasoline	60	15	0.0087	0.0008	0.0007	0.0000	0.0000	0.0000	7.8	0.7	0.7	0.0	0.0	0.0
Cleanup	Off-Site Construction Worker Commute	Gasoline	60	4	0.0087	0.0008	0.0007	0.0000	0.0000	0.0000	2.1	0.2	0.2	0.0	0.0	0.0

Note: Totals may not match sum of individual values because of rounding.

Table 23-C
Transmission Line Segment 1 Construction Motor Vehicle Fugitive PM10 and PM2.5 Emissions

Phase	Vehicle Type	Miles/Day	Number	Emission Factors (lb/mi)		Emissions (lb/day)	
				PM10	PM2.5	PM10	PM2.5
On-site Vehicles							
Marshalling Yards	On-Site Semi Tractor	5	1	0.7385	0.1566	3.7	0.8
	On-Site Pickup Truck	5	2	0.7385	0.1566	7.4	1.6
	On-Site Flatbed Truck	5	1	0.7384	0.1565	3.7	0.8
Marshalling Yards Total						**14.8**	**3.1**
Road Work	On-Site Semi Tractor	6	2	0.7385	0.1566	8.9	1.9
	On-Site Pickup Truck	6	1	0.7385	0.1566	4.4	0.9
Road Work Total						**13.3**	**2.8**
Foundations	On-Site Flatbed Truck, 2 Ton	3	2	0.7384	0.1565	4.4	0.9
	On-Site Cement Trucks	3	4	0.7385	0.1566	8.9	1.9
	On-Site Semi Tractor	3	2	0.7385	0.1566	4.4	0.9
	On-Site Dump Truck	3	2	0.7385	0.1566	4.4	0.9
	On-Site Watering Truck	3	1	0.7385	0.1566	2.2	0.5
	On-Site Mechanics Truck	3	1	0.7385	0.1566	2.2	0.5
	On-Site Pickup Truck	3	2	0.7385	0.1566	4.4	0.9
	On-Site Flatbed Truck	3	2	0.7384	0.1565	4.4	0.9
Foundations Total						**35.4**	**7.5**
Steel	On-Site Flatbed Truck, 2 Ton	3	2	0.7384	0.1565	4.4	0.9
	On-Site Pickup Truck	3	4	0.7385	0.1566	8.9	1.9
	On-Site Flatbed Truck	3	2	0.7384	0.1565	4.4	0.9
	On-Site Semi Tractor	3	4	0.7385	0.1566	8.9	1.9
	On-Site Watering Truck	3	1	0.7385	0.1566	2.2	0.5
	On-Site Mechanics Truck	3	1	0.7385	0.1566	2.2	0.5
Steel Total						**31.0**	**6.6**
Conductor	On-Site Semi Tractor	3	2	0.7385	0.1566	4.4	0.9
	On-Site Watering Truck	3	1	0.7385	0.1566	2.2	0.5
	On-Site Flatbed Truck	3	2	0.7384	0.1565	4.4	0.9
	On-Site Pickup Truck	3	3	0.7385	0.1566	6.6	1.4
	On-Site Mechanics Truck	3	1	0.7385	0.1566	2.2	0.5
Conductor Total						**19.9**	**4.2**
Cleanup	On-Site Dump Truck	3	1	0.7385	0.1566	2.2	0.5
	On-Site Semi Tractor	3	1	0.7385	0.1566	2.2	0.5
	On-Site Flatbed Truck	3	1	0.7384	0.1565	2.2	0.5
	On-Site Pickup Truck	3	1	0.7385	0.1566	2.2	0.5
Cleanup Total						**8.9**	**1.9**
Off-Site Vehicles							
Marshalling Yards	Off-Site Construction Worker Commute	60	6	0.0009	0.0002	0.3	0.1
Road Work	Off-Site Construction Worker Commute	60	3	0.0009	0.0002	0.2	0.0
Foundations	Off-Site Construction Worker Commute	60	20	0.0009	0.0002	1.1	0.2
Steel	Off-Site Construction Worker Commute	60	28	0.0009	0.0002	1.5	0.3
Conductor	Off-Site Construction Worker Commute	60	15	0.0009	0.0002	0.8	0.1
Cleanup	Off-Site Construction Worker Commute	60	4	0.0009	0.0002	0.2	0.0

Note: Totals may not match sum of individual values because of rounding.

Table 23-D
Transmission Line Segment 1 Construction Daily Fugitive PM10 and PM2.5 Emissions

Phase	Activity	Units	Quantity/ Day	Emission Factors		Emissions (lb/day)	
				PM10	PM2.5	PM10	PM2.5
Marshalling Yards	Excavation	Cu. Yd.	0	9.94E-04	2.07E-04	0.0	0.0
	Storage Pile Wind Erosion	Acres-Days	0.00	2.93	0.61	0.0	0.0
	Bulldozing and Grading	Hours	0.0	0.348	0.072	0.0	0.0
Marshalling Yards Total						**0.0**	**0.0**
Road Work	Excavation	Cu. Yd.	0	9.94E-04	2.07E-04	0.0	0.0
	Storage Pile Wind Erosion	Acres-Days	0.00	2.93	0.61	0.0	0.0
	Bulldozing and Grading	Hours	16.0	0.348	0.072	5.6	1.2
Road Work Total						**5.6**	**1.2**
Foundations	Excavation	Cu. Yd.	237	9.94E-04	2.07E-04	0.2	0.0
	Storage Pile Wind Erosion	Acres-Days	0.02	2.93	0.61	0.1	0.0
	Bulldozing and Grading	Hours	0.0	0.348	0.072	0.0	0.0
Foundations Total						**0.3**	**0.1**
Steel	Excavation	Cu. Yd.	0	9.94E-04	2.07E-04	0.0	0.0
	Storage Pile Wind Erosion	Acres-Days	0.00	2.93	0.61	0.0	0.0
	Bulldozing and Grading	Hours	6.0	0.348	0.072	2.1	0.4
Steel Total						**2.1**	**0.4**
Conductor	Excavation	Cu. Yd.	0	9.94E-04	2.07E-04	0.0	0.0
	Storage Pile Wind Erosion	Acres-Days	0.00	2.93	0.61	0.0	0.0
	Bulldozing and Grading	Hours	2.5	0.348	0.072	0.9	0.2
Conductor Total						**0.9**	**0.2**
Cleanup	Excavation	Cu. Yd.	0	9.94E-04	2.07E-04	0.0	0.0
	Storage Pile Wind Erosion	Acres-Days	0.00	2.93	0.61	0.0	0.0
	Bulldozing and Grading	Hours	20.0	0.348	0.072	7.0	1.4
Cleanup Total						**7.0**	**1.4**

Note: Totals may not match sum of individual values because of rounding.

Table 24-A
Transmission Line Segment 2 Construction Equipment Emissions

Phase	Equipment Type	Fuel	Hours/Day	Number	Emission Factors (lb/hr)						Emissions (lb/day)					
					CO	VOC	NOx	SOx	PM10	PM2.5	CO	VOC	NOx	SOx	PM10	PM2.5
Construction Equipment																
Marshalling Yards	Crane, Hydraulic, Rough Terrain, 30 Ton	Diesel	5	1	0.4902	0.1281	0.9859	0.0009	0.0566	0.0521	2.5	0.6	4.9	0.0	0.3	0.3
	Loader, Front End, w/ Bucket	Diesel	1	1	0.6348	0.1573	1.2278	0.0012	0.0702	0.0646	0.6	0.2	1.2	0.0	0.1	0.1
	Forklift, 5 Ton	Diesel	7	1	1.0875	0.3460	3.5414	0.0039	0.1269	0.1168	7.6	2.4	24.8	0.0	0.9	0.8
	Forklift, 10 Ton	Diesel	5	1	1.0875	0.3460	3.5414	0.0039	0.1269	0.1168	5.4	1.7	17.7	0.0	0.6	0.6
	Truck, Flatbed w/Boom, 5 Ton	Diesel	7	2	0.3642	0.1310	1.3109	0.0013	0.0499	0.0459	5.1	1.8	18.4	0.0	0.7	0.6
Marshalling Yards Total											**21.2**	**6.8**	**67.0**	**0.1**	**2.6**	**2.4**
Road Work	Crawler, Track Type, w/ Blade (D8 type)	Diesel	8	1	1.2793	0.3022	2.8640	0.0025	0.1150	0.1058	10.2	2.4	22.9	0.0	0.9	0.8
	Motor Grader	Diesel	1	1	0.5520	0.1672	0.9824	0.0009	0.0904	0.0832	0.6	0.2	1.0	0.0	0.1	0.1
Road Work Total											**10.8**	**2.6**	**23.9**	**0.0**	**1.0**	**0.9**
Tower and Substation Foundation	Drill Rig, Truck Mount	Diesel	7.5	3	0.3476	0.1002	1.3151	0.0021	0.0396	0.0364	7.8	2.3	29.6	0.0	0.9	0.8
	Truck, Flatbed w/Boom, 5 Ton	Diesel	5	2	0.3642	0.1310	1.3109	0.0013	0.0499	0.0459	3.6	1.3	13.1	0.0	0.5	0.5
	Crawler, Track Type, Drill Rig, Pneumatic	Diesel	2	1	1.2793	0.3022	2.8640	0.0025	0.1150	0.1058	2.6	0.6	5.7	0.0	0.2	0.2
	Loader, Front End, w/ Bucket	Diesel	3.5	1	0.6348	0.1573	1.2278	0.0012	0.0702	0.0646	2.2	0.6	4.3	0.0	0.2	0.2
	Generator	Gasoline	7.5	4	1.5828	0.1232	0.0217	0.0001	0.0087	0.0066	47.5	3.7	0.7	0.0	0.3	0.2
Tower and Substation Foundation Total											**63.7**	**8.4**	**53.4**	**0.1**	**2.1**	**1.9**
Steel	Crane, Hydraulic, 150 Ton	Diesel	9	2	0.3642	0.1310	1.3109	0.0013	0.0499	0.0459	6.6	2.4	23.6	0.0	0.9	0.8
	Crane, Hydraulic, Rough Terrain, 30 Ton	Diesel	9	3	0.4902	0.1281	0.9859	0.0009	0.0566	0.0521	13.2	3.5	26.6	0.0	1.5	1.4
	Truck, Flatbed w/Boom, 5 Ton	Diesel	9	2	0.3642	0.1310	1.3109	0.0013	0.0499	0.0459	6.6	2.4	23.6	0.0	0.9	0.8
	Crawler, Track Type, w/ Blade (D6 type)	Diesel	6	1	0.7652	0.2048	1.5628	0.0014	0.0900	0.0828	4.6	1.2	9.4	0.0	0.5	0.5
Steel Total											**30.9**	**9.4**	**83.2**	**0.1**	**3.9**	**3.6**
Conductor	Truck, Flatbed w/Boom, 5 Ton	Diesel	9	3	0.3642	0.1310	1.3109	0.0013	0.0499	0.0459	9.8	3.5	35.4	0.0	1.3	1.2
	Tension Machine	Diesel	2.5	1	0.5910	0.1265	1.0686	0.0012	0.0576	0.0530	1.5	0.3	2.7	0.0	0.1	0.1
	Truck, Wire Puller, 3 Drum	Diesel	2.5	1	0.6496	0.1811	2.1214	0.0025	0.0719	0.0661	1.6	0.5	5.3	0.0	0.2	0.2
	Truck, Wire Puller, 1 Drum (OVHD Gr. Wr.)	Diesel	2.5	1	0.6496	0.1811	2.1214	0.0025	0.0719	0.0661	1.6	0.5	5.3	0.0	0.2	0.2
	Compressor	Gasoline	5	1	5.7144	0.1560	0.0963	0.0002	0.0756	0.0571	28.6	0.8	0.5	0.0	0.4	0.3
	Crawler, Track Type, w/ Blade (D8 type)	Diesel	2.5	1	1.2793	0.3022	2.8640	0.0025	0.1150	0.1058	3.2	0.8	7.2	0.0	0.3	0.3
	Crawler, Track Type, Sagging (D8 type)	Diesel	4	1	1.2793	0.3022	2.8640	0.0025	0.1150	0.1058	5.1	1.2	11.5	0.0	0.5	0.4
	Backhoe, w/Bucket	Diesel	3.5	1	0.3664	0.1000	0.6082	0.0006	0.0558	0.0514	1.3	0.3	2.1	0.0	0.2	0.2
	Digger, Transmission Type, Truck Mount	Diesel	1	1	0.8496	0.2900	2.8069	0.0025	0.1154	0.1062	0.8	0.3	2.8	0.0	0.1	0.1
	Crane, Hydraulic, Rough Terrain, 30 Ton	Diesel	9	3	0.4902	0.1281	0.9859	0.0009	0.0566	0.0521	13.2	3.5	26.6	0.0	1.5	1.4
	Generator	Gasoline	9	3	1.5828	0.1232	0.0217	0.0001	0.0087	0.0066	42.7	3.3	0.6	0.0	0.2	0.2
Conductor Total											**109.5**	**14.9**	**99.9**	**0.1**	**5.1**	**4.5**
Cleanup	Truck, Flatbed w/Boom, 5 Ton	Diesel	5	1	0.3642	0.1310	1.3109	0.0013	0.0499	0.0459	1.8	0.7	6.6	0.0	0.2	0.2
	Backhoe, w/Bucket	Diesel	3	1	0.3664	0.1000	0.6082	0.0006	0.0558	0.0514	1.1	0.3	1.8	0.0	0.2	0.2
	Compressor	Gasoline	5	1	5.7144	0.1560	0.0963	0.0002	0.0756	0.0571	28.6	0.8	0.5	0.0	0.4	0.3
	Crawler, Track Type, w/ Blade (D6 type)	Diesel	7.5	1	0.7652	0.2048	1.5628	0.0014	0.0900	0.0828	5.7	1.5	11.7	0.0	0.7	0.6
	Motor Grader	Diesel	7.5	1	0.5520	0.1672	0.9824	0.0009	0.0904	0.0832	4.1	1.3	7.4	0.0	0.7	0.6
Cleanup Total											**41.4**	**4.5**	**27.9**	**0.0**	**2.1**	**1.9**
Wreck-Out	Truck, Flatbed w/Boom, 5 Ton	Diesel	9	2	0.3642	0.1310	1.3109	0.0013	0.0499	0.0459	6.6	2.4	23.6	0.0	0.9	0.8
	Truck, Wire Puller, 1 Drum	Diesel	9	1	0.6496	0.1811	2.1214	0.0025	0.0719	0.0661	5.8	1.6	19.1	0.0	0.6	0.6
	Crawler, Track Type, w/ Blade (D6 type)	Diesel	9	1	0.7652	0.2048	1.5628	0.0014	0.0900	0.0828	6.9	1.8	14.1	0.0	0.8	0.7
	Truck, Manlift	Diesel	9	3	0.3642	0.1310	1.3109	0.0013	0.0499	0.0459	9.8	3.5	35.4	0.0	1.3	1.2
	Backhoe, w/Bucket	Diesel	9	1	0.3664	0.1000	0.6082	0.0006	0.0558	0.0514	3.3	0.9	5.5	0.0	0.5	0.5
	Crane, Hydraulic, Rough Terrain, 30 Ton	Diesel	5	1	0.4902	0.1281	0.9859	0.0009	0.0566	0.0521	2.5	0.6	4.9	0.0	0.3	0.3
	Generator	Gasoline	1	2	1.5828	0.1232	0.0217	0.0001	0.0087	0.0066	3.2	0.2	0.0	0.0	0.0	0.0
Wreck-Out Total											**38.0**	**11.2**	**102.6**	**0.1**	**4.5**	**4.1**

Note: Totals may not match sum of individual values because of rounding.

Table 24-B
Transmission Line Segment 2 Construction Motor Vehicle Exhaust Emissions

Phase	Vehicle Type	Fuel	Miles/Day	Number	Emission Factors (lb/hr)						Emissions (lb/day)					
					CO	VOC	NOx	SOx	PM10	PM2.5	CO	VOC	NOx	SOx	PM10	PM2.5
On-site Vehicles																
Marshalling Yards	On-Site Semi Tractor	Diesel	5	3	0.0104	0.0025	0.0370	0.0001	0.0015	0.0014	0.2	0.0	0.6	0.0	0.0	0.0
	On-Site Pickup Truck	Gasoline	5	3	0.0087	0.0008	0.0007	0.0000	0.0000	0.0000	0.1	0.0	0.0	0.0	0.0	0.0
	On-Site Dump Truck	Diesel	5	1	0.0104	0.0025	0.0370	0.0001	0.0015	0.0014	0.1	0.0	0.2	0.0	0.0	0.0
Marshalling Yards Total											**0.3**	**0.1**	**0.8**	**0.0**	**0.0**	**0.0**
Road Work	On-Site Semi Tractor	Diesel	11	2	0.0104	0.0025	0.0370	0.0001	0.0015	0.0014	0.2	0.1	0.8	0.0	0.0	0.0
	On-Site Pickup Truck	Gasoline	11	1	0.0087	0.0008	0.0007	0.0000	0.0000	0.0000	0.1	0.0	0.0	0.0	0.0	0.0
Road Work Total											**0.3**	**0.1**	**0.8**	**0.0**	**0.0**	**0.0**
Tower and Substation Foundation	On-Site Flatbed Truck, 5 Ton	Gasoline	11	2	0.0660	0.0040	0.0100	0.0000	0.0000	0.0000	1.5	0.1	0.2	0.0	0.0	0.0
	On-Site Cement Trucks	Diesel	11	8	0.0104	0.0025	0.0370	0.0001	0.0015	0.0014	0.9	0.2	3.3	0.0	0.1	0.1
	On-Site Semi Tractor	Diesel	11	2	0.0104	0.0025	0.0370	0.0001	0.0015	0.0014	0.2	0.1	0.8	0.0	0.0	0.0
	On-Site Dump Truck	Diesel	11	2	0.0104	0.0025	0.0370	0.0001	0.0015	0.0014	0.2	0.1	0.8	0.0	0.0	0.0
	On-Site Watering Truck	Diesel	11	1	0.0104	0.0025	0.0370	0.0001	0.0015	0.0014	0.1	0.0	0.4	0.0	0.0	0.0
	On-Site Mechanics Truck	Diesel	11	1	0.0104	0.0025	0.0370	0.0001	0.0015	0.0014	0.1	0.0	0.4	0.0	0.0	0.0
	On-Site Pickup Truck	Gasoline	11	2	0.0087	0.0008	0.0007	0.0000	0.0000	0.0000	0.2	0.0	0.0	0.0	0.0	0.0
	On-Site Flatbed Truck	Gasoline	11	2	0.0660	0.0040	0.0100	0.0000	0.0000	0.0000	1.5	0.1	0.2	0.0	0.0	0.0
Tower and Substation Foundation Total											**4.7**	**0.6**	**6.2**	**0.0**	**0.2**	**0.2**
Steel	On-Site Flatbed Truck, 2 Ton	Gasoline	3	2	0.0660	0.0040	0.0100	0.0000	0.0000	0.0000	0.4	0.0	0.1	0.0	0.0	0.0
	On-Site Pickup Truck	Gasoline	3	4	0.0087	0.0008	0.0007	0.0000	0.0000	0.0000	0.1	0.0	0.0	0.0	0.0	0.0
	On-Site Flatbed Truck	Gasoline	3	2	0.0660	0.0040	0.0100	0.0000	0.0000	0.0000	0.4	0.0	0.1	0.0	0.0	0.0
	On-Site Semi Tractor	Diesel	3	4	0.0104	0.0025	0.0370	0.0001	0.0015	0.0014	0.1	0.0	0.4	0.0	0.0	0.0
	On-Site Watering Truck	Diesel	3	1	0.0104	0.0025	0.0370	0.0001	0.0015	0.0014	0.0	0.0	0.1	0.0	0.0	0.0
	On-Site Mechanics Truck	Diesel	3	1	0.0104	0.0025	0.0370	0.0001	0.0015	0.0014	0.0	0.0	0.1	0.0	0.0	0.0
Steel Total											**1.1**	**0.1**	**0.8**	**0.0**	**0.0**	**0.0**
Conductor	On-Site Semi Tractor	Diesel	11	2	0.0104	0.0025	0.0370	0.0001	0.0015	0.0014	0.2	0.1	0.8	0.0	0.0	0.0
	On-Site Watering Truck	Diesel	11	1	0.0104	0.0025	0.0370	0.0001	0.0015	0.0014	0.1	0.0	0.4	0.0	0.0	0.0
	On-Site Flatbed Truck	Gasoline	11	2	0.0660	0.0040	0.0100	0.0000	0.0000	0.0000	1.5	0.1	0.2	0.0	0.0	0.0
	On-Site Pickup Truck	Gasoline	11	3	0.0087	0.0008	0.0007	0.0000	0.0000	0.0000	0.3	0.0	0.0	0.0	0.0	0.0
	On-Site Mechanics Truck	Diesel	11	1	0.0104	0.0025	0.0370	0.0001	0.0015	0.0014	0.1	0.0	0.4	0.0	0.0	0.0
Conductor Total											**2.2**	**0.2**	**1.9**	**0.0**	**0.1**	**0.1**
Cleanup	On-Site Dump Truck	Diesel	11	2	0.0104	0.0025	0.0370	0.0001	0.0015	0.0014	0.2	0.1	0.8	0.0	0.0	0.0
	On-Site Semi Tractor	Diesel	11	1	0.0104	0.0025	0.0370	0.0001	0.0015	0.0014	0.1	0.0	0.4	0.0	0.0	0.0
	On-Site Flatbed Truck	Gasoline	11	1	0.0660	0.0040	0.0100	0.0000	0.0000	0.0000	0.7	0.0	0.1	0.0	0.0	0.0
	On-Site Pickup Truck	Gasoline	11	1	0.0087	0.0008	0.0007	0.0000	0.0000	0.0000	0.1	0.0	0.0	0.0	0.0	0.0
Cleanup Total											**5.6**	**0.6**	**5.1**	**0.0**	**0.2**	**0.2**
Wreck-Out	On-Site Dump Truck	Diesel	11	2	0.0104	0.0025	0.0370	0.0001	0.0015	0.0014	0.2	0.1	0.8	0.0	0.0	0.0
	On-Site Watering Truck	Diesel	11	1	0.0104	0.0025	0.0370	0.0001	0.0015	0.0014	0.1	0.0	0.4	0.0	0.0	0.0
	On-Site Flatbed Truck, 5 Ton	Gasoline	11	3	0.0660	0.0040	0.0100	0.0000	0.0000	0.0000	2.2	0.1	0.3	0.0	0.0	0.0
	On-Site Semi Tractor	Diesel	11	3	0.0104	0.0025	0.0370	0.0001	0.0015	0.0014	0.3	0.1	1.2	0.0	0.1	0.0
	On-Site Mechanics Truck	Diesel	11	1	0.0104	0.0025	0.0370	0.0001	0.0015	0.0014	0.1	0.0	0.4	0.0	0.0	0.0
	On-Site Pickup Truck	Gasoline	11	3	0.0087	0.0008	0.0007	0.0000	0.0000	0.0000	0.3	0.0	0.0	0.0	0.0	0.0
Wreck-Out Total											**3.3**	**0.4**	**3.2**	**0.0**	**0.1**	**0.1**
Off-Site Vehicles																
Marshalling Yards	Off-Site Construction Worker Commute	Gasoline	60	6	0.0087	0.0008	0.0007	0.0000	0.0000	0.0000	3.1	0.3	0.3	0.0	0.0	0.0
Road Work	Off-Site Construction Worker Commute	Gasoline	60	3	0.0087	0.0008	0.0007	0.0000	0.0000	0.0000	1.6	0.1	0.1	0.0	0.0	0.0
Tower and Substation Foundation	Off-Site Construction Worker Commute	Gasoline	60	29	0.0087	0.0008	0.0007	0.0000	0.0000	0.0000	15.2	1.4	1.3	0.0	0.1	0.0
Steel	Off-Site Construction Worker Commute	Gasoline	60	24	0.0087	0.0008	0.0007	0.0000	0.0000	0.0000	12.6	1.2	1.1	0.0	0.0	0.0
Conductor	Off-Site Construction Worker Commute	Gasoline	60	17	0.0087	0.0008	0.0007	0.0000	0.0000	0.0000	8.9	0.8	0.8	0.0	0.0	0.0
Cleanup	Off-Site Construction Worker Commute	Gasoline	60	6	0.0087	0.0008	0.0007	0.0000	0.0000	0.0000	3.1	0.3	0.3	0.0	0.0	0.0
Wreck-Out	Off-Site Construction Worker Commute	Gasoline	60	14	0.0087	0.0008	0.0007	0.0000	0.0000	0.0000	7.3	0.7	0.6	0.0	0.0	0.0

Note: Totals may not match sum of individual values because of rounding.

Table 24-C
Transmission Line Segment 2 Construction Motor Vehicle Fugitive PM10 and PM2.5 Emissions

Phase	Vehicle Type	Miles/Day	Number	Emission Factors (lb/mi)		Emissions (lb/day)	
				PM10	PM2.5	PM10	PM2.5
On-site Vehicles							
Marshalling Yards	On-Site Semi Tractor	5	3	0.7385	0.1566	11.1	2.3
	On-Site Pickup Truck	5	3	0.7385	0.1566	11.1	2.3
	On-Site Dump Truck	5	1	0.7385	0.1566	3.7	0.8
Marshalling Yards Total						**25.8**	**5.5**
Road Work	On-Site Semi Tractor	11	2	0.7385	0.1566	16.2	3.4
	On-Site Pickup Truck	11	1	0.7385	0.1566	8.1	1.7
Road Work Total						**24.4**	**5.2**
Tower and Substation Foundation	On-Site Flatbed Truck, 5 Ton	11	2	0.7384	0.1565	16.2	3.4
	On-Site Cement Trucks	11	8	0.7385	0.1566	65.0	13.8
	On-Site Semi Tractor	11	2	0.7385	0.1566	16.2	3.4
	On-Site Dump Truck	11	2	0.7385	0.1566	16.2	3.4
	On-Site Watering Truck	11	1	0.7385	0.1566	8.1	1.7
	On-Site Mechanics Truck	11	1	0.7385	0.1566	8.1	1.7
	On-Site Pickup Truck	11	2	0.7385	0.1566	16.2	3.4
	On-Site Flatbed Truck	11	2	0.7384	0.1565	16.2	3.4
Tower and Substation Foundation Total						**162.5**	**34.4**
Steel	On-Site Flatbed Truck, 2 Ton	3	2	0.7384	0.1565	4.4	0.9
	On-Site Pickup Truck	3	4	0.7385	0.1566	8.9	1.9
	On-Site Flatbed Truck	3	2	0.7384	0.1565	4.4	0.9
	On-Site Semi Tractor	3	4	0.7385	0.1566	8.9	1.9
	On-Site Watering Truck	3	1	0.7385	0.1566	2.2	0.5
	On-Site Mechanics Truck	3	1	0.7385	0.1566	2.2	0.5
Steel Total						**31.0**	**6.6**
Conductor	On-Site Semi Tractor	11	2	0.7385	0.1566	16.2	3.4
	On-Site Watering Truck	11	1	0.7385	0.1566	8.1	1.7
	On-Site Flatbed Truck	11	2	0.7384	0.1565	16.2	3.4
	On-Site Pickup Truck	11	3	0.7385	0.1566	24.4	5.2
	On-Site Mechanics Truck	11	1	0.7385	0.1566	8.1	1.7
Conductor Total						**73.1**	**15.5**
Cleanup	On-Site Dump Truck	11	2	0.7385	0.1566	16.2	3.4
	On-Site Semi Tractor	11	1	0.7385	0.1566	8.1	1.7
	On-Site Flatbed Truck	11	1	0.7384	0.1565	8.1	1.7
	On-Site Pickup Truck	11	1	0.7385	0.1566	8.1	1.7
Cleanup Total						**40.6**	**8.6**
Wreck-Out	On-Site Dump Truck	11	2	0.7385	0.1566	16.2	3.4
	On-Site Watering Truck	11	1	0.7385	0.1566	8.1	1.7
	On-Site Flatbed Truck, 5 Ton	11	3	0.7384	0.1565	24.4	5.2
	On-Site Semi Tractor	11	3	0.7385	0.1566	24.4	5.2
	On-Site Mechanics Truck	11	1	0.7385	0.1566	8.1	1.7
	On-Site Pickup Truck	11	3	0.7385	0.1566	24.4	5.2
Wreck-Out Total						**105.6**	**22.4**
Off-Site Vehicles							
Marshalling Yards	Off-Site Construction Worker Commute	60	6	0.0009	0.0002	0.3	0.1
Road Work	Off-Site Construction Worker Commute	60	3	0.0009	0.0002	0.2	0.0
Tower and Substation Foundation	Off-Site Construction Worker Commute	60	29	0.0009	0.0002	1.6	0.3
Steel	Off-Site Construction Worker Commute	60	24	0.0009	0.0002	1.3	0.2
Conductor	Off-Site Construction Worker Commute	60	17	0.0009	0.0002	0.9	0.2
Cleanup	Off-Site Construction Worker Commute	60	6	0.0009	0.0002	0.3	0.1
Wreck-Out	Off-Site Construction Worker Commute	60	14	0.0009	0.0002	0.8	0.1

Note: Totals may not match sum of individual values because of rounding.

Table 24-D
Transmission Line Segment 2 Construction Daily Fugitive PM10 and PM2.5 Emissions

Phase	Activity	Units	Quantity/ Day	Emission Factors		Emissions (lb/day)	
				PM10	PM2.5	PM10	PM2.5
Marshalling Yards	Excavation	Cu. Yd.	0	9.94E-04	2.07E-04	0.0	0.0
	Storage Pile Wind Erosion	Acres-Days	0.00	2.93	0.61	0.0	0.0
	Bulldozing and Grading	Hours	0.0	0.348	0.072	0.0	0.0
Marshalling Yards Total						**0.0**	**0.0**
Road Work	Excavation	Cu. Yd.	0	9.94E-04	2.07E-04	0.0	0.0
	Storage Pile Wind Erosion	Acres-Days	0.00	2.93	0.61	0.0	0.0
	Bulldozing and Grading	Hours	9.0	0.348	0.072	3.1	0.7
Road Work Total						**3.1**	**0.7**
Tower and Substation Foundation	Excavation	Cu. Yd.	237	9.94E-04	2.07E-04	0.2	0.0
	Storage Pile Wind Erosion	Acres-Days	0.02	2.93	0.61	0.1	0.0
	Bulldozing and Grading	Hours	0.0	0.348	0.072	0.0	0.0
Tower and Substation Foundation Total						**0.3**	**0.1**
Steel	Excavation	Cu. Yd.	0	9.94E-04	2.07E-04	0.0	0.0
	Storage Pile Wind Erosion	Acres-Days	0.00	2.93	0.61	0.0	0.0
	Bulldozing and Grading	Hours	6.0	0.348	0.072	2.1	0.4
Steel Total						**2.1**	**0.4**
Conductor	Excavation	Cu. Yd.	0	9.94E-04	2.07E-04	0.0	0.0
	Storage Pile Wind Erosion	Acres-Days	0.00	2.93	0.61	0.0	0.0
	Bulldozing and Grading	Hours	2.5	0.348	0.072	0.9	0.2
Conductor Total						**0.9**	**0.2**
Cleanup	Excavation	Cu. Yd.	0	9.94E-04	2.07E-04	0.0	0.0
	Storage Pile Wind Erosion	Acres-Days	0.00	2.93	0.61	0.0	0.0
	Bulldozing and Grading	Hours	15.0	0.348	0.072	5.2	1.1
Cleanup Total						**5.2**	**1.1**
Wreck-Out	Excavation	Cu. Yd.	0	9.94E-04	2.07E-04	0.0	0.0
	Storage Pile Wind Erosion	Acres-Days	0.00	2.93	0.61	0.0	0.0
	Bulldozing and Grading	Hours	9.0	0.348	0.072	3.1	0.7
Wreck-Out Total						**3.1**	**0.7**

Note: Totals may not match sum of individual values because of rounding.

Table 25-A
Transmission Line Segment 1 Construction Daily CO Emissions Summary

	First Month	Last Month	Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12
On-Site														
Equipment														
Marshalling Yards	1	26	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1
Road Work	1	4	14.7	14.7	14.7	14.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Foundations	5	16	0.0	0.0	0.0	0.0	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3
Steel	10	17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30.9	30.9	30.9
Conductor	17	24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cleanup	25	26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Equipment Total			**23.8**	**23.8**	**23.8**	**23.8**	**60.4**	**60.4**	**60.4**	**60.4**	**60.4**	**91.3**	**91.3**	**91.3**
Motor Vehicles														
Marshalling Yards	1	26	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Road Work	1	4	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Foundations	5	16	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Steel	10	17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1
Conductor	17	24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cleanup	25	26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Motor Vehicle Total			**0.6**	**0.6**	**0.6**	**0.6**	**1.6**	**1.6**	**1.6**	**1.6**	**1.6**	**2.7**	**2.7**	**2.7**
On-Site Total			**24.4**	**24.4**	**24.4**	**24.4**	**62.0**	**62.0**	**62.0**	**62.0**	**62.0**	**94.0**	**94.0**	**94.0**
Off-Site Motor Vehicles														
Marshalling Yards	1	26	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
Road Work	1	4	1.6	1.6	1.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Foundations	5	16	0.0	0.0	0.0	0.0	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
Steel	10	17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.7	14.7	14.7
Conductor	17	24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cleanup	25	26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Total			**4.7**	**4.7**	**4.7**	**4.7**	**13.6**	**13.6**	**13.6**	**13.6**	**13.6**	**28.3**	**28.3**	**28.3**
Monthly Total			**29.1**	**29.1**	**29.1**	**29.1**	**75.6**	**75.6**	**75.6**	**75.6**	**75.6**	**122.3**	**122.3**	**122.3**
Maximum Daily Total (lb/day)			**156.1**											

Table 25-A (continued)
Transmission Line Segment 1 Construction Daily CO Emissions Summary

	Month 13	Month 14	Month 15	Month 16	Month 17	Month 18	Month 19	Month 20	Month 21	Month 22	Month 23	Month 24	Month 25	Month 26
On-Site														
Equipment														
Marshalling Yards	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1
Road Work	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Foundations	51.3	51.3	51.3	51.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Steel	30.9	30.9	30.9	30.9	30.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Conductor	0.0	0.0	0.0	0.0	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	0.0	0.0
Cleanup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.1	16.1
Equipment Total	**91.3**	**91.3**	**91.3**	**91.3**	**128.3**	**97.4**	**97.4**	**97.4**	**97.4**	**97.4**	**97.4**	**97.4**	**25.2**	**25.2**
Motor Vehicles														
Marshalling Yards	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Road Work	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Foundations	1.2	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Steel	1.1	1.1	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Conductor	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.0	0.0
Cleanup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5
Motor Vehicle Total	**2.7**	**2.7**	**2.7**	**2.7**	**2.2**	**1.1**	**1.1**	**1.1**	**1.1**	**1.1**	**1.1**	**1.1**	**2.0**	**2.0**
On-Site Total	**94.0**	**94.0**	**94.0**	**94.0**	**130.5**	**98.5**	**98.5**	**98.5**	**98.5**	**98.5**	**98.5**	**98.5**	**27.2**	**27.2**
Off-Site Motor Vehicles														
Marshalling Yards	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
Road Work	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Foundations	10.5	10.5	10.5	10.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Steel	14.7	14.7	14.7	14.7	14.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Conductor	0.0	0.0	0.0	0.0	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	0.0	0.0
Cleanup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	2.1
Off-Site Total	**28.3**	**28.3**	**28.3**	**28.3**	**25.6**	**11.0**	**11.0**	**11.0**	**11.0**	**11.0**	**11.0**	**11.0**	**5.2**	**5.2**
Monthly Total	**122.3**	**122.3**	**122.3**	**122.3**	**156.1**	**109.5**	**109.5**	**109.5**	**109.5**	**109.5**	**109.5**	**109.5**	**32.4**	**32.4**

Note: Totals may not match sum of individual values because of rounding.

Table 25-B

Transmission Line Segment 1 Construction Daily VOC Emissions Summary

	First Month	Last Month	Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12
On-Site														
Equipment														
Marshalling Yards	1	26	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
Road Work	1	4	3.8	3.8	3.8	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Foundations	5	16	0.0	0.0	0.0	0.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0
Steel	10	17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.4	9.4	9.4
Conductor	17	24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cleanup	25	26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Equipment Total			**6.5**	**6.5**	**6.5**	**6.5**	**11.7**	**11.7**	**11.7**	**11.7**	**11.7**	**21.1**	**21.1**	**21.1**
Motor Vehicles														
Marshalling Yards	1	26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Road Work	1	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Foundations	5	16	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Steel	10	17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1
Conductor	17	24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cleanup	25	26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Motor Vehicle Total			**0.1**	**0.1**	**0.1**	**0.1**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.3**	**0.3**	**0.3**
On-Site Total			**6.6**	**6.6**	**6.6**	**6.6**	**11.9**	**11.9**	**11.9**	**11.9**	**11.9**	**21.4**	**21.4**	**21.4**
Off-Site Motor Vehicles														
Marshalling Yards	1	26	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Road Work	1	4	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Foundations	5	16	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Steel	10	17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.3	1.3
Conductor	17	24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cleanup	25	26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Total			**0.4**	**0.4**	**0.4**	**0.4**	**1.2**	**1.2**	**1.2**	**1.2**	**1.2**	**2.6**	**2.6**	**2.6**
Monthly Total			**7.0**	**7.0**	**7.0**	**7.0**	**13.1**	**13.1**	**13.1**	**13.1**	**13.1**	**24.0**	**24.0**	**24.0**
Maximum Daily Total (lb/day)			**30.0**											

Table 25-B (continued)
Transmission Line Segment 1 Construction Daily VOC Emissions Summary

	Month 13	Month 14	Month 15	Month 16	Month 17	Month 18	Month 19	Month 20	Month 21	Month 22	Month 23	Month 24	Month 25	Month 26
On-Site														
Equipment														
Marshalling Yards	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
Road Work	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Foundations	9.0	9.0	9.0	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Steel	9.4	9.4	9.4	9.4	9.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Conductor	0.0	0.0	0.0	0.0	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3	0.0	0.0
Cleanup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	4.8
Equipment Total	**21.1**	**21.1**	**21.1**	**21.1**	**27.4**	**18.0**	**18.0**	**18.0**	**18.0**	**18.0**	**18.0**	**18.0**	**7.5**	**7.5**
Motor Vehicles														
Marshalling Yards	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Road Work	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Foundations	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Steel	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Conductor	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0
Cleanup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2
Motor Vehicle Total	**0.3**	**0.3**	**0.3**	**0.3**	**0.2**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.2**	**0.2**
On-Site Total	**21.4**	**21.4**	**21.4**	**21.4**	**27.6**	**18.1**	**18.1**	**18.1**	**18.1**	**18.1**	**18.1**	**18.1**	**7.7**	**7.7**
Off-Site Motor Vehicles														
Marshalling Yards	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Road Work	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Foundations	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Steel	1.3	1.3	1.3	1.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Conductor	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.0	0.0
Cleanup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2
Off-Site Total	**2.6**	**2.6**	**2.6**	**2.6**	**2.4**	**1.0**	**1.0**	**1.0**	**1.0**	**1.0**	**1.0**	**1.0**	**0.5**	**0.5**
Monthly Total	**24.0**	**24.0**	**24.0**	**24.0**	**30.0**	**19.2**	**19.2**	**19.2**	**19.2**	**19.2**	**19.2**	**19.2**	**8.2**	**8.2**

Note: Totals may not match sum of individual values because of rounding.

Table 25-C

Transmission Line Segment 1 Construction Daily NOx Emissions Summary

	First Month	Last Month	Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12
On-Site														
Equipment														
Marshalling Yards	1	26	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4
Road Work	1	4	30.8	30.8	30.8	30.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Foundations	5	16	0.0	0.0	0.0	0.0	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2
Steel	10	17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	83.2	83.2	83.2
Conductor	17	24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cleanup	25	26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Equipment Total			**57.2**	**57.2**	**57.2**	**57.2**	**90.6**	**90.6**	**90.6**	**90.6**	**90.6**	**173.8**	**173.8**	**173.8**
Motor Vehicles														
Marshalling Yards	1	26	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Road Work	1	4	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Foundations	5	16	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Steel	10	17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8
Conductor	17	24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cleanup	25	26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Motor Vehicle Total			**0.7**	**0.7**	**0.7**	**0.7**	**1.5**	**1.5**	**1.5**	**1.5**	**1.5**	**2.3**	**2.3**	**2.3**
On-Site Total			**57.9**	**57.9**	**57.9**	**57.9**	**92.1**	**92.1**	**92.1**	**92.1**	**92.1**	**176.1**	**176.1**	**176.1**
Off-Site Motor Vehicles														
Marshalling Yards	1	26	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Road Work	1	4	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Foundations	5	16	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
Steel	10	17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2
Conductor	17	24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cleanup	25	26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Total			**0.4**	**0.4**	**0.4**	**0.4**	**1.2**	**1.2**	**1.2**	**1.2**	**1.2**	**2.4**	**2.4**	**2.4**
Monthly Total			**58.3**	**58.3**	**58.3**	**58.3**	**93.3**	**93.3**	**93.3**	**93.3**	**93.3**	**178.5**	**178.5**	**178.5**
Maximum Daily Total (lb/day)			**219.7**											

Table 25-C (continued)
Transmission Line Segment 1 Construction Daily NOx Emissions Summary

	Month 13	Month 14	Month 15	Month 16	Month 17	Month 18	Month 19	Month 20	Month 21	Month 22	Month 23	Month 24	Month 25	Month 26
On-Site														
Equipment														
Marshalling Yards	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4
Road Work	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Foundations	64.2	64.2	64.2	64.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Steel	83.2	83.2	83.2	83.2	83.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Conductor	0.0	0.0	0.0	0.0	106.4	106.4	106.4	106.4	106.4	106.4	106.4	106.4	0.0	0.0
Cleanup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35.9	35.9
Equipment Total	**173.8**	**173.8**	**173.8**	**173.8**	**216.0**	**132.8**	**132.8**	**132.8**	**132.8**	**132.8**	**132.8**	**132.8**	**62.4**	**62.4**
Motor Vehicles														
Marshalling Yards	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Road Work	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Foundations	1.2	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Steel	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Conductor	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.0	0.0
Cleanup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.3
Motor Vehicle Total	**2.3**	**2.3**	**2.3**	**2.3**	**1.5**	**0.8**	**0.8**	**0.8**	**0.8**	**0.8**	**0.8**	**0.8**	**1.5**	**1.5**
On-Site Total	**176.1**	**176.1**	**176.1**	**176.1**	**217.5**	**133.6**	**133.6**	**133.6**	**133.6**	**133.6**	**133.6**	**133.6**	**63.9**	**63.9**
Off-Site Motor Vehicles														
Marshalling Yards	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Road Work	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Foundations	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Steel	1.2	1.2	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Conductor	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.0	0.0
Cleanup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2
Off-Site Total	**2.4**	**2.4**	**2.4**	**2.4**	**2.2**	**0.9**	**0.9**	**0.9**	**0.9**	**0.9**	**0.9**	**0.9**	**0.4**	**0.4**
Monthly Total	**178.5**	**178.5**	**178.5**	**178.5**	**219.7**	**134.5**	**134.5**	**134.5**	**134.5**	**134.5**	**134.5**	**134.5**	**64.3**	**64.3**

Note: Totals may not match sum of individual values because of rounding.

Table 25-D

Transmission Line Segment 1 Construction Daily SOx Emissions Summary

	First Month	Last Month	Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12
On-Site														
Equipment														
Marshalling Yards	1	26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Road Work	1	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Foundations	5	16	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Steel	10	17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1
Conductor	17	24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cleanup	25	26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Equipment Total			**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.2**	**0.2**	**0.2**
Motor Vehicles														
Marshalling Yards	1	26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Road Work	1	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Foundations	5	16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Steel	10	17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Conductor	17	24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cleanup	25	26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Motor Vehicle Total			**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
On-Site Total			**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.2**	**0.2**	**0.2**
Off-Site Motor Vehicles														
Marshalling Yards	1	26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Road Work	1	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Foundations	5	16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Steel	10	17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Conductor	17	24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cleanup	25	26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Total			**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
Monthly Total			**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.2**	**0.2**	**0.2**
Maximum Daily Total (lb/day)			**0.2**											

Table 25-D (continued)
Transmission Line Segment 1 Construction Daily SOx Emissions Summary

	Month 13	Month 14	Month 15	Month 16	Month 17	Month 18	Month 19	Month 20	Month 21	Month 22	Month 23	Month 24	Month 25	Month 26
On-Site														
Equipment														
Marshalling Yards	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Road Work	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Foundations	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Steel	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Conductor	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0
Cleanup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Equipment Total	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**
Motor Vehicles														
Marshalling Yards	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Road Work	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Foundations	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Steel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Conductor	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cleanup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Motor Vehicle Total	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
On-Site Total	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**
Off-Site Motor Vehicles														
Marshalling Yards	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Road Work	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Foundations	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Steel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Conductor	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cleanup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Total	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
Monthly Total	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**

Note: Totals may not match sum of individual values because of rounding.

Table 25-E
Transmission Line Segment 1 Construction Daily PM10 Emissions Summary

	First Month	Last Month	Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12
On-Site														
Equipment														
Marshalling Yards	1	26	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Road Work	1	4	1.6	1.6	1.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Foundations	5	16	0.0	0.0	0.0	0.0	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
Steel	10	17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9	3.9	3.9
Conductor	17	24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cleanup	25	26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Equipment Total			**2.7**	**2.7**	**2.7**	**2.7**	**4.3**	**4.3**	**4.3**	**4.3**	**4.3**	**8.2**	**8.2**	**8.2**
Motor Vehicle Exhaust														
Marshalling Yards	1	26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Road Work	1	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Foundations	5	16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Steel	10	17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Conductor	17	24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cleanup	25	26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Motor Vehicle Total			**0.0**	**0.0**	**0.0**	**0.0**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**
Fugitive														
Marshalling Yards			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Road Work	1	26	18.9	18.9	18.9	18.9	18.9	18.9	18.9	18.9	18.9	18.9	18.9	18.9
Foundations	1	4	35.8	35.8	35.8	35.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Steel	5	16	0.0	0.0	0.0	0.0	33.1	33.1	33.1	33.1	33.1	33.1	33.1	33.1
Conductor	10	17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.8	20.8	20.8
Cleanup	17	24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fugitive Total	25	26	**54.6**	**54.6**	**54.6**	**54.6**	**52.0**	**52.0**	**52.0**	**52.0**	**52.0**	**72.8**	**72.8**	**72.8**
On-Site Total			**57.3**	**57.3**	**57.3**	**57.3**	**56.3**	**56.3**	**56.3**	**56.3**	**56.3**	**81.0**	**81.0**	**81.0**
Off-Site Motor Vehicle Exhaust and Fugitive														
Marshalling Yards	1	26	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Road Work	1	4	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Foundations	5	16	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Steel	10	17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6
Conductor	17	24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cleanup	25	26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Total			**0.5**	**0.5**	**0.5**	**0.5**	**1.5**	**1.5**	**1.5**	**1.5**	**1.5**	**3.1**	**3.1**	**3.1**
Monthly Total			**57.8**	**57.8**	**57.8**	**57.8**	**57.8**	**57.8**	**57.8**	**57.8**	**57.8**	**84.1**	**84.1**	**84.1**
Maximum Daily Total (lb/day)			**84.1**											

Table 25-E (continued)
Transmission Line Segment 1 Construction Daily PM10 Emissions Summary

	Month 13	Month 14	Month 15	Month 16	Month 17	Month 18	Month 19	Month 20	Month 21	Month 22	Month 23	Month 24	Month 25	Month 26
On-Site														
Equipment														
Marshalling Yards	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Road Work	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Foundations	3.2	3.2	3.2	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Steel	3.9	3.9	3.9	3.9	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Conductor	0.0	0.0	0.0	0.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	0.0	0.0
Cleanup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	2.2
Equipment Total	**8.2**	**8.2**	**8.2**	**8.2**	**9.9**	**6.1**	**6.1**	**6.1**	**6.1**	**6.1**	**6.1**	**6.1**	**3.3**	**3.3**
Motor Vehicle Exhaust														
Marshalling Yards	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Road Work	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Foundations	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Steel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Conductor	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cleanup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Motor Vehicle Total	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.1**	**0.1**
Fugitive														
Marshalling Yards	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Road Work	18.9	18.9	18.9	18.9	18.9	18.9	18.9	18.9	18.9	18.9	18.9	18.9	18.9	18.9
Foundations	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Steel	33.1	33.1	33.1	33.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Conductor	20.8	20.8	20.8	20.8	20.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cleanup	0.0	0.0	0.0	0.0	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8	0.0	0.0
Fugitive Total	**72.8**	**72.8**	**72.8**	**72.8**	**55.5**	**34.7**	**34.7**	**34.7**	**34.7**	**34.7**	**34.7**	**34.7**	**18.9**	**18.9**
On-Site Total	**81.0**	**81.0**	**81.0**	**81.0**	**65.5**	**40.8**	**40.8**	**40.8**	**40.8**	**40.8**	**40.8**	**40.8**	**22.2**	**22.2**
Off-Site Motor Vehicle Exhaust and Fugitive														
Marshalling Yards	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Road Work	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Foundations	1.1	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Steel	1.6	1.6	1.6	1.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Conductor	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.0	0.0
Cleanup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2
Off-Site Total	**3.1**	**3.1**	**3.1**	**3.1**	**2.8**	**1.2**	**1.2**	**1.2**	**1.2**	**1.2**	**1.2**	**1.2**	**0.6**	**0.6**
Monthly Total	**84.1**	**84.1**	**84.1**	**84.1**	**68.3**	**42.0**	**42.0**	**42.0**	**42.0**	**42.0**	**42.0**	**42.0**	**22.7**	**22.7**

Note: Totals may not match sum of individual values because of rounding.

Table 25-F

Transmission Line Segment 1 Construction Daily PM2.5 Emissions Summary

	First Month	Last Month	Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12
On-Site														
Equipment														
Marshalling Yards	1	26	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Road Work	1	4	1.5	1.5	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Foundations	5	16	0.0	0.0	0.0	0.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Steel	10	17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	3.6	3.6
Conductor	17	24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cleanup	25	26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Equipment Total			**2.5**	**2.5**	**2.5**	**2.5**	**3.9**	**3.9**	**3.9**	**3.9**	**3.9**	**7.5**	**7.5**	**7.5**
Motor Vehicle Exhaust														
Marshalling Yards	1	26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Road Work	1	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Foundations	5	16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Steel	10	17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Conductor	17	24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cleanup	25	26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Motor Vehicle Total			**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.1**	**0.1**	**0.1**
Fugitive														
Marshalling Yards			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Road Work	1	26	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Foundations	1	4	7.6	7.6	7.6	7.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Steel	5	16	0.0	0.0	0.0	0.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
Conductor	10	17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	4.4	4.4
Cleanup	17	24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fugitive Total	25	26	**11.6**	**11.6**	**11.6**	**11.6**	**11.0**	**11.0**	**11.0**	**11.0**	**11.0**	**15.4**	**15.4**	**15.4**
On-Site Total			**14.1**	**14.1**	**14.1**	**14.1**	**15.0**	**15.0**	**15.0**	**15.0**	**15.0**	**23.0**	**23.0**	**23.0**
Off-Site Motor Vehicle Exhaust and Fugitive														
Marshalling Yards	1	26	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Road Work	1	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Foundations	5	16	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Steel	10	17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3
Conductor	17	24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cleanup	25	26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Total			**0.1**	**0.1**	**0.1**	**0.1**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.6**	**0.6**	**0.6**
Monthly Total			**14.2**	**14.2**	**14.2**	**14.2**	**15.3**	**15.3**	**15.3**	**15.3**	**15.3**	**23.6**	**23.6**	**23.6**
Maximum Daily Total (lb/day)			**23.6**											

Table 25-F (continued)
Transmission Line Segment 1 Construction Daily PM2.5 Emissions Summary

	Month 13	Month 14	Month 15	Month 16	Month 17	Month 18	Month 19	Month 20	Month 21	Month 22	Month 23	Month 24	Month 25	Month 26
On-Site														
Equipment														
Marshalling Yards	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Road Work	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Foundations	3.0	3.0	3.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Steel	3.6	3.6	3.6	3.6	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Conductor	0.0	0.0	0.0	0.0	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	0.0	0.0
Cleanup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	2.0
Equipment Total	**7.5**	**7.5**	**7.5**	**7.5**	**9.1**	**5.5**	**5.5**	**5.5**	**5.5**	**5.5**	**5.5**	**5.5**	**3.0**	**3.0**
Motor Vehicle Exhaust														
Marshalling Yards	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Road Work	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Foundations	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Steel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Conductor	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cleanup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Motor Vehicle Total	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.1**	**0.1**
Fugitive														
Marshalling Yards	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Road Work	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Foundations	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Steel	7.0	7.0	7.0	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Conductor	4.4	4.4	4.4	4.4	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cleanup	0.0	0.0	0.0	0.0	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	0.0	0.0
Fugitive Total	**15.4**	**15.4**	**15.4**	**15.4**	**11.7**	**7.3**	**7.3**	**7.3**	**7.3**	**7.3**	**7.3**	**7.3**	**4.0**	**4.0**
On-Site Total	**23.0**	**23.0**	**23.0**	**23.0**	**20.9**	**12.9**	**12.9**	**12.9**	**12.9**	**12.9**	**12.9**	**12.9**	**7.0**	**7.0**
Off-Site Motor Vehicle Exhaust and Fugitive														
Marshalling Yards	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Road Work	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Foundations	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Steel	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Conductor	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.0
Cleanup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Total	**0.6**	**0.6**	**0.6**	**0.6**	**0.6**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.1**	**0.1**
Monthly Total	**23.6**	**23.6**	**23.6**	**23.6**	**21.4**	**13.1**	**13.1**	**13.1**	**13.1**	**13.1**	**13.1**	**13.1**	**7.1**	**7.1**

Note: Totals may not match sum of individual values because of rounding.

Table 26-A
Transmission Line Segment 2 Construction Daily CO Emissions Summary

	First Week	Last Week	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13
On-Site															
Equipment															
Marshalling Yards	1	27	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2
Road Work	1	1	10.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tower and Substation Foundation	2	7	0.0	63.7	63.7	63.7	63.7	63.7	63.7	0.0	0.0	0.0	0.0	0.0	0.0
Steel	6	19	0.0	0.0	0.0	0.0	0.0	30.9	30.9	30.9	30.9	30.9	30.9	30.9	30.9
Conductor	18	26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cleanup	24	27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wreck-Out	1	5	38.0	38.0	38.0	38.0	38.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Equipment Total			**70.1**	**123.0**	**123.0**	**123.0**	**123.0**	**115.9**	**115.9**	**52.2**	**52.2**	**52.2**	**52.2**	**52.2**	**52.2**
Motor Vehicles															
Marshalling Yards	1	27	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Road Work	1	1	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tower and Substation Foundation	2	7	0.0	4.7	4.7	4.7	4.7	4.7	4.7	0.0	0.0	0.0	0.0	0.0	0.0
Steel	6	19	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Conductor	18	26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cleanup	24	27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wreck-Out	1	5	3.3	3.3	3.3	3.3	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Motor Vehicle Total			**3.9**	**8.3**	**8.3**	**8.3**	**8.3**	**6.1**	**6.1**	**1.4**	**1.4**	**1.4**	**1.4**	**1.4**	**1.4**
On-Site Total			**74.0**	**131.3**	**131.3**	**131.3**	**131.3**	**122.0**	**122.0**	**53.6**	**53.6**	**53.6**	**53.6**	**53.6**	**53.6**
Off-Site Motor Vehicles															
Marshalling Yards	1	27	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
Road Work	1	1	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tower and Substation Foundation	2	7	0.0	15.2	15.2	15.2	15.2	15.2	15.2	0.0	0.0	0.0	0.0	0.0	0.0
Steel	6	19	0.0	0.0	0.0	0.0	0.0	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6
Conductor	18	26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cleanup	24	27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wreck-Out	1	5	7.3	7.3	7.3	7.3	7.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Total			**12.0**	**25.6**	**25.6**	**25.6**	**25.6**	**30.9**	**30.9**	**15.7**	**15.7**	**15.7**	**15.7**	**15.7**	**15.7**
Monthly Total			**86.0**	**156.9**	**156.9**	**156.9**	**156.9**	**152.9**	**152.9**	**69.3**	**69.3**	**69.3**	**69.3**	**69.3**	**69.3**
Maximum Daily Total (lb/day)			**195.4**												

Table 26-A (continued)
Transmission Line Segment 2 Construction Daily CO Emissions Summary

	Week 14	Week 15	Week 16	Week 17	Week 18	Week 19	Week 20	Week 21	Week 22	Week 23	Week 24	Week 25	Week 26	Week 27
On-Site														
Equipment														
Marshalling Yards	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2
Road Work	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tower and Substation Foundation	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Steel	30.9	30.9	30.9	30.9	30.9	30.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Conductor	0.0	0.0	0.0	0.0	109.5	109.5	109.5	109.5	109.5	109.5	109.5	109.5	109.5	0.0
Cleanup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	41.4	41.4	41.4	41.4
Wreck-Out	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Equipment Total	**52.2**	**52.2**	**52.2**	**52.2**	**161.7**	**161.7**	**130.8**	**130.8**	**130.8**	**130.8**	**172.2**	**172.2**	**172.2**	**62.6**
Motor Vehicles														
Marshalling Yards	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Road Work	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tower and Substation Foundation	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Steel	1.1	1.1	1.1	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Conductor	0.0	0.0	0.0	0.0	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	0.0
Cleanup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.6	5.6	5.6	5.6
Wreck-Out	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Motor Vehicle Total	**1.4**	**1.4**	**1.4**	**1.4**	**3.6**	**3.6**	**2.5**	**2.5**	**2.5**	**2.5**	**8.1**	**8.1**	**8.1**	**5.9**
On-Site Total	**53.6**	**53.6**	**53.6**	**53.6**	**165.3**	**165.3**	**133.3**	**133.3**	**133.3**	**133.3**	**180.3**	**180.3**	**180.3**	**68.5**
Off-Site Motor Vehicles														
Marshalling Yards	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
Road Work	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tower and Substation Foundation	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Steel	12.6	12.6	12.6	12.6	12.6	12.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Conductor	0.0	0.0	0.0	0.0	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	0.0
Cleanup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	3.1	3.1	3.1
Wreck-Out	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Total	**15.7**	**15.7**	**15.7**	**15.7**	**24.6**	**24.6**	**12.0**	**12.0**	**12.0**	**12.0**	**15.2**	**15.2**	**15.2**	**6.3**
Monthly Total	**69.3**	**69.3**	**69.3**	**69.3**	**189.9**	**189.9**	**145.4**	**145.4**	**145.4**	**145.4**	**195.4**	**195.4**	**195.4**	**74.8**

Note: Totals may not match sum of individual values because of rounding.

Table 26-B
Transmission Line Segment 2 Construction Daily VOC Emissions Summary

	First Week	Last Week	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13
On-Site															
Equipment															
Marshalling Yards	1	27	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
Road Work	1	1	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tower and Substation Foundation	2	7	0.0	8.4	8.4	8.4	8.4	8.4	8.4	0.0	0.0	0.0	0.0	0.0	0.0
Steel	6	19	0.0	0.0	0.0	0.0	0.0	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4
Conductor	18	26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cleanup	24	27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wreck-Out	1	5	11.2	11.2	11.2	11.2	11.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Equipment Total			**20.5**	**26.4**	**26.4**	**26.4**	**26.4**	**24.6**	**24.6**	**16.2**	**16.2**	**16.2**	**16.2**	**16.2**	**16.2**
Motor Vehicles															
Marshalling Yards	1	27	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Road Work	1	1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tower and Substation Foundation	2	7	0.0	0.6	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0
Steel	6	19	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Conductor	18	26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cleanup	24	27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wreck-Out	1	5	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Motor Vehicle Total			**0.5**	**1.0**	**1.0**	**1.0**	**1.0**	**0.7**	**0.7**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**
On-Site Total			**21.0**	**27.3**	**27.3**	**27.3**	**27.3**	**25.3**	**25.3**	**16.4**	**16.4**	**16.4**	**16.4**	**16.4**	**16.4**
Off-Site Motor Vehicles															
Marshalling Yards	1	27	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Road Work	1	1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tower and Substation Foundation	2	7	0.0	1.4	1.4	1.4	1.4	1.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0
Steel	6	19	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Conductor	18	26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cleanup	24	27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wreck-Out	1	5	0.7	0.7	0.7	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Total			**1.1**	**2.4**	**2.4**	**2.4**	**2.4**	**2.8**	**2.8**	**1.4**	**1.4**	**1.4**	**1.4**	**1.4**	**1.4**
Monthly Total			**22.1**	**29.7**	**29.7**	**29.7**	**29.7**	**28.2**	**28.2**	**17.8**	**17.8**	**17.8**	**17.8**	**17.8**	**17.8**
Maximum Daily Total (lb/day)			**33.8**												

Table 26-B (continued)
Transmission Line Segment 2 Construction Daily VOC Emissions Summary

	Week 14	Week 15	Week 16	Week 17	Week 18	Week 19	Week 20	Week 21	Week 22	Week 23	Week 24	Week 25	Week 26	Week 27
On-Site														
Equipment														
Marshalling Yards	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
Road Work	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tower and Substation Foundation	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Steel	9.4	9.4	9.4	9.4	9.4	9.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Conductor	0.0	0.0	0.0	0.0	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	0.0
Cleanup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	4.5	4.5	4.5
Wreck-Out	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Equipment Total	**16.2**	**16.2**	**16.2**	**16.2**	**31.1**	**31.1**	**21.7**	**21.7**	**21.7**	**21.7**	**26.2**	**26.2**	**26.2**	**11.3**
Motor Vehicles														
Marshalling Yards	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Road Work	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tower and Substation Foundation	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Steel	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Conductor	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0
Cleanup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6
Wreck-Out	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Motor Vehicle Total	**0.2**	**0.2**	**0.2**	**0.2**	**0.4**	**0.4**	**0.3**	**0.3**	**0.3**	**0.3**	**0.9**	**0.9**	**0.9**	**0.6**
On-Site Total	**16.4**	**16.4**	**16.4**	**16.4**	**31.5**	**31.5**	**22.0**	**22.0**	**22.0**	**22.0**	**27.1**	**27.1**	**27.1**	**12.0**
Off-Site Motor Vehicles														
Marshalling Yards	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Road Work	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tower and Substation Foundation	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Steel	1.2	1.2	1.2	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Conductor	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.0
Cleanup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3
Wreck-Out	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Total	**1.4**	**1.4**	**1.4**	**1.4**	**2.3**	**2.3**	**1.1**	**1.1**	**1.1**	**1.1**	**1.4**	**1.4**	**1.4**	**0.6**
Monthly Total	**17.8**	**17.8**	**17.8**	**17.8**	**33.8**	**33.8**	**23.1**	**23.1**	**23.1**	**23.1**	**28.5**	**28.5**	**28.5**	**12.5**

Note: Totals may not match sum of individual values because of rounding.

Table 26-C
Transmission Line Segment 2 Construction Daily NOx Emissions Summary

	First Week	Last Week	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13
On-Site															
Equipment															
Marshalling Yards	1	27	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0
Road Work	1	1	23.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tower and Substation Foundation	2	7	0.0	53.4	53.4	53.4	53.4	53.4	53.4	0.0	0.0	0.0	0.0	0.0	0.0
Steel	6	19	0.0	0.0	0.0	0.0	0.0	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2
Conductor	18	26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cleanup	24	27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wreck-Out	1	5	102.6	102.6	102.6	102.6	102.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Equipment Total			**193.5**	**223.0**	**223.0**	**223.0**	**223.0**	**203.6**	**203.6**	**150.2**	**150.2**	**150.2**	**150.2**	**150.2**	**150.2**
Motor Vehicles															
Marshalling Yards	1	27	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Road Work	1	1	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tower and Substation Foundation	2	7	0.0	6.2	6.2	6.2	6.2	6.2	6.2	0.0	0.0	0.0	0.0	0.0	0.0
Steel	6	19	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Conductor	18	26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cleanup	24	27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wreck-Out	1	5	3.2	3.2	3.2	3.2	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Motor Vehicle Total			**4.8**	**10.1**	**10.1**	**10.1**	**10.1**	**7.7**	**7.7**	**1.5**	**1.5**	**1.5**	**1.5**	**1.5**	**1.5**
On-Site Total			**198.3**	**233.1**	**233.1**	**233.1**	**233.1**	**211.3**	**211.3**	**151.7**	**151.7**	**151.7**	**151.7**	**151.7**	**151.7**
Off-Site Motor Vehicles															
Marshalling Yards	1	27	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Road Work	1	1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tower and Substation Foundation	2	7	0.0	1.3	1.3	1.3	1.3	1.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0
Steel	6	19	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Conductor	18	26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cleanup	24	27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wreck-Out	1	5	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Total			**1.0**	**2.2**	**2.2**	**2.2**	**2.2**	**2.6**	**2.6**	**1.3**	**1.3**	**1.3**	**1.3**	**1.3**	**1.3**
Monthly Total			**199.3**	**235.3**	**235.3**	**235.3**	**235.3**	**213.9**	**213.9**	**153.1**	**153.1**	**153.1**	**153.1**	**153.1**	**153.1**
Maximum Daily Total (lb/day)			**255.6**												

Table 26-C (continued)
Transmission Line Segment 2 Construction Daily NOx Emissions Summary

	Week 14	Week 15	Week 16	Week 17	Week 18	Week 19	Week 20	Week 21	Week 22	Week 23	Week 24	Week 25	Week 26	Week 27
On-Site														
Equipment														
Marshalling Yards	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0
Road Work	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tower and Substation Foundation	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Steel	83.2	83.2	83.2	83.2	83.2	83.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Conductor	0.0	0.0	0.0	0.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	0.0
Cleanup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.9	27.9	27.9	27.9
Wreck-Out	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Equipment Total	**150.2**	**150.2**	**150.2**	**150.2**	**250.1**	**250.1**	**166.9**	**166.9**	**166.9**	**166.9**	**194.9**	**194.9**	**194.9**	**95.0**
Motor Vehicles														
Marshalling Yards	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Road Work	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tower and Substation Foundation	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Steel	0.8	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Conductor	0.0	0.0	0.0	0.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	0.0
Cleanup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.1	5.1	5.1	5.1
Wreck-Out	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Motor Vehicle Total	**1.5**	**1.5**	**1.5**	**1.5**	**3.4**	**3.4**	**2.6**	**2.6**	**2.6**	**2.6**	**7.7**	**7.7**	**7.7**	**5.8**
On-Site Total	**151.7**	**151.7**	**151.7**	**151.7**	**253.5**	**253.5**	**169.5**	**169.5**	**169.5**	**169.5**	**202.6**	**202.6**	**202.6**	**100.8**
Off-Site Motor Vehicles														
Marshalling Yards	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Road Work	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tower and Substation Foundation	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Steel	1.1	1.1	1.1	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Conductor	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.0
Cleanup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3
Wreck-Out	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Total	**1.3**	**1.3**	**1.3**	**1.3**	**2.1**	**2.1**	**1.0**	**1.0**	**1.0**	**1.0**	**1.3**	**1.3**	**1.3**	**0.5**
Monthly Total	**153.1**	**153.1**	**153.1**	**153.1**	**255.6**	**255.6**	**170.6**	**170.6**	**170.6**	**170.6**	**203.9**	**203.9**	**203.9**	**101.3**

Note: Totals may not match sum of individual values because of rounding.

Table 26-D
Transmission Line Segment 2 Construction Daily SOx Emissions Summary

	First Week	Last Week	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13
On-Site															
Equipment															
Marshalling Yards	1	27	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Road Work	1	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tower and Substation Foundation	2	7	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Steel	6	19	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Conductor	18	26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cleanup	24	27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wreck-Out	1	5	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Equipment Total			**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**
Motor Vehicles															
Marshalling Yards	1	27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Road Work	1	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tower and Substation Foundation	2	7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Steel	6	19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Conductor	18	26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cleanup	24	27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wreck-Out	1	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Motor Vehicle Total			**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
On-Site Total			**0.2**	**0.3**	**0.3**	**0.3**	**0.3**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**
Off-Site Motor Vehicles															
Marshalling Yards	1	27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Road Work	1	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tower and Substation Foundation	2	7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Steel	6	19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Conductor	18	26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cleanup	24	27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wreck-Out	1	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Total			**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
Monthly Total			**0.2**	**0.3**	**0.3**	**0.3**	**0.3**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**
Maximum Daily Total (lb/day)			**0.3**												

Table 26-D (continued)
Transmission Line Segment 2 Construction Daily SOx Emissions Summary

	Week 14	Week 15	Week 16	Week 17	Week 18	Week 19	Week 20	Week 21	Week 22	Week 23	Week 24	Week 25	Week 26	Week 27
On-Site														
Equipment														
Marshalling Yards	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Road Work	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tower and Substation Foundation	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Steel	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Conductor	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0
Cleanup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wreck-Out	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Equipment Total	**0.1**	**0.1**	**0.1**	**0.1**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.1**
Motor Vehicles														
Marshalling Yards	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Road Work	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tower and Substation Foundation	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Steel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Conductor	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cleanup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wreck-Out	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Motor Vehicle Total	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
On-Site Total	**0.2**	**0.2**	**0.2**	**0.2**	**0.3**	**0.3**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.1**
Off-Site Motor Vehicles														
Marshalling Yards	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Road Work	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tower and Substation Foundation	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Steel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Conductor	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cleanup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wreck-Out	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Total	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
Monthly Total	**0.2**	**0.2**	**0.2**	**0.2**	**0.3**	**0.3**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.1**

Note: Totals may not match sum of individual values because of rounding.

Table 26-E

Transmission Line Segment 2 Construction Daily PM10 Emissions Summary

	First Week	Last Week	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13
On-Site															
Equipment															
Marshalling Yards	1	27	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
Road Work	1	1	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tower and Substation Foundation	2	7	0.0	2.1	2.1	2.1	2.1	2.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0
Steel	6	19	0.0	0.0	0.0	0.0	0.0	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
Conductor	18	26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cleanup	24	27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wreck-Out	1	5	4.5	4.5	4.5	4.5	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Equipment Total			**8.1**	**9.2**	**9.2**	**9.2**	**9.2**	**8.6**	**8.6**	**6.4**	**6.4**	**6.4**	**6.4**	**6.4**	**6.4**
Motor Vehicle Exhaust															
Marshalling Yards	1	27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Road Work	1	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tower and Substation Foundation	2	7	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0
Steel	6	19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Conductor	18	26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cleanup	24	27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wreck-Out	1	5	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Motor Vehicle Total			**0.2**	**0.4**	**0.4**	**0.4**	**0.4**	**0.3**	**0.3**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**
Fugitive															
Marshalling Yards	1	27	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8
Road Work	1	1	27.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tower and Substation Foundation	2	7	0.0	162.8	162.8	162.8	162.8	162.8	162.8	0.0	0.0	0.0	0.0	0.0	0.0
Steel	6	19	0.0	0.0	0.0	0.0	0.0	33.1	33.1	33.1	33.1	33.1	33.1	33.1	33.1
Conductor	18	26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cleanup	24	27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wreck-Out	1	5	108.7	108.7	108.7	108.7	108.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fugitive Total			**162.1**	**297.4**	**297.4**	**297.4**	**297.4**	**221.7**	**221.7**	**58.9**	**58.9**	**58.9**	**58.9**	**58.9**	**58.9**
On-Site Total			**170.4**	**307.0**	**307.0**	**307.0**	**307.0**	**230.6**	**230.6**	**65.4**	**65.4**	**65.4**	**65.4**	**65.4**	**65.4**
Off-Site Motor Vehicle Exhaust and Fugitive															
Marshalling Yards	1	27	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Road Work	1	1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tower and Substation Foundation	2	7	0.0	1.7	1.7	1.7	1.7	1.7	1.7	0.0	0.0	0.0	0.0	0.0	0.0
Steel	6	19	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
Conductor	18	26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cleanup	24	27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wreck-Out	1	5	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Total			**1.3**	**2.8**	**2.8**	**2.8**	**2.8**	**3.4**	**3.4**	**1.7**	**1.7**	**1.7**	**1.7**	**1.7**	**1.7**
Monthly Total			**171.7**	**309.7**	**309.7**	**309.7**	**309.7**	**233.9**	**233.9**	**67.2**	**67.2**	**67.2**	**67.2**	**67.2**	**67.2**
Maximum Daily Total (lb/day)			**309.7**												

Table 26-E (continued)
Transmission Line Segment 2 Construction Daily PM10 Emissions Summary

	Week 14	Week 15	Week 16	Week 17	Week 18	Week 19	Week 20	Week 21	Week 22	Week 23	Week 24	Week 25	Week 26	Week 27
On-Site														
Equipment														
Marshalling Yards	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
Road Work	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tower and Substation Foundation	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Steel	3.9	3.9	3.9	3.9	3.9	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Conductor	0.0	0.0	0.0	0.0	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	0.0
Cleanup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	2.1	2.1	2.1
Wreck-Out	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Equipment Total	**6.4**	**6.4**	**6.4**	**6.4**	**11.5**	**11.5**	**7.6**	**7.6**	**7.6**	**7.6**	**9.8**	**9.8**	**9.8**	**4.7**
Motor Vehicle Exhaust														
Marshalling Yards	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Road Work	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tower and Substation Foundation	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Steel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Conductor	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0
Cleanup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2
Wreck-Out	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Motor Vehicle Total	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.3**	**0.3**	**0.3**	**0.2**
Fugitive														
Marshalling Yards	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8
Road Work	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tower and Substation Foundation	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Steel	33.1	33.1	33.1	33.1	33.1	33.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Conductor	0.0	0.0	0.0	0.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	0.0
Cleanup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	45.8	45.8	45.8	45.8
Wreck-Out	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fugitive Total	**58.9**	**58.9**	**58.9**	**58.9**	**132.9**	**132.9**	**99.8**	**99.8**	**99.8**	**99.8**	**145.7**	**145.7**	**145.7**	**71.7**
On-Site Total	**65.4**	**65.4**	**65.4**	**65.4**	**144.5**	**144.5**	**107.6**	**107.6**	**107.6**	**107.6**	**155.7**	**155.7**	**155.7**	**76.6**
Off-Site Motor Vehicle Exhaust and Fugitive														
Marshalling Yards	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Road Work	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tower and Substation Foundation	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Steel	1.4	1.4	1.4	1.4	1.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Conductor	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0
Cleanup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3
Wreck-Out	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Total	**1.7**	**1.7**	**1.7**	**1.7**	**2.7**	**2.7**	**1.3**	**1.3**	**1.3**	**1.3**	**1.7**	**1.7**	**1.7**	**0.7**
Monthly Total	**67.2**	**67.2**	**67.2**	**67.2**	**147.2**	**147.2**	**108.9**	**108.9**	**108.9**	**108.9**	**157.4**	**157.4**	**157.4**	**77.3**

Note: Totals may not match sum of individual values because of rounding.

Table 26-F
Transmission Line Segment 2 Construction Daily PM2.5 Emissions Summary

	First Week	Last Week	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13
On-Site															
Equipment															
Marshalling Yards	1	27	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
Road Work	1	1	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tower and Substation Foundation	2	7	0.0	1.9	1.9	1.9	1.9	1.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0
Steel	6	19	0.0	0.0	0.0	0.0	0.0	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
Conductor	18	26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cleanup	24	27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wreck-Out	1	5	4.1	4.1	4.1	4.1	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Equipment Total			**7.4**	**8.4**	**8.4**	**8.4**	**8.4**	**7.8**	**7.8**	**5.9**	**5.9**	**5.9**	**5.9**	**5.9**	**5.9**
Motor Vehicle Exhaust															
Marshalling Yards	1	27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Road Work	1	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tower and Substation Foundation	2	7	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0
Steel	6	19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Conductor	18	26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cleanup	24	27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wreck-Out	1	5	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Motor Vehicle Total			**0.2**	**0.4**	**0.4**	**0.4**	**0.4**	**0.3**	**0.3**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**
Fugitive															
Marshalling Yards	1	27	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
Road Work	1	1	5.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tower and Substation Foundation	2	7	0.0	34.5	34.5	34.5	34.5	34.5	34.5	0.0	0.0	0.0	0.0	0.0	0.0
Steel	6	19	0.0	0.0	0.0	0.0	0.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
Conductor	18	26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cleanup	24	27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wreck-Out	1	5	23.0	23.0	23.0	23.0	23.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fugitive Total			**34.3**	**63.0**	**63.0**	**63.0**	**63.0**	**47.0**	**47.0**	**12.5**	**12.5**	**12.5**	**12.5**	**12.5**	**12.5**
On-Site Total			**41.9**	**71.8**	**71.8**	**71.8**	**71.8**	**55.1**	**55.1**	**18.5**	**18.5**	**18.5**	**18.5**	**18.5**	**18.5**
Off-Site Motor Vehicle Exhaust and Fugitive															
Marshalling Yards	1	27	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Road Work	1	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tower and Substation Foundation	2	7	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0
Steel	6	19	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Conductor	18	26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cleanup	24	27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wreck-Out	1	5	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Total			**0.3**	**0.6**	**0.6**	**0.6**	**0.6**	**0.7**	**0.7**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**
Monthly Total			**42.2**	**72.4**	**72.4**	**72.4**	**72.4**	**55.8**	**55.8**	**18.8**	**18.8**	**18.8**	**18.8**	**18.8**	**18.8**
Maximum Daily Total (lb/day)			**72.4**												

Table 26-F (continued)
Transmission Line Segment 2 Construction Daily PM2.5 Emissions Summary

	Week 14	Week 15	Week 16	Week 17	Week 18	Week 19	Week 20	Week 21	Week 22	Week 23	Week 24	Week 25	Week 26	Week 27
On-Site														
Equipment														
Marshalling Yards	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
Road Work	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tower and Substation Foundation	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Steel	3.6	3.6	3.6	3.6	3.6	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Conductor	0.0	0.0	0.0	0.0	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	0.0
Cleanup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	1.9	1.9	1.9
Wreck-Out	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Equipment Total	**5.9**	**5.9**	**5.9**	**5.9**	**10.5**	**10.5**	**6.9**	**6.9**	**6.9**	**6.9**	**8.8**	**8.8**	**8.8**	**4.3**
Motor Vehicle Exhaust														
Marshalling Yards	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Road Work	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tower and Substation Foundation	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Steel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Conductor	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0
Cleanup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2
Wreck-Out	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Motor Vehicle Total	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.3**	**0.3**	**0.3**	**0.2**
Fugitive														
Marshalling Yards	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
Road Work	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tower and Substation Foundation	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Steel	7.0	7.0	7.0	7.0	7.0	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Conductor	0.0	0.0	0.0	0.0	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	0.0
Cleanup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.7	9.7	9.7	9.7
Wreck-Out	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fugitive Total	**12.5**	**12.5**	**12.5**	**12.5**	**28.2**	**28.2**	**21.2**	**21.2**	**21.2**	**21.2**	**30.9**	**30.9**	**30.9**	**15.2**
On-Site Total	**18.5**	**18.5**	**18.5**	**18.5**	**38.8**	**38.8**	**28.2**	**28.2**	**28.2**	**28.2**	**40.0**	**40.0**	**40.0**	**19.7**
Off-Site Motor Vehicle Exhaust and Fugitive														
Marshalling Yards	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Road Work	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tower and Substation Foundation	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Steel	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Conductor	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0
Cleanup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1
Wreck-Out	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Total	**0.3**	**0.3**	**0.3**	**0.3**	**0.5**	**0.5**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.1**
Monthly Total	**18.8**	**18.8**	**18.8**	**18.8**	**39.3**	**39.3**	**28.4**	**28.4**	**28.4**	**28.4**	**40.3**	**40.3**	**40.3**	**19.8**

Note: Totals may not match sum of individual values because of rounding.

Table 27
Emissions from Gas Turbine at Different Loads

											Nox (per turbine)				CO (per turbine)						VOC (per turbine)				SO2 (per turbine)			H2SO4	NH3 Slip		PM10
Case Name	Case No.	Ambient temp., F	Relative humidity	CT Operating	Combustion Turbine Load	Duct Burner Fired/Unfired	Solar	Evap. Cooling	CTG Heat Input (HHV) (total: both turbines)	Duct Burner Heat Input (HHV) (total: both DBs)	NOx	NOx	NOx Reduction Required	NOx	CO	CO	CO permit limit	CO Reduction Required	CO	CO emissions at permit limit	VOC	VOC	VOC Reduction Required	VOC	SO2	SO2	SO2	H2SO4	NH3 Slip	NH3 Slip	PM10 (front & back)
								CTG Inlet Air Cooler	MMBtu/h	MMBtu/h	ppmvd@15% O_2	ppmvd@15% O_2	%	lb/h as NO2	ppmvd@15% O_2	ppmvd@15% O_2	ppmvd@15% O_2	%	lb/h	lb/hr	ppmvd@15% O_2	ppmvd@15% O_2	%	lb/h as CH4	ppmvd@15% O_2	ppmvd@15% O_2	lb/h	lb/hr	ppmvd@15% O_2	lb/h	lb/h
Case PB-1	PB23UN	23	92%	2	100%	Unfired	No Solar	Cooler Off	3,718.36	0.00	9.0	2.0	77.8%	13.47	7.5	3.0	2.0	59.9%	12.3	8.20	1.3	2.0	none	4.7	0.112	0.112	1.05	0.400	5.0	12.5	12.0
Case PB-2	PB59UN	59	60%	2	100%	Unfired	No Solar	Cooler On	3,530.74	0.00	9.0	2.0	77.8%	12.79	7.4	3.0	2.0	59.5%	11.7	7.78	1.3	2.0	none	4.5	0.112	0.112	0.99	0.380	5.0	11.8	12.0
Case PB-3	PB64UN	64	40%	2	100%	Unfired	No Solar	Cooler On	3,527.74	0.00	9.0	2.0	77.8%	12.77	7.4	3.0	2.0	59.5%	11.7	7.78	1.3	2.0	none	4.5	0.112	0.112	0.99	0.380	5.0	11.8	12.0
Case PB-4	PB98UN	98	17%	2	100%	Unfired	No Solar	Cooler On	3,394.04	0.00	9.0	2.0	77.8%	12.29	7.4	3.0	2.0	59.2%	11.2	7.48	1.3	2.0	none	4.3	0.112	0.112	0.95	0.365	5.0	11.4	12.0
Case PB-5	PB108UN	108	13%	2	100%	Unfired	No Solar	Cooler On	3,360.48	0.00	9.0	2.0	77.8%	12.17	7.3	3.0	2.0	59.1%	11.1	7.41	1.3	2.0	none	4.2	0.112	0.112	0.95	0.362	5.0	11.3	12.0
Case PB-6	PB23US	23	92%	2	100%	Unfired	Max Solar	Cooler Off	3,718.36	0.00	9.0	2.0	77.8%	13.47	7.5	3.0	2.0	59.9%	12.3	8.20	1.3	2.0	none	4.7	0.112	0.112	1.05	0.400	5.0	12.5	12.0
Case PB-7	PB59US	59	60%	2	100%	Unfired	Max Solar	Cooler On	3,530.74	0.00	9.0	2.0	77.8%	12.79	7.4	3.0	2.0	59.5%	11.7	7.78	1.3	2.0	none	4.5	0.112	0.112	0.99	0.380	5.0	11.8	12.0
Case PB-8	PB64US	64	40%	2	100%	Unfired	Max Solar	Cooler On	3,527.74	0.00	9.0	2.0	77.8%	12.77	7.4	3.0	2.0	59.5%	11.7	7.78	1.3	2.0	none	4.5	0.112	0.112	0.99	0.380	5.0	11.8	12.0
Case PB-9	PB98US	98	17%	2	100%	Unfired	Max Solar	Cooler On	3,394.04	0.00	9.0	2.0	77.8%	12.29	7.4	3.0	2.0	59.2%	11.2	7.48	1.3	2.0	none	4.3	0.112	0.112	0.95	0.365	5.0	11.4	12.0
Case PB-10	PB108US	108	13%	2	100%	Unfired	Max Solar	Cooler On	3,360.48	0.00	9.0	2.0	77.8%	12.17	7.3	3.0	2.0	59.1%	11.1	7.41	1.3	2.0	none	4.2	0.112	0.112	0.95	0.362	5.0	11.3	12.0
Case PB-11	PB23FS	23	92%	2	100%	Fired	Max Solar	Cooler Off	3,718.36	244.39	9.8	2.0	79.6%	14.35	9.8	4.0	3.0	59.2%	17.5	13.10	1.7	2.0	none	5.0	0.105	0.112	1.11	0.427	5.0	13.3	18.0
Case PB-12	PB59FS	59	60%	2	100%	Fired	Max Solar	Cooler On	3,530.74	247.68	9.9	2.0	79.7%	13.68	9.9	4.0	3.0	59.6%	16.7	12.49	1.7	2.0	none	4.8	0.104	0.112	1.06	0.407	5.0	12.7	18.0
Case PB-13	PB64FS	64	40%	2	100%	Fired	Max Solar	Cooler On	3,527.74	248.29	9.9	2.0	79.7%	13.67	9.9	4.0	3.0	59.6%	16.6	12.48	1.7	2.0	none	4.8	0.104	0.112	1.06	0.406	5.0	12.7	18.0
Case PB-14	PB98FS	98	17%	2	100%	Fired	Max Solar	Cooler On	3,394.04	256.78	9.9	2.0	79.8%	13.21	10.0	4.0	3.0	60.1%	16.1	12.07	1.7	2.0	none	4.6	0.104	0.112	1.03	0.393	5.0	12.2	18.0
Case PB-15	PB108FS	108	13%	2	100%	Fired	Max Solar	Cooler On	3,360.48	258.69	9.9	2.0	79.9%	13.10	10.1	4.0	3.0	60.3%	16.0	11.96	1.7	2.0	none	4.6	0.104	0.112	1.02	0.390	5.0	12.1	18.0
Case PB-16	PB23FN	23	92%	2	100%	Fired	No Solar	Cooler Off	3,718.36	870.03	11.5	2.0	82.6%	16.60	14.7	4.0	3.0	72.7%	20.2	15.16	2.5	2.0	20.8%	5.8	0.091	0.112	1.29	0.494	5.0	15.4	18.0
Case PB-17	PB59FN	59	60%	2	100%	Fired	No Solar	Cooler On	3,530.74	901.38	11.7	2.0	82.9%	16.03	15.1	4.0	3.0	73.6%	19.5	14.64	2.6	2.0	23.6%	5.6	0.089	0.112	1.25	0.477	5.0	14.8	18.0
Case PB-18	PB64FN	64	40%	2	100%	Fired	No Solar	Cooler On	3,527.74	903.59	11.7	2.0	82.9%	16.03	15.2	4.0	3.0	73.6%	19.5	14.64	2.6	2.0	23.7%	5.6	0.089	0.112	1.25	0.477	5.0	14.8	18.0
Case PB-19	PB98FN	98	17%	2	100%	Fired	No Solar	Cooler On	3,394.04	953.83	11.9	2.0	83.2%	15.72	15.7	4.0	3.0	74.5%	19.1	14.36	2.7	2.0	26.6%	5.5	0.087	0.112	1.22	0.468	5.0	14.6	18.0
Case PB-20	PB108FN	108	13%	2	100%	Fired	No Solar	Cooler On	3,360.48	960.29	11.9	2.0	83.2%	15.62	15.8	4.0	3.0	74.7%	19.0	14.27	2.7	2.0	27.1%	5.4	0.087	0.112	1.22	0.465	5.0	14.5	18.0
Case PB-21	PB23UN_1x100	23	92%	1	100%	Unfired	No Solar	Cooler Off	1,859.18	0.00	9.0	2.0	77.8%	13.47	7.5	3.0	2.0	59.9%	12.3	8.20	1.3	2.0	none	4.7	0.112	0.112	1.05	0.400	5.0	12.5	12.0
Case PB-22	PB59UN_1x100	59	60%	1	100%	Unfired	No Solar	Cooler On	1,765.37	0.00	9.0	2.0	77.8%	12.79	7.4	3.0	2.0	59.5%	11.7	7.78	1.3	2.0	none	4.5	0.112	0.112	0.99	0.380	5.0	11.8	12.0
Case PB-23	PB64UN_1x100	64	40%	1	100%	Unfired	No Solar	Cooler On	1,763.87	0.00	9.0	2.0	77.8%	12.77	7.4	3.0	2.0	59.5%	11.7	7.78	1.3	2.0	none	4.5	0.112	0.112	0.99	0.380	5.0	11.8	12.0
Case PB-24	PB98UN_1x100	98	17%	1	100%	Unfired	No Solar	Cooler On	1,697.02	0.00	9.0	2.0	77.8%	12.29	7.4	3.0	2.0	59.2%	11.2	7.48	1.3	2.0	none	4.3	0.112	0.112	0.95	0.365	5.0	11.4	12.0
Case PB-25	PB108UN_1x100	108	13%	1	100%	Unfired	No Solar	Cooler On	1,680.24	0.00	9.0	2.0	77.8%	12.17	7.3	3.0	2.0	59.1%	11.1	7.41	1.3	2.0	none	4.2	0.112	0.112	0.95	0.362	5.0	11.3	12.0
Case PB-26	PB23US_1x100	23	92%	1	100%	Unfired	Max Solar	Cooler Off	1,859.18	0.00	9.0	2.0	77.8%	13.47	7.5	3.0	2.0	59.9%	12.3	8.20	1.3	2.0	none	4.7	0.112	0.112	1.05	0.400	5.0	12.5	12.0
Case PB-27	PB59US_1x100	59	60%	1	100%	Unfired	Max Solar	Cooler On	1,765.37	0.00	9.0	2.0	77.8%	12.79	7.4	3.0	2.0	59.5%	11.7	7.78	1.3	2.0	none	4.5	0.112	0.112	0.99	0.380	5.0	11.8	12.0
Case PB-28	PB64US_1x100	64	40%	1	100%	Unfired	Max Solar	Cooler On	1,763.87	0.00	9.0	2.0	77.8%	12.77	7.4	3.0	2.0	59.5%	11.7	7.78	1.3	2.0	none	4.5	0.112	0.112	0.99	0.380	5.0	11.8	12.0
Case PB-29	PB98US_1x100	98	17%	1	100%	Unfired	Max Solar	Cooler On	1,697.02	0.00	9.0	2.0	77.8%	12.29	7.4	3.0	2.0	59.2%	11.2	7.48	1.3	2.0	none	4.3	0.112	0.112	0.95	0.365	5.0	11.4	12.0
Case PB-30	PB108US_1x100	108	13%	1	100%	Unfired	Max Solar	Cooler On	1,680.24	0.00	9.0	2.0	77.8%	12.17	7.3	3.0	2.0	59.1%	11.1	7.41	1.3	2.0	none	4.2	0.112	0.112	0.95	0.362	5.0	11.3	12.0
Case PB-31	PB23FS_1x100	23	92%	1	100%	Fired	Max Solar	Cooler Off	1,859.18	277.25	10.7	2.0	81.3%	15.46	12.4	4.0	3.0	67.7%	18.8	14.12	2.1	2.0	5.9%	5.4	0.097	0.112	1.20	0.460	5.0	14.3	18.0
Case PB-32	PB59FS_1x100	59	60%	1	100%	Fired	Max Solar	Cooler On	1,765.37	277.25	10.8	2.0	81.5%	14.78	12.6	4.0	3.0	68.2%	18.0	13.50	2.2	2.0	7.6%	5.2	0.096	0.112	1.15	0.440	5.0	13.7	18.0
Case PB-33	PB64FS_1x100	64	40%	1	100%	Fired	Max Solar	Cooler On	1,763.87	277.25	10.8	2.0	81.5%	14.77	12.6	4.0	3.0	68.2%	18.0	13.49	2.2	2.0	7.6%	5.2	0.096	0.112	1.15	0.439	5.0	13.7	18.0
Case PB-34	PB98FS_1x100	98	17%	1	100%	Fired	Max Solar	Cooler On	1,697.02	277.25	10.8	2.0	81.6%	14.29	12.7	4.0	3.0	68.5%	17.4	13.05	2.2	2.0	9.0%	5.0	0.096	0.112	1.11	0.425	5.0	13.2	18.0
Case PB-35	PB108FS_1x100	108	13%	1	100%	Fired	Max Solar	Cooler On	1,680.24	277.25	10.9	2.0	81.6%	14.16	12.7	4.0	3.0	68.6%	17.2	12.94	2.2	2.0	9.3%	4.9	0.096	0.112	1.10	0.421	5.0	13.1	18.0
Case PB-36	PB23FN_1x100	23	92%	1	100%	Fired	No Solar	Cooler Off	1,859.18	521.23	11.9	2.0	83.2%	17.22	15.8	4.0	3.0	74.7%	21.0	15.72	2.7	2.0	26.5%	6.0	0.087	0.112	1.34	0.512	5.0	15.9	18.0
Case PB-37	PB59FN_1x100	59	60%	1	100%	Fired	No Solar	Cooler On	1,765.37	521.23	12.0	2.0	83.3%	16.54	16.1	4.0	3.0	75.1%	20.1	15.10	2.8	2.0	28.1%	5.8	0.086	0.112	1.29	0.492	5.0	15.3	18.0
Case PB-38	PB64FN_1x100	64	40%	1	100%	Fired	No Solar	Cooler On	1,763.87	521.23	12.0	2.0	83.3%	16.53	16.1	4.0	3.0	75.1%	20.1	15.09	2.8	2.0	28.1%	5.8	0.086	0.112	1.29	0.492	5.0	15.3	18.0
Case PB-39	PB98FN_1x100	98	17%	1	100%	Fired	No Solar	Cooler On	1,697.02	521.23	12.1	2.0	83.5%	16.04	16.3	4.0	3.0	75.5%	19.5	14.65	2.8	2.0	29.3%	5.6	0.085	0.112	1.25	0.478	5.0	14.8	18.0
Case PB-40	PB108FN_1x100	108	13%	1	100%	Fired	No Solar	Cooler On	1,680.24	521.23	12.1	2.0	83.5%	15.92	16.4	4.0	3.0	75.6%	19.4	14.54	2.8	2.0	29.6%	5.6	0.085	0.112	1.24	0.474	5.0	14.7	18.0
Case PB-41	PB23UN_2x75	23	92%	2	75%	Unfired	No Solar	Cooler Off	3,028.45	0.00	9.0	2.0	77.8%	10.97	7.3	3.0	2.0	58.7%	10.0	6.68	1.2	2.0	none	3.8	0.112	0.112	0.85	0.326	5.0	10.1	12.0
Case PB-42	PB59UN_2x75	59	60%	2	75%	Unfired	No Solar	Cooler Off	2,848.27	0.00	9.0	2.0	77.8%	10.31	7.3	3.0	2.0	59.0%	9.4	6.28	1.2	2.0	none	3.6	0.112	0.112	0.80	0.307	5.0	9.5	12.0
Case PB-43	PB64UN_2x75	64	40%	2	75%	Unfired	No Solar	Cooler Off	2,823.23	0.00	9.0	2.0	77.8%	10.22	7.3	3.0	2.0	59.1%	9.3	6.22	1.2	2.0	none	3.6	0.112	0.112	0.79	0.304	5.0	9.5	12.0
Case PB-44	PB98UN_2x75	98	17%	2	75%	Unfired	No Solar	Cooler Off	2,622.45	0.00	9.0	2.0	77.8%	9.50	7.3	3.0	2.0	59.2%	8.7	5.78	1.2	2.0	none	3.3	0.112	0.112	0.74	0.282	5.0	8.8	12.0
Case PB-45	PB108UN_2x75	108	13%	2	75%	Unfired	No Solar	Cooler Off	2,553.39	0.00	9.0	2.0	77.8%	9.25	7.4	3.0	2.0	59.5%	8.4	5.63	1.3	2.0	none	3.2	0.112	0.112	0.72	0.275	5.0	8.6	12.0
Case PB-46	PB23US_2x75	23	92%	2	75%	Unfired	Max Solar	Cooler Off	3,028.45	0.00	9.0	2.0	77.8%	10.97	7.3	3.0	2.0	58.7%	10.0	6.68	1.2	2.0	none	3.8	0.112	0.112	0.85	0.326	5.0	10.1	12.0
Case PB-47	PB59US_2x75	59	60%	2	75%	Unfired	Max Solar	Cooler Off	2,848.27	0.00	9.0	2.0	77.8%	10.31	7.3	3.0	2.0	59.0%	9.4	6.28	1.2	2.0	none	3.6	0.112	0.112	0.80	0.307	5.0	9.5	12.0
Case PB-48	PB64US_2x75	64	40%	2	75%	Unfired	Max Solar	Cooler Off	2,823.23	0.00	9.0	2.0	77.8%	10.22	7.3	3.0	2.0	59.1%	9.3	6.22	1.2	2.0	none	3.6	0.112	0.112	0.79	0.304	5.0	9.5	12.0
Case PB-49	PB98US_2x75	98	17%	2	75%	Unfired	Max Solar	Cooler Off	2,622.45	0.00	9.0	2.0	77.8%	9.50	7.3	3.0	2.0	59.2%	8.7	5.78	1.2	2.0	none	3.3	0.112	0.112	0.74	0.282	5.0	8.8	12.0
Case PB-50	PB108US_2x75	108	13%	2	75%	Unfired	Max Solar	Cooler Off	2,553.39	0.00	9.0	2.0	77.8%	9.25	7.4	3.0	2.0	59.5%	8.4	5.63	1.3	2.0	none	3.2	0.112	0.112	0.72	0.275	5.0	8.6	12.0
Case PB-51	PB23UN_1x75	23	92%	1	75%	Unfired	No Solar	Cooler Off	1,514.23	0.00	9.0	2.0	77.8%	10.97	7.3	3.0	2.0	58.7%	10.0	6.68	1.2	2.0	none	3.8	0.112	0.112	0.85	0.326	5.0	10.1	12.0
Case PB-52	PB59UN_1x75	59	60%	1	75%	Unfired	No Solar	Cooler Off	1,424.13	0.00	9.0	2.0	77.8%	10.31	7.3	3.0	2.0	59.0%	9.4	6.28	1.2	2.0	none	3.6	0.112	0.112	0.80	0.307	5.0	9.5	12.0
Case PB-53	PB64UN_1x75	64	40%	1	75%	Unfired	No Solar	Cooler Off	1,411.61	0.00	9.0	2.0	77.8%	10.22	7.3	3.0	2.0	59.1%	9.3	6.22	1.2	2.0	none	3.6	0.112	0.112	0.79	0.304	5.0	9.5	12.0
Case PB-54	PB98UN_1x75	98	17%	1	75%	Unfired	No Solar	Cooler Off	1,311.22	0.00	9.0	2.0	77.8%	9.50	7.3	3.0	2.0	59.2%	8.7	5.78	1.2	2.0	none	3.3	0.112	0.112	0.74	0.282	5.0	8.8	12.0
Case PB-55	PB108UN_1x75	108	13%	1	75%	Unfired	No Solar	Cooler Off	1,276.70	0.00	9.0	2.0	77.8%	9.25	7.4	3.0	2.0	59.5%	8.4	5.63	1.3	2.0	none	3.2	0.112	0.112	0.72	0.275	5.0	8.6	12.0
Case PB-56	PB23US_1x75	23	92%	1	75%	Unfired	Max Solar	Cooler Off	1,514.23	0.00	9.0	2.0	77.8%	10.97	7.3	3.0	2.0	58.7%	10.0	6.68	1.2	2.0	none	3.8	0.112	0.112	0.85	0.326	5.0	10.1	12.0
Case PB-57	PB59US_1x75	59	60%	1	75%	Unfired	Max Solar	Cooler Off	1,424.13	0.00	9.0	2.0	77.8%	10.31	7.3	3.0	2.0	59.0%	9.4	6.28	1.2	2.0	none	3.6	0.112	0.112	0.80	0.307	5.0	9.5	12.0
Case PB-58	PB64US_1x75	64	40%	1	75%	Unfired	Max Solar	Cooler Off	1,411.61	0.00	9.0	2.0	77.8%	10.22	7.3	3.0	2.0	59.1%	9.3	6.22	1.2	2.0	none	3.6	0.112	0.112	0.79	0.304	5.0	9.5	12.0
Case PB-59	PB98US_1x75	98	17%	1	75%	Unfired	Max Solar	Cooler Off	1,311.22	0.00	9.0	2.0	77.8%	9.50	7.3	3.0	2.0	59.2%	8.7	5.78	1.2	2.0	none	3.3	0.112	0.112	0.74	0.282	5.0	8.8	12.0
Case PB-60	PB108US_1x75	108	13%	1	75%	Unfired	Max Solar	Cooler Off	1,276.70	0.00	9.0	2.0	77.8%	9.25	7.4	3.0	2.0	59.5%	8.4	5.63	1.3	2.0	none	3.2	0.112	0.112	0.72	0.275	5.0	8.6	12.0
Case PB-61	PB23UN_2x50	23	92%	2	50%	Unfired	No Solar	Cooler Off	2,409.64	0.00	9.0	2.0	77.8%	8.73	7.4	3.0	2.0	59.7%	8.0	5.31	1.3	2.0	none	3.0	0.112	0.112	0.68	0.259	5.0	8.1	12.0
Case PB-62	PB59UN_2x50	59	60%	2	50%	Unfired	No Solar	Cooler Off	2,273.74	0.00	9.0	2.0	77.8%	8.24	7.6	3.0	2.0	60.6%	7.5	5.01	1.3	2.0	none	2.9	0.112	0.112	0.64	0.245	5.0	7.6	12.0

Table 27
Emissions from Gas Turbine at Different Loads

											Nox (per turbine)				CO (per turbine)						VOC (per turbine)				SO2 (per turbine)			H2SO4	NH3 Slip		PM10
Case Name	Case No.	Ambient temp., F	Relative humidity	CT Operating	Combustion Turbine Load	Duct Burner Fired/Unfired	Solar	Evap. Cooling	CTG Heat Input (HHV) (total: both turbines)	Duct Burner Heat Input (HHV) (total: both DBs)	NOx	NOx	NOx Reduction Required	NOx	CO	CO	CO permit limit	CO Reduction Required	CO	CO emissions at permit limit	VOC	VOC	VOC Reduction Required	VOC	SO2	SO2	SO2	H2SO4	NH3 Slip	NH3 Slip	PM10 (front & back)
								CTG Inlet Air Cooler	MMBtu/h	MMBtu/h	ppmvd@15% O_2	ppmvd@15% O_2	%	lb/h as NO2	ppmvd@15% O_2	ppmvd@15% O_2	ppmvd@15% O_2	%	lb/h	lb/hr	ppmvd@15% O_2	ppmvd@15% O_2	%	lb/h as CH4	ppmvd@15% O_2	ppmvd@15% O_2	lb/h	lb/hr	ppmvd@15% O_2	lb/h	lb/h
Case PB-63	PB64UN_2x50	64	40%	2	50%	Unfired	No Solar	Cooler Off	2,250.98	0.00	9.0	2.0	77.8%	8.15	7.7	3.0	2.0	60.9%	7.4	4.96	1.3	2.0	none	2.8	0.112	0.112	0.63	0.242	5.0	7.5	12.0
Case PB-64	PB98UN_2x50	98	17%	2	50%	Unfired	No Solar	Cooler Off	2,072.70	0.00	9.0	2.0	77.8%	7.51	8.0	3.0	2.0	62.5%	6.9	4.57	1.4	2.0	none	2.6	0.112	0.112	0.58	0.223	5.0	6.9	12.0
Case PB-65	PB108UN_2x50	108	13%	2	50%	Unfired	No Solar	Cooler Off	2,009.37	0.00	9.0	2.0	77.8%	7.28	8.1	3.0	2.0	63.1%	6.6	4.43	1.4	2.0	none	2.5	0.111	0.111	0.57	0.216	5.0	6.7	12.0
Case PB-66	PB23US_2x50	23	92%	2	50%	Unfired	Max Solar	Cooler Off	2,409.64	0.00	9.0	2.0	77.8%	8.73	7.4	3.0	2.0	59.7%	8.0	5.31	1.3	2.0	none	3.0	0.112	0.112	0.68	0.259	5.0	8.1	12.0
Case PB-67	PB59US_2x50	59	60%	2	50%	Unfired	Max Solar	Cooler Off	2,273.74	0.00	9.0	2.0	77.8%	8.24	7.6	3.0	2.0	60.6%	7.5	5.01	1.3	2.0	none	2.9	0.112	0.112	0.64	0.245	5.0	7.6	12.0
Case PB-68	PB64US_2x50	64	40%	2	50%	Unfired	Max Solar	Cooler Off	2,250.98	0.00	9.0	2.0	77.8%	8.15	7.7	3.0	2.0	60.9%	7.4	4.96	1.3	2.0	none	2.8	0.112	0.112	0.63	0.242	5.0	7.5	12.0
Case PB-69	PB98US_2x50	98	17%	2	50%	Unfired	Max Solar	Cooler Off	2,072.70	0.00	9.0	2.0	77.8%	7.51	8.0	3.0	2.0	62.5%	6.9	4.57	1.4	2.0	none	2.6	0.112	0.112	0.58	0.223	5.0	6.9	12.0
Case PB-70	PB108US_2x50	108	13%	2	50%	Unfired	Max Solar	Cooler Off	2,009.37	0.00	9.0	2.0	77.8%	7.28	8.1	3.0	2.0	63.1%	6.6	4.43	1.4	2.0	none	2.5	0.111	0.111	0.57	0.216	5.0	6.7	12.0
Case PB-71	PB23UN_1x50	23	92%	1	50%	Unfired	No Solar	Cooler Off	1,204.82	0.00	9.0	2.0	77.8%	8.73	7.4	3.0	2.0	59.7%	8.0	5.31	1.3	2.0	none	3.0	0.112	0.112	0.68	0.259	5.0	8.1	12.0
Case PB-72	PB59UN_1x50	59	60%	1	50%	Unfired	No Solar	Cooler Off	1,136.87	0.00	9.0	2.0	77.8%	8.24	7.6	3.0	2.0	60.6%	7.5	5.01	1.3	2.0	none	2.9	0.112	0.112	0.64	0.245	5.0	7.6	12.0
Case PB-73	PB64UN_1x50	64	40%	1	50%	Unfired	No Solar	Cooler Off	1,125.49	0.00	9.0	2.0	77.8%	8.15	7.7	3.0	2.0	60.9%	7.4	4.96	1.3	2.0	none	2.8	0.112	0.112	0.63	0.242	5.0	7.5	12.0
Case PB-74	PB98UN_1x50	98	17%	1	50%	Unfired	No Solar	Cooler Off	1,036.35	0.00	9.0	2.0	77.8%	7.51	8.0	3.0	2.0	62.5%	6.9	4.57	1.4	2.0	none	2.6	0.112	0.112	0.58	0.223	5.0	6.9	12.0
Case PB-75	PB108UN_1x50	108	13%	1	50%	Unfired	No Solar	Cooler Off	1,004.69	0.00	9.0	2.0	77.8%	7.28	8.1	3.0	2.0	63.1%	6.6	4.43	1.4	2.0	none	2.5	0.111	0.111	0.57	0.216	5.0	6.7	12.0
Case PB-76	PB23US_1x50	23	92%	1	50%	Unfired	Max Solar	Cooler Off	1,204.82	0.00	9.0	2.0	77.8%	8.73	7.4	3.0	2.0	59.7%	8.0	5.31	1.3	2.0	none	3.0	0.112	0.112	0.68	0.259	5.0	8.1	12.0
Case PB-77	PB59US_1x50	59	60%	1	50%	Unfired	Max Solar	Cooler Off	1,136.87	0.00	9.0	2.0	77.8%	8.24	7.6	3.0	2.0	60.6%	7.5	5.01	1.3	2.0	none	2.9	0.112	0.112	0.64	0.245	5.0	7.6	12.0
Case PB-78	PB64US_1x50	64	40%	1	50%	Unfired	Max Solar	Cooler Off	1,125.49	0.00	9.0	2.0	77.8%	8.15	7.7	3.0	2.0	60.9%	7.4	4.96	1.3	2.0	none	2.8	0.112	0.112	0.63	0.242	5.0	7.5	12.0
Case PB-79	PB98US_1x50	98	17%	1	50%	Unfired	Max Solar	Cooler Off	1,036.35	0.00	9.0	2.0	77.8%	7.51	8.0	3.0	2.0	62.5%	6.9	4.57	1.4	2.0	none	2.6	0.112	0.112	0.58	0.223	5.0	6.9	12.0
Case PB-80	PB108US_1x50	108	13%	1	50%	Unfired	Max Solar	Cooler Off	1,004.69	0.00	9.0	2.0	77.8%	7.28	8.1	3.0	2.0	63.1%	6.6	4.43	1.4	2.0	none	2.5	0.111	0.111	0.57	0.216	5.0	6.7	12.0

PHPP Operation Criteria Pollutant Emissions

Table 28 Maximum Annual Emissions with Startups and Shutdowns

Start-up, Shutdown and Offline Events / Hours (Each Turbine)

Operating Mode	Number	Duration (SU/SD)		Offline		NO_x	CO	VOC
	of Events/yr	hr/event	hr/yr	hr/event	hr/yr	lb/stack	lb/stack	lb/stack
hot / warm start	260	1.3	347	6	1560	40	329	28
cold start	50	1.8	92	48	2400	96	410	31
shutdown	310	0.5	155	n/a	n/a	57	337	29
TOTALS			**593**		**3960**			

NOx, CO, and VOC lb/stack emission rates are based on GE guarantees

Annual NO_x Emissions with Start-up and Shutdown (Two Turbines)

Operating Mode	NO_x			
	hr/yr	lb/hr/turbine	Both Turbines total lb/hr	Both Turbines total TPY
without duct burning	2,207	12.8	25.5	28.2
with duct burning	2,000	13.7	27.3	27.3
hot / warm start	347	30.0	60.0	10.4
cold start	92	52.4	104.7	4.8
shutdown	155	114.0	228.0	17.7
TOTALS	**4,800**	**223**	**446**	**88**

Annual CO Emissions with Start-up and Shutdown (Two Turbines)

Operating Mode	CO			
	hr/yr	lb/hr/turbine	Both Turbines total lb/hr	Both Turbines total TPY
without duct burning	2,207	7.8	15.6	17.2
with duct burning	2,000	12.5	25.0	25.0
hot / warm start	347	247	494	85.5
cold start	92	224	447	20.5
shutdown	155	674	1,348	104.5
TOTALS	**4,800**	**1,165**	**2,329**	**253**

Annual VOC Emissions with Start-up and Shutdown (Two Turbines)

Operating Mode	VOC			
	hr/yr	lb/hr	Both Turbines total lb/hr	Both Turbines total TPY
without duct burning	2,207	4.5	8.9	9.8
with duct burning	2,000	4.8	9.5	9.5
hot / warm start	347	21	42.0	7.3
cold start	92	17	33.8	1.6
shutdown	155	58	116.0	9.0
TOTALS	**4,800**	**105**	**210**	**37.2**

Table 29 Comparison of Emissions for Continuous Operation to Emissions with Startups and Shutdowns

Continuous Operation Emissions (100% load, 64 F, 8,760 total hr/yr)	Operating hours/yr	NO_x lb/hr	NO_x tpy	CO lb/hr	CO tpy	VOC lb/hr	VOC tpy	PM_{10} lb/hr	PM_{10} tpy	SO_2 lb/hr	SO_2 tpy
Without duct burning	6,760	25.5	86.4	15.6	52.6	8.9	30.1	24.0	81.1	1.98	6.71
With duct burning	2,000	27.3	27.3	25.0	25.0	9.5	9.5	36.0	36.0	2.12	2.12
Total	8,760		**113.7**		**77.5**		**39.6**		**117.1**		**8.8**
Emissions with Start-up/Shutdown (includes normal operations and offline period associated with SU/SD)			**88.4**		**252.6**		**37.2**		**n/a**		**n/a**
Maximum Annual Emissions			**113.7**		**252.6**		**39.6**		**117.1**		**8.8**

Table 30 Emissions from Natural Gas Fired Auxiliary Boiler

	Emission Factor [3] (lb/10^6 scf)	Emission Factor [3] (lb/MMBtu)	Emission Rate (lb/hr)	Emission Rate (tpy)
NO_x [1]	---	0.011	1.100	0.2750
VOC	5.50	0.005	0.537	0.1343
CO [1]	---	0.037	3.681	0.9202
SO_2 [2]	0.60	0.0006	0.059	0.0146
PM_{10} Total	7.60	0.007	0.742	0.1855
Lead	5.00E-04	4.88E-07	4.88E-05	1.22E-05

Notes

1 - Assumes 9 ppmvd NO_x and 50 ppmvd CO at 3% O_2 with low NO_x burners.

2 - Assumes 0.2 grains Sulfur/100 scf natural gas

3 - From AP42 - Table 1.4-1 and Table 1.4-2

Maximum annual operation 500 hr/yr

Boiler Heat Input Heating Value NG

100.00 MMBtu/hr 1,024 Btu/scf

4 - Size of boiler given by Sara Head in her email to Rich Hamel and Russ Kingsley dated June 18, 2008.

Table 31 Emissions from Natural Gas Fired HTF Heater

Pollutant	Emission Factor [3] (lb/10^6 scf)	Emission Factor [3] (lb/MMBtu)	Emission Rate (lb/hr)	Emission Rate (tpy)
NO_x [1]	---	0.011	0.440	0.220
VOC	5.5	0.005	0.215	0.107
CO [1]	---	0.037	1.472	0.736
SO_2 [2]	0.6	0.0006	0.023	0.012
PM_{10} Total	7.6	0.007	0.297	0.148
Lead	5.00E-04	4.88E-07	1.95E-05	9.77E-06

Notes

1 - Assumes 9 ppmvd NO_x and 50 ppmvd CO at 3% O_2 with low NO_x burners.

2 - Assumes 0.2 grains Sulfur/100 scf natural gas

3 - From AP42 - Table 1.4-1 and Table 1.4-2

Maximum annual operation 1,000 hr/yr

Boiler Heat Input 40.00 MMBtu/hr

Heating Value NG 1,024 Btu/scf

Table 32 Emissions from Emergency Diesel Generator

Emission estimates per Tier 2, 2009 model year Emergency Diesel Generator

Diesel engine output:	2,681	hp	2.0	MW
Diesel engine output:	6.82	MMBtu/hr		
Diesel engine input:	19.45	MMBtu/hr	Vendor data	
Maximum Annual Hours of Operation:	50	hours/year		
Stack Height:	30	feet	assumption	
Stack Diameter:	1.79	feet		
Stack Flow Rate:	15,136	cfm	Vendor data	
Stack Gas Exit Temperature:	761.7	F	Vendor data	
Stack Gas Exit Velocity:	100.00	ft/s	assumption	

Pollutant	Emission Factor	Units	Hourly Emissions			Annual Emissions	
			(lb/hr)	(g/hp-hr)	(g/s)	(ton/yr)	(g/s)
NO_x	6.4	g/kW-hr	26.80	4.53	3.38	0.67	0.019
VOC	6.4	g/kW-hr	1.41	0.24	0.18	0.04	0.0010
CO	3.5	g/kW-hr	15.43	2.61	1.94	0.39	0.0111
SO_2	0.0015	lb/MMBtu	0.029	0.0050	0.0037	0.0007	0.00002
PM_{10} total	0.2	g/kW-hr	0.88	0.15	0.1111	0.0220	0.0006
Lead	9.E-06	lb/MMBtu	2.E-04	3.E-05	2.E-05	4.E-06	1.E-07

Sulfur Content of Fuel %	0.0015

NOTES:

1. The emission factor for SO_2 is 1.01 times the sulfur content of the fuel. AP-42 Table 3.4-1 (10/96)
2. Emissions factors for lead similar to BACT for recent permits (Desert Rock Project). Remaining from Caterpillar.

Table 33 Emissions from Firewater Pump Diesel Engine

Emission Estimates For Fire Water Pump

Diesel engine output:	182	hp	1.341 hp/kW
Diesel engine output:	0.46	MMBtu/hr	1hp = 2544 Btu/hr
Diesel engine input:	1.32	MMBtu/hr	
Maximum Annual Hours of Operation:	50	hours/year	
Stack Height:	30	feet	assumption
Stack Diameter	0.47	feet	
Stack Flow Rate:	1,028	cfm	Scaled from EDG (2682 hp)
Stack Gas Exit Temperature:	761.7	F	
Stack Gas Exit Velocity:	100.04	ft/s	assumption

Pollutant	Emission Factor	Units	Hourly Emissions			Annual Emissions	
			(lb/hr)	(g/hp-hr)	(g/s)	(ton/yr)	(g/s)
NO_x	4	g/kW-hr	1.14	2.83	0.14	0.03	0.001
VOC	4	g/kW-hr	0.06	0.15	0.01	0.00	0.0000
CO	3.5	g/kW-hr	1.05	2.61	0.13	0.03	0.001
SO_2	0.0015	lb/MMBtu	0.002	0.005	0.0003	0.0000	0.0000014
PM_{10} total	0.2	g/kW-hr	0.060	0.15	0.008	0.00150	0.00004
Lead	9.E-06	lb/MMBtu	1.E-05	3.E-05	1.E-06	3.E-07	9.E-09

Sulfur Content of Fuel	0.0015

NOTES:

1. The emission factor for SO2 is 1.01 times the sulfur content of the fuel. AP-42 Table 3.4-1 (10/96)
2. Emissions factors for lead similar to BACT for recent permits (Desert Rock Project). Remaining from Caterpi

Table 34 Cooling Tower Particulate Matter Emissions Estimates

Parameter	Units	Value
Water Circulation Rate	gpm	130,000
Total Liquid Drift	(%)	0.00050
Maximum TDS of Circulated Water	(ppmw)	5,000
TDS in make-up water[4]	(ppmw)	531
Emission Rate - Total Cooling Tower		
TSP	lb/hr	1.63
	ton/yr	7.13
PM_{10}	lb/hr	1.63
	ton/yr	7.13
$PM_{2.5}$	lb/hr	1.63
	ton/yr	7.13

NOTES:

1. TSP Emission Rate = based on USEPA AP-42, Section 13.4 Wet Cooling Towers, Table 13.4-1, modified to design

   Rates calculated as follows:

   E lb/hr = Water Circulation Rate gpm * 60 min/hr * Drift % / 100 * 8.3453 lb/gal * TDS lb PM / 1,000,000 lb water

   E ton/yr = E lb/hr * 8,760 hr/yr * ton/2,000 lb
2. PM_{10} calculated from TSP, assumes 100% of TSP
3. $PM_{2.5}$ is assumed to be 100% of PM_{10}
4. Assuming a grey water TDS of 531ppm the cooling tower cycles of concentration will be between 4 and 8 respectively.

Table 35 Maintenance Vehicle Combustion Criteria Pollutant Emissions

Vehicle	Distance		Speed	CO	VOC	NOx	SOx	Exh. PM10	Fug. PM10	Diesel PM	Exh. PM2.5	Fug. PM2.5
	Miles/yr	Miles/day	Miles/hr	lb/hr								
Mirror Wash Truck	600	4.8	5	0.06	0.01	0.19	2.08E-04	0.008	0.74	0.008	0.007	0.16
Maintenance Vehicles	19200	76.8	20	0.23	0.02	0.03	0.000	0.001	2.95	0.000	0.001	0.63
Weed Abatement	68	40	5	0.06	0.01	0.19	2.08E-04	0.008	0.74	0.008	0.007	0.16
Soil Stabilizer Application	68	40	5	0.06	0.01	0.19	2.08E-04	0.008	0.74	0.008	0.007	0.16
Total				0.42	0.06	0.62	6.24E-04	0.024	5.17	0.023	0.022	1.10
Vehicle	Distance		Speed	CO	VOC	NOx	SOx	Exh. PM10	Fug. PM10	Diesel PM	Exh. PM2.5	Fug. PM2.5
	Miles/yr	Miles/day	Miles/hr	lb/day								
Mirror Wash Truck	600	4.8	5	0.06	0.01	0.19	2.00E-04	0.007	0.71	0.007	0.007	0.15
Maintenance Vehicles	19200	76.8	20	0.90	0.07	0.13	0.000	0.005	11.34	0.000	0.005	2.40
Weed Abatement	68	40	5	0.49	0.12	1.56	1.66E-03	0.062	5.91	0.062	0.057	1.25
Soil Stabilizer Application	68	40	5	0.49	0.12	1.56	1.66E-03	0.062	5.91	0.062	0.057	1.25
Total				1.93	0.32	3.43	3.53E-03	0.14	23.87	0.13	0.12	5.06
Vehicle	Distance		Speed	CO	VOC	NOx	SOx	Exh. PM10	Fug. PM10	Diesel PM	Exh. PM2.5	Fug. PM2.5
	Miles/yr	Miles/day	Miles/hr	tpy								
Mirror Wash Truck	600	4.8	5	0.0036	0.0009	0.0117	0.0000	0.0005	0.0443	0.0005	0.0004	0.0094
Maintenance Vehicles	19200	76.8	20	0.1166	0.0283	0.3734	0.0004	0.0148	1.4180	0.0148	0.0136	0.3006
Weed Abatement	68	40	5	0.0004	0.0001	0.0013	0.0000	0.0001	0.0050	0.0001	0.0000	0.0011
Soil Stabilizer Application	68	40	5	0.0004	0.0001	0.0013	0.0000	0.0001	0.0251	0.0001	0.0000	0.0053
Total				0.1210	0.0294	0.3877	0.0004	0.0153	1.4925	0.0153	0.0141	0.3164

Table 35 Maintenance Vehicle Combustion Criteria Pollutant Emissions

2009 Motor Vehicle Emission Factors											
Vehicle Use	Vehicle Type	Vehicle Class	Emission Factors								
			CO (lb/mi)	VOC (lb/mi)	NOx (lb/mi)	SOx (lb/mi)	Exh. PM10 (lb/mi)	Fug. PM10 (lb/mi)	Diesel PM (lb/mi)	Exh. PM2.5 (lb/mi)	Fug. PM2.5 (lb/mi)
Mirror Wash Truck	Water Trucks, Freightliner 4000 gallon	HHDT-DSL	1.21E-02	2.95E-03	3.89E-02	4.16E-05	1.54E-03	1.48E-01	1.54E-03	1.42E-03	3.13E-02
Weed Abatement	Water Trucks, Freightliner 4000 gallon	HHDT-DSL	1.21E-02	2.95E-03	3.89E-02	4.16E-05	1.54E-03	1.48E-01	1.54E-03	1.42E-03	3.13E-02
Soil Stabilizer Application	Water Trucks, Freightliner 4000 gallon	HHDT-DSL	1.21E-02	2.95E-03	3.89E-02	4.16E-05	1.54E-03	1.48E-01	1.54E-03	1.42E-03	3.13E-02
Maintenance Vehicles	On-Site 3/4 Ton Pick-Up, Ford	LDT2-CAT	1.17E-02	8.68E-04	1.71E-03	0.00E+00	6.35E-05	1.48E-01	0.00E+00	5.89E-05	3.13E-02

Note: The emission factors, except fugitive emissions from entrained road dust, were compiled by running the California Air Resources Board's EMFAC2007 (version 2.3) Burden Model and dividing calculated daily emissions by daily vehicle-miles-traveled.
Welding trucks, fuel/lube trucks and flatbed trucks are assumed to be Medium-Duty Catalyst Equipped Vehicles.
Pickup trucks and construction worker commuting vehicles are assumed to be Light-Duty Trucks 1.
All other vehicles are assumed to be heavy heavy-duty diesel vehicles.
All the emission factors account for the emissions from start, running and idling exhaust. In addition, the VOC emission factors take into account diurnal, hot soak, running and resting emissions, and fugitive PM10 and PM2.5 emission factors take into account tire and brake wear and entrained paved or unpaved road dust.

Emissions [pounds/day] = Emission factor [pounds/mile] x Vehicle miles traveled [miles/day]
Control Efficiency of Dust Suppressant = 80.00%

Table 36 Maximum Annual Emission Summary - All Sources

Source	NO_x	CO	VOC	PM_{10}	SO_2
	tpy	tpy	tpy	tpy	tpy
Gas Turbines	113.7	252.6	39.64	117.1	8.83
Auxiliary Boiler	0.28	0.92	0.13	0.186	0.015
HTF Heater	0.22	0.74	0.11	0.15	0.012
Emergency Generator	0.67	0.39	0.04	0.0220	0.0007
Fire Water Pump	0.03	0.026	0.001	0.0015	5.0E-05
Cooling Tower	n/a	n/a	n/a	7.1	n/a
Maintenace Vehicle	0.39	0.12	0.03	1.51	0.00
Totals	**115.3**	**254.8**	**40.0**	**126.1**	**8.9**

VOC	**1.3**	**39.95**	**ERCs =**	**51.94**	
NOx	**2.08**	**115.28**	**ERCs =**	**239.78**	
			Total =	**291.71**	

PHPP Operation Toxic Air Contaminant Emissions

Table 37 Toxic Air Contaminant Emission Estimates - Operational Turbines

Assumptions:	PB-11 23 F/92%RH	
	2 Turbines + Duct Burners (max solar)	
Operating Schedule	8760	hours/year
Gas Heat Content	1024	MMBtu/MMscf
CTG Heat Input:	3,718	MMBtu/Hr (HHV Total)
DB Heat Input:	244	MMBtu/Hr (HHV Total)
Total Heat Input:	3,963	MMBtu/Hr (Total)

Natural Gas Fuel Rate (each)			
Hourly		Annual	
1.82	MMscf/hour	15,905	MMscf/year
0.12	MMscf/hour	1,045	MMscf/year
1.93	MMscf/hour	16,950	MMscf/year

Substance	CAS Number	Emission Factor [1] (lbs/MMBtu)	Emission Factor (lbs/MMscf)	Gas Input (MMscf/hr)	Emissions (each)			Emissions (total)		
					(lbs/hr)	(lbs/yr)	(tons/yr)	(lbs/hr)	(lbs/yr)	(tons/yr)
Acetaldehyde	75070	4.00E-05	4.10E-02	1.93	7.93E-02	6.94E+02	3.47E-01	1.59E-01	1.39E+03	6.94E-01
Acrolein	107028	6.40E-06	6.55E-03	1.93	1.27E-02	1.11E+02	5.55E-02	2.54E-02	2.22E+02	1.11E-01
Ammonia	7664417	6.92E-03	7.09E+00	1.93	1.37E+01	1.20E+05	6.01E+01	2.74E+01	2.40E+05	1.20E+02
Benzene	71432	1.20E-05	1.23E-02	1.93	2.38E-02	2.08E+02	1.04E-01	4.76E-02	4.17E+02	2.08E-01
1,3-Butadiene	106990	4.30E-07	4.40E-04	1.93	8.52E-04	7.46E+00	3.73E-03	1.70E-03	1.49E+01	7.46E-03
Ethylbenzene	100414	3.20E-05	3.28E-02	1.93	6.34E-02	5.55E+02	2.78E-01	1.27E-01	1.11E+03	5.55E-01
Formaldehyde [2]	50000	7.10E-05	7.27E-02	1.93	1.41E-01	1.23E+03	6.16E-01	2.81E-01	2.46E+03	1.23E+00
Naphthalene	91203	1.30E-06	1.33E-03	1.93	2.58E-03	2.26E+01	1.13E-02	5.15E-03	4.51E+01	2.26E-02
Benzo(a)anthracene [3]	56553		7.75E-05	1.93	1.50E-04	1.31E+00	6.57E-04	3.00E-04	2.63E+00	1.31E-03
Benzo(a)pyrene [3]	50328		4.76E-05	1.93	9.22E-05	8.08E-01	4.04E-04	1.84E-04	1.62E+00	8.08E-04
Benzo(b)fluoranthene [3]	205992		3.87E-05	1.93	7.49E-05	6.57E-01	3.28E-04	1.50E-04	1.31E+00	6.57E-04
Benzo(k)fluoranthene [3]	207089		3.77E-05	1.93	7.30E-05	6.39E-01	3.20E-04	1.46E-04	1.28E+00	6.39E-04
Chrysene [3]	218019		8.64E-05	1.93	1.67E-04	1.46E+00	7.32E-04	3.34E-04	2.93E+00	1.46E-03
Dibenz(a,h)anthracene [3]	53703		8.06E-05	1.93	1.56E-04	1.37E+00	6.83E-04	3.12E-04	2.73E+00	1.37E-03
Indeno(1,2,3-cd)pyrene [3]	193395		8.06E-05	1.93	1.56E-04	1.37E+00	6.83E-04	3.12E-04	2.73E+00	1.37E-03
Propylene Oxide	75569	2.90E-05	2.97E-02	1.93	5.75E-02	5.03E+02	2.52E-01	1.15E-01	1.01E+03	5.03E-01
Toluene	108883	1.30E-04	1.33E-01	1.93	2.58E-01	2.26E+03	1.13E+00	5.15E-01	4.51E+03	2.26E+00
Xylene (Total)	1330207	6.40E-05	6.55E-02	1.93	1.27E-01	1.11E+03	5.55E-01	2.54E-01	2.22E+03	1.11E+00

[1] Emission factors are from AP-42 Section, Table 3.1-3 Emission factors for HAP's from natural gas-fired stationary gas turbines.

[2] Formaldehyde AP-42 emission factor adjusts for 90% emissions control usinig carbon monoxide catalyst.

[3] Unspeciated PAH (polycyclic aromatic hydrocarbon) emissions based on AP-42 composite emission factor of 2.20E-06 lbs/MMBtu. PAH speciation profile derived from California Air Toxics Emission Factors (CATEF) database for natural gas-fired turbine engi

Table 38 Toxic Air Contaminant Emission Estimates - Natural Gas Fired Auxiliary Boiler

Input:	100.00	MMBtu/Hr	
Maximum Annual Hours of Operation:	500	hours/year	
Stack Height:	30	feet	assumption
Stack Diameter	1.73	feet	
Stack Flow Rate:	9393	acfm	
Stack Gas Exit Temperature:	300	F	
Stack Gas Exit Velocity:	66.60	ft/s	typical
Heat Value:	1024	Btu/scf	

Substance	CAS Number	Emission Factor [1] (lbs/MMscf)	Max Hourly Emissions (lb/hr)	Annual Emissions	
				(lb/yr)	(ton/yr)
Benzene	71432	0.0058	5.66E-04	0.28320	1.42E-04
Formaldehyde	50000	0.0123	1.20E-03	0.60059	3.00E-04
PAH's (excluding naphthalene) [2]	1151	0.0004	3.91E-05	0.01953	9.77E-06
Naphthalene	91203	0.0003	2.93E-05	0.01465	7.32E-06
Acetaldehyde	75070	0.0031	3.03E-04	0.15137	7.57E-05
Acrolein	107028	0.0027	2.64E-04	0.13184	6.59E-05
Propylene	115071	0.53	5.18E-02	25.87891	1.29E-02
Toluene	108883	0.0265	2.59E-03	1.29395	6.47E-04
Xylenes	1330207	0.0197	1.92E-03	0.96191	4.81E-04
Ethyl benzene	100414	0.0069	6.74E-04	0.33691	1.68E-04
Hexane	110543	0.0046	4.49E-04	0.22461	1.12E-04

(1) Emission factors based on Ventura County Air Pollution Control District, AB2588 Combustion Emission Factors for Natural Gas Fired External Combustion Equipment 10-100 MMBtu/Hr, May 2001

(2) Unspeciated PAH (polycyclic aromatic hydrocarbon) emissions based on composite emission factor. Benzo(a)pyrene or B(a)P was modeled as the surrogate carcinogen for all PAH emissions, as indicated by the CAS number shown. Since the (B(a)P) surrogate

Table 39 Toxic Air Contaminant Emission Estimates - Natural Gas Fired HTF Heater

Input:	40.00	MMBtu/Hr
Maximum Annual Hours of Operation:	1,000	hours/year
Heat Value:	1024	Btu/scf

Substance	CAS Number	Emission Factor [1] (lbs/MMscf)	Max Hourly Emissions (lb/hr)	Annual Emissions	
				(lb/yr)	(ton/yr)
Benzene	71432	0.0058	2.27E-04	2.27E-01	1.13E-04
Formaldehyde	50000	0.0123	4.80E-04	4.80E-01	2.40E-04
PAH's (excluding naphthalene) [2]	1151	0.0004	1.56E-05	1.56E-02	7.81E-06
Naphthalene	91203	0.0003	1.17E-05	1.17E-02	5.86E-06
Acetaldehyde	75070	0.0031	1.21E-04	1.21E-01	6.05E-05
Acrolein	107028	0.0027	1.05E-04	1.05E-01	5.27E-05
Propylene	115071	0.53	2.07E-02	2.07E+01	1.04E-02
Toluene	108883	0.0265	1.04E-03	1.04E+00	5.18E-04
Xylenes	1330207	0.0197	7.70E-04	7.70E-01	3.85E-04
Ethyl benzene	100414	0.0069	2.70E-04	2.70E-01	1.35E-04
Hexane	110543	0.0046	1.80E-04	1.80E-01	8.98E-05

(1) Emission factors based on Ventura County Air Pollution Control District, AB2588 Combustion Emission Factors for Natural Gas Fired External Combustion Equipment 10-100 MMBtu/Hr, May 2001

(2) Unspeciated PAH (polycyclic aromatic hydrocarbon) emissions based on composite emission factor. Benzo(a)pyrene or B(a)P was modeled as the surrogate carcinogen for all PAH emissions, as indicated by the CAS number shown. Since the (B(a)P) surrogate

Table 40 Toxic Air Contaminant Emission Estimates - Cooling Towers

Cooling Tower Recirculation Rate:	130,000 gpm
Drift Eliminator Efficiency:	0.00050%
Drift:	3.3 lbs/hr (E lb/hr = Water Circulation Rate gpm * 60 min/hr * Drift % / 100 * 8.3453 lb/gal)
Cooling Tower Cylces of Concentration:	9.4
Cooling Tower Makeup Rate	4,714 gpm
Emission Rate for Non-Volatile Compounds:	ER (lb/hr) = Recirculation rate (gal/min) * 60 min/hr * 3.785 liters/gal * HAP conc (ug/liter) * 1lb / 453.6 g * 1g / 10^6 ug * Drift Fraction * 4000/973 (5 conc cycles)
Emission Rate for Volatile Compounds:	ER (lb/hr) = Makeup rate (gal/min) * 60 min/hr * 3.785 liters/gal * HAP conc (ug/liter) * 1lb / 453.6 g * 1g / 10^6 ug * Volatilization Fraction (assumed to be one)

Substance	CAS Number	Reported Discharge [1]		Emissions (per unit)		Emissions (total)	
		Average Dischange (ug/l)	Maximum Discharge (ug/l)	Max Hourly (lbs/hr/unit)	Annual (lbs/yr/unit)	Max Hourly (lbs/hr)	Annual (lbs/yr)
Emission Rate for Non-Volatile Compounds:							
arsenic	7440382	6.98E-03	2.20E-02	6.741E-09	1.87E-05	6.74E-08	1.87E-04
barium	7440393	7.98E-02	1.40E-01	4.290E-08	2.14E-04	4.29E-07	2.14E-03
beryllium	7440417	8.03E-03	8.03E-03	2.462E-09	2.16E-05	2.46E-08	2.16E-04
copper	7440508	2.45E-02	4.90E-02	1.502E-08	6.58E-05	1.50E-07	6.58E-04
cyanide compounds	1073	4.00E-05	6.00E-05	1.839E-11	1.07E-07	1.84E-10	1.07E-06
selenium	7782492	1.16E-02	2.20E-02	6.741E-09	3.13E-05	6.74E-08	3.13E-04
zinc	7440666	8.54E-03	2.50E-02	7.661E-09	2.29E-05	7.66E-08	2.29E-04
Vanadium (fume or dust)	7440622	2.21E-02	4.20E-02	1.287E-08	5.94E-05	1.29E-07	5.94E-04
Emission Rate for Volatile Compounds:							
p-Dichlorobenzene	106467	8.34E-04	2.50E-03	5.900E-07	1.73E-03	5.90E-06	1.73E-02
Chloroform	67663	2.04E-03	1.40E-02	1.386E-03	1.21E+01	1.39E-02	1.21E+02
Perchloroethylene {tetrachloroethene}	127184	1.10E-05	1.10E-05	2.596E-09	2.27E-05	2.60E-08	2.27E-04
Trichloroethylene	79016	5.00E-07	5.00E-07	1.180E-10	1.03E-06	1.18E-09	1.03E-05
Toluene	108883	7.78E-04	7.78E-04	1.836E-07	1.61E-03	1.84E-06	1.61E-02
Xylenes (mixed xylenes)	1330207	7.60E-04	7.60E-04	1.794E-07	1.57E-03	1.79E-06	1.57E-02
Phenol	108952	4.00E-05	4.00E-05	9.440E-09	8.27E-05	9.44E-08	8.27E-04

Chloroform Emissions due to Biocide Usage:

Item	Value
Emission Factor (lb chloroform/lb chlorine added)[a]	0.0034
Sodium Hypochlorite Solution Use (gal/month)	2,500
Sodium Hypochlorite Density (lbs/gal)	10
Sodium Hypochlorite Solution Concentration (%)	12.5%
lb Chlorine Equivalent/lb Sodium Hypochlorite	0.95
Chloroform Emissions (lbs/yr)	121.1
Chloroform Emissions (lbs/hr)	1.38E-02

[a] From: Michael B. Rogozen, Harvey E. Ritch, Michael A. Guttman, Daniel Grosjean and Edwin L. Williams II, Sources and Concentrations of Chloroform Emissions in the South Coast Air Basin, Final Report, prepared by Science Applications International Corporation, Manhattan Beach, CA, for the California Air Resources Board, Sacramento, CA, April 8, 1988. Downloaded from http://www.arb.ca.gov/research/apr/past/statnrv.htm#Toxic%20Air%20Contaminants.

[1] Based on water quality data obtained from the Victor Valley Water Reclamation Authority for 2004 and 2005.

[2] Ten cooling tower stacks (units) modeled.

Table 41 Toxic Air Contaminant Emission Estimates - Summary of All Operational Sources

Pollutant	CAS Number	Emissions (total)		
		(lbs/hr)	(lbs/yr)	(tons/yr)
1,3-Butadiene	106990	1.70E-03	1.49E+01	7.46E-03
Acetaldehyde	75070	1.59E-01	1.39E+03	6.94E-01
Acrolein	107028	2.57E-02	2.22E+02	1.11E-01
Ammonia	7664417	2.74E+01	2.40E+05	1.20E+02
Arsenic	7440382	6.74E-08	1.87E-04	9.36E-08
Barium	7440393	4.29E-07	2.14E-03	1.07E-06
Benzene	71432	4.83E-02	4.17E+02	2.09E-01
Benzo(a)anthracene	56553	3.00E-04	2.63E+00	1.31E-03
Benzo(a)pyrene	50328	1.84E-04	1.62E+00	8.08E-04
Benzo(b)fluoranthene	205992	1.50E-04	1.31E+00	6.57E-04
Benzo(k)fluoranthene	207089	1.46E-04	1.28E+00	6.39E-04
Beryllium	7440417	2.46E-08	2.16E-04	1.08E-07
Chloroform	67663	1.39E-02	1.21E+02	6.06E-02
Chrysene	218019	3.34E-04	2.93E+00	1.46E-03
Copper	7440508	1.50E-07	6.58E-04	3.29E-07
Cyanide compounds	1073	1.84E-10	1.07E-06	5.37E-10
Dibenz(a,h)anthracene	53703	3.12E-04	2.73E+00	1.37E-03
Diesel Particulate Matter	9910	9.41E-01	4.71E+01	2.35E-02
Ethylbenzene	100414	1.28E-01	1.11E+03	5.56E-01
Formaldehyde	50000	2.83E-01	2.47E+03	1.23E+00
Hexane	110543	6.29E-04	4.04E-01	2.02E-04
Indeno(1,2,3-cd)pyrene	193395	3.12E-04	2.73E+00	1.37E-03
Naphthalene	91203	5.19E-03	4.52E+01	2.26E-02
p-Dichlorobenzene	106467	5.90E-06	1.73E-02	8.63E-06
PAH's (excluding naphthalene)	1151	5.47E-05	3.52E-02	1.76E-05
Perchloroethylene {tetrachloroethene}	127184	2.60E-08	2.27E-04	1.14E-07
Phenol	108952	9.44E-08	8.27E-04	4.13E-07
Propylene	115071	7.25E-02	4.66E+01	2.33E-02
Propylene Oxide	75569	1.15E-01	1.01E+03	5.03E-01
Selenium	7782492	6.74E-08	3.13E-04	1.56E-07
Toluene	108883	5.19E-01	4.52E+03	2.26E+00
Trichloroethylene	79016	1.18E-09	1.03E-05	5.17E-09
Vanadium	7440622	1.29E-07	5.94E-04	2.97E-07
Xylenes (mixed xylenes)	1330207	2.56E-01	2.22E+03	1.11E+00
Zinc	7440666	7.66E-08	2.29E-04	1.15E-07
Grand Total		**30.0**	**253,852.3**	**126.9**

PHPP Operation Greenhouse Gas Emissions

Table 42 Greenhouse Gases Emission Estimates - Summary of All Sources

Source	Annual Usage, MMBTU/year	Annual Usage, gallons/year	CO_2 Emission Factor, kg CO_2/MMBTU (a)	CH_4 Emission Factor, kg CH_4/MMBTU (b)	N_2O Emission Factor, kg N_2O/MMBTU (b)	CH_4 Emission Factor, kg CH_4/gallon (b)	N_2O Emission Factor, kg N_2O/gallon (b)	CO_2 Emissions, metric tons/year	CH_4 Emissions, metric tons/year	N_2O Emissions, metric tons/year	SF_6 Emissions, metric tons/year	CO_2 Equivalents, metric tons/year
Turbine 1	17,356,845	--	53.06	0.0059	0.0001	--	--	920,954	102	1.74		923,643
Turbine 2	17,356,845	--	53.06	0.0059	0.0001	--	--	920,954	102	1.74		923,643
Auxiliary Boiler	50,000	--	53.06	0.0059	0.0001	--	--	2,653	0.30	5.00E-03		2,661
HTF Heater	40,000	--	53.06	0.0059	0.0001	--	--	2,122	0.24	4.00E-03		2,129
Emergency Generator	341	2,633	73.15	--	--	0.0003	0.0001	25	2.63E-04	2.63E-04		25
Fire Pump	50	390	73.15	--	--	0.0003	0.0001	4	3.90E-05	3.90E-05		4
SF_6 in circuit breakers											3.63E-04	8.67
Vehicles								10	1.00E-03	1.19E-03		10.33
TOTAL								1,846,722	205	3.48	3.63E-04	1,852,123

Notes:
(a) Table C.6, California Climate Action Registry General Reporting Protocol, Version 3.0, April 2008
(b) Table C.7, Industrial Sector, California Climate Action Registry General Reporting Protocol, Version 3.0, April 2008
Diesel fuel heat content, BTUs/gallon 129,500
Global warming potential of CH_4, Table C.1, California Climate Action Registry General Reporting Protocol, Version 3.0, April 2008 21
Global warming potential of N_2O, Table C.1, California Climate Action Registry General Reporting Protocol, Version 3.0, April 2008 310
Global warming potential of SF_6, Table C.1, California Climate Action Registry General Reporting Protocol, Version 3.0, April 2008 23900

Table 43 GHG Emissions from On-Site Vehicular Traffic - Operation

Activity	Amount	Units	Reference
Heavy-duty truck trips	136	mi/yr	
Light-duty vehicle trips	19,200	mi/yr	
Water rinse truck	600	mi/yr	
Heavy heavy -duty truck gas mileage	5.37	mpg	EMFAC2007 V2.3 Nov 1 2006, KCAPCD
Light-duty vehicle gas mileage	19.1	mpg	BURDEN 2009

Activity	Amount	Units	Amount	Units	Emission factor category	CO_2 EF, kg/gal	CH_4 EF, g/mi	N_2O EF, g/mi	CO2 emissions, metric tons/yr	CH4 emissions, metric tons/yr	N2O emissions, metric tons/yr	CO2e emissions, metric tons/yr
Heavy-duty truck trips	136	miles/yr	25	gal/yr	HDT diesel 1996+ model year	9.96	0.06	0.05	0.25	0.0000	0.0000	0.25
Light-duty vehicle trips	19,200	miles/yr	1,003	gal/yr	LDT gasoline 2000+ model year	8.55	0.05	0.06	8.6	0.0010	0.0012	9.0
Water rinse truck	600	miles/yr	112	gal/yr	HDT diesel 1996+ model year	9.96	0.06	0.05	1.11	0.0000	0.0000	1.12
Total	19,936	miles/yr	1,141	gal/yr					9.95	0.00	0.00	10.33

$CO_2e = CO_2$ emisions + 21 x CH_4 emissions + 310 x N_2O emissions

APPENDIX G.4

Class II Area Dispersion Modeling Protocol

APPENDIX G.4

Class II Area Dispersion Modeling Protocol

Prepared for:
City of Palmdale, California

Class II Area Dispersion Modeling Protocol for the Proposed Palmdale Hybrid Power Project

ENSR Corporation
July 2008
Document No.: 10855-002-040C2MP

ENSR | AECOM

Prepared for:
City of Palmdale, California

Class II Area Dispersion Modeling Protocol for the Proposed Palmdale Hybrid Power Project

Prepared By: Richard P. Hamel

Reviewed By: Brian Stormwind

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July 2008
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1.0 Introduction

The City of Palmdale, California, is proposing to build a hybrid combined-cycle / solar-thermal power plant in the City of Palmdale to the northwest of the Air Force Plant 42 / Palmdale Regional Airport. The Project will feature a 2 on 1 combined-cycle configuration with two GE 7FA gas turbines and one steam turbine producing a nominal electrical output of 570 megawatts (MW) along with a 250-acre solar thermal collection field, capable of producing 50 MW. The hybrid power plant will be owned by the City of Palmdale and the development managed by Inland Energy and will be known as the Palmdale Hybrid Power Project (PHPP or Project). The combustion turbine trains will include heat recovery steam generators and will be fueled with natural gas only. In addition to the combustion turbines, the facility will contain ancillary combustion equipment including a natural gas-fired auxiliary boiler, a natural gas-fired heat transfer fluid (HTF) heater, a diesel-fired emergency generator, and a diesel-fired fire water pump engine. The facility will also include a wet mechanical draft cooling tower.

The proposed facility will be located in an area that is designated federal non-attainment for respirable particulate matter (PM10) and ozone (O_3), and attainment or unclassified for sulfur dioxide (SO_2), nitrogen dioxide (NO_2), carbon monoxide (CO), and fine particulate matter (PM2.5). Based on an estimate of preliminary facility air emissions, the Project will be a major source with respect to New Source Review (NSR) regulations, will trigger Prevention Significant Deterioration (PSD) review for NO_2, CO, PM10, and PM2.5 and will be subject to non-attainment new source review (NANSR) for PM10 and ozone precursors NO_X and volatile organic compounds (VOC). The facility will be a minor source of SOx, lead, and other PSD pollutants. Therefore, as required by the PSD regulations, Inland Energy will conduct a Best Available Control Technology (BACT) evaluation to determine the best level of control for CO, taking into account the environmental, economic and energy consumption impacts. Per NANSR, a Lowest Achievable Emission Rate (LAER) review for NO_X (as an ozone precursor) and PM10/PM2.5 will be conducted. The U.S. Environmental Protection Agency (EPA) administers the PSD program in this area and the Antelope Valley Air Quality Management District (AVAQMD) manages the local NANSR program.

Air quality modeling will be performed in accordance with EPA modeling guidelines (EPA, 2005) for all sources and will be conducted with the EPA's AERMOD dispersion model to demonstrate compliance with the National Ambient Air Quality Standards (NAAQS), California Ambient Air Quality Standards (CAAQS) and Prevention Significant Deterioration (PSD) increments in the local (Class II) area.

Dispersion modeling will also be conducted to assess potential impacts at Class I Areas in accordance with PSD modeling requirements. The details of the proposed modeling approach for Class I Areas is documented in a separate modeling protocol. This Class II Area modeling protocol also does not address the procedures or methodology that will be used in evaluating potential health risks from air toxics emissions. The proposed approach for conducting a health risk assessment (HRA) will be provided in the Application for Certification (AFC).

2.0 Dispersion Modeling Analysis

This section presents the modeling analysis that will be conducted to assess ambient air quality impacts which will ultimately demonstrate compliance with applicable State and Federal ambient air quality standards. The analyses will be conducted in accordance with the EPA Guideline on Air Quality Models (GAQM; as incorporated in Appendix W of 40 CFR Part 51 Revised November 9, 2005). The revised version of GAQM adopts AERMOD as a preferred general purpose dispersion model for both flat and complex terrain.

2.1 Model Selection Criteria

The suitability of an air quality dispersion model for a particular application is dependent upon several factors. For this study, the following selection criteria have been evaluated:

- Stack heights relative to nearby buildings/structures;
- Dispersion environment;
- Local terrain; and
- Availability of representative meteorological data.

2.1.1 Good Engineering Practice Stack Height Analysis

The EPA modeling guidelines require the evaluation of the potential for physical structures to affect the dispersion of emissions from stack sources. The exhaust from stacks that are located within specified distances of buildings, and whose physical heights are below specified levels, may be subject to "aerodynamic building downwash" under certain meteorological conditions. If this is the case, a model capable of simulating this effect must be employed.

The analysis used to evaluate the potential for building downwash is referred to as a Good Engineering Practice (GEP) stack height analysis. Stacks with heights below physical GEP are considered to be subject to building downwash. In the absence of structural effects, EPA has established a default GEP height of 213 feet (65 meters). Any portion of a stack above the maximum of the physical or default GEP height cannot be used in the dispersion modeling analysis for purposes of comparison to ambient impact criteria.

A GEP stack height analysis will be performed for the proposed ancillary equipment stacks in accordance with EPA's GEP stack height guidelines (EPA, 1985). Per the guidelines, the physical GEP height, H_{GEP}, is determined from the dimensions of all buildings which are within the region of influence using the following equation:

$$H_{GEP} = H_B + 1.5L$$

Where: H_B = height of the structure within 5L of the stack which maximizes H_{GEP}, and

L = lesser dimension (height or projected width) of the structure.

For a squat structure, i.e., height less than projected width, the formula reduces to:

$$H_{GEP} = 2.5H_B$$

In the absence of influencing structures, a default GEP stack height is credited up to 213 feet (65 m).

The GEP stack height for all proposed stacks will be determined using the EPA Building Profile Input Program (BPIP) that performs the GEP calculation for a multi-building complex on a stack-by-stack basis.

The stack heights of the ancillary equipment have not been determined at this time but it is anticipated that these stacks will be less than their respective GEP formula heights and, therefore, subject to building downwash. Therefore, building dimensions developed by BPIP for all stacks will be input to the dispersion model as necessary.

The results of the GEP analysis will be documented in the AFC and the BPIP input and output files will be provided in the modeling archive submitted with the AFC (Appendix G.6).

2.1.2 Dispersion Environment

The application of the dispersion model requires characterization of the local dispersion environment (within three kilometers [km]) as either urban or rural, based on an EPA-recommended procedure (Auer, 1978) that characterizes an area by prevalent land use. This land use approach classifies an area according to 12 land use types. In this scheme, areas of industrial, commercial, and compact residential land use are designated urban. According to the GAQM, if more than 50 percent of an area within a three-km radius of the proposed facility is classified as rural, then rural dispersion assumptions are to be used in the dispersion modeling analysis. Conversely, if more than 50 percent of the area is urban, urban dispersion is assumed.

As shown in Figure 2-1, the land-use within three km of the proposed facility is characterized as rural based on the EPA-recommended procedure. AERMOD does not require any specification for rural applications since rural dispersion is the default dispersion mode.

2.1.3 Local Terrain

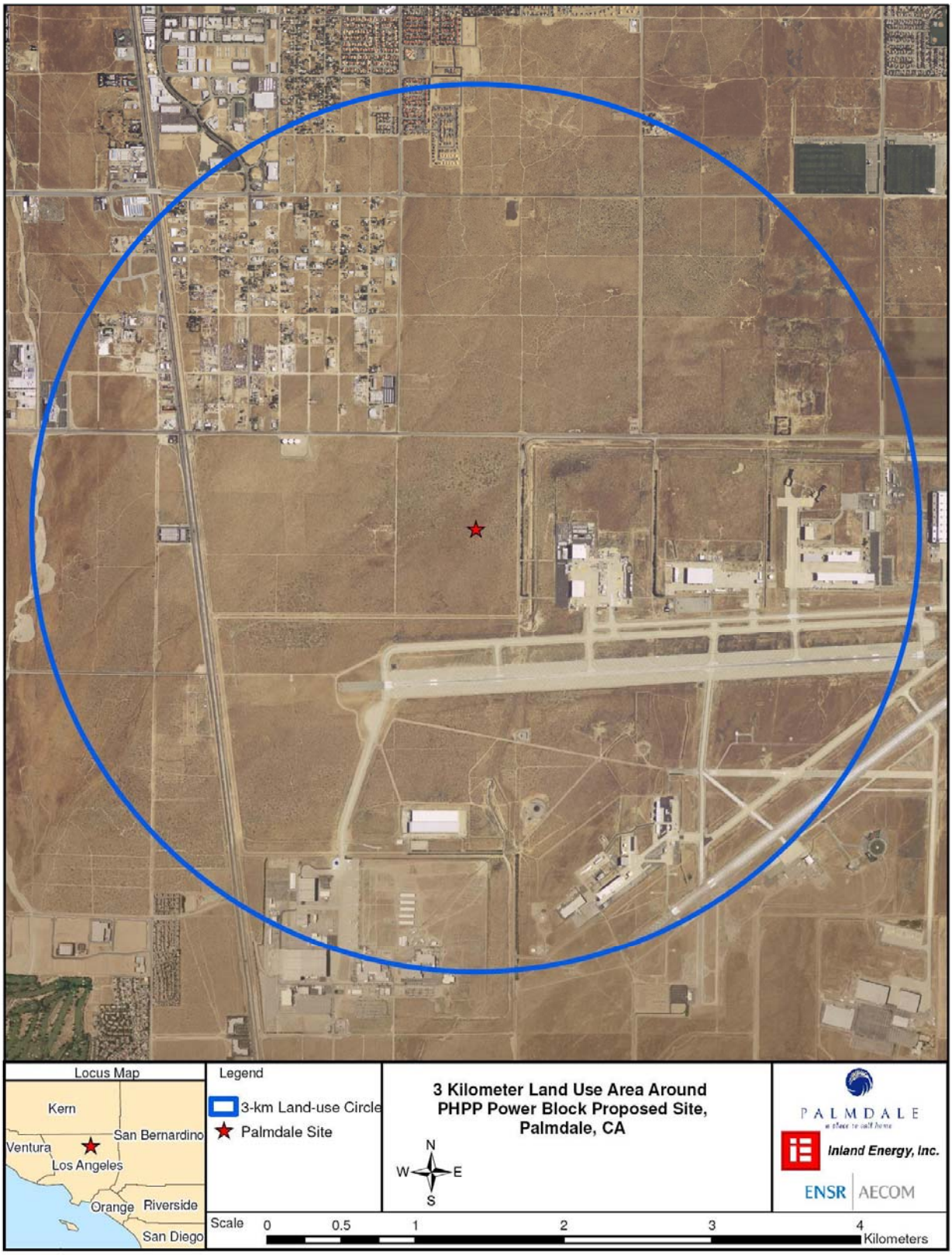
The EPA modeling guidelines require that the differences in terrain elevations between the stack base and model receptor locations be considered in the modeling analyses. For dispersion modeling purposes, there are three types of terrain:

- Simple terrain – locations where the terrain elevation is at or below the exhaust height of the stacks to be modeled;
- Intermediate terrain – locations where the terrain is between the top of the stack and the modeled exhaust “plume” centerline (this varies as a function of plume rise, which in turn, varies as a function of meteorological condition); and
- Complex terrain – locations where the terrain is above the plume centerline.

Prior to the introduction of AERMOD, these terrain types had to be modeled in different ways that were not necessarily consistent. One advantage of using AERMOD is that there is a seamless and consistent approach to all terrain types.

The terrain immediately surrounding the proposed site location is primarily flat, desert scrubland. The terrain to the south and west of the Project site is mountainous with elevations exceeding 4,500 feet (compared to the Project base elevation of 2,513 feet). The terrain gradually slopes upward to the south and west for the first 10 kilometers away from the Project then rapidly rises to elevations in the 3,000-4,000 foot range.

Figure 2-1 Land-Use and Topography in the Vicinity of the Proposed PHPP Power Block



2.1.4 Representative Meteorological Data

The Project modeling will use a three-year sequential hourly meteorological data set, consistent with Appendix B of the California Energy Commission's Rules of Practice and Procedure & Power Plant Site Certification Regulations (2000). Three years (2002-2004) of surface meteorological data are available from the Automatic Surface Observing System (ASOS) tower at nearby Palmdale Regional Airport and are proposed for this application. Per discussion with Brett Banks of the Antelope Valley Air Quality Management District (AVAQMD), this was the preferred option if the data were available. A review of the completeness of the data at Palmdale Regional Airport showed that the data capture was slightly below the 90% completeness per quarter for all required data types recommended in the Meteorological Monitoring Guidance for Regulatory Modeling Applications (EPA, 2000) for the following quarters:

2002: Q1 Wind direction 86.5% complete
2002: Q2 Wind direction 89.1% complete
2003: Q3 Wind direction 83.3% complete

All other quarterly values exceeded the recommended 90% threshold. Two other sources of meteorological data were considered as alternatives: The Lancaster Division Street Met Tower in Lancaster, CA, and William J. Fox Field north of Lancaster. A data completeness study of these two locations revealed that the data capture at each was lower than that of Palmdale Regional Airport. Palmdale Regional Airport is therefore the best option for this analysis because of a) superior data capture, b) it's close proximity to the Project site (the met tower is less than 2 miles from the proposed turbine stack locations) c) the similarity in surface characteristics between the airport and the Project site, and d) AVAQMD's preference to use the Palmdale Regional Airport Data.

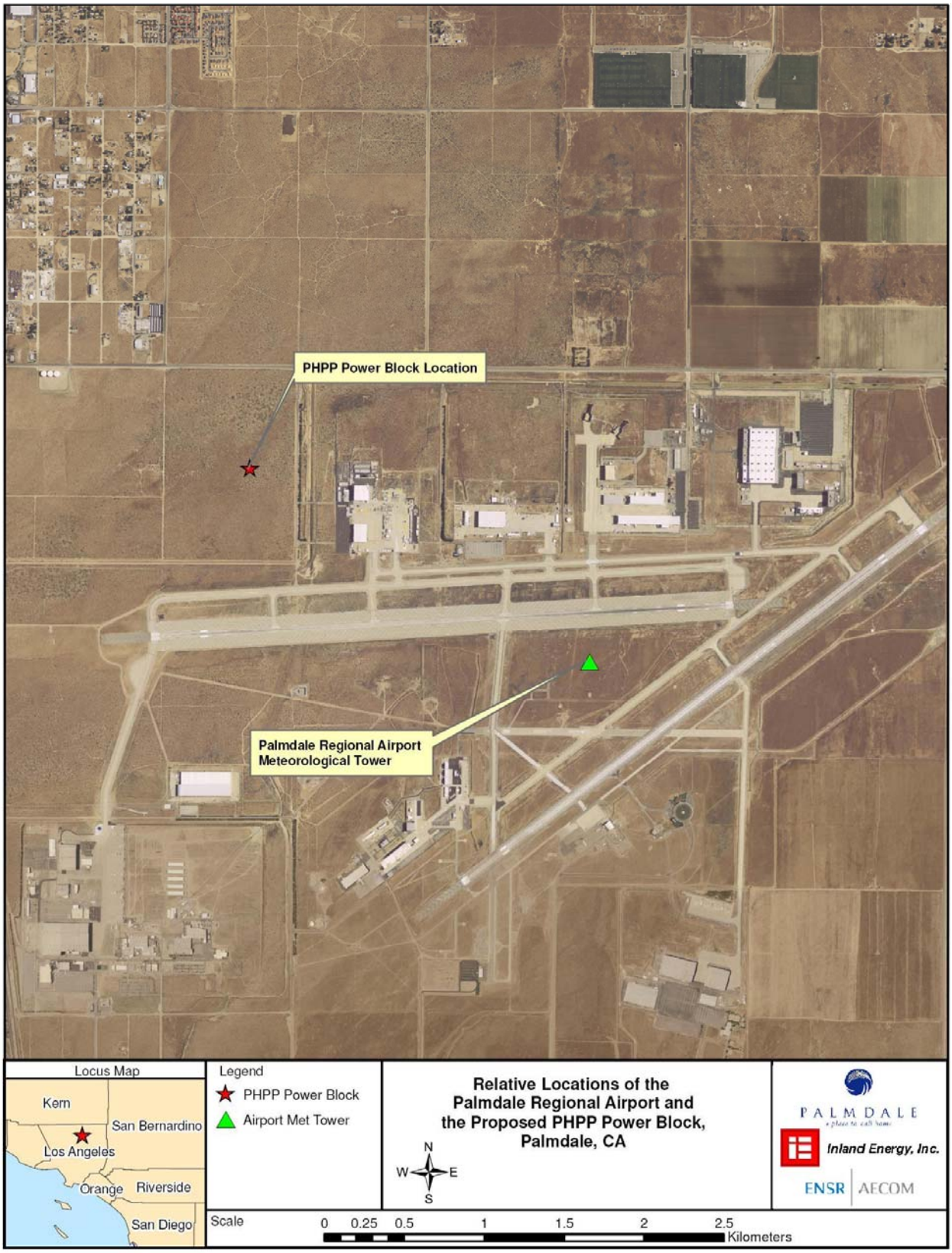
The location of the Palmdale Regional Airport relative to the proposed Project location is shown in Figure 2-2. The anemometer height at Palmdale Regional Airport is 10 meters. Concurrent upper air data from Mercury Desert Rock Airport in Mercury, Nevada will also be used as required for the dispersion modeling. Use of 2005, 2006, and 2007 data is not proposed because of the poor data recovery of the upper air data at Mercury Desert Rock Airport during these years. Surface data will be acquired from Trinity Consultants, Inc., filled per the Procedures for Substituting Values for Missing NWS Meteorological Data for Use in Regulatory Air Quality Models memo by Atkinson and Lee (EPA, 1992). The upper air data will be downloaded from the NCDC RAOB Database website (http://raob.fsl.noaa.gov/).

2.2 Dispersion Model Selection and Application

The EPA GAQM prescribes a set of approved models for regulatory applications for a wide range of source types and dispersion environments. Based on a review of the factors discussed above, the AERMOD model is proposed to assess air quality impacts for the Project. AERMOD is a state-of-the-art dispersion model that incorporates modeling improvements especially for applications involving building downwash and complex terrain. AERMOD has become the recommended model by the EPA for general use to replace the Industrial Source Complex - Short Term 3 model. The latest version of AERMOD (07026), the AERMET (06341) meteorological preprocessor, and the AERMAP (06341) terrain preprocessor will be used in this application.

AERMOD will be applied with the three years of meteorological data discussed above for all receptors (simple and complex terrain) in the modeling domain (see Section 2.3.1) to assess air quality impacts from the Project. AERMOD will be applied to assess the maximum criteria pollutant concentrations including 1-hour and annual NO_2, 24-hour and annual PM10/PM2.5, 1-hour and 8-hour CO, and 1-hour, 3-hour, 24-hour and annual SO_2. The proposed meteorological data processing with AERMET and development of the receptor grid with AERMAP are discussed below.

Figure 2-2 Location of the Palmdale Regional Airport Met Tower



2.2.1 Terrain and Receptor Data Processing with AERMAP

A comprehensive Cartesian receptor grid extending to 20 km from the center of the power block will be used in the AERMOD modeling to assess maximum ground-level pollutant concentrations. Based on preliminary modeling, the 20-km receptor grid will be sufficient to resolve the maximum impacts and any significant impact area(s).

The Cartesian receptor grid will consist of the following receptor spacing:

- Fenceline to 3,000 meters at 100 meter increments
- Beyond 3,000 meters to 5,000 meters at 200 meter increments
- Beyond 5 kilometers to 10 kilometers at 500 meter increments
- Beyond 10 kilometers to 20 kilometers meters at 1,000 meter increments

Discrete receptors will be placed approximately every 50 meters along the Project fence line for increased resolution of impacts along this boundary.

The AERMAP receptor locations and the proposed AERMAP domain are shown in Figure 2-3 (near-field portion of the receptor grid) and Figure 2-4 (far-field receptors and AERMAP domain). An additional five km was added to the AERMAP domain beyond the 20 km receptor grid shown in Figure 2-4. This additional area is included in order to provide sufficient resolution of the hill height scale required for each receptor. Terrain elevations from Digital Elevation Model (DEM) data acquired from United States Geological Service (USGS) will be processed with AERMAP to develop the receptor terrain elevations and corresponding hill height scale required by AERMOD. All of the DEM files will be from Universal Transverse Mercator (UTM) Zone 11 and referenced to North American Datum (NAD) 27 (Note that the receptors shown in Figures 2-3 and 2-4 are referenced to NAD27). The DEM files will also be included in the modeling archive that will be submitted along with the AFC.

Figure 2-3 Near Field Cartesian Receptor Field Used in the PHPP AERMOD Analysis

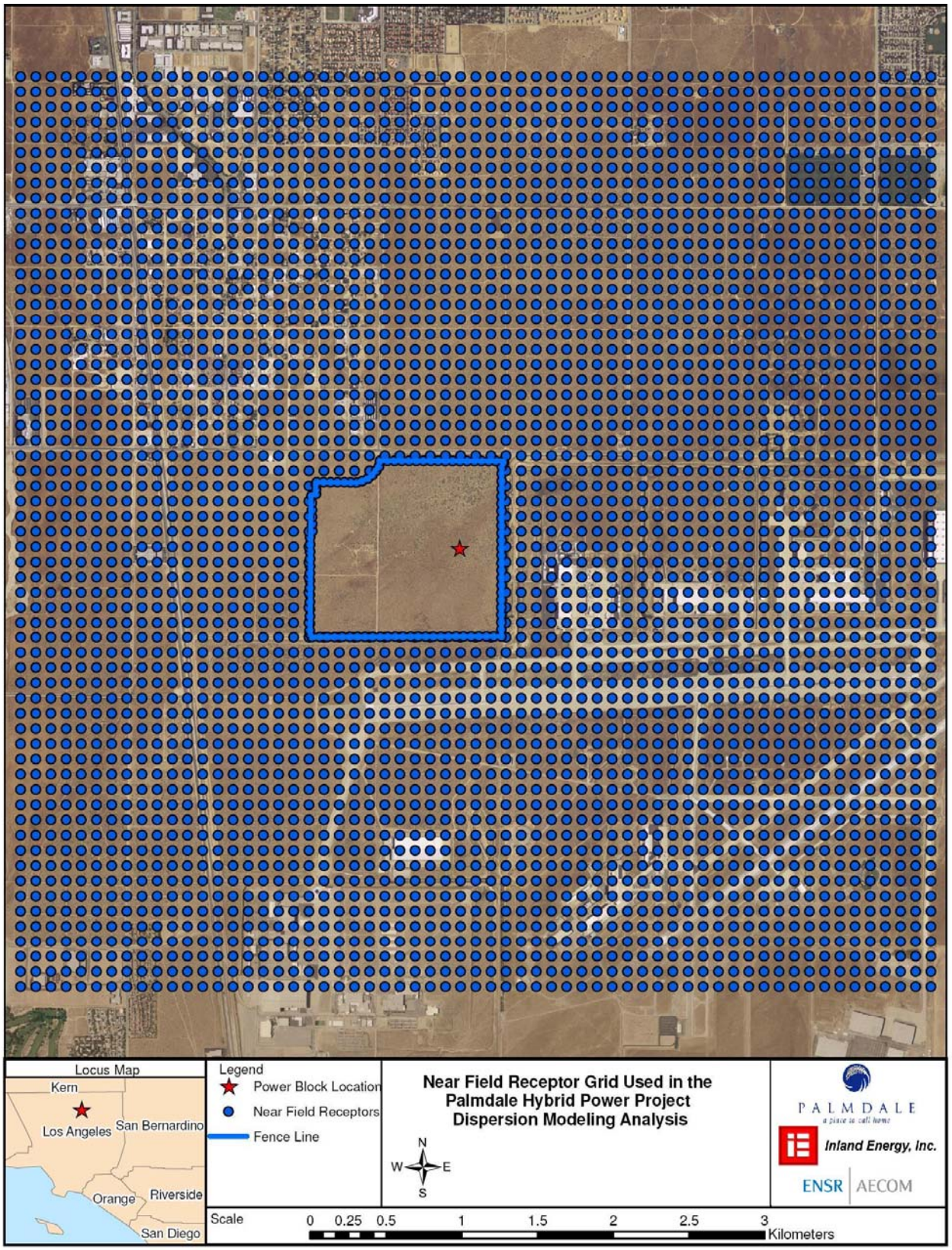
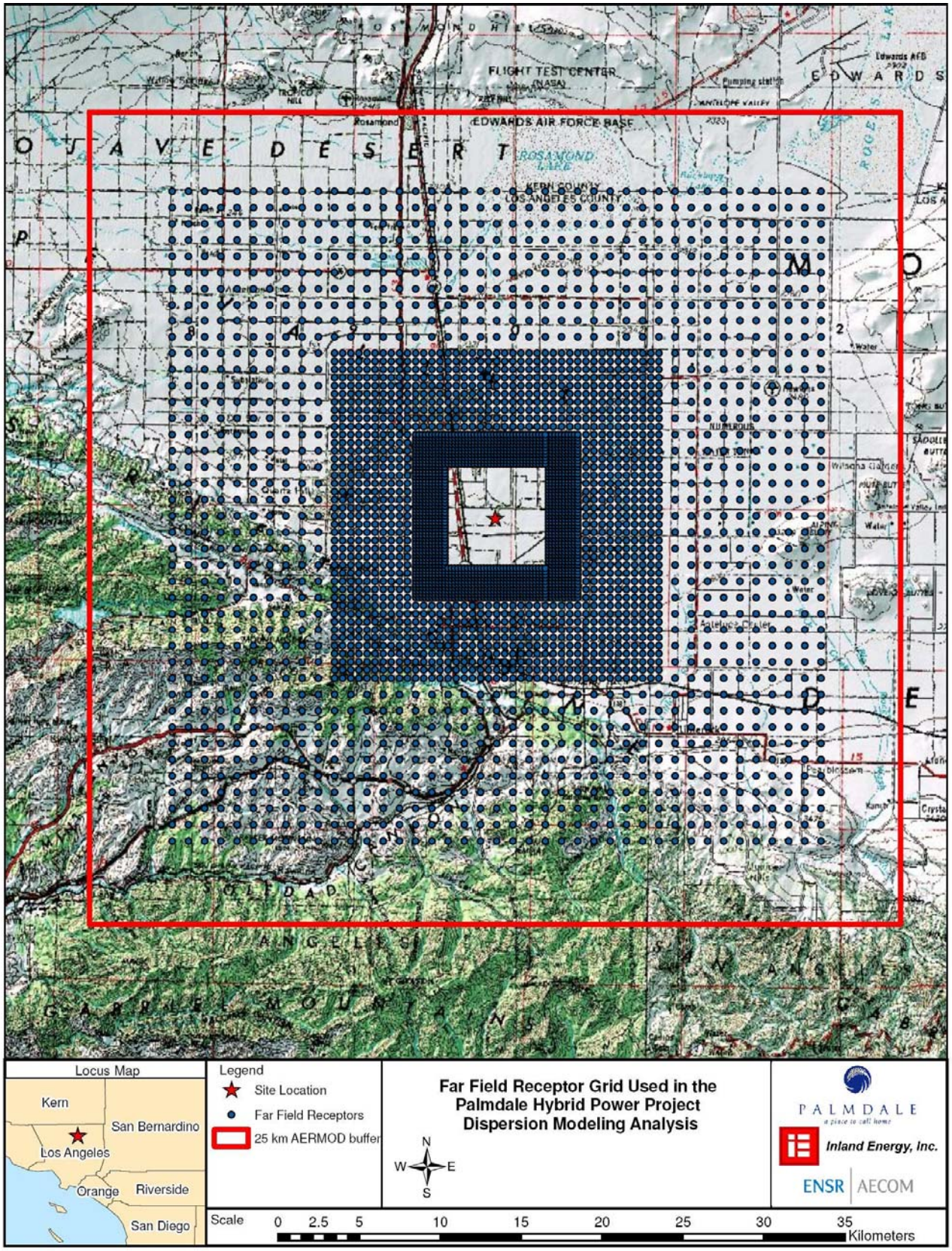


Figure 2-4 Far Field Cartesian Receptors Field Used in the PHPP AERMOD Analysis



2.2.2 Meteorological Data Processing with AERMET

Three years (2002-2004) of surface observations from the NWS tower at Palmdale Regional Airport in Palmdale, and concurrent upper air data from Mercury Desert Rock Airport in Mercury will be processed with AERMET, the meteorological preprocessor for AERMOD.

AERMET will be applied to create two meteorological data files required for input to AERMOD:

Surface: A file with boundary layer parameters such as sensible heat flux, surface friction velocity, convective velocity scale, vertical potential temperature gradient in the 500-meter layer above the planetary boundary layer, and convective and mechanical mixing heights. Also provided are values of Monin-Obukhov length, surface roughness, albedo, Bowen ratio, wind speed, wind direction, temperature, and heights at which measurements were taken.

Profile: A file containing multi-level meteorological data with wind speed, wind direction, temperature, sigma-theta (σ_θ) and sigma-w (σ_w) when such data are available. For this application involving the Lancaster tower data, the profile file will contain a single level of wind data (9.3 meters) and the temperature data only.

AERMET requires specification of site characteristics including surface roughness (z_o), albedo (r), and Bowen ratio (B_o). These parameters were developed according to the guidance provided by EPA in the recently revised AERMOD Implementation Guide (AIG) (EPA, 2008a).

The revised AIG provides the following recommendations for determining the site characteristics:

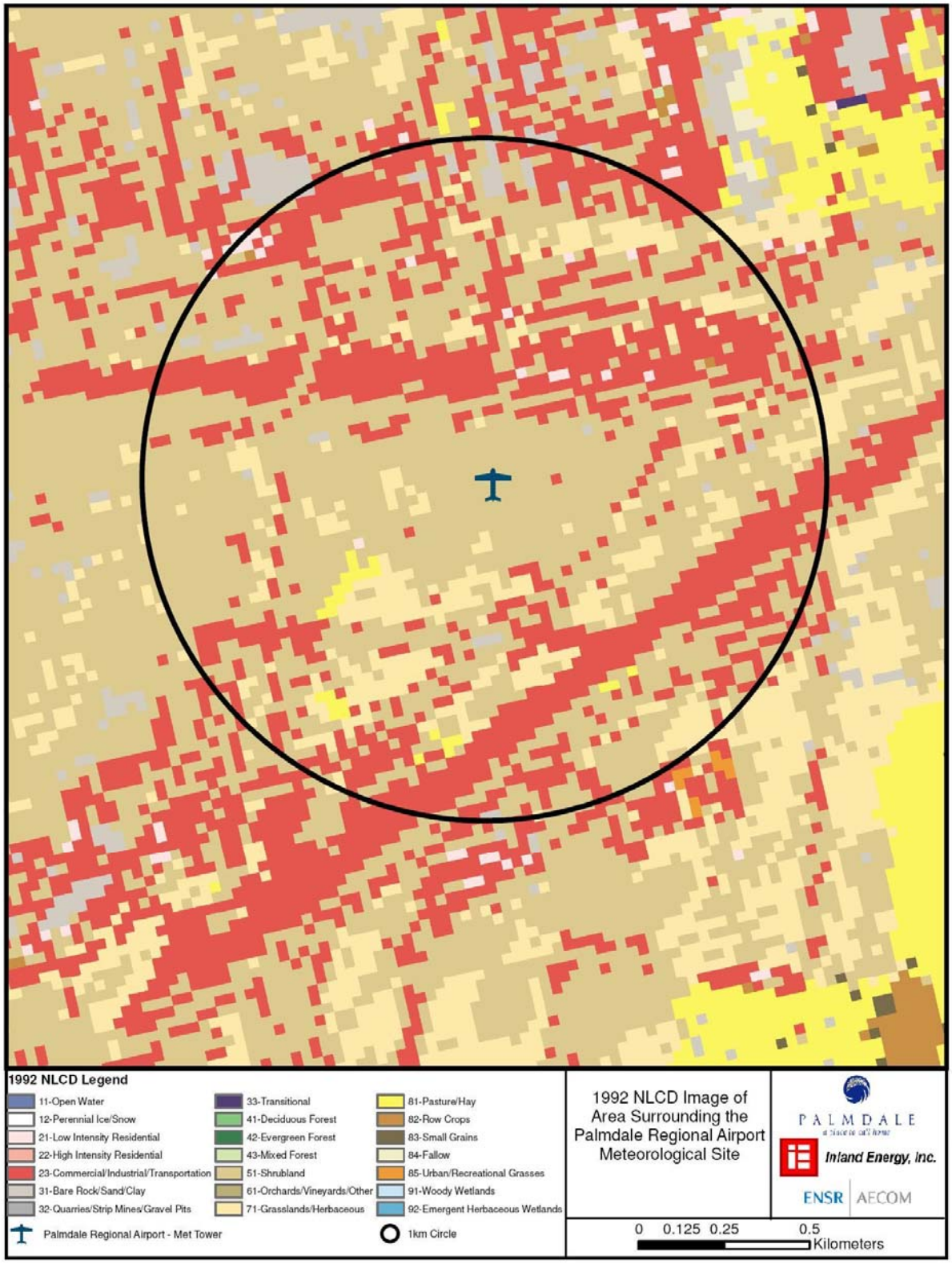
1. The determination of the surface roughness length should be based on an inverse distance weighted geometric mean for a default upwind distance of one km relative to the measurement site. Surface roughness length may be varied by sector to account for variations in land cover near the measurement site; however, the sector widths should be no smaller than 30 degrees. As discussed further below, three sectors were used in this application.
2. The determination of the Bowen ratio will be based on a simple unweighted geometric mean (i.e., no direction or distance dependency) for a representative domain, with a default domain defined by a 10 km by 10 km region centered on the measurement site.
3. The determination of the albedo should be based on a simple unweighted arithmetic mean (i.e., no direction or distance dependency) for the same representative domain as defined for Bowen ratio, with a default domain defined by a 10 km by 10 km region centered on the measurement site.

The AIG recommends that the surface characteristics be determined based on digitized land cover data. EPA has developed the AERSURFACE tool that will be used to determine the site characteristics based on digitized land cover data in accordance with the recommendations from the AIG discussed above. AERSURFACE incorporates look-up tables of representative surface characteristic values by land cover category and seasonal category. AERSURFACE will be applied with the instructions provided in the *AERSURFACE User's Guide* (EPA, 2008b).

The current version of AERSURFACE (Version 08009) supports the use of land cover data from the USGS National Land Cover Data 1992 archives (NLCD92) (http://edcftp.cr.usgs.gov/pub/data/landcover/states/). The NLCD92 archive provides data at a spatial resolution of 30 meter based on a 21-category classification scheme applied over the continental U.S.

Figure 2-5 Aerial Photo of the Area Surrounding the Palmdale Regional Airport

Figure 2-6 1992 NLCD Data Image of the Region Surrounding the Palmdale Regional Airport



Visual inspection of recent satellite images (2005) in the area of the measurement site (see Figure 2-6), compared to the 1992[1] land cover images (Figure 2-7) indicate that there have been no significant changes in land use cover confirming the use of the 1992 data will be reasonable. As recommended in the AIG for surface roughness, the one kilometer area was broken down into sectors for the analysis. Two sectors were identified for this analysis based upon visual observation of the land-use around the monitoring station as shown on aerial photographs (see Figure 2-7).

In AERSURFACE, the various land cover categories are linked to a set of seasonal surface characteristics. As such, AERSURFACE requires specification of the seasonal category for each month of the year. The following five seasonal categories are offered by AERSURFACE:

1. Midsummer with lush vegetation;
2. Autumn with unharvested cropland;
3. Late autumn after frost and harvest, or winter with no snow;
4. Winter with continuous snow on ground; and
5. Transitional spring with partial green coverage or short annuals.

The designations used in this application are summarized in Table 2-1.

Table 2-1 AERSURFACE Season and Bowen Ratio Condition Designations

Month	Season	Bowen Ratio Category		
	2002-2004	2002	2003	2004
January	Winter *	Dry	Dry	Dry
February	Winter *	Dry	Dry	Wet
March	Autumn	Dry	Wet	Average
April	Autumn	Average	Wet	Average
May	Summer	Average	Wet	Average
June	Summer	Average	Average	Average
July	Summer	Average	Wet	Average
August	Summer	Average	Average	Average
September	Summer	Average	Average	Average
October	Summer	Average	Average	Wet
November	Autumn	Average	Average	Wet
December	Autumn	Wet	Average	Wet

* The "Late autumn after frost and harvest or winter with no snow" category will be used for January and February season.

[1] 1992 is the data set that the EPA uses for AERSURFACE. This data set is reviewed to verify that the area hasn't significantly changed over time. Aerial photos of this Palmdale area show that there has been no major development in this period.

Figure 2-7 One km Radius Circle Around the Palmdale Regional Airport with Surface Roughness Sectors Shown

In addition, for Bowen ratio, the land use values are linked to three categories of surface moisture corresponding to average, wet and dry conditions. The surface moisture condition for the site may vary depending on the meteorological data period for which the surface characteristics will be applied. AERSURFACE applies the surface moisture condition for the entire data period. Therefore, if the surface moisture condition varies significantly across the data period, then AERSURFACE can be applied multiple times to account for those variations. As recommended in the AERSURFACE User's Guide, the surface moisture condition for each month will be determined by comparing precipitation for the period of data to be processed to the 30-year climatological record, selecting "wet" conditions if precipitation was in the upper 30th-percentile, "dry" conditions if precipitation was in the lower 30th-percentile, and "average" conditions if precipitation was in the middle 40th-percentile. The monthly designations of surface moisture input to AERSURFACE are also summarized in Table 2-1.

The base elevation used for the Palmdale Regional Airport will be 769.3 meters (2,524 feet) above sea level. A three-year wind rose is provided as Figure 2-8.

2.2.3 Model Options

AERMOD will be applied with the EPA recommended default options. Model iterations will be conducted for each year of meteorological data to identify the maximum impacts over all three years for the pertinent averaging periods.

2.3 Characterization of Sources to be Modeled

The Project will include the following air emission sources that will be included in the modeling analysis:

- Two combined cycle combustion turbines, each with heat recovery steam generators (HRSGs)
- Auxiliary boiler
- Emergency generator engine
- Fire-water pump engine
- Heat transfer fluid heater
- Cooling tower

A preliminary plot plan of this equipment is shown in Figure 2-9. Calculation of emissions, including proposed control technology, will be provided in the AFC, PSD and NANSR permit applications.

2.3.1 Combustion Turbines

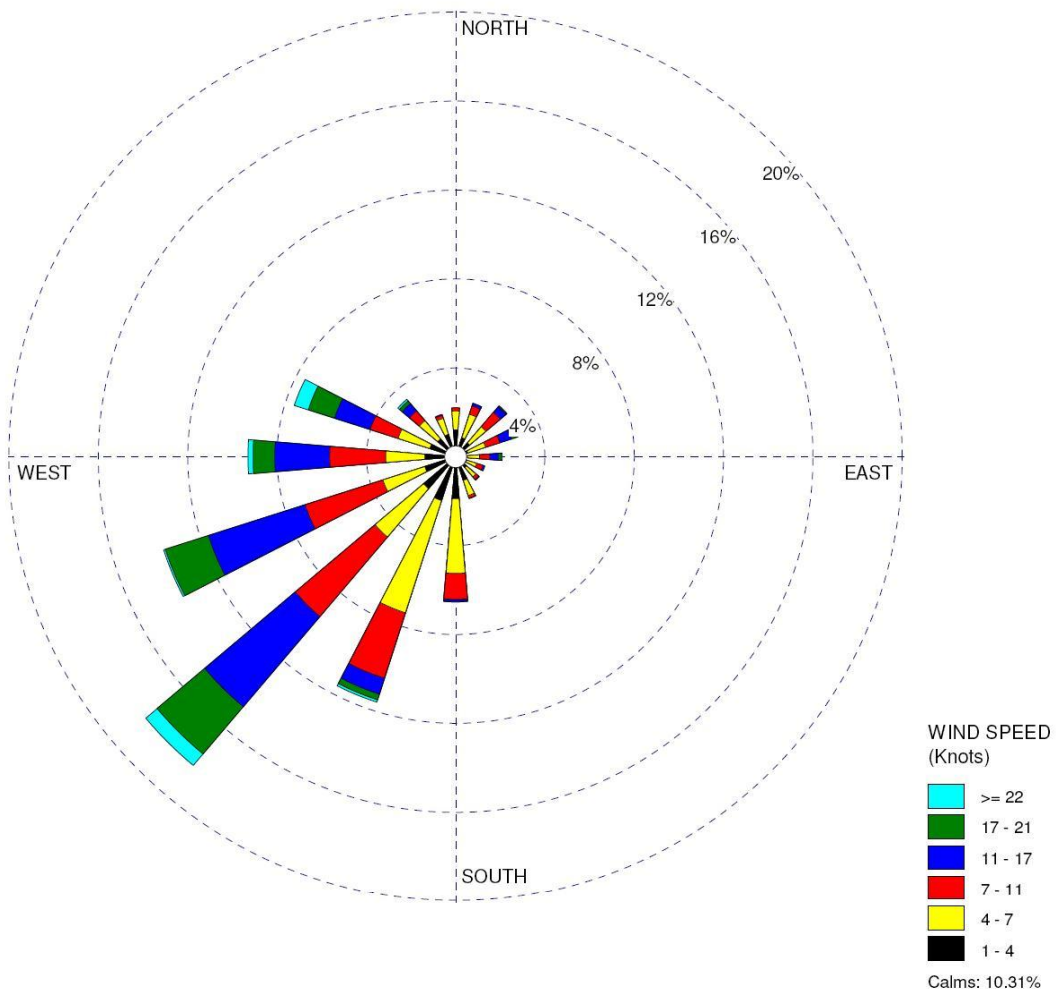
2.3.1.1 Normal Turbine Operations

The dispersion modeling analysis will be conducted with emission rates and flue gas exhaust characteristics (flow rate and temperature) that are expected to represent the range of possible values for the natural gas-fired turbines under consideration. Because turbine emission rates and flue gas characteristics for a given turbine load vary as a function of ambient temperature and operational load, data will be derived for three ambient temperatures for natural gas fuel at each of the three operating load points (100%, 75% and 50%). The temperatures will cover a representative minimum, annual average and a representative maximum. The 100% load case will also include maximum duct firing of the HRSGs. Although maximum emissions will occur during 100% load operation, plume rise will be lower and hence impacts could be greater during partial load conditions. Therefore, modeling will be conducted for all cases to define the worst-case scenario for each pollutant.

Figure 2-8 Palmdale Regional Airport 2002-2004 Wind Rose

WIND ROSE PLOT:
Palmdale Regional Airport
2002-2004 Wind Rose

DISPLAY:
Wind Speed
Direction (blowing from)



COMMENTS:	DATA PERIOD:	COMPANY NAME:
	2002 2003 2004 **Jan 1 - Dec 31** **00:00 - 23:00**	**ENSR**
		MODELER: **Richard Hamel**
	CALM WINDS: **10.31%**	TOTAL COUNT: **25924 hrs.**
	AVG. WIND SPEED: **8.24 Knots**	DATE: **7/10/2008**

PALMDALE
a place to call home
Inland Energy, Inc.
ENSR | AECOM

WRPLOT View - Lakes Environmental Software

2.3.1.2 Startup/Shutdown Turbine Operations

During startup and shutdown of the combustion turbines, emissions of NO_X and CO will be higher than normal operations. As such, worst-case startup and shutdown conditions will be modeled with AERMOD for comparison to the 1-hour NO_2 CAAQS of 339 µg/m^3 and the 1-hour CO CAAQS of 23,000 µg/m^3. An analysis of maximum 8-hour CO impacts for comparison to the CAAQS of 10,000 µg/m3, including startup/shutdown, will also be conducted. Stack parameters and emissions data required for modeling short-term startup/shutdown scenarios will be provided in the modeling report. It is anticipated that stack parameters corresponding to a 20 percent load will be used as representative of this operating mode. If required, application of the ozone limiting method (OLM) as described in Section 2.4.3 will be used to account for the oxidizing potential of background ozone to convert NO_X to NO_2 on an hourly basis. Startup and shutdown emissions will be accounted for in the annual average modeling by developing scenarios, such as base load and daily cycling cases, to determine the worst case emissions. To assess annual average impacts, the maximum annual potential emissions will be modeled with 100% load stack parameters and annual average temperature as this case will be most representative of annual average conditions.

2.3.1.3 Turbine Commissioning

Maximum emissions during the initial tuning and testing of the combustion turbines at the end of construction of the power plant will be similar to emissions during startup and shutdown operations. To the extent where there are differences, short-term modeling of NO_X and CO emissions will also be performed to determine impacts from this phase.

2.3.2 Ancillary Combustion Units

The Project will include an auxiliary boiler, emergency generator engine, fire-water pump engine and heat transfer fluid heater. These units will each have a dedicated stack. The modeling of these sources will be based on maximum (short-term and annual) emissions of the criteria pollutants and appropriate stack parameters based on the size of the units proposed. The stack parameters and air emissions of all the units will be documented within the modeling report.

2.3.3 Cooling Towers

The Project will include a wet mechanical draft cooling tower. Drift eliminators will be utilized to minimize cooling tower drift. Cooling tower drift consists of water droplets containing dissolved solids which are entrained in the airflow through the tower and carried out to the atmosphere. As such, the cooling tower will be a source of particulate matter emissions and will be included in the modeling analysis to assess Project PM10/PM2.5 air quality impacts.

The PHPP cooling tower will consist of 10 cells. Each cell will be modeled as an individual point source. The modeling report will document the source parameters including the fan stack height, inside diameter, exhaust temperature and velocity.

2.3.4 Construction Sources

Construction of the PHPP is anticipated to take 27 months. Construction-related air emissions will include exhaust and fugitive dust from vehicle and construction equipment and windblown fugitive dust from grading and other soil disturbing activities. Criteria pollutant emissions will be modeled to determine maximum air quality impacts. Modeling will reflect that construction will primarily occur during daylight hours. The maximum modeled concentrations will then be added to background concentrations and compared to the applicable standards.

Construction-related emissions will be modeled using the AERMOD model (version 07026). Emissions of criteria pollutants for the construction sources will be modeled as layered area sources, with one layered area source representing power block construction, and another representing solar array construction. Buoyancy and mechanical turbulence from the hot exhaust and mobility of the construction equipment will be included as an initial vertical dimension in the area source algorithm. Fugitive dust emissions and onsite motor vehicles will be modeled as a separate low-level area source since these emissions would almost all occur near ground level.

For the emission source associated with the power block construction, an area polygon source with a total area of about 95,260 square meters (m^2) will be used. This area represents the size of the power block and will be used to compute the emission flux for the power block area. For the construction sources associated with the solar array construction, a rectangular area source with an area of about 100,700 m^2 will be used. The solar array area source represents the largest area that is expected to be under construction at a given time and the solar array construction emission flux will be calculated based on this area. The power block sources will be located over the proposed footprint for the power block equipment, while the solar array construction sources will be placed just to the west of the power block to allow for potential interaction of plumes from both area sources. Each of these locations, shown in Figure 2-9, will have two overlaid area sources, one for the windblown fugitive and on-site vehicle emissions, and a second for the construction equipment with vertical exhaust pipes.

A release height of 2.0 meters will be assumed for the fugitive / onsite vehicles sources, with an initial plume height of 15 feet (4.57 m). Following EPA AERMOD guidance (EPA, 2004), the initial area source vertical standard deviation for construction combustion emissions is estimated as the plume depth divided by 2.15, or 2.13 m.

The large construction equipment will be assumed to have a release height of 3.7 m. The initial vertical depth of the diesel exhaust plume for construction activities will be estimated as four times the release (exhaust) height. This height (14.8 m) takes into account the plume rise of the hot diesel exhaust, mechanical mixing on the site introduced by the movement of heavy equipment, and structure wake turbulence introduced by buildings and structures on the Project site. The initial area source vertical standard deviation for the construction equipment is calculated by taking this vertical depth and dividing by 2.15 for an initial sigma-z of 6.88 meters.

2.4 Evaluation of Air Quality Impacts

2.4.1 Project Operation Impacts

The modeling of normal plant operations using AERMOD will be done as a multi-step process. First, the worst-case impacts for the combustion turbines (based on different load and temperature profiles) will be identified. Next, the worst-case combustion turbine impacts will be combined with normal operations of the other facility sources. The maximum air quality impacts due to emissions from the Project sources will be compared to the EPA Significant Impact Levels (SILs) (see Table 2-2). For criteria pollutants and averaging periods where the modeled Project impacts are below their respective SILs, no further analysis will be required to demonstrate compliance with the PSD increments. For pollutants and averaging periods where modeled impacts are greater than the SILs, multi-source modeling will be required to determine the cumulative impacts of the Project and nearby major background sources to demonstrate compliance with the PSD increments. In addition, the CEC requires a cumulative analysis to demonstrate compliance with the NAAQS/CAAQS.

ENSR submitted a letter to the AVAQMD on July 2, 2008 requesting a background inventory for sources to be included in the cumulative modeling. ENSR was contacted by Chris Anderson and recommended that two facilities close to the Project site, Lockheed-Martin Aeronautics and Northrop-Grumman Corporation, be included in the cumulative analysis.

Figure 2-9 Location of Emission Sources Used In Construction Modeling

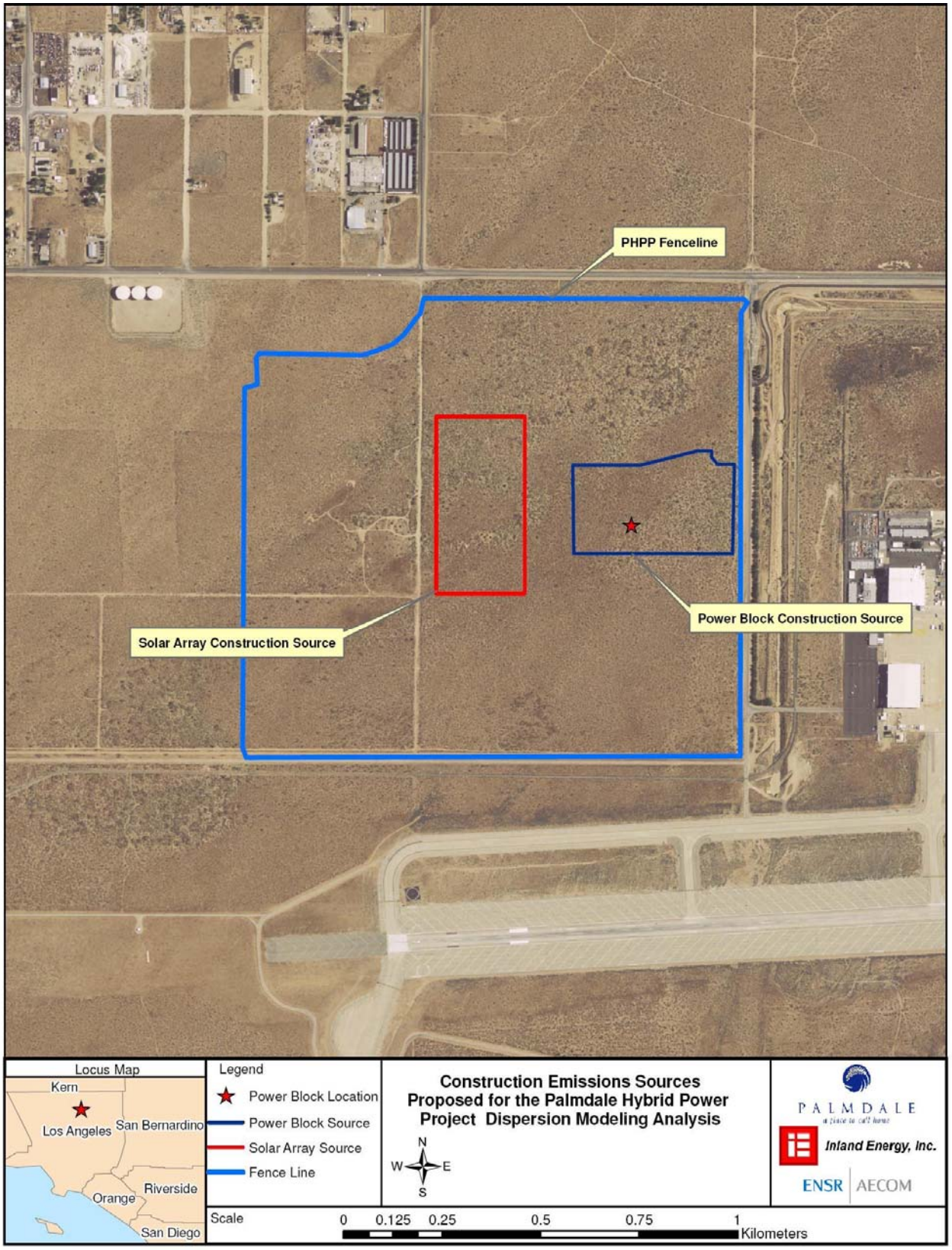


Table 2-2 Ambient Air Impact Criteria (µg/m^3)

Pollutant	Averaging Period	PSD Class II Significant Impact Levels	PSD Class II Increments	CAAQS	NAAQS	
					Primary	Secondary
NO_2	1-hour	--	--	339[1]	--	--
	Annual	1	25	57	100	100
CO	1-hour	2,000	--	23,000	40,000	NA
	8-hour	500	--	10,000	10,000	NA
PM10	24-hour	5	30	50	150	150
	Annual	1	17	20	--	--
PM2.5	24-hour	--	--	--	35	35
	Annual	--	--	12	15	15
SO_2	1-hour	--	--	655	--	--
	3-hour	25	512	--	NA	1300
	24-hour	5	91	105	365	NA
	Annual	1	20	--	80	NA

[1] The California Office of Administrative Law (OAL) approved the rulemaking on February 19, 2008, and the revised NO_2 standard became March 20, 2008.

The cumulative source database was received in the form of a Hotspots Analysis and Recording Program (HARP) modeling file for the two facilities which included the sources the be modeled and included the necessary stack parameters and emissions data.

The HARP data included 284 sources (129 at Lockheed, 155 at Northrop), the vast majority of which had very small emissions. Because of the large number of sources, AERMOD runs would take an extremely long time to complete. Therefore, following consultation with the AVAQMD, it was determined that the modeling would only explicitly include the sources that emit 5% or greater of the total facility emissions for each pollutant. The emissions from sources not modeled (i.e., sources with emissions less than 5% of the total) will be added to the highest emitting source for that pollutant. In the case where there are multiple sources with the highest emission rate, the emissions from sources not modeled will be added to the with source closest to the Project site. This approach will provide a reasonable simplification to the modeling that will result in more manageable modeling run times while ensuring that the emissions from the non-Project facilities are properly accounted for in the cumulative modeling.

The correspondence related to the cumulative inventory is contained in Attachment 1 to this protocol..

2.4.2 Ambient Background Concentrations

An ambient regional background component representing non-modeled source contributions will be added to the modeled concentrations to demonstrate compliance with the CAAQS/NAAQS. Regional background concentrations from available ambient monitoring data most representative of current air quality in the proposed project impact area are shown in Table 2-3. These data represent the three most recent years (2005-2007) available from the Lancaster Division Street monitor (same location as the meteorological data), except for the SO_2 background data, which represents the three most recent years (2005-2007) available from the Burbank West Palm Avenue monitor in Burbank, CA.

Table 2-3 Annual Monitoring Data for Background Concentrations

Pollutant	Period	Maximum Observed Concentrations (µg/m^3)		
		2005	2006	2007
NO_2	1-hour	139.2	124.1	120.4
	Annual	28.2	28.2	26.3
CO	1-hour	3,335	3,680	2,875
	8-hour	1,725	1,840	1,495
PM10	24-hour	55	65	86
	Annual	22	23	25
PM2.5	24-hour	16	13	20
	Annual	8.9	7.4	8.0
SO_2	1-hour	34.1	23.6	21.0
	3-hour	23.6	13.1	13.1
	24-hour	15.7	10.5	7.9
	Annual	5.2	2.6	2.6

All short term values are the maximum concentration with the exception of PM2.5 which is the 98th percentile. Annual values are mean annual concentrations.

2.4.3 NO_2 Modeling

To complete the Ambient Air Quality Impacts Analysis (AQIA) for NO_2, the modeled ground-level concentrations resulting from NO_X emissions must be converted to NO_2. For the PHPP AQIA, initially the EPA national default conversion factor of 75 percent will be applied to the modeled NO_X concentrations to estimate NO_2. If further refinement of the NO_2 concentrations is necessary, the ozone limiting method (OLM) will be applied as implemented in AERMOD with the use of hourly ozone concentrations from the most representative monitor. In using the OLM in AERMOD, conversion of NO_X emissions to NO_2 concentrations are limited based on the availability of ozone as determined by the ambient background levels. If necessary, background ozone levels will be obtained from the EPA AirData website for the Lancaster monitoring station.

3.0 Additional Impact Analyses

PSD regulations require a review of the following additional potential impacts which may result from the proposed project with respect to the following:

- Vegetation and Soils
- Associated Growth
- PSD Class I Area Impacts

Potential impacts to PSD Class I Areas are addressed in a separate modeling protocol.

3.1 Vegetation and Soils

The project lies in an area of primarily consisting of desert and desert shrub-land, with much of the nearby area covered by the Palmdale Regional Airport. No significant off-site impacts are expected from the proposed action. Therefore, the potential for adverse impacts to either soils or vegetation is minimal.

Criteria for evaluating impacts on soils and vegetation are provided in EPA's A Screening Procedure for the Impacts of Air Pollution Sources on Plants, Soils and Animals (EPA 1980). Table 3-1 lists the EPA suggested criteria for the gaseous pollutants emitted directly from the proposed facility. These criteria are established for sensitive vegetation and crops exposed to the effects of the gaseous pollutants through direct exposure. Adverse impacts on soil systems result more readily from the secondary effects of these pollutants' impacts on the stability of the soil system. These impacts could include increased soil temperature and moisture stress and/or increased runoff and erosion resulting from damage to vegetative cover. The modeled air concentrations for the proposed facility will be compared to these criteria to evaluate impacts on both soils and vegetation.

Table 3-1 EPA Criteria for Gaseous Pollutant Impacts on Natural Vegetation and Crops

Pollutant	Averaging Time	Minimum Impact Level for Affects on Sensitive Plants ($\mu g/m^3$)
NO_2	4 hours	3,760
	8 hours	3,760
	1 month	564
	Annual	94
CO	1 week	1,800,000
SO_2	1 hour	917
	3 hours	786
	Annual	18

3.2 Associated Growth

PSD requires an assessment of the secondary impacts from applicable projects. There will be minimal associated growth expected during Project construction due to the relatively short-term (two year) duration and existence of a large construction labor force in the region. Additionally, no long-term growth (i.e., general commercial, residential, industrial or other secondary growth in the area) is expected during operations due to the small labor force that will be required to operate this hybrid power plant. Therefore, no analysis of secondary impacts from associated growth is needed for this Project.

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Attachment 1

AVAQMD Correspondence Related to the Cumulative Modeling Inventory

ENSR | AECOM

ENSR
2 Technology Park Drive, Westford, Massachusetts 01886-3140
T 978.589.3000 F 978.589.3100 www.ensr.aecom.com

July 2, 2008

Mr. Brett Banks
Antelope Valley AQMD
43301 Division Street, Suite 206
Lancaster, CA 93535

Subject: Request for Background Source Inventory - Proposed Palmdale Hybrid Power Project

Dear Mr. Banks,

The purpose of this letter is to request a background source inventory required for cumulative air quality modeling analysis to support air quality modeling for the City of Palmdale's proposed Palmdale Hybrid Power Project. Two inventories are required:

1) An inventory to assess NAAQS and PSD increment compliance for NO_2 and PM10. Please assume a significant impact area of 10 kilometers extending from the approximate location of the proposed combustion turbine stacks. Therefore, to identify the background sources for the analysis, use a radius of 60 kilometers and the central UTM coordinate relative to the proposed combustion turbine stacks of 398,678 meters East, 3,833,500 meters North, NAD83, Zone 11.

2) An inventory of all sources in the vicinity of the project that could contribute to the background levels of NOx, CO, PM10 or SO_2 to support cumulative modeling required by the CEC. This would also include sources that are permitted but not yet constructed or ones that are operating well below permitted potential such that the emissions would not be reflected in the monitored background.

For all sources, please provide data required for modeling including stack parameters (height, diameter, velocity, and temperature), UTM coordinates, stack base elevation and maximum potential emission rates.

Please feel free to contact me at 978.589.3275 if you have any questions or require additional information to fulfill this request.

Sincerely yours,

Richard Hamel

Rich Hamel
Air Quality Meteorologist
rhamel@ensr.aecom.com

cc: Alan DeSalvio/Mojave Desert AQMD
Sara Head/ENSR

Antelope Valley Air Quality Management District
43301 Division St., Suite 206
Lancaster, CA 93535-4649

661.723.8070
Fax 661.723.3450

Eldon Heaston, Executive Director
In reply, please refer to AV0708/070

July 3, 2008

Mr. Rich Hamel
rhamel@ensr.aecom.com

VIA E-mail

Subject: Major Point Source Emission Inventory Data

Dear Mr. Hamel:

Pursuant to your request for background source emission inventory information, the Antelope Valley AQMD (AVAQMD) has prepared the attached files in electronic format. These files were generated using the HARP program. There are two facilities which the AVAQMD deems necessary to include in your evaluation based upon their industrial processes and facility emissions. Those two facilities are Northrop Grumman, Palmdale and Lockheed Martin Aeronautical, Palmdale.

Should you have any questions regarding the information provided please contact Mr. Chris Anderson at 661 723-8070.

Sincerely,

Bret S. Banks
Operations Manager

BSB/cja

Printed on recycled paper

APPENDIX G.5

Class I Area Dispersion Modeling Protocol

Prepared for:
City of Palmdale

Class I Area Dispersion Modeling Protocol for the Proposed Palmdale Hybrid Power Project

ENSR Corporation
July 2008
Document No.: 10855-002-040C1MP

ENSR | AECOM

Prepared for:
City of Palmdale

Class I Area Dispersion Modeling Protocol for the Proposed Palmdale Hybrid Power Project

Prepared By: Jeffrey A. Connors

Reviewed By: Brian Stormwind

ENSR Corporation
July 2008
Document No.: 10855-002-040C1MP

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1.0 Introduction

1.1 Introduction and Project Description

The City of Palmdale, California, is proposing to build a hybrid combined-cycle / solar thermal power plant in the City of Palmdale to the northwest of the Air Force Plant 42 / Palmdale Regional Airport. The site will feature a 2 on 1 combined-cycle configuration with two GE 7FA gas turbines and one steam turbine producing a nominal electrical output of 570 megawatts (MW) along with a 250-acre solar thermal collection field, capable of producing 50 MW. The hybrid power plant will be owned by the City of Palmdale and the development managed by Inland Energy and will be known as the Palmdale Hybrid Power Project (PHPP or Project). The combustion turbine trains will include heat recovery steam generators and will be fueled with natural gas only. In addition to the combustion turbines, the facility will contain ancillary combustion equipment including a natural gas-fired auxiliary boiler, a natural gas-fired heat transfer fluid (HTF) heater, a diesel-fired emergency generator, and a diesel-fired fire water pump engine. The facility will also include a wet mechanical draft cooling tower.

The proposed location of PHPP is designated federal non-attainment for ozone, and attainment or unclassified for nitrogen dioxide (NO_2), carbon monoxide (CO), respirable particulate matter (PM10), fine particulate matter (PM2.5), and sulfur dioxide (SO_2). The combined cycle units will result in emission increases of NO_2, Total Particulate Matter (PM), PM10, PM2.5, and CO above the Prevention of Significant Deterioration (PSD) threshold limits, therefore classifying it as a major source with respect to New Source Review (NSR) and thus triggering Prevention Significant Deterioration (PSD) review for NO_2, PM, PM10, PM2.5, and CO. Review of PM emissions under the PSD Program consists of a control technology evaluation only, and no modeling will be performed since there are no increments or standards for PM. Although PM2.5 PSD increments have yet to be established for Class I areas, PM2.5 modeled concentrations will be provided in the air permit application for informational purposes based on comments received from the U.S. Environmental Protection Agency (EPA) Region IX on a similar nearby project. There are no PSD increments or visibility impacts from CO, and hence CO will not be modeled for Class I Areas. PHPP will not be a significant source of SO_2, lead or other PSD pollutants such as sulfuric acid mist (H_2SO_4).

All dispersion model input and output files will be provided to the pertinent agencies such as the California Energy Commission (CEC), Antelope Valley Air Quality Management District (AVAQMD) and EPA Region IX on a modeling archive CD provided with the air permit application and final modeling report.

1.2 Modeling at Class I Areas

PSD regulations require that facilities within 100 kilometers (km) of a PSD Class I area perform a modeling evaluation of the ambient air quality in terms of Class I PSD Increments and Air Quality Related Values (AQRVs). For PHPP, impacts will be addressed at the following Class I areas within 100 km:

- San Gabriel Wilderness Area (WA) and
- Cucamonga, WA.

Figure 1-1 shows the location of PHPP relative to the nearest PSD Class I areas. San Gabriel, WA is located within 50 km of PHPP and Cucamonga, WA is located beyond 50 km. PSD increments and acid deposition will be addressed using CALPUFF for both areas, while visibility impacts will be addressed for San Gabriel, WA using a visible plume model (such as VISCREEN or PLUVUE II) as recommended by Interagency Workgroup on Air Quality Modeling (IWAQM) Phase II report (EPA Report EPA-454/R-98-019, 1998; found at http://www.epa.gov/scram001) and CALPUFF will be used for regional haze impacts at Cucamonga, WA.

Since the Project is not a significant source of SO_2 or H_2SO_4 emissions and Class I PSD increments do not exist for CO, PM2.5, and H_2SO_4, increments will be assessed at the above mentioned Class I areas only for PM10 and NO_2. Additionally, since PHPP is not a significant source for SO_2 or H_2SO_4, a deposition analysis will only be preformed for nitrogen compounds which will consider primary emissions of NO_X along with converted nitrate and nitric acid. However, gas turbine emissions of SO_2, H_2SO_4, NO_X, and PM10/PM2.5 will all be included in the regional haze analysis for Cucamonga, WA. As described above, San Gabriel's visibility impacts will be addressed using a visible plume model which typically considers emissions of NO_X, PM10, and H_2SO_4.

1.3 Protocol Organization

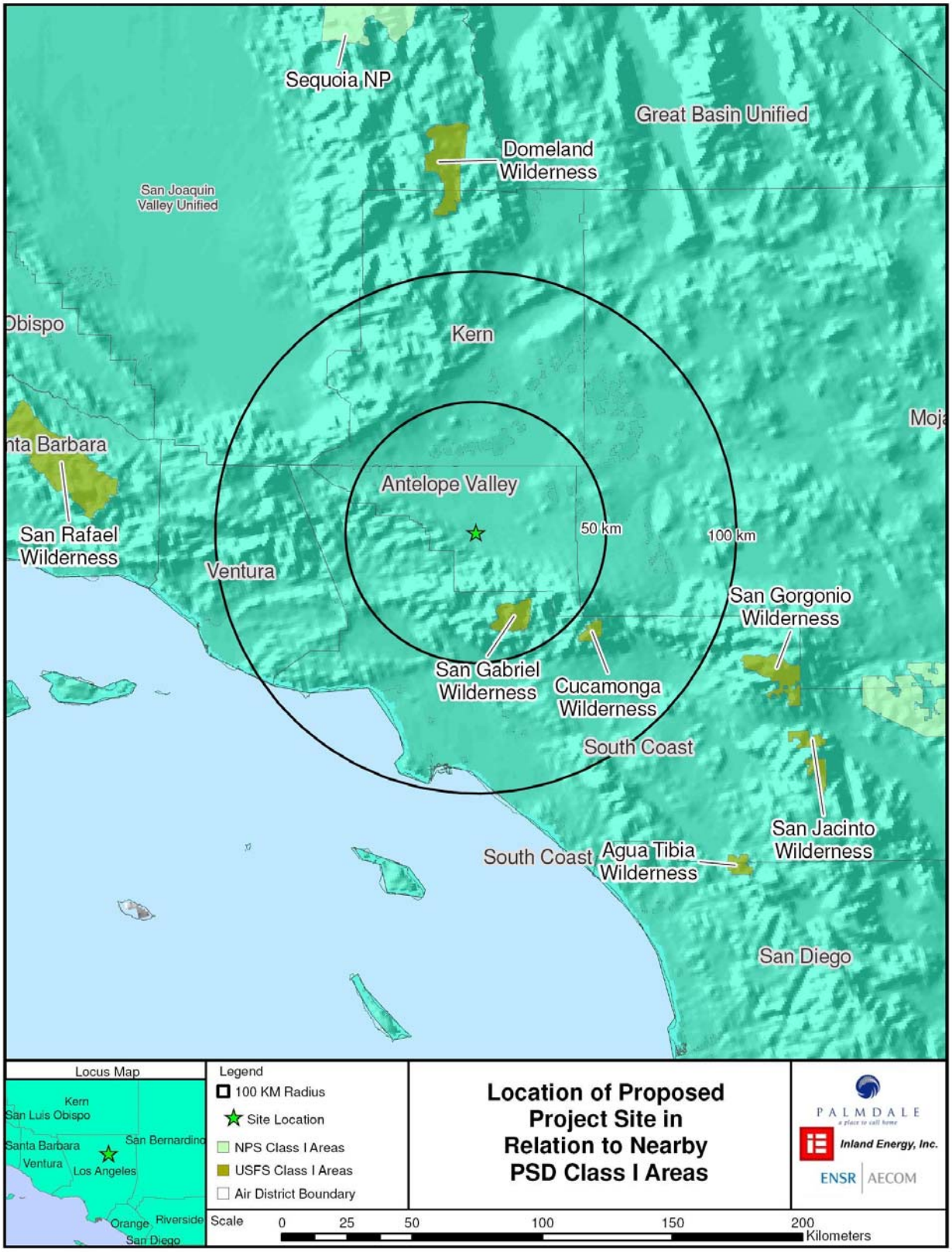
This proposed modeling protocol is based on requirements outlined in the IWAQM Phase II report as well as the Federal Land Managers' Air Quality Related Values Workgroup Phase I Report that was published in December 2000 (found at http://www2.nature.nps.gov/ard/flagfree/index.htm). In addition, the modeling methods and procedures will adhere to applicable guidance provided in the CALPUFF Reviewer's Guide (USFS and NPS, 2005) prepared for the United Station Forest Service and National Park Service. These guidance documents are provided for suggested modeling approaches by EPA and the Federal Land Managers (FLMs).

This document has been prepared in order to summarize the applicant's understanding of the permitting requirements for Class I area impact assessment and to briefly describe the air quality dispersion modeling study to be conducted. Review and approval of the proposed modeling protocol by EPA Region IX and corresponding FLMs is requested in order to ensure that potential issues are addressed and to expedite agency review of the PSD permit application.

The guidance in IWAQM Phase II suggests that CALPUFF (Scire, et al., 2000a, b) could be first used in a screening mode and then a refined mode if needed. ENSR is proceeding directly to the use of CALPUFF in a refined mode for three years (2001, 2002, and 2003).

Section 2 of this protocol document discusses the emission parameters used for the modeling. Section 3 outlines an approach for a refined CALPUFF analysis of the proposed expansion. Section 4 discusses the visibility modeling approach for Class I areas within 50 km (San Gabriel, WA) and Section 5 provides references.

Figure 1-1 Location of Proposed Project Site in Relation to Nearby PSD Class I Areas



2.0 Proposed Project Emission and Source Parameters

Class I area modeling will be conducted to evaluate PSD increment consumption of PM10 and NO_2, as well as regional haze and nitrogen deposition at San Gabriel, WA (visible plume analysis will be conducted instead of a CALPUFF regional haze analysis) and Cucamonga, WA The proposed new combined-cycle turbines will burn natural gas as the only fuel source. The facility will operate throughout the year.

For the assessments of modeled impacts on PM10 and NO_2 increments, regional haze, and nitrogen deposition, the Project will be modeled with the emissions and stack parameters from the two main combustion turbine stacks alone as presented in Table 2-1. An "envelope" approach will be used in the modeling: there are multiple prospective emission cases representing ambient temperatures, relative humidity, and equipment that could be in use at a given time. The initial modeling will use the 100% load (with duct firing) worst case (highest) emissions for each pollutant along with the lowest stack temperature and exit velocity across all of the possible 100% load (with duct firing) temperatures and relative humidity cases. This approach should represent the most conservative case in terms of modeled impacts.

As stated above, the modeling will be conducted with primary emissions from the combined-cycle turbine stacks alone. Ancillary equipment, such as the auxiliary boiler(s), heaters, firewater pump, and cooling towers will not be included in the Class I impacts analysis because these source's impacts are highly localized to within a few kilometers of the plant boundary and the boiler and engines will only operate a minimal number of hours per year.

For the regional haze modeling, the primary PM10 emissions from the main combustion turbine stacks will also be speciated according to the guidance provided by the NPS (see Attachment 1). In addition to speciating the primary PM10 emissions, CALPUFF regional haze modeling typically also considers primary SO_4 emissions (derived from H_2SO_4). Primary emissions of SO_4 are modeled because calculations of regional haze are sensitive to SO_4, which combines with free atmospheric ammonia to form light-scattering ammonia sulfate fine particles. Additionally, since SO_4 is modeled as a primary specie for regional haze analyses, the SO_2 emissions will be reduced based on the percent of SO_2 assumed to convert to SO_3 that ultimately forms the primary SO_4.

Table 2-1 Preliminary[a] Emissions and Modeling Parameters (per Turbine)

Pollutant	**Emissions Per Turbine (lbs/hr)**			
SO_2	1.2			
NO_X	15.6			
H_2SO_4	0.46			
PM10/PM2.5	18.0			
Stack Parameters	**English Units**		**Metric Units**	
Stack gas exit temperature	174.5	Fahrenheit	387.87	Kelvin
Stack gas exit velocity	58.15	ft/sec	17.72	m/sec
Stack height	145	feet	44.2	meters
Stack diameter	18.5	feet	5.64	meters
Stack Location - UTM Zone 11 NAD-1927				
CT – North	398,678.60	(meters)	-40.1457	LCC[b]
	3,833,524.40		-29.2735	(km)
CT – South	398,677.90	(meters)	-40.1461	LCC[b]
	3,833,484.10		-29.3131	(km)
Base Elevation	2513.2	feet	766.0	Meters

a. Emissions will be based on control technology evaluation

b The LCC (Lambert Conformal Coordinate) System is based on a reference of 34.91N and 117.66W, 0.0 and 0.0 false easting and northing, 30N and 60N two standard parallels, and a WGS-1984 spheroid.

3.0 CALPUFF Modeling

CALPUFF was promulgated by EPA on April 15, 2003 as a preferred dispersion model to assess long-range transport applications (transport distances exceeding 50 km). For PHPP, the distance to each of the PSD Class I areas are nearly equal to or exceed 50 km. At this distance, a non-steady-state modeling approach which considers spatial and time variations in meteorological conditions, such as CALPUFF, is appropriate. The modeling approach will closely follow the approved approach used for a similar recent PSD permitting effort. The meteorological and background chemical input data (ozone and ammonia) to CALMET and CALPUFF will be identical to the VV2 CALPUFF modeling with the exception that the model versions will be updated to reflect the most current EPA approved versions of CALMET and CALPUFF.

3.1 Modeling Procedures

3.1.1 Selection of Dispersion Model

ENSR will run CALPUFF Version 5.8 (level 070623) in a refined mode to determine the effect that the Project's emissions will have on PM10 and NO_2 increments, regional haze, and nitrogen deposition. CALMET is the meteorological pre-processor for the CALPUFF modeling system which produces three-dimensional wind fields that incorporate a variety of meteorological data observations along with affects on varying terrain and land use. Advanced meteorological data from a prognostic mesoscale meteorological data, such as the Fifth Generation Mesoscale Model (MM5), will be used to provide a superior estimate of the initial wind fields. This application will consider three years, 2001-2003, of prognostic 36-km (for 2001 and 2003) and 12-km (for 2002) MM5 meteorological data. The 2001-2003 database was provided by Alpine Geophysics and are described by Olerud (2003) and McNally (2003, 2005). These databases are also consistent with the surrounding Regional Planning Organization (RPO's) selections for Best Available Retrofit Technology (BART) modeling.

3.1.2 Computational and Meteorological Grid

The computational and meteorological grid systems will extend at least 50 km in all directions beyond the PHPP site along with any portions of a Class I area to be assessed. The additional buffer distance of 50 km will allow for the consideration of puff trajectory recirculations. This design allows for approximately a 540 km (E/W) by 441 km (N/S) computational/meteorological grid (modeling domain) extent resulting in 180 (NX) x 147 (NY) number of grid cells and a 3-km grid element size. The southwest corner of the grid is located at approximately 32.88° N latitude and 120.58° W longitude. Figure 3-1 shows the proposed modeling domain. ENSR may determine that finer grid resolution is needed in the vicinity of high terrain in specific cases. If a finer grid resolution is needed, then we will use a smaller grid spacing of approximately 1 km and perhaps limit the extent of the modeling domain.

Due to the size of the modeling domain used for this analysis, a Lambert Conformal Conic (LCC) coordinate system is proposed. The LCC projection is used because it accounts for the curvature of the Earth's surface. The LCC projection for this analysis is based on the WGS-84 datum and standard parallels of 30° N and 60° N, with an origin of 39.41° N and 117.66° W.

3.1.3 CALMET Processing

In accordance with the IWAQM Phase II guidance, CALMET Version 5.8 (level 070623), the CALPUFF meteorological pre-processor, will be used to simulate three years (2001, 2002, and 2003) of meteorological conditions. For the hourly wind field initialization, CALMET will use gridded prognostic mesoscale meteorological (MM5) data available for all years.

For the prognostic MM5 data, 2001 and 2003 are available at a 36 km resolution and 2002 is available at a 12 km resolution within the modeling domain. The years of MM5 data, 2001-2003, are being proposed because these years are consistent with those proposed as a part of the regional RPO BART assessments.

These gridded meteorological data sets will initially be combined with 3-km grid resolution terrain and land use data to more accurately characterize the wind flow throughout the modeling domain. ENSR may determine that finer grid resolution is needed in the vicinity of high terrain in specific cases. The 3-km gridded terrain data will be derived from United States Geological Survey (USGS) 1:250,000 (3 arc second or 90-meter grid spacing) Digital Elevation Model (DEM) files and the TERREL pre-processor program. The gridded land use data will be derived from USGS 1:250,000 Composite Theme Grid (CTG) landuse files. Figures 3-2 and 3-3 show an approximate depiction of the terrain and land use, respectively, as characterized throughout the modeling domain.

The Step 2 wind field will be produced using the input of all available National Weather Service (NWS) hourly surface and twice daily upper air balloon sounding data within and just outside the modeling domain. Hourly surface data from both first-order and second-order stations will also be considered in this analysis. Other sources of meteorological data such as CASTNET or Air Quality Management District (AQMD) data will be used to supplement areas lacking NWS or second-order data.

There is a vast coverage and availability of hourly meteorological data from AQMD monitoring stations within the proposed modeling domain. Only AQMD stations with greater than 80% data capture, more than 10 km away from a NWS stations, and deemed to have added benefit in defining the Step 2 CALMET wind field were included. A plot of the surface stations proposed for use in CALMET is shown in Figure 3-4.

Hourly precipitation data from stations within and just outside of the modeling domain will be taken from a National Climatic Data Center (NCDC) data set for purposes of wet scavenging of the plume and wet deposition calculations. A list of all meteorological stations is provided in Attachment 2.

3.1.4 Receptors

Receptors from the National Park Service (NPS) database of Class I receptors will be used for this modeling analysis (found at: http://www2.nature.nps.gov/air/maps/Receptors/index.htm).

3.2 Assessing Air Quality Impacts at Class I Areas

3.2.1 Background Air Quality Data

The CALPUFF refined modeling will be conducted with hourly background ozone data from the closest monitors (see Figure 3-5) and monthly average ammonia background values. In the absence of hourly ozone data for all 40 stations during a particular hour, the model default of 80 ppb will be used. The background ammonia concentration will initially be taken from the IWAQM Phase 2 guidance's list of suggested values (see below). IWAQM guidance provides the following values for background ammonia concentrations:

- Grasslands – 10 ppb
- Forest – 0.5 ppb
- Arid Lands @ 20° C – 1 ppb.

Figure 3-3 indicates a predominance of forest cover within the Class I areas which would warrant the use of 0.5 ppb as the ammonia background value. However, 1.0 ppb will be used as a conservative initial estimate.

Note that the developer of the CALPUFF model, Joe Scire, has indicated that the chemical equilibrium between particle nitrates and gaseous nitric acid has a fast reaction time to local ammonia concentrations.

Therefore, the ammonia concentration in the Class I areas themselves are relevant, not the concentrations in other areas. So, if needed, refinements to the IWAQM ammonia background concentration will be considered due to observed seasonal variations in the background ammonia levels.

3.2.2 Class I PSD Increment Values

CALPUFF and CALPOST will be used with CALMET meteorological data to assess maximum concentrations of PM10 and NO_2 due to emissions from the proposed combustion turbine stacks at San Gabriel, WA and Cucamonga, WA. Initially, it will be conservatively assumed that 100 percent of the NO_X emissions are converted to NO_2, but a national default conversion rate of 75 percent will be used to more accurately assess modeled NO_2 impacts, if a more refined analysis is necessary. The modeled concentrations at all receptors within the Class I areas will be documented and compared to the proposed significant impact level (SIL) shown in Table 3-1.

Table 3-1 Proposed[a] Class I Area NO_2 Significant Impact Level

Pollutant	24-hour[b] (µg/m^3)	Annual[b] (µg/m^3)
PM10	0.3	0.2
NO_2	n/a	0.1

a. EPA proposed New Source Review reform, FR 7/23/96.
b. Highest arithmetic mean concentration at any receptor.

3.2.3 Regional Haze

CALPUFF and CALPOST processing will be used for the regional haze analysis to compute the maximum 24-hour average light extinction due to SO_2, SO_4, NO_X, and PM10/PM2.5 emissions from the new turbine stacks at Cucamonga, WA. Since San Gabriel, WA is located within 50 km a visible plume analysis (discussed in Section 4.0) will be conducted instead of a CALPUFF regional haze analysis as recommended by IWAQM.

The computation of incremental background light extinction due to PHPP's emissions will use the option to calculate extinction from speciated particulate matter measurements, by applying the EPA-recommended hourly relative humidity adjustment factors to background and modeled sulfate and nitrate (MVISBK=2). The EPA-recommended hourly relative humidity adjustment factors will also be used and were published in September 2003 "Guidance for Tracking Progress Under the Regional Haze Rule" (EPA, 2003). FLAG guidance recommends that the hygroscopic particle growth curve be capped when the relative humidity exceeds 98 percent, although the FLMs are now allowing a cap of 95%. This cap is also consistent with monitoring guidance in support of the IMPROVE program that flags nephalometer measurements with relative humidities of at least 95% (and transmissometer measurements with relative humidities of at least 90%) as correspond to hours with meteorological interferences. Therefore, for this analysis, ENSR proposes to cap the particle growth curve at 95 percent relative humidity.

In order to determine a percent change in light extinction due to the project-related emission increase, a reference background light extinction must be quantified. To assess impacts from PHPP, ENSR initially proposes to use the background values specified in the FLAG guidance document of 0.6 and 4.5 Mm-1 for hygroscopic and non-hygroscopic particles, respectively.

As noted in FLAG (2000), if a project-related change in extinction is less than 5 percent of the background extinction, then the project's regional haze impact is determined to be insignificant and no further modeling is required to demonstrate no adverse impact. If the project-related change in extinction exceeds 5 percent,

then further analysis is warranted. For that purpose, we would consider an alternative analysis for additional information to be considered by the permitting authority and the FLMs, as noted below. The reviewers will then analyze the information being submitted and consider whether a conclusion of no adverse impact is reasonable.

Additional model refinements/methods may also be considered, such as:

(1) The use of a finer scale modeling grid, which may be especially appropriate where the interaction between the emitted puffs and the terrain surrounding the source or the Class I area may not be well characterized with the initial grid spacing. ENSR has found that a reduced the grid size, to as low as 500 meters for nearby Class I areas with intervening terrain, provides a better depiction of terrain and would naturally result in a superior wind field.

(2) The use of more refined monthly average ammonia concentrations that tend to be lowest in the winter and highest in the summer.

(3) An alternative regional haze analysis consistent with the BART method may also be considered. This approach has been presented in various venues by the FLMs as an alternative to the FLAG screening approach that is designed to assess visibility impacts at Class I areas. This BART approach uses Method 6 along with monthly average f(RH) values and reports the 98th percentile day (8th highest for each year, and 22nd highest over 3 years) to determine whether the proposed project has an impact over a 5 percent change in extinction at the 98th percentile value. A "Tier 1" approach uses the best 20 percent background extinction for comparison, while a "Tier 2" approach uses the annual average background extinction. The FLMs have suggested that if a source's impacts are below a 5 percent change in extinction at the 98th percentile value for each year modeled, that they would likely not object to the PSD permit being issued.

3.2.4 Acidic Deposition

CALPUFF and CALPOST will be applied to obtain upper limit estimates of annual wet and dry deposition of nitrogen compounds (kg/ha/yr) associated with emissions from the new turbine stacks at San Gabriel, WA and Cucamonga, WA. Specifically, CALPUFF will be used to model both wet and dry deposition of NO_3 and HNO_3 as well as dry deposition of NO_X to estimate the maximum annual wet and dry deposition of nitrogen (N) at the Class I areas.

The deposition results will be documented for evaluation. However, it is noted that the United States Department of Agriculture Forest Service web site (http://www.fs.fed.us/r6/aq/natarm/document.htm) indicates that the minimum detectable level for measuring an increase in wet deposition of sulfates or nitrates is 0.5 kg/ha/yr. For conservatism, the Forest Service recommends a significance level of one tenth of this minimum detectable level, or 0.05 kg/ha/yr. The FLM has also recently developed a Deposition Analysis Threshold (DAT) of 0.005 kg/ha/yr in the west (FLAG, 2002 – Western US; DAT = 0.01 kg/ha/yr – Eastern US) to be used as a threshold for further analysis by the FLM, rather than as an adverse impact threshold (Porter, 2004). Since all Class I areas to be assessed in this analysis are west of the Mississippi River, the selected DAT for PHPP is 0.005 kg/ha/yr.

It is important to note that the DAT value was established because the FLMs are concerned that, over time, cumulative deposition from emission sources may produce impacts upon Class I areas that are of concern. The FLMs need to have a reasonable assurance that cumulative deposition from all new sources does not exceed 50% of natural background. Natural background in eastern Class I areas is 0.5 kg/ha/yr. This value was multiplied by 0.5 to attain 50% of natural background and by 0.04 which is a safety factor to account for cumulative new source growth consisting of 25 identical facilities in the area of concern (0.5 x 0.5 x 0.04 = 0.01). Therefore the use of a 0.005 kg/ha/yr threshold of concern for a new PSD source is very conservative due to the assumption of cumulative growth and due to not considering a substantial reduction in deposition from reductions in SO_2 emissions from the BART rule.

3.2.5 PM2.5 Analysis

Based on comments received for a similar project PSD permit application from EPA Region IX, PHPP will provide modeling results for total PM2.5 (primary plus secondary) at San Gabriel, WA and Cucamonga, WA. The CALPUFF modeled sulfate and nitrate concentrations will be used as a surrogate to estimate the amount of ammonium sulfate and ammonium nitrate, the secondary PM2.5. The secondary sulfate and nitrate concentrations will then be scaled by the ratio of their respective molecular weights to the molecular weights of ammonium sulfate and ammonium nitrate using CALPUFF's post-processing package, POSTUTIL. The respective scaling factors are 1.38 for sulfate and 1.29 for nitrate. In addition to combining the scaled sulfate and nitrate, the primary PM2.5 will be added to estimate the total contribution at each receptor due to the primary and secondary PM2.5. For conservatism, it will initially be assumed that the total primary PM10 concentrations will be used as a surrogate for the primary PM2.5 concentrations.

The total PM2.5 concentrations will be documented for informational purposes only.

Figure 3-1 Extent of Proposed Computational and Meteorological Grid for CALPUFF Modeling

Figure 3-2 Terrain as Characterized throughout the Modeling Domain (looking NE)

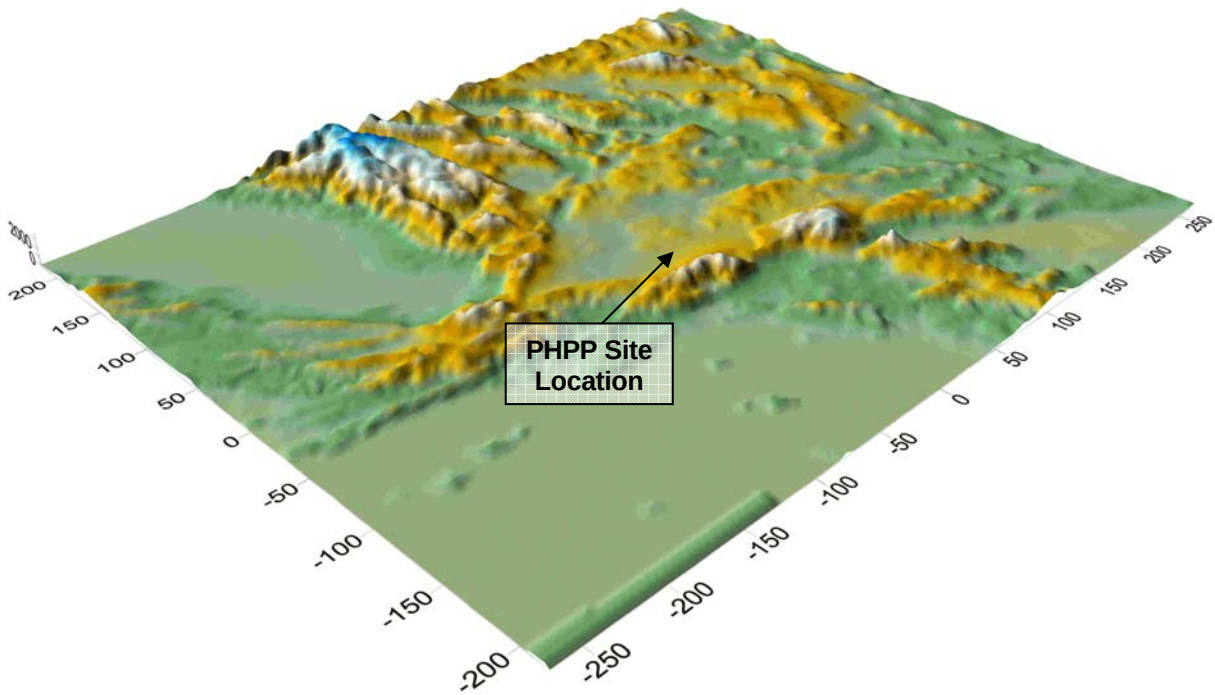


Figure 3-3 Landuse as Characterized throughout the Modeling Domain

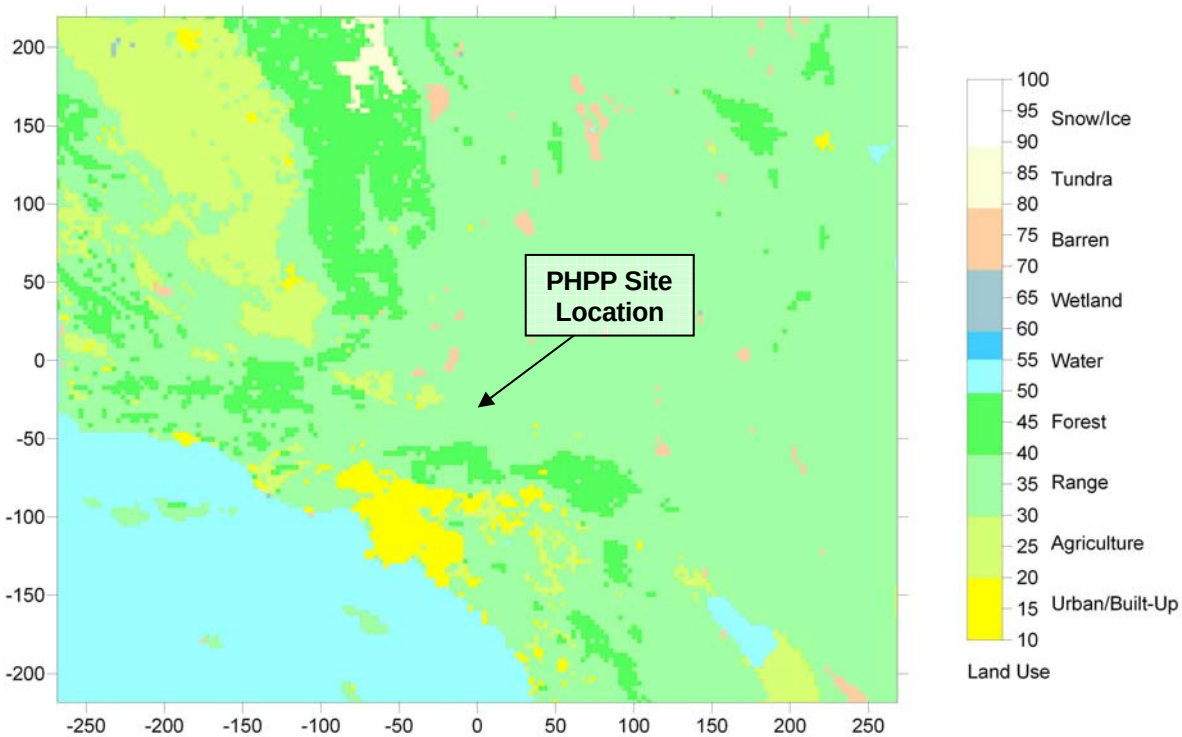


Figure 3-4 Location of 1st and 2nd Order NWS, Buoy, and AQMD Meteorological Stations Proposed for CALMET

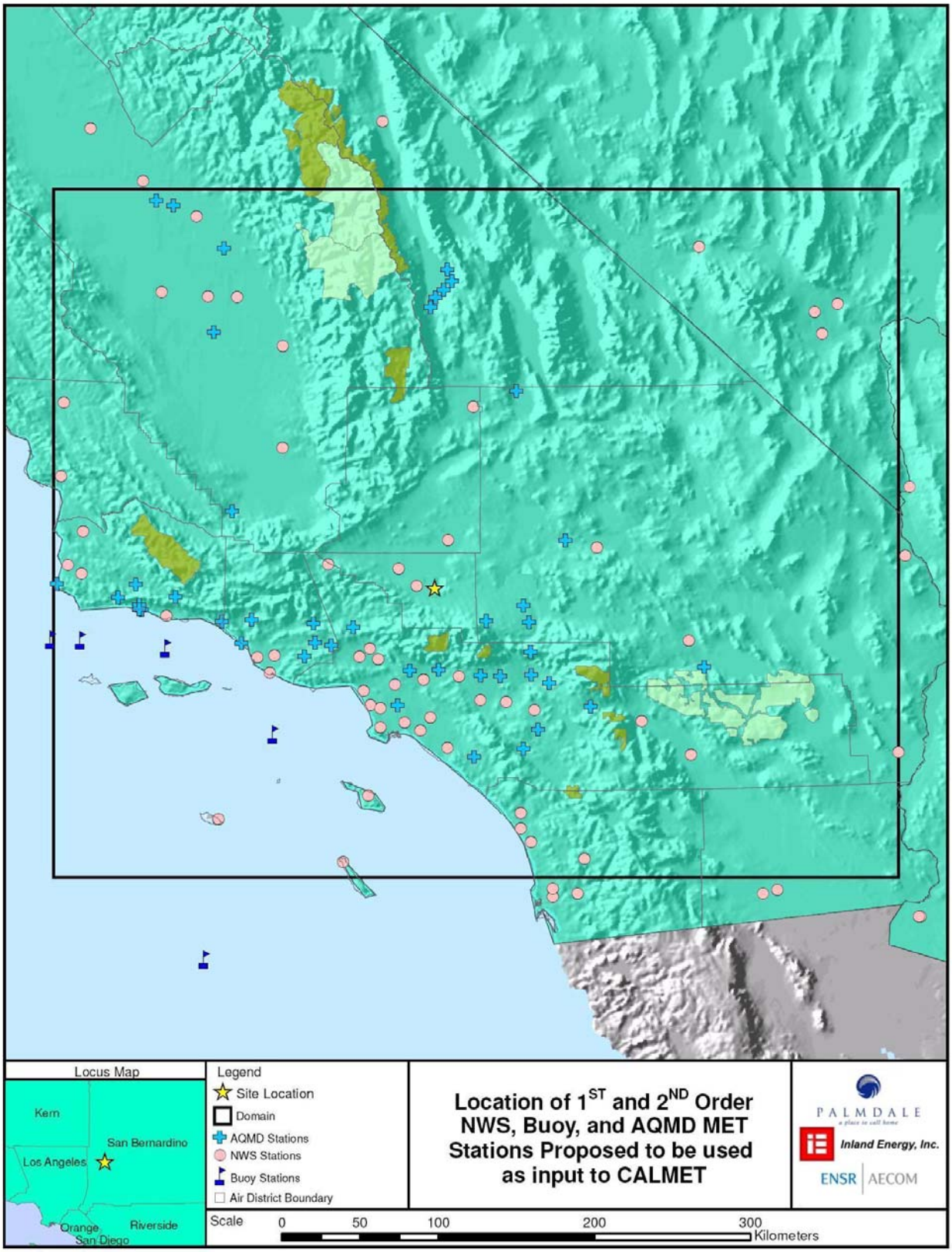
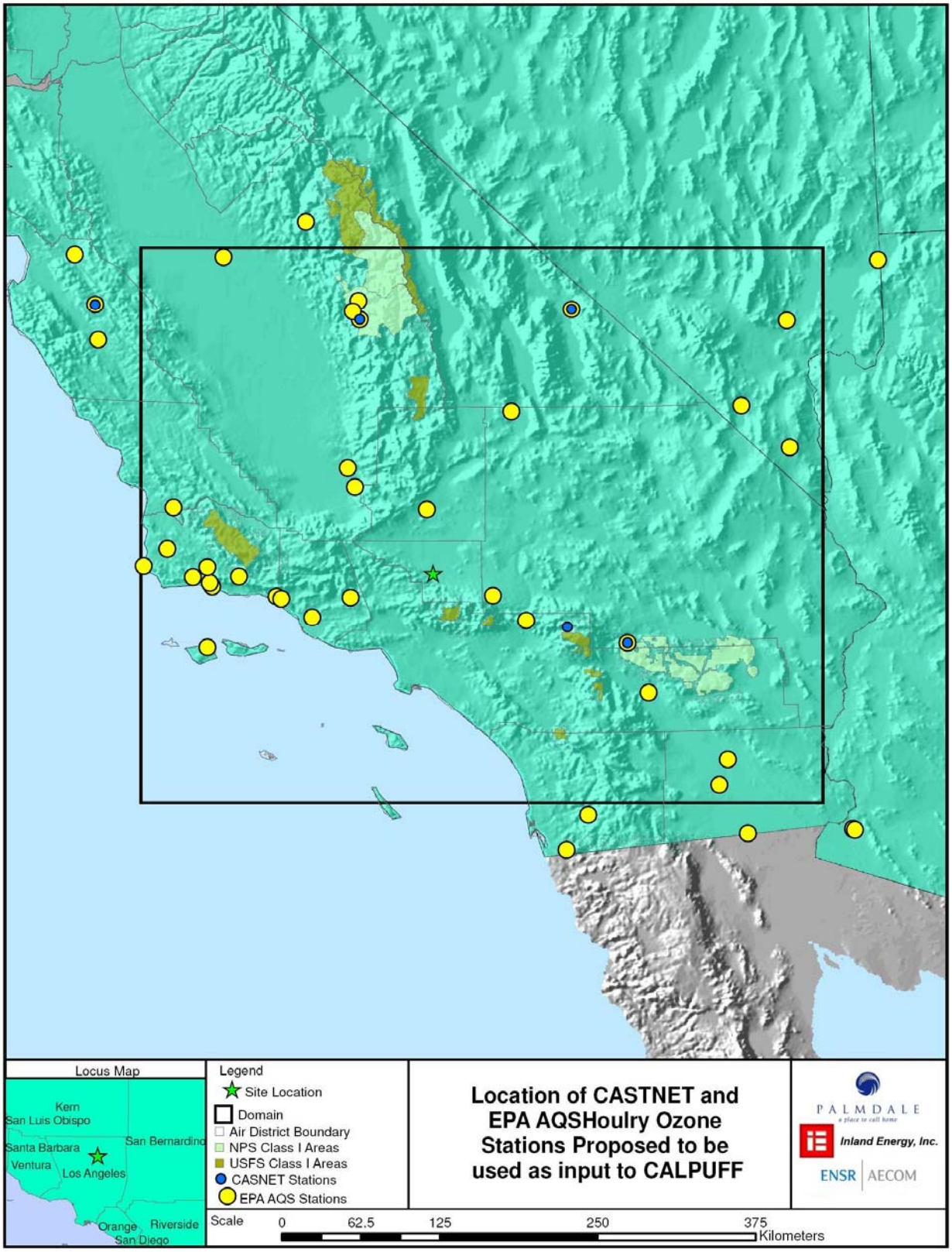


Figure 3-5 Location of CASTNET and EPA AQS Hourly Ozone Stations Proposed to be used as Input to CALPUFF



4.0 VISCREEN Analysis

The PSD regulation requires an analysis of visibility impairment (i.e., plume blight) at Class I areas within 50 km of a proposed PSD project. San Gabriel, WA is located within 50 km (see Figure 1-1), therefore in addition to regional haze assessed with CALPUFF, visible plume impacts will also be addressed for this Class I area. The plume visibility analysis will be conducted with the most current version of EPA's screening model VISCREEN to determine if project emissions will impair visibility at the Cucamonga, WA. VISCREEN will be applied with the guidance provided in EPA's Workbook for Plume Visual Impact Screening and Analysis (Revised, 1992) ("Workbook"). As such the VISCREEN model will be applied to estimate two visual impact parameters, plume perceptibility (ΔE) and plume contrast (Cp). Screening-level guidance indicates that values above 2.0 for ΔE and +/- 0.05 for Cp are considered perceptible. The Workbook offers two levels of analysis. Level 1 screening analysis which is the most simplified and conservative approach employing default meteorological data with no site specific conditions, and Level 2 analysis which takes into account representative meteorological data and site specific conditions such as complex terrain. Initially, a Level 1 analysis will be conducted and if necessary Level 2 will be conducted as a refinement.

5.0 References

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Attachment 1

Guidance from the NPS Regarding Speciation of PM10 Emissions

Consensus Gas-fired Turbine Example

Example of Consensus Approach where H2SO4 emissions are not provided by applicant
Applicant's estimates are in **BOLD**.

	Heat Input	Filterable PM (25% Estimate)		Condensible PM (75% Estimate)		Total PM (Applicant)		SO2 (Applicant)		
Turbine	(mmBtu/hr)	(lb/mmBtu)	(lb/hr)	(lb/mmBtu)	(lb/hr)	(lb/mmBtu)	(lb/hr)	(gr/100scf)		(lb/hr)
GE 7FA	**1887**		2.43		7.28		**9.70**	2.0		**3.10**

SO4
(lb/hr)
1.55

SO2 (Applicant-33%)
(lb/hr)
2.07

Organic Carbon
(lb/hr)
5.73

Impact of Consensus Combined Cycle Turbine Example on Extinction

Type	Name	Extinction Coef.	f(RH)*	Efficiency	Emissions (lb/hr)	Total Relative bext 1/Mm	
Filterable	EC	10		10	2.43	24.25	
Inorganic CPM	SOIL	1		1		0.00	
Inorganic CPM	SO4	3	2	6	1.55	9.30	* f(RH) will vary
Organic CPM	SOA	4		4	5.73	22.90	
						56.45	

comparison from AP-42

	Heat Input	Filterable PM (AP-42)		Condensible PM (AP-42)		Total PM (AP-42)		SO2 (AP-42)		
Turbine	(mmBtu/hr)	(lb/mmBtu)	(lb/hr)	(lb/mmBtu)	(lb/hr)	(lb/mmBtu)	(lb/hr)	(lb/mmBtu)	%S	(lb/hr)
GE 7FA	1887	0.0019	3.59	0.0047	8.87	0.0066	12.45	0.94	0.004	6.42

Attachment 2

Detailed Station Information Proposed as Input to CALMET and CALPUFF

Palmdale Hybrid Power Project:

NWS and AQMD Hourly Surface Stations Proposed for Input to CALMET

State	Station Name	Station ID	Latitude	Longitude	Elevation
NWS Stations					
AZ	AVALON/CATALINA	722920	33.400	-118.410	481
AZ	BAKERSFIELD MEADOWS	723840	35.430	-119.050	149
AZ	BISHOP AIRPORT	724800	37.360	-118.350	1250
CA	BLYTHE RIVERSIDE CO	747188	33.610	-114.710	118
CA	BULLHEAD CITY	723788	35.160	-114.560	167
CA	BURBANK-GLENDALE-PA	722880	34.200	-118.350	225
CA	CAMARILLO (AWOS)	723926	34.210	-119.080	23
CA	CAMP PENDLETON MCAS	722926	33.300	-117.350	22
CA	CARLSBAD/PALOMAR	722927	33.130	-117.280	100
CA	CHINA LAKE NAF	746120	35.680	-117.680	676
CA	CHINO AIRPORT	722899	33.960	-117.630	198
CA	DAGGETT BARSTOW-DAG	723815	34.850	-116.800	585
CA	EDWARDS AFB	723810	34.900	-117.860	705
CA	EL MONTE	747043	34.080	-118.030	90
CA	EL MONTE EMSU	747040	34.080	-118.030	91
CA	FRESNO YOSEMITE INT	723890	36.780	-119.710	101
CA	FULLERTON MUNICIPAL	722976	33.860	-117.980	29
CA	HANFORD MUNI ARPT	723898	36.310	-119.610	75
CA	HAWTHORNE MUNICIPAL	722956	33.910	-118.330	19
CA	IMPERIAL	747185	32.830	-115.580	17
CA	LA VERNE/BRACKETT	722887	34.100	-117.780	308
CA	LANCASTER GEN WM FO	723816	34.730	-118.210	712
CA	LAS VEGAS MCCARRAN	723860	36.080	-115.150	648
CA	LEMOORE REEVES NAS	747020	36.330	-119.950	73
CA	LOMPOC (AWOS)	722895	34.660	-120.460	27
CA	LONG BEACH DAUGHERT	722970	33.830	-118.160	7
CA	LOS ALAMITOS	722975	33.780	-118.050	11
CA	LOS ANGELES DOWNTOW	722874	34.050	-118.230	82
CA	LOS ANGELES INTL AR	722950	33.930	-118.400	30
CA	MADERA	745046	36.980	-120.110	77
CA	MARCH AFB	722860	33.900	-117.250	462
CA	MERCED/MACREADY FLD	724815	37.280	-120.510	47
CA	MERCURY DESERT ROCK	723870	36.610	-116.030	1006
CA	N LAS VEGAS	724846	36.210	-115.200	671
CA	NEEDLES AIRPORT	723805	34.760	-114.610	278
CA	NELLIS AFB	723865	36.250	-115.030	573
CA	OCEANSIDE MUNICIPAL	722934	33.210	-117.350	9
CA	OXNARD	723927	34.200	-119.200	11
CA	PALM SPRINGS RGNL	722868	33.830	-116.500	141
CA	PALM SPRINGS THERMA	747187	33.630	-116.160	34
CA	PALMDALE AIRPORT	723820	34.630	-118.080	769
CA	PASO ROBLES MUNICIP	723965	35.660	-120.630	243
CA	POINT MUGU NF	723910	34.110	-119.110	3
CA	PORTERVILLE (AWOS)	723895	36.030	-119.060	135
CA	PT.PIEDRAS BLANCA	723900	35.660	-121.280	21
CA	RAMONA	745056	33.030	-116.910	424
CA	RIVERSIDE MUNICIPAL	722869	33.950	-117.450	249
CA	SAN CLEMENTE IS NAA	722925	33.010	-118.580	52
CA	SAN DIEGO MIRAMAR N	722930	32.860	-117.130	139

Palmdale Hybrid Power Project:

NWS and AQMD Hourly Surface Stations Proposed for Input to CALMET

State	Station Name	Station ID	Latitude	Longitude	Elevation
CA	SAN DIEGO/GILLESPIE	722907	32.830	-116.960	117
CA	SAN DIEGO/MONTGOMER	722903	32.810	-117.130	129
CA	SAN LUIS OBISPO	722897	35.230	-120.630	64
CA	SAN NICHOLAS ISLAND	722910	33.250	-119.450	173
CA	SANDBERG	723830	34.750	-118.710	1376
CA	SANTA ANA JOHN WAYN	722977	33.680	-117.860	16
CA	SANTA BARBARA MUNIC	723925	34.430	-119.850	2
CA	SANTA MARIA PUBLIC	723940	34.910	-120.460	77
CA	SANTA MONICA MUNI	722885	34.010	-118.450	53
CA	TORRANCE MUNICIPAL	722955	33.800	-118.330	27
CA	TWENTYNINE PALMS	690150	34.300	-116.160	626
CA	VAN NUYS AIRPORT	722886	34.210	-118.480	234
CA	VANDENBERG RANGE	723935	34.710	-120.560	100
NV	VISALIA MUNI (AWOS)	723896	36.310	-119.400	89
NV	WHITEMAN ARPT	745057	34.260	-118.410	306
NV	YUMA INTL AIRPORT	722800	32.650	-114.600	62
NV	YUMA MCAS	699604	32.650	-114.610	64
AQMD Stations					
CA	Barstow	060710001	34.894	-117.024	690
CA	Maricopa-Stanislaus Street	060290008	35.051	-119.403	297
CA	Santa Clarita	060376012	34.383	-118.528	397
CA	Fresno-Sierra Skypark #2	060190242	36.842	-119.883	65
CA	Parlier	060194001	36.598	-119.504	78
CA	Olancha-Walker Creek Road	060270021	36.266	-117.992	1100
CA	Dirty Sox	060270022	36.326	-117.955	1060
CA	Flat Rock-Highway 190	060270024	36.422	-117.837	1133
CA	Shell Cut-Highway 190	060270025	36.368	-117.898	1104
CA	Keeler-Cerro Gordo Road	060271003	36.488	-117.871	1097
CA	Corcoran-Patterson Avenue	060310004	36.102	-119.566	61
CA	Azusa	060370002	34.136	-117.924	183
CA	Lynwood	060371301	33.929	-118.211	27
CA	Pasadena-S Wilson Avenue	060372005	34.132	-118.128	250
CA	Madera-Pump Yard	060390004	36.867	-120.010	85
CA	Mission Viejo-26081 Via Pera	060592022	33.630	-117.676	161
CA	Banning Airport	060650012	33.921	-116.858	473
CA	Perris	060656001	33.789	-117.228	439
CA	Lake Elsinore-W Flint Street	060659001	33.676	-117.331	1440
CA	Crestline	060710005	34.241	-117.276	1384
CA	Phelan-Beekley Road & Phelan	060710012	34.425	-117.590	1250
CA	Twentynine Palms-Adobe Road #	060710017	34.142	-116.055	607
CA	Victorville-14306 Park Avenue	060710306	34.512	-117.325	913
CA	Upland	060711004	34.103	-117.629	369
CA	Trona-Athol and Telegraph	060711234	35.774	-117.372	545
CA	Fontana-Arrow Highway	060712002	34.101	-117.492	381
CA	Hesperia-Olive Street	060714001	34.416	-117.286	1006
CA	Redlands-Dearborn	060714003	34.059	-117.148	481
CA	San Bernardino-4th Street	060719004	34.107	-117.274	305
CA	El Capitan Beach	060830008	34.462	-120.026	24
CA	Paradise Road-Los Padres Nati	060831014	34.542	-119.791	547
CA	Gaviota-GTC Site B	060831018	34.528	-120.196	305

Palmdale Hybrid Power Project:

NWS and AQMD Hourly Surface Stations Proposed for Input to CALMET

State	Station Name	Station ID	Latitude	Longitude	Elevation
CA	Carpinteria-Gobernador Road	060831021	34.403	-119.457	137
CA	Las Flores Canyon #1	060831025	34.490	-120.046	189
CA	Las Flores Canyon-Odor	060831037	34.464	-120.046	26
CA	Santa Ynez-Airport Road	060833001	34.608	-120.073	210
CA	Vandenberg Air Force Base-STS	060834003	34.596	-120.633	100
CA	Thousand Oaks-Moorpark Road	061110007	34.210	-118.870	232
CA	Simi Valley-Upper Air	061110008	34.291	-118.798	278
CA	Piru-3301 Pacific Avenue	061110009	34.404	-118.810	190
CA	Ojai-Ojai Avenue	061111004	34.417	-119.246	262
CA	Simi Valley-Cochran Street	061112002	34.276	-118.684	310
CA	Ventura-Emma Wood State Beach	061112003	34.281	-119.315	3
Note: Stations availability may vary slightly year to year.					

Palmdale Hybrid Power Project:

Upper Air Stations Proposed for Input to CALMET

WBAN	Name	Latitude	Longitude	Time Zone
93214	VANDENBERG AFB	34.717	-120.567	8
03190	SAN DIEGO MIRAMAR WSCMO	32.833	-117.117	8
03160	MERCURY DESERT ROCK AP	36.621	-116.028	8

Palmdale Hybrid Power Project:

Hourly Precipitation Stations Proposed for Input to CALMET

State	County	ID	Name	Elevation	Latitude	Longitude
CA	LOS ANGELES	14	ACTON ESCONDIDO FC261	2970.0	34.495	-118.271
CA	SAN LUIS OBISPO	321	ARROYO GRANDE 11 ENE	900.0	35.184	-120.398
CA	TULARE	422	BADGER	3060.0	36.629	-119.012
CA	KERN	442	BAKERSFIELD AP	489.0	35.434	-119.054
CA	RIVERSIDE	606	BEAUMONT	2613.0	33.929	-116.975
CA	SAN BERNARDINO	742	BIG BEAR LAKE DAM	6815.0	34.241	-116.974
CA	KERN	979	BORON	2455.0	35.004	-117.650
CA	ORANGE	1057	BREA DAM	275.0	33.891	-117.926
CA	LOS ANGELES	1194	BURBANK VALLEY PUMP PLA	655.0	34.187	-118.348
CA	SANTA BARBARA	1253	CACHUMA LAKE	781.0	34.583	-119.981
CA	SAN BERNARDINO	1272	CAJON WEST SUMMIT	4780.0	34.390	-117.593
CA	SAN BERNARDINO	1369	CAMP ANGELUS	5770.0	34.149	-116.980
CA	ORANGE	1518	CARBON CANYON GILMAN	1624.0	33.923	-117.778
CA	SANTA BARBARA	1540	CARPINTERIA RESERVOIR	385.0	34.406	-119.485
CA	LOS ANGELES	1682	CHATSWORTH RESERVOIR	910.0	34.225	-118.618
CA	VENTURA	1754	CHUCHUPATE RANGER STN	5260.0	34.808	-119.011
CA	FRESNO	1864	COALINGA	670.0	36.136	-120.361
CA	KINGS	2012	CORCORAN IRRIG DIST	200.0	36.098	-119.582
CA	SAN BERNARDINO	2164	CRESTLINE FIRE STATION	4560.0	34.243	-117.271
CA	SAN BERNARDINO	2255	DAGGETT POWER PLANT	1970.0	34.861	-116.856
CA	SAN BERNARDINO	2257	DAGGETT AP	1917.0	34.854	-116.786
CA	RIVERSIDE	2805	ELSINORE	1285.0	33.669	-117.332
CA	SAN BERNARDINO	2895	ETIWANDA	1390.0	34.132	-117.524
CA	SANTA BARBARA	3048	FIGUEROA MOUNTAIN	3200.0	34.735	-120.007
CA	VENTURA	3219	FRAZIER PARK 9 SW	5150.0	34.733	-119.104
CA	ORANGE	3285	FULLERTON DAM	340.0	33.896	-117.888
CA	SANTA BARBARA	3402	GIBRALTAR DAM 2	1550.0	34.523	-119.682
CA	KERN	3465	GLENNVILLE FULTON R S	3500.0	35.725	-118.680
CA	LOS ANGELES	3751	HANSEN DAM	1087.0	34.261	-118.385
CA	RIVERSIDE	3855	HAYFIELD PUMPING PLANT	1370.0	33.704	-115.629
CA	RIVERSIDE	4181	HURKEY CREEK PARK	4390.0	33.676	-116.679
CA	RIVERSIDE	4211	IDYLLWILD FIRE DEPT	5380.0	33.757	-116.707
CA	SAN BERNARDINO	4297	IRON MOUNTAIN	922.0	34.147	-115.122
CA	ORANGE	4650	LAGUNA BEACH NO 2	210.0	33.557	-117.801
CA	LOS ANGELES	4749	LANCASTER ATC	2338.0	34.741	-118.212
CA	TULARE	5026	LODGEPOLE	6735.0	36.604	-118.733
CA	INYO	5067	LONE PINE COTTONWOOD PH	3790.0	36.443	-118.043
CA	LOS ANGELES	5085	LONG BEACH DAUGHERTY AP	31.0	33.812	-118.146
CA	KERN	5100	LORAINE 5 NNE	4235.0	35.384	-118.412
CA	LOS ANGELES	5114	LOS ANGELES INTL AP	97.0	33.938	-118.389
CA	LOS ANGELES	5115	LOS ANGELES DOWNTOWN	230.0	34.051	-118.235
CA	KERN	5151	LOST HILLS	288.0	35.617	-119.689
CA	SAN BERNARDINO	5218	LYTLE CREEK R S	2730.0	34.238	-117.471
CA	VENTURA	5417	MATILIJA DAM	1060.0	34.484	-119.306
CA	SAN BERNARDINO	5632	MILL CREEK INTAKE	4945.0	34.091	-116.936
CA	LOS ANGELES	5637	MILL CREEK SUMMIT R S	5020.0	34.393	-118.075
CA	TULARE	5669	MILO 5 NE	3100.0	36.276	-118.768
CA	KERN	5756	MOJAVE	2735.0	35.049	-118.162
CA	SANTA BARBARA	6154	NEW CUYAMA FIRE STN	2160.0	34.946	-119.683
CA	LOS ANGELES	6162	NEWHALL S FC32CE	1243.0	34.387	-118.534
CA	SAN DIEGO	6319	OAK GROVE R S	2750.0	33.386	-116.792
CA	SAN DIEGO	6379	OCEANSIDE PUMPING PLT	30.0	33.210	-117.354
CA	ORANGE	6473	ORANGE COUNTY RESERVOIR	660.0	33.938	-117.885
CA	VENTURA	6572	OXNARD WSFO	63.0	34.211	-119.139
CA	VENTURA	6577	OZENA GUARD STATION	3590.0	34.683	-119.353
CA	LOS ANGELES	6624	PALMDALE	2596.0	34.588	-118.094

Palmdale Hybrid Power Project:

Hourly Precipitation Stations Proposed for Input to CALMET

State	County	ID	Name	Elevation	Latitude	Longitude
CA	SAN DIEGO	6657	PALOMAR MOUNTAIN OBSRVT	5550.0	33.378	-116.840
CA	SAN LUIS OBISPO	6742	PASO ROBLES MUNI AP	810.0	35.670	-120.628
CA	VENTURA	6910	PINE MOUNTAIN INN	4220.0	34.610	-119.367
CA	VENTURA	6942	PIRU TELEMETERING	800.0	34.400	-118.705
CA	RIVERSIDE	7123	PRADO DAM	560.0	33.890	-117.645
CA	RIVERSIDE	7473	RIVERSIDE CITRUS EXP ST	986.0	33.967	-117.361
CA	SAN BERNARDINO	7600	RUNNING SPRINGS 1 E	5965.0	34.207	-117.086
CA	LOS ANGELES	7762	SAN FERNANDO PH 3	1250.0	34.313	-118.492
CA	LOS ANGELES	7779	SAN GABRIEL DAM FC425B	1481.0	34.205	-117.861
CA	RIVERSIDE	7813	SAN JACINTO RS	1560.0	33.787	-116.958
CA	ORANGE	7837	SAN JUAN GUARD STN	730.0	33.592	-117.513
CA	SANTA BARBARA	7859	SAN MARCOS PASS	2300.0	34.512	-119.823
CA	SANTA BARBARA	7902	SANTA BARBARA	5.0	34.417	-119.684
CA	LOS ANGELES	7926	SANTA FE DAM	425.0	34.112	-117.971
CA	SANTA BARBARA	7946	SANTA MARIA PUBLIC AP	242.0	34.899	-120.449
CA	SANTA BARBARA	7976	SANTA YNEZ	600.0	34.608	-120.069
CA	ORANGE	7987	SANTIAGO DAM	855.0	33.787	-117.722
CA	RIVERSIDE	7993	SANTIAGO PEAK	5638.0	33.711	-117.536
CA	LOS ANGELES	8092	SEPULVEDA DAM	680.0	34.166	-118.473
CA	LOS ANGELES	8230	SIGNAL HILL FC 415	100.0	33.797	-118.168
CA	ORANGE	8243	SILVERADO RANGER STATIO	1095.0	33.743	-117.660
CA	VENTURA	8261	SIMI SANITATION PLANT	660.0	34.284	-118.812
CA	LOS ANGELES	8436	SPADRA LANTERMAN HOSP	676.0	34.042	-117.810
CA	TULARE	8460	SPRINGVILLE R S	1050.0	36.142	-118.811
CA	TULARE	8463	SPRINGVILLE TULE HD	4070.0	36.193	-118.657
CA	SANTA BARBARA	8697	SURF 2 ENE	110.0	34.681	-120.536
CA	KERN	8832	TEHACHAPI AIRPORT	3960.0	35.131	-118.433
CA	RIVERSIDE	8844	TEMECULA	1020.0	33.497	-117.151
CA	RIVERSIDE	8893	THERMAL FIRE STN 39	-115.0	33.636	-116.164
CA	TULARE	8912	THREE RIVERS 6 SE	1935.0	36.368	-118.848
CA	TULARE	8917	THREE RIVERS EDISON PH	1140.0	36.465	-118.862
CA	ORANGE	8992	TRABUCO CANYON	970.0	33.658	-117.589
CA	TULARE	9120	UHL R S	3725.0	35.886	-118.646
CA	SAN BERNARDINO	9325	VICTORVILLE PUMP PLANT	2858.0	34.535	-117.306
CA	LOS ANGELES	9666	WHITTIER NARROWS DAM	200.0	34.020	-118.084
NV	CLARK	4436	LAS VEGAS AP	2127.0	36.079	-115.155
NV	CLARK	7369	SEARCHLIGHT	3540.0	35.466	-114.922
Note: Stations availability may vary slightly year to year.						

Palmdale Hybrid Power Project:

Buoy Stations Proposed for Input to CALMET

Name	Station ID	Latitude	Longitude
PT. CONCEPTION	46063	34.27	-120.66
SANTA BARBARA W	46054	34.27	-120.45
SANTA BARBARA E	46053	34.24	-119.85
SANTA MONICA BASIN	46025	33.75	-119.08
TANNER BANKS	46047	32.43	-119.53

Palmdale Hybrid Power Project:

CASTNET and EPA AQS Hourly Ozone Stations Proposed for Input to CALPUFF

CASTNET Stations					
State	County	Site ID	Station Name	Latitude	Longitude
CA	Inyo	DEV412	Death Valley NM	36.509	-116.848
CA	San Bernardino	JOT403	Joshua Tree NM	34.071	-116.391
CA	San Benito	PIN414	Pinnacles NM	36.485	-121.156
CA	Tulare	SEK402	Sequoia NP - Lookout Pt	36.429	-118.763
EPA AQS Stations					
State	City	Monitor ID	Address	Latitude	Longitude
AZ	Yuma	04-027-0005-44201-1	9500 South Ave 8e Az Western College	32.685	-114.492
AZ	Yuma	04-027-0006-44201-1	9140 E. 28th Street	32.678	-114.476
CA	Shaver Lake	06-019-0010-44201-1	North Perimeter Road	37.138	-119.267
CA	Calexico	06-025-0006-44201-1	Calexico - East	32.678	-115.390
CA	Westmorland	06-025-4003-44201-1	202 W First Street, Westmorland	33.033	-115.623
CA	Niland	06-025-4004-44201-1	7711 English Road, Niland	33.214	-115.544
CA	Death Valley National Monumen	06-027-0101-44201-1	Death Valley Nm, Death Valley, Ca	36.509	-116.848
CA	Edison	06-029-0007-44201-1	Johnson Farm, Edison, Ca. 93320	35.346	-118.851
CA	Mojave	06-029-0011-44201-1	923 Poole Street, Mojave, Ca 93501	35.051	-118.146
CA	Arvin	06-029-5001-44201-1	20401 Bear Mtn Blvd, Arvin, Ca., 93203	35.208	-118.784
CA	Madera	06-039-0004-44201-1	Rd. 29 1/2 No. Of Ave 8 Madera County	36.867	-120.010
CA	King City	06-053-0005-44201-1	750 Metz Road, King City, Ca 93930	36.228	-121.116
CA	Indio	06-065-2002-44201-1	46-990 Jackson St., Indio	33.709	-116.215
CA	Hollister	06-069-0002-44201-1	1979 Fairview Rd., Hollister	36.844	-121.361
CA	Pinnacles National Monument	06-069-0003-44201-1	Ne Entrance, Pinnacles Nm	36.485	-121.156
CA	Crestline (Census Name For Cre	06-071-0005-44201-1	Lake Gregory-Lake Dr, Crestline	34.243	-117.272
CA	Phelan	06-071-0012-44201-1	Beekley & Phelan Rds, Phelan	34.426	-117.563
CA	Trona	06-071-1234-44201-1	Corner Of Athol And Telescope	35.764	-117.396
CA	Yucca Valley	06-071-9002-44201-1	Joshua Tree National Monument	34.071	-116.391
CA	Alpine	06-073-1006-44201-1	2300 Victoria Dr., Alpine	32.833	-116.750
CA	Otay Mesa	06-073-2007-44201-1	1100 Paseo International, Otay Mesa, Ca	32.584	-116.938
CA	Nipomo	06-079-4002-44201-1	Nipomo Regional Park, Nipomo, Ca.	35.028	-120.387
CA	Capitan	06-083-0008-44201-1	El Capitan St Prk, Hwy 101, Capitan	34.462	-120.024
CA	Lompoc	06-083-1013-44201-1	Hs & P Facility-500 M Sw, Lompoc	34.726	-120.428
CA	Los Padres National Forest	06-083-1014-44201-1	Paradise Rd-Los Padres Nf	34.541	-119.791
CA	Gaviota	06-083-1018-44201-1	Gtc B-Hwy 101 Near Nojoqui Pass, Gaviota	34.528	-120.196
CA	Carpinteria	06-083-1021-44201-1	Gobernador Rd, Carpinteria	34.403	-119.458
CA	Capitan	06-083-1025-44201-1	Lfc #1-Las Flores Canyon, Capitan	34.490	-120.046
CA	Channel Islands National Park	06-083-2012-44201-1	Santa Rosa Island -Becher'S Bay	34.016	-120.050
CA	Santa Ynez	06-083-3001-44201-1	Airport Rd., Santa Ynez	34.603	-120.071
CA	Vandenberg Air Force Base	06-083-4003-44201-1	Sts Power Plant, Vandenberg Afb	34.596	-120.630
CA	Sequoia National Park	06-107-0006-44201-1	Lower Kaweah, Sequoia Np	36.567	-118.778
CA	Mineral King	06-107-0008-44201-1	Lookout Point, Mineral King Road	36.429	-118.763
CA	Sequoia National Park	06-107-0009-44201-1	Sequoia & Kings Canyon Np	36.489	-118.827
CA	Oak View	06-111-0005-44201-1	5500 Casitas Pass Rd, Near Oak View	34.387	-119.416
CA	Piru	06-111-0009-44201-1	3301 Pacific Avenue, Piru, Ca 93040	34.405	-118.810
CA	El Rio	06-111-3001-44201-1	Rio Mesa School, El Rio	34.255	-119.143
NV	North Las Vegas	32-003-0022-44201-1	Ne Of City-12101 Hwy 93/I15	36.391	-114.906
NV	Mesquite	32-003-0023-44201-1	465 E. Old Mill Road, Mesquite, Nv	36.808	-114.061
NV	Searchlight	32-003-0078-44201-1	103 Highway 95, Searchlight, Nv	35.465	-114.920
NV	Jean	32-003-1019-44201-1	T25s R59e S10	35.780	-115.340
Note: Stations availability may vary slightly year to year.					

APPENDIX G.6

Air Quality and Public Health Modeling Files (CD-ROM)

Provided on a Separate CD by Request Only

Air Quality Modeling File Folder Index:

Class I Modeling
- Calmet
  - 2001
  - 2002
  - 2003
  - Data
- Calpost
  - 2001
  - 2002
  - 2003
- Calpuff
- Ozone
- Postutil

Class II Modeling
- AERMAP
- AERMET
  - 2002
  - 2003
  - 2004
  - AERSURFACE
- AERMOD
  - Commissioning
  - Construction
    - 1-3hr SO2
    - 1-8hr CO
    - 1hr NOx-OLM
    - 24hr PM10
    - 24hr PM25
    - 24hr SO2
    - Annual NOx-OLM
    - Annual PM10
    - Annual PM25
    - Annual SO2
    - Time Restricted Construction Runs
      - 1hr NOx-OLM
      - 24hr PM10
      - 24hr PM25
      - Annual PM10
      - Annual PM25
  - Cumulative Inventory Files From AVAQMD
  - Cumulative Runs
    - CO
    - NOX
      - 1-hour
      - Annual
        - With Lockheed
        - Without Lockheed
    - PM10 and PM2.5
      - 24-hour
        - With Lockheed
        - Without Lockheed
      - Annual

With Northrop
Without Northrop
SO2
Annual
ShortTerm(1-3-24)

Normal Operations
CO
NOX
1-hour
Annual
PM10 and PM2.5
24-hour
Annual
SO2
Annual
ShortTerm(1-3-24)
Startup – Shutdown
Turbine Load Analysis
GEP Analysis
PCRAMMET

Vapor Plume Analyses
SACTI
VIZDET

VISCREEN
VISCREEN

Public Health HARP Modeling File Index

MEIR/ MEIW/ SENSITIVE

Rep_Can_70yr_DerAdj_AllRec_AllSrc_AllCh_ByRec.txt
Rep_Can_WRK_Avg_AllRec_AllSrc_AllCh_ByRec.txt
Rep_Can_9yrC_DerOEH_AllRec_AllSrc_AllCh_ByRec.txt
Rep_Chr_Res_DerOEH_AllRec_AllSrc_AllCh_ByRec.txt
Rep_Chr_WRK_PtEst_AllRec_AllSrc_AllCh_ByRec.txt
Rep_Acu_AllRec_AllSrc_AllCh_ByRec.txt

Cancer Risk Culpability Analysis

MEIR

Rep_Can_70yr_DerAdj_Rec115_AllSrc_AllCh_ByRec_ByChem.txt
Rep_Can_70yr_DerAdj_Rec115_AllSrc_AllCh_BySrc.txt

MEIW

Rep_Can_WRK_Avg_Rec131_AllSrc_AllCh_ByRec_ByChem.txt
Rep_Can_WRK_Avg_Rec131_AllSrc_AllCh_BySrc.txt

SENSITIVE (SCHOOL/PRESCHOOL/DAYCARE/ELDERLY CARE)

Rep_Can_9yrC_DerOEH_Rec22_AllSrc_AllCh_BySrc.txt
Rep_Can_9yrC_DerOEH_Rec22_AllSrc_AllCh_ByRec_ByChem.txt

Meteorological Data Files

PALMDL02.MET
PALMDL03.MET
PALMDL04.MET

HARP Transaction File

PHPP_HRA.tra

HARP Receptor File

PHPP_HRA.rec

APPENDIX G.7

Public Health Residential, Worker and Sensitive Receptor List

Receptor ID	Receptor Name	Receptor Type	UTM Easting (meters)	UTM Northing (meters)	Distance from Power Block (miles)	Direction with Respect to Power Block
1	Learning Adventures Preschool	Preschool	397016.51	3836645.90	2.09	Northwest
2	Learning Tree Preschool Eastside	Preschool	398118.84	3836888.76	1.99	North
3	Adventureland Preschool	Preschool	394776.28	3833055.44	2.47	West
4	Just Plane Kids	Preschool	400512.58	3829420.61	2.91	Southeast
5	Head Start State Preschool	Preschool	398120.14	3828692.46	3.15	South
6	Lilliput Nursery Academy	Preschool	397484.38	3837516.89	2.47	North
7	Early Childhood Education	Preschool	398685.15	3838390.91	2.89	North
8	La Petite Academy: Lancaster	Preschool	398038.25	3837887.85	2.61	North
9	Child Care Resource Center	Preschool	394797.50	3834918.52	2.53	West
10	Office @ West Avenue O	Worker	395282.00	3831031.00	2.70	Southwest
11	Lancaster Parent Cooperative Nursery	Daycare	395652.90	3837615.06	3.06	Northwest
12	Baker Family Daycare	Daycare	401974.10	3837512.45	3.11	Northeast
13	Antelope Valley Day Care	Daycare	399778.55	3837835.50	2.64	North
14	YMCA Child Care Center	Daycare	396758.76	3838179.36	3.01	Northwest
15	A Little Explorer's Day Care	Daycare	397401.76	3838327.46	2.96	North
16	Over the Rainbow Day Care	Daycare	398869.95	3838533.07	2.98	North
17	LFC Life Choices	Daycare	398118.84	3836888.76	1.99	North
18	Desert Christian Schools	School	398118.84	3836888.76	1.99	North
19	Jack Northrop Elementary School	School	398034.08	3837510.80	2.38	North
20	Lincoln Elementary School	School	398868.61	3838411.08	2.91	North
21	Joshua Elementary School	School	396851.11	3838244.88	3.03	Northwest
22	Westside Christian School	School	394470.40	3830352.68	3.36	Southwest
23	New Vista Middle School	School	397758.37	3837436.21	2.37	North
24	Antelope Valley Community Day	School	396381.23	3837196.48	2.59	Northwest
25	Endeavour Middle School	School	398035.31	3837621.70	2.45	North
26	Calvary Chapel Christian	School	393344.01	3836044.32	3.62	Northwest
27	Sierra Elementary School	School	395198.97	3837986.22	3.42	Northwest
28	Desert Sands Charter School	School	395195.31	3837664.61	3.27	Northwest
29	Opportunities For Learning	School	394732.17	3837226.24	3.28	Northwest

Receptor ID	Receptor Name	Receptor Type	UTM Easting (meters)	UTM Northing (meters)	Distance from Power Block (miles)	Direction with Respect to Power Block
30	Antelope Valley Learning Academy	School	395195.31	3837664.61	3.27	Northwest
31	Columbia Elementary School	School	398872.50	3838765.95	3.13	North
32	Antelope Valley Adult Day Health Care	Adult Daycare	394888.01	3834817.66	2.46	West
33	Lancaster Adult Day Healthcare Center	Adult Daycare	397083.16	3834404.75	1.08	West
34	Merrill Gardens (Alzheimer's Care)	Elderly Care	394052.38	3836546.36	3.37	Northwest
35	Lancaster Community Hospital	Medical Facility	395016.37	3838043.75	3.52	Northwest
36	Kaiser Permanente Medical Care Program	Medical Facility	394174.17	3836511.69	3.29	Northwest
37	Ca Allergy-Asthma Medical Group	Medical Facility	394590.42	3832835.73	2.61	West
38	La County Mental Health Services	Medical Facility	397112.59	3837044.11	2.28	Northwest
39	A V Health Center	Medical Facility	396837.47	3837025.00	2.35	Northwest
40	AV Meridien Medical Group	Medical Facility	394775.52	3832988.90	2.48	West
41	Penny Lane Center	Medical Facility	396616.60	3833666.85	1.29	West
42	AV Schools Transportation Office	Worker	395255.97	3834935.49	2.26	Northwest
43	Palmdale School District	Worker	398028.44	3828693.47	3.16	South
44	Chapman University Palmdale	Worker	396946.39	3830358.03	2.36	South
45	Desert Equine Hospital Inc	Worker	397555.19	3835641.70	1.38	Northwest
46	Antelope Valley Animal Hospital	Worker	394130.70	3832718.98	2.90	West
47	Animal Emergency Clinic	Worker	394791.18	3834364.03	2.45	West
48	North Valley Veterinary Clinic	Worker	396203.10	3837653.22	2.88	Northwest
49	Marteney Wayne DVM	Worker	396841.34	3829161.37	3.07	South
50	AV Air Quality Management District	Worker	396378.73	3836974.68	2.47	Northwest
51	Lance Camper Manufacturing Corporation	Worker	397199.14	3836588.41	2.00	Northwest
52	Robert F Chapman Manufacturing	Worker	397014.78	3836490.64	2.00	Northwest
53	Hardway Manufacturing	Worker	396931.57	3837245.77	2.44	Northwest
54	Dunn Accurately Saw & Manufacturing	Worker	394978.65	3834727.90	2.39	West

Receptor ID	Receptor Name	Receptor Type	UTM Easting (meters)	UTM Northing (meters)	Distance from Power Block (miles)	Direction with Respect to Power Block
55	Wise Software & Computer Products	Worker	394683.73	3832978.85	2.53	West
56	Nu Science Corporation	Worker	396830.78	3836426.15	2.03	Northwest
57	B M Green Enterprises Inc.	Worker	397015.00	3836494.00	2.01	Northwest
58	Well Done Designs	Worker	396926.74	3836813.27	2.20	Northwest
59	Cafra Manufacturing Inc	Worker	396841.22	3829150.28	3.07	South
60	Canine Country Club	Worker	397085.27	3834593.27	1.13	Northwest
61	Andy Gump Inc	Worker	397179.51	3834825.14	1.16	Northwest
62	Dale's Hitchin Station	Worker	396812.31	3834773.78	1.33	Northwest
63	Sierra Delivery Services	Worker	397462.20	3835520.73	1.35	Northwest
64	Pestmaster Services	Worker	397465.52	3835820.16	1.50	Northwest
65	Advanced Conservation Systems	Worker	397738.09	3835606.40	1.30	Northwest
66	Budget Truck Rental	Worker	397825.43	3835217.25	1.07	Northwest
67	J B Construction	Worker	396999.41	3835647.64	1.55	Northwest
68	Western Equipment Services Co	Worker	396641.56	3835895.89	1.85	Northwest
69	Bob Howle Automotive & RV	Worker	395342.34	3834468.68	2.13	West
70	Merry Maids	Worker	395346.49	3834834.64	2.19	Northwest
71	Clark Pest Control	Worker	396277.14	3836088.53	2.09	Northwest
72	IMS Specialty Services Inc	Worker	396557.75	3836595.57	2.22	Northwest
73	Nu-Ease Inc Cleaning Materials	Worker	396547.69	3835697.30	1.80	Northwest
74	Ruben's Bar & Grill	Worker	396807.97	3834385.64	1.24	West
75	Los Angeles County Superior Ct	Worker	395708.68	3834442.35	1.90	West
76	LA County: Waterworks Lancaster Office	Worker	396834.00	3836714.48	2.18	Northwest
77	County of LA: Antelope Valley MH	Worker	397112.09	3836999.75	2.25	Northwest
78	City of Lancaster: Activity Center	Worker	394813.30	3836304.74	2.89	Northwest
79	County of Los Angeles	Worker	396837.35	3837013.91	2.34	Northwest
80	Credit Bureau West	Worker	396783.00	3834397.00	1.25	West
81	Signature Fundraising	Worker	397193.83	3836111.55	1.74	Northwest
82	LA/Palmdale Regional Airport Terminal	Worker	400066.08	3830534.52	2.17	Southeast

Receptor ID	Receptor Name	Receptor Type	UTM Easting (meters)	UTM Northing (meters)	Distance from Power Block (miles)	Direction with Respect to Power Block
83	Financial Consulting and Trading International	Worker	398126.80	3837609.59	2.43	North
84	Concord Media Group	Worker	397021.58	3837100.58	2.33	Northwest
85	Gift Boutique	Worker	399854.40	3836381.75	1.80	North
86	Birdies Driving Range	Worker	394871.85	3833398.17	2.38	West
87	Four Day Mattress	Worker	394511.68	3833967.93	2.60	West
88	WALMART	Worker	395022.68	3830534.94	3.02	Southwest
89	SAMS CLUB	Worker	395058.00	3830056.49	3.21	Southwest
90	Space Shuttle Assembly	Worker	401014.19	3833441.23	1.46	East
91	Lockheed-Skunk Works	Worker	397501.68	3830817.68	1.96	South
92	Museum - Airport	Worker	400330.15	3829511.30	2.82	Southeast
93	Bldg next to PHPP on the	Worker	399270.76	3833282.62	0.46	Southeast
94	Airport: Palmdale Regional/USAF Plant 42	Worker	400545.51	3832481.35	1.39	Southeast
95	Residential 1	Residential	398385.78	3836164.89	1.52	North
96	Residential 2	Residential	398113.09	3836367.54	1.67	North
97	Residential 3	Residential	397842.74	3836780.90	1.96	North
98	Residential 4	Residential	398211.81	3837009.73	2.06	North
99	Residential 5	Residential	398763.25	3837158.94	2.13	North
100	Residential 6	Residential	398859.73	3837601.53	2.40	North
101	Residential 7	Residential	398401.53	3837595.47	2.41	North
102	Residential 8	Residential	398410.32	3838393.94	2.90	North
103	Residential 9	Residential	398509.62	3839091.58	3.33	North
104	Residential 10	Residential	399050.01	3838242.73	2.81	North
105	Residential 11	Residential	399879.31	3838677.33	3.16	North
106	Residential 12	Residential	399964.91	3838121.85	2.84	North
107	Residential 13	Residential	399959.25	3837600.63	2.53	North
108	Residential 14	Residential	400138.64	3837243.77	2.36	North
109	Residential 15	Residential	401150.74	3837632.15	2.86	Northeast
110	Residential 16	Residential	401325.08	3836798.46	2.51	Northeast
111	Residential 17	Residential	396660.91	3829429.56	2.96	South
112	Residential 18	Residential	396299.59	3829921.61	2.80	South
113	Residential 19	Residential	396581.24	3830506.29	2.40	South

Receptor ID	Receptor Name	Receptor Type	UTM Easting (meters)	UTM Northing (meters)	Distance from Power Block (miles)	Direction with Respect to Power Block
114	Residential 20	Residential	396589.31	3831227.12	2.03	Southwest
115	Residential 21	Residential	395381.65	3829843.22	3.17	Southwest
116	Residential 22	Residential	393985.82	3836070.20	3.26	Northwest
117	Residential 23	Residential	395460.36	3836796.49	2.76	Northwest
118	Residential 24	Residential	396192.49	3836710.59	2.41	Northwest
119	Residential 25	Residential	395464.89	3837195.72	2.94	Northwest
120	Residential 26	Residential	394645.61	3837670.88	3.51	Northwest
121	Residential 27	Residential	395653.02	3837626.15	3.07	Northwest
122	Residential 28	Residential	395937.76	3838499.14	3.42	Northwest
123	Residential 29	Residential	397119.88	3837698.41	2.65	Northwest
124	Residential 30	Residential	397668.47	3837592.48	2.48	North
125	Residential 31	Residential	397677.33	3838390.95	2.96	North
126	Residential 32	Residential	397040.40	3838786.23	3.30	North
127	Residential 33	Residential	394418.00	3830903.00	3.19	Southwest
128	Residential 34	Residential	394108.00	3830565.00	3.46	Southwest
129	Residential 35	Residential	393399.00	3831442.00	3.58	Southwest
130	Residential 36	Residential	394020.00	3832216.00	3.05	West
131	Mall 1	Worker	394315.00	3829986.00	3.58	Southwest
132	Mall 2	Worker	394468.00	3829585.00	3.68	Southwest
133	Office @Trade Center Dive	Worker	395015.00	3829241.00	3.61	Southwest
134	Office Complex @ Rancho Vista	Worker	395797.00	3829271.00	3.31	South
135	Bldg south of E Ave L8 & east of 8th St E.	Worker	397904.00	3834965.00	0.91	Northwest
136	Bldg south of E Ave L4 & west of 10th St E	Worker	398014.00	3835508.00	1.18	Northwest
137	Bldg south of E Ave L4 & east of 4th St E	Worker	397093.00	3835515.00	1.49	Northwest
138	Bldg north of E Ave L8 & west of 3rd St E	Worker	396818.00	3835212.00	1.48	Northwest
139	Residential 37	Worker	397028.00	3834444.00	1.12	Northwest
140	Residential 38	Worker	397237.00	3834526.00	1.03	Northwest
141	Residential 39	Worker	397492.00	3834562.00	0.90	Northwest
142	Residential 40	Worker	397697.00	3834539.00	0.79	Northwest

Receptor ID	Receptor Name	Receptor Type	UTM Easting (meters)	UTM Northing (meters)	Distance from Power Block (miles)	Direction with Respect to Power Block
143	Residential 41	Residential	397897.00	3834772.00	0.81	Northwest
144	Residential 42	Residential	397903.00	3834973.00	0.91	Northwest
145	Residential 43	Residential	397908.00	3835324.00	1.10	Northwest
146	Residential 44	Residential	397825.00	3835275.00	1.10	Northwest
147	Residential 45	Residential	397644.00	3835517.00	1.28	Northwest
148	Residential 46	Residential	397035.00	3835329.00	1.43	Northwest
149	Residential 47	Residential	396701.00	3835576.00	1.68	Northwest
150	Residential 48	Residential	397191.00	3835730.00	1.55	Northwest
151	Residential 49	Residential	397466.00	3835892.00	1.54	Northwest
152	Residential 50	Residential	397648.00	3835742.00	1.40	Northwest
153	Residential 51	Residential	397739.00	3835589.00	1.29	Northwest