FPL

December 21, 2007

A.A. Linero, P.E.
Program Administrator, South Permitting
Department of Environmental Protection
Bureau of Air Regulation
111 South Magnolia St.
Tallahassee, FL 32399

Re: FPL West County Energy Center

Dear Mr. Linero:

On December 6, 2007, Florida Power & Light Company (FPL) submitted an Air Permit Application and Prevention of Significant Deterioration (PSD) Analysis for the proposed West County Energy Center (WCEC) Unit 3. The air modeling analyses were conducted pursuant to FDEP rules and guidance, and addressed the air quality impacts of the Unit 3 Project.

For your information, I have enclosed additional air modeling analyses that address WCEC Units 1, 2 and 3 together. These additional analyses are being submitted outside the purview of the Unit 3 permitting. As you know, the final air construction PSD permit for WCEC Units 1 and 2 was issued in January 2007. Thus, WCEC Units 1 and 2 are not part of the WCEC Unit 3 Project or the pending Unit 3 permit application.

If you have any comments or questions regarding the attached, please feel free to contact me at (561) 691-7518 or Jackie Lorne at (561) 691-7063. You may also contact Mr. Ken Kosky of Golder Associates at (352) 336-5600 for technical questions.

Sincerely,

Barbara P. Linkiewicz
Director of Environmental Licensing

Attachment

cc: Ken Kosky, Golder Associates
Peter Cunningham, HGS

AIR MODELING ANALYSES FOR THE FPL WEST COUNTY ENERGY CENTER

On December 6, 2007, Florida Power & Light Company (FPL) submitted an Air Permit Application and Prevention of Significant Deterioration (PSD) Analysis for the proposed West County Energy Center (WCEC) Unit 3 (the "Project"). The air modeling analyses were conducted pursuant to the Florida Department of Environmental Protection (FDEP) rules and guidance, and addressed the air quality impacts of the Project for comparison to the PSD significant impact levels (SILs), ambient air quality standards (AAQS), and PSD increments. The Project's impacts were predicted to be below the PSD SIL for all pollutants in the PSD Class II and I areas, except for the 24-hour average sulfur dioxide (SO_2) and particulate matter with aerodynamic diameter of 10 microns or less (PM_{10}) impacts in the PSD Class II area. For SO_2 and PM_{10}, cumulative source modeling was performed to address compliance with the applicable AAQS and PSD Class II increments. The cumulative source modeling included modeling the impacts from other non-Project sources, including Units 1 and 2 at the WCEC.

This air modeling analysis addresses the combined impacts of the Project and Units 1 and 2. FDEP previously issued the final air construction permit for Units 1 and 2 in January 2007. Units 1 and 2 are not considered part of the Project and are not subject to the application for WCEC Unit 3. The air quality impact modeling was performed for the three units as a single project. For those pollutants that were predicted to be greater than the SILs, additional modeling analyses were performed to determine compliance with AAQS and PSD increments.

The results of these air modeling analyses demonstrate that the maximum SO_2, PM_{10}, nitrogen dioxide (NO_2), and carbon monoxide (CO) impacts from all three units at the WCEC will comply with AAQS and PSD increments. In addition, modeling analyses were performed that demonstrate compliance with the PSD Class I increments.

Except where noted, the supplemental analyses use the same air dispersion model, meteorological data, and model assumptions to predict the maximum air quality impacts as those used in the SCA submittal for the Project. Summaries of the methodologies, assumptions, and results for the supplemental air modeling analyses are presented in the following sections.

Air Dispersion Models

AERMOD (Version 07026) was used to predict maximum concentrations in the vicinity of the WCEC site. CALPUFF (Version 5.8) was used to predict maximum pollutant concentrations at the Everglades National Park (NP) PSD Class I area. These models are the same models used in the recent SCA submittal for the Project.

Meteorological Data

AERMOD modeling analyses were based on predicting pollutant concentrations using the concurrent 5-year period of hourly surface weather observations for 2001 to 2005 from the National Weather Service (NWS) office located at the at the Palm Beach International (PBI) Airport and upper air sounding data collected at the Florida International University (FIU) in Miami. CALPUFF modeling analyses used wind domains developed by the Federal Land Manager (FLM) with CALMET version 5.8 provided by FDEP for 2001 to 2003. These meteorological data for AERMOD and CALPUFF are the same used in the air construction/PSD application for the Project.

WCEC Emissions

The pollutant emissions from the Project are presented in the air construction/PSD application. The emissions and stack parameters for Units 1 and 2 are the same as those for the Project. The modeling analyses were performed for SO_2, NO_x, PM_{10} and CO emissions to address the combined impacts of the Project, including Units 1 and 2. For these pollutants, modeling was performed that included the combustion turbines (CTs) and gas heater with the CT operating load that produced the maximum CT impact from the generic impact analysis for the Project. For PM_{10} impacts, modeling was performed that also included the cooling tower.

Background Facilities

The SO_2 and PM_{10} emission inventories developed for the AAQS and PSD Class II increment analyses in the air construction/PSD application for the Project were used in these analyses. Because the combined NO_2 impacts from the Project and Units 1 and 2 were predicted to be greater than the SIL, a NO_x emission inventory was developed using the same approach used for the SO_2 and PM_{10} emission inventories.

The primary source of NO_x emission and operating data for facilities is the FDEP Query Report. For the non-major facilities that are located within the significant impact area (SIA), detailed permit data

were requested from the local permitting authority. These included the Hubbard Construction Company and the South Florida Water Management District (SFWMD) Pump Station No. S-5A.

Facilities located within the SIA were modeled explicitly (considered to be the modeling area). Facilities within the SIA plus 50 kilometers (km) were considered to be in the screening area. Facilities in the screening area were evaluated using the North Carolina screening technique, also known as the 20D approach. Based on this technique, facilities whose annual emissions [i.e., tons per year (TPY)] are less than the threshold quantity, Q, are eliminated from the modeling analysis. Q is equal to 20 × (D−SIA), where D is the distance in km from the facility to the Site. Before elimination, based on the 20D approach, facilities in the screening area were sorted by direction and distance to check the close proximity of the facilities to one another. Facilities that were found to be within approximately 3 degrees of one another direction-wise and within approximately 5 km of one another distance-wise were grouped and their potential emissions were summed and then compared to the threshold quantity Q. In evaluating source groups, facilities that have already satisfied the 20D criteria for inclusion were not included in the evaluation.

In addition, the source inventories were evaluated to identify facilities located beyond the screening area and up to 100 km from the grid center. Facilities in this area that have the potential to emit more than 1,000 TPY were included in the modeling inventory.

Permit-allowable emission rates or potential emission rates were used for the NO_x AAQS analysis based on whether permit-allowable emission rates are available for the emission sources. Actual emission rates are recommended for PSD Class II increment analysis. Actual emission rates were obtained from 2006 annual operating reports (if available) and estimated based on fuel data and previous studies such as PSD applications. As a conservative approach, if actual emissions were not available, potential or permit-allowable emission rates were used. Actual NO_x emissions were used for sources near the WCEC.

Listings of NO_x sources that were used in the AAQS and PSD Class II analyses and their locations relative to WCEC are provided in Appendix A. Information is also presented for the stack and operating data for sources considered in the modeling.

Receptors

The receptor grid and elevations used for the PSD Class II and Class I significant impact analyses are the same as those used for the SCA submittal for the Project.

Based on the combined impacts of the Project and Units 1 and 2, pollutant impacts were predicted to be greater than the SILs for the following pollutants and out to the following distances from WCEC:

- SO_2- annual average: 1.3 km; 24-hour average: 2.3 km;
- PM_{10}- annual average: 1.6 km; 24-hour average: 3.1 km; and
- NO_2- annual average: 1.9 km.

For these analyses, the modeling grid for SO_2 and NO_2 extended out to 2.5 km from the site for all averaging periods. Similarly, the modeling grid for PM_{10} extended out to 3.25 km from the Site for both averaging periods.

For the AAQS and PSD Class II increment consumption analyses, two separate modeling scenarios were performed within the SIA of the WCEC units. These modeling scenarios accounted for the impacts only in the ambient air relative to WCEC as well as to nearby facilities. The first modeling scenario was based on modeling impacts at all receptors within the modeling grid, including those within the property owned by Palm Beach Aggregates, with all sources except Hubbard Construction Company and Palm Beach Aggregates. The second modeling scenario was based on modeling impacts at all receptors, except those within the property owned by Palm Beach Aggregates, with all sources. In this manner, the maximum pollutant impacts were predicted at ambient air receptors relative to the Project and to Palm Beach Aggregates.

In addition, the modeling grid excluded receptors located adjacent to and on the property of SFWMD Pump Station S-5A, which is about 1.4 km from WCEC, just to the south of U.S. Highway 98.

Background Concentrations

Background concentrations are necessary to determine the total ambient air quality impacts to demonstrate compliance with the AAQS. Background concentrations are defined as concentrations due to sources other than those specifically included in the modeling analysis. For all pollutants, background would include other point sources not included in the modeling (i.e., distant sources or

small sources), fugitive emission sources, and natural background sources. In general, monitoring data collected near the area in which the air quality impact is performed is used for this purpose.

For these analyses, ambient SO_2, PM_{10}, and NO_2 concentrations measured from monitoring stations near WCEC were used to estimate background concentrations. Summaries of the ambient air quality data are presented in the PSD application of the SCA submittal for the Project. Based on the data collected from 2004 to 2006, the following values were used to represent background concentrations:

- SO_2 – annual average: 3 micrograms per cubic meter ($\mu g/m^3$);
  24-hour average: 8 $\mu g/m^3$.
- PM_{10} – annual average: 42 $\mu g/m^3$; 24-hour average: 20 $\mu g/m^3$.
- NO_2 – annual average: 21 $\mu g/m^3$.

These values were selected based on the highest annual and highest, second-highest 24-hour concentrations measured during that period.

Air Modeling Results

The maximum SO_2, NO_2, CO, and PM_{10} concentrations predicted for the Project and Units 1 and 2 are summarized in Table 1. These results are compared to the PSD Class II SILs. The maximum CO and 3-hour average SO_2 concentrations are predicted to be less than the SILs. The annual average SO_2, NO_2, and PM_{10} concentrations, as well as the 24-hour average SO_2 and PM_{10} concentrations, were predicted to be greater than the PSD Class II SILs. Therefore, cumulative source AAQS and PSD Class II increment modeling analyses were performed for those pollutants and averaging periods.

A summary of the results for the PSD Class I significant impact analyses for SO_2, PM_{10}, and NO_2 concentrations predicted for the WCEC Units at the Everglades NP is presented in Table 2. The maximum pollutant concentrations are predicted to be less than the PSD Class I SILs, except for the 24-hour average PM_{10} concentrations when the units are firing distillate fuel oil, the backup fuel. The backup fuel was authorized for Units 1 and 2 and requested for Unit 3 as a maximum equivalent to 500 hours/year for each CT.

The maximum 24-hour average PM_{10} concentration is predicted to be 0.302 $\mu g/m^3$, which is equivalent to the SIL of 0.3 $\mu g/m^3$. This is the only 24-hour average PM_{10} concentration from the

more than 40,000,000,000 combinations of receptors-days (i.e., 901 receptors and 3 years of meteorological data) predicted to be equivalent to the SIL. As shown in Table 2, the maximum 24-hour average PM_{10} concentration predicted for the units firing natural gas (the primary fuel) is 0.0703 $\mu g/m^3$, which is well below the PSD Class I SIL, and the maximum impact for the backup fuel was equivalent to the SIL; a cumulative PSD Class I increment modeling analysis was not performed.

A summary of the maximum predicted concentrations for comparison to the SO_2, PM_{10}, and NO_2 AAQS are summarized in Table 3. A summary of the maximum predicted concentrations for comparison to the SO_2, PM_{10}, and NO_2 allowable PSD Class II increments is provided in Table 4. The maximum air quality concentrations are predicted to be well below the AAQS and PSD Class II increments. These maximum SO_2 and PM_{10} concentrations are similar to those presented in the SCA submittal for the Project.

APPENDIX A

TABLE 1
MAXIMUM POLLUTANT CONCENTRATIONS PREDICTED FOR WCEC UNITS 1, 2, AND 3 COMPARED TO EPA CLASS II SIGNIFICANT IMPACT LEVELS

Pollutant	Averaging Time	Maximum Concentration (ug/m^3) [b]			EPA Class II Significant Impact Levels (ug/m^3)
		Units 1 & 2	Unit 3	Units 1, 2, & 3	
CTs and Fuel Heater					
SO_2	Annual	1.0	0.6	1.3	1
	24-Hour	7.8	6.2	9.8	5
	3-Hour	12.5	10.0	16.0	25
NO_2	Annual [a]	1.4	0.94	1.6	1
CO	8-Hour	39.9	29.6	50.3	500
	1-Hour	57.4	39.1	73.8	2,000
CTs, Fuel Heater and Cooling Tower					
PM_{10}	Annual	1.2	0.63	1.6	1
	24-Hour	10.9	7.0	14.4	5

[a] NO_x to NO_2 conversion factor based on EPA Modeling Guidelines: 75 %

[b] SO_2 concentrations based on: natural gas-firing, 100 percent load with duct-firing, and 95°F.

NO_2 concentrations based on: natural gas-firing, 100 percent load , and 59oF for 5,380 hours;
natural gas-firing, 100 percent load with duct-firing, and 59oF for 2,280 hours;
oil-firing, 100 percent load, and 59oF for 500 hours.

CO concentrations based on: natural gas-firing, 100 percent load with duct-firing, and 35oF or 75 percent load and 35oF.

PM_{10} concentrations based on: oil-firing, 75 percent load, and 95oF

TABLE 2
SUMMARY OF MAXIMUM POLLUTANT CONCENTRATIONS PREDICTED FOR WCEC UNITS 1, 2, AND 3
COMPARED TO THE EPA CLASS I SIGNIFICANT IMPACT LEVELS AT THE PSD CLASS I AREA OF THE EVERGLADES NATIONAL PARK

Pollutant	Averaging Time	Maximum Predicted Concentration ($\mu g/m^3$) [a]									EPA Class I Significant Impact Levels ($\mu g/m^3$)
		Natural Gas [b]			Fuel Oil [c]			Maximum [d]			
		2001	2002	2003	2001	2002	2003	2001	2002	2003	
SO_2	Annual	0.0048	0.0058	0.0066	0.0008	0.0009	0.0010	0.0048	0.0058	0.0066	0.1
	24-Hour	0.126	0.123	0.130	0.022	0.020	0.023	0.126	0.123	0.130	0.2
	3-Hour	0.48	0.40	0.41	0.089	0.060	0.075	0.48	0.40	0.41	1.0
PM_{10}	Annual	0.0025	0.0030	0.0035	0.0099	0.0110	0.0123	0.0029	0.0035	0.0040	0.2
	24-Hour	0.060	0.059	0.073	0.241	0.259	0.302	0.241	0.259	0.302	0.3
NO_2	Annual	0.0043	0.0048	0.0055	0.0098	0.0103	0.0105	0.0046	0.0051	0.0058	0.1

[a] Based on the CALPUFF model using 2001, 2002, and 2003 surface and upper air meteorological data.

[b] Based on 100 % operating load,with duct firing at 35 °F. Duct firing based on natural gas-fired duct burner with maximum heat input rate of 475 MMBtu/hr (HHV) for the CTs.

[c] Based on 100 % operating load at 35 °F.

[d] Maximum annual average concentration are based on prorating the maximum impacts for each operation by the following maximum number of hours requested for that operation:

Pollutant	Hours for Each Operation		
	Natural Gas	Fuel Oil	Total
SO_2	8,760	0	8,760
PM_{10}	8,260	500	8,760
NO_2	8,260	500	8,760

TABLE 3
MAXIMUM PREDICTED SO_2, PM_{10}, AND NO_2 IMPACTS FOR ALL SOURCES, INCLUDING WCEC UNITS 1, 2, AND 3
COMPARED TO THE AAQS
SCREENING AND REFINED ANALYSES

Averaging Time and Rank	Analysis	Maximum Concentration ($\mu g/m^3$) [a] Total	Modeled Sources	Background	Receptor Location UTM- East (m)	UTM- North (m)	Time Period (YYMMDDHH)	AAQS ($\mu g/m^3$)
SO_2 [b]								
Annual, Highest	Screening	15.0	12.0	3	562,750	2,951,400	01123124	60
		15.5	12.5	3	562,750	2,951,400	02123124	
		14.6	11.6	3	562,750	2,951,400	03123124	
		15.0	12.0	3	562,750	2,951,400	04123124	
		14.9	11.9	3	562,750	2,951,400	05123124	
	Refined	15.5	12.5	3	562,750	2,951,400	02123124	
24-Hour, HSH	Screening	43.9	35.9	8	562,850	2,951,300	01101724	260
		39.4	31.4	8	562,277	2,951,890	02120824	
		41.9	33.9	8	562,276	2,951,842	03041524	
		41.7	33.7	8	562,276	2,951,842	04010824	
		44.2	36.2	8	562,850	2,951,300	05020424	
	Refined	44.2	36.2	8	562,850	2,951,300	05020424	
PM_{10} [c]								
Annual, Highest	Screening	28.0	8.0	20	562,750	2,951,400	01123124	50
		28.4	8.4	20	562,750	2,951,400	02123124	
		27.3	7.3	20	562,750	2,951,400	03123124	
		28.4	8.4	20	562,750	2,951,400	04123124	
		27.8	7.8	20	562,750	2,951,400	05123124	
	Refined	28.4	8.4	20	562,750	2,951,400	02123124	
24-Hour, H6H	Screening	79.1	37.1	42	562,929	2,951,560	02112424	150
	Refined	79.1	37.1	42	562,929	2,951,560	02112424	
NO_2 [d,e]								
Annual, Highest	Screening	57.5	36.5	21	562,750	2,951,300	01123124	100
		56.8	35.8	21	562,750	2,951,500	02123124	
		59.8	38.8	21	562,850	2,951,300	03123124	
		58.9	37.9	21	562,850	2,951,300	04123124	
		63.9	42.9	21	562,850	2,951,300	05123124	
	Refined	63.9	42.9	21	562,850	2,951,300	05123124	

Note: YYMMDDHH = Year, Month, Day, Hour Ending
HSH = Highest, second-highest
H6H = Highest, sixth-highest

[a] Concentrations are based on concentrations predicted using five years of meteorological data from 2001 to 2005 of surface and upper air data from the National Weather Service stations at Palm Beach International Airport and Miami, respectively.

[b] Based on firing natural gas with duct firing.

[c] Based on oil-firing.

[d] Based on firing natural gas for 5,380 hours/yr; natural gas with duct firing for 2,880 hours/yr, and oil for 500 hours/yr.

[e] NO_x to NO_2 conversion factor based on EPA Modeling Guidelines: 75 %
Applied to modeled impacts.

TABLE 4
MAXIMUM PREDICTED SO_2, PM_{10}, AND NO_2 IMPACTS FOR ALL SOURCES, INCLUDING WCEC UNITS 1, 2, AND 3 COMPARED TO THE PSD CLASS II INCREMENTS SCREENING AND REFINED ANALYSES

Averaging Time and Rank	Analysis	Modeled Concentration [a] ($\mu g/m^3$)	Receptor Location UTM- East (m)	Receptor Location UTM- North (m)	Time Period (YYMMDDHH)	PSD Class II Increment ($\mu g/m^3$)
SO_2 [b]						
Annual, Highest	Screening	4.83	562,278	2,951,938	01123124	20
		5.05	562,278	2,951,987	02123124	
		3.81	562,278	2,951,987	03123124	
		5.10	562,278	2,951,987	04123124	
		4.14	562,278	2,951,987	05123124	
	Refined	5.10	562,278	2,951,987	04123124	
24-Hour, HSH	Screening	28.6	562,278	2,951,987	01101224	91
		23.1	562,278	2,951,988	02051224	
		24.6	562,278	2,951,987	03102524	
		25.4	562,278	2,951,988	04051324	
		26.6	562,278	2,951,938	05010124	
	Refined	28.6	562,278	2,951,987	01101224	
PM_{10} [c]						
Annual, Highest	Screening	4.10	562,278	2,951,987	01123124	17
		4.34	562,279	2,952,035	02123124	
		3.64	562,279	2,952,035	03123124	
		4.30	562,278	2,951,987	04123124	
		4.00	562,278	2,951,987	05123124	
	Refined	4.34	562,278	2,951,987	04123124	
24-Hour, HSH	Screening	24.6	562,929	2,951,560	01120324	30
		22.6	562,881	2,951,562	02112424	
		21.0	563,025	2,951,557	03012624	
		21.1	562,929	2,951,560	04112124	
		21.5	562,278	2,951,938	05110124	
	Refined	24.6	562,929	2,951,560	01120324	
NO_2 [d,e]						
Annual, Highest	Screening	7.0	562,750	2,951,300	01123124	25
		7.0	562,750	2,951,500	02123124	
		7.5	562,850	2,951,300	03123124	
		7.3	562,850	2,951,300	04123124	
		8.3	562,850	2,951,300	05123124	
	Refined	8.3	562,850	2,951,300	05123124	

Note: YYMMDDHH = Year, Month, Day, Hour Ending
HSH = Highest, second-highest
H6H = Highest, sixth-highest

[a] Concentrations are based on concentrations predicted using five years of meteorological data from 2001 to 2005 of surface and upper air data from the National Weather Service stations at Palm Beach International Airport and Miami, respectively.

[b] Based on firing natural gas with duct firing.

[c] Based on oil-firing.

[d] Based on firing natural gas for 5,380 hours/yr; natural gas with duct firing for 2,880 hours/yr, and oil for 500 hours/yr.

[e] NO_x to NO_2 conversion factor based on EPA Modeling Guidelines: 75 %

TABLE A-1
SUMMARY OF THE NOx FACILITIES CONSIDERED FOR INCLUSION IN THE AAQS AND PSD CLASS II AIR MODELING ANALYSES

AIRS Number	Facility	County	UTM Coordinates East (km)	UTM Coordinates North (km)	Relative to WCEC [a] X (km)	Relative to WCEC [a] Y (km)	Relative to WCEC [a] Distance (km)	Relative to WCEC [a] Direction (deg)	Maximum NOx Emissions (TPY)	Q, (TPY) Emission Threshold [b,c] (Dist - SID) x 20	Include in Modeling Analysis ?
Modeling Area [d]											
0990646	Florida Power And Light WCEC Units 1 & 2	Palm Beach	562.19	2,953.04	-0.01	0.39	0.39	358	661.60	SIA	YES
0990530	Hubbard Construction Company	Palm Beach	562.79	2,951.97	0.59	-0.68	0.90	139	15.15	SIA	YES
0990349	South Florida Water Management District	Palm Beach	562.55	2,951.32	0.35	-1.33	1.38	165	249.50	SIA	YES
Screening Area [d,e]											
0990620	South Florida Water Management District	Palm Beach	566.30	2,951.22	4.10	-1.43	4.34	109	249.50	47	YES
0990621	South Florida Water Manangement District	Palm Beach	567.21	2,944.98	5.01	-7.67	9.16	147	300.20	143	YES
0990016	Atlantic Sugar Association	Palm Beach	552.90	2,945.20	-9.30	-7.45	11.92	231	1,127.20	198	YES
0990019	Osceola Farms	Palm Beach	544.20	2,968.00	-18.00	15.35	23.66	310	961.00	433	YES
0990234	Solid Waste Authority Of PBC	Palm Beach	584.49	2,961.26	22.29	8.61	23.89	69	2,510.38	438	YES
0990021	United Technologies Corporation	Palm Beach	568.41	2,975.84	6.21	23.19	24.00	15	1,557.44	440	YES
0990026	Sugar Cane Growers Co-Op	Palm Beach	534.90	2,953.30	-27.30	0.65	27.31	271	5,857.20	506	YES
0990061	U.S.Sugar Corp. Bryant Mill	Palm Beach	537.83	2,969.12	-24.37	16.47	29.41	304	1,957.00	548	NO
0990045	City Of Lake Worth Utilities	Palm Beach	592.80	2,943.70	30.60	-8.95	31.88	106	6,781.55	598	YES
0990042	Florida Power & Light, Riviera (PRV)	Palm Beach	593.27	2,960.62	31.07	7.97	32.07	76	16,565.16	601	YES
0990332	New Hope Power Partnership	Palm Beach	524.92	2,939.44	-37.28	-13.21	39.55	250	862.50	751	YES
0850102	Indiantown Cogeneration, L.P.	Martin	547.65	2,990.70	-14.55	38.05	40.73	339	2,584.00	775	YES
0850001	Florida Power & Light, Martin (PMR)	Martin	542.68	2,992.65	-19.52	40.00	44.51	334	35,863.57	850	YES
0112120	Wheelabrator North Broward, Inc.	Broward	583.90	2,907.60	21.70	-45.05	50.01	154	1,399.20	960	YES
0990549	South Florida Water Management District	Palm Beach	554.20	2,940.45	-8.00	-12.20	14.59	213	248.98	252	NO
0990350	South Florida Water Management District	Palm Beach	556.17	2,927.82	-6.03	-24.83	25.56	194	247.30	471	NO
0990566	Indian Trail Improvement District	Palm Beach	564.69	2,956.16	2.49	3.51	4.30	35	22.10	46	NO
0990087	Ranger Construction Industries, Inc.	Palm Beach	579.90	2,951.70	17.70	-0.95	17.72	93	24.38	314	NO
0990310	Community Asphalt Corp	Palm Beach	582.30	2,950.80	20.10	-1.85	20.18	95	16.80	364	NO
7775057	Crusher Contractors Co.	Glades	582.52	2,951.24	20.32	-1.41	20.37	94	10.50	367	NO
0990562	South Florida Shavings Co.	Palm Beach	579.20	2,941.10	17.00	-11.55	20.55	124	2.19	371	NO
0990333	Florida Gas Transmission Company	Palm Beach	584.36	2,957.07	22.16	4.42	22.59	79	78.10	412	NO
0990185	Sikorsky Aircraft Corporation	Palm Beach	567.50	2,975.00	5.30	22.35	22.97	13	2.50	419	NO
0990344	Parkway Asphalt, Inc.	Palm Beach	587.36	2,962.14	25.16	9.49	26.89	69	18.95	498	NO
0990123	Florida Power & Light (PDC/OSF)	Palm Beach	589.70	2,961.20	27.50	8.55	28.80	73	16.10	536	NO
0990630	South Florida Materials Corp.	Palm Beach	593.18	2,960.83	30.98	8.18	32.04	75	6.09	601	NO
0990046	Cemex, Inc.	Palm Beach	594.00	2,960.70	31.80	8.05	32.80	76	98.68	616	NO
0990322	Treasure Coast Crematory	Palm Beach	594.00	2,941.00	31.80	-11.65	33.87	110	1.97	637	NO
0990095	Bethesda Memorial Hospital	Palm Beach	592.60	2,931.80	30.40	-20.85	36.86	124	34.20	697	NO
0990614	South Florida Water Management District	Palm Beach	540.47	2,919.49	-21.73	-33.16	39.65	213	248.53	753	NO
0990005	Okeelanta Corp	Palm Beach	524.70	2,939.50	-37.50	-13.15	39.74	251	184.80	755	YES
0850002	Louis Dreyfus Citrus, Inc.	Martin	547.98	2,991.47	-14.22	38.82	41.34	340	16.20	787	NO
0990354	South Florida Water Management District	Palm Beach	545.77	2,912.76	-16.43	-39.89	43.15	202	249.32	823	NO
0850141	Gulfstream Natural Gas System, L.L.C.	Martin	543.83	2,993.14	-18.37	40.49	44.46	336	9.42	849	NO
0990119	Boca Raton Community Hospital	Palm Beach	589.50	2,915.50	27.30	-37.15	46.10	144	12.30	882	NO
0110045	Hardrives Asphalt Company	Broward	583.84	2,909.11	21.64	-43.54	48.62	154	10.80	932	NO
0990015	Boca Resorts, Inc	Palm Beach	592.00	2,913.70	29.80	-38.95	49.04	143	44.58	941	NO
0990615	South Florida Water Management District	Palm Beach	519.09	2,923.76	-43.11	-28.89	51.90	236	248.07	998	NO
0112048	Broward Co. Animal Care And Regulation	Broward	584.01	2,905.51	21.81	-47.14	51.94	155	14.90	999	NO
0112357	Broward County Water & Sewer Services	Broward	583.49	2,905.01	21.29	-47.64	52.18	156	72.55	1,004	NO

TABLE A-1
SUMMARY OF THE NOx FACILITIES CONSIDERED FOR INCLUSION IN THE AAQS AND PSD CLASS II AIR MODELING ANALYSES

AIRS Number	Facility	County	UTM Coordinates East (km)	UTM Coordinates North (km)	Relative to WCEC [a] X (km)	Relative to WCEC [a] Y (km)	Relative to WCEC [a] Distance (km)	Relative to WCEC [a] Direction (deg)	Maximum NOx Emissions (TPY)	Q, (TPY) Emission Threshold [b,c] (Dist - SID) x 20	Include in Modeling Analysis ?
Beyond Screening Area out to 100 km [d]											
0850120	Martin Co.Utilities And Solid Waste Dept	Martin	561.11	3,006.63	-1.09	53.98	53.99	359	17.87	1,040	NO
0510003	U.S. Sugar Corp. Clewiston Mill	Hendry	506.10	2,956.90	-56.10	4.25	56.26	274	3,310.54	1,085	YES
0110351	South Florida Water Management District	Broward	522.26	2,912.27	-39.94	-40.38	56.80	225	771.15	1,096	NO
0112152	Service Corporation International (SCI)	Broward	584.60	2,897.60	22.40	-55.05	59.44	158	10.20	1,149	NO
0112410	South Florida Water Management District	Broward	555.10	2,882.44	-7.10	-70.21	70.57	186	404.00	1,371	NO
0430018	Oldcastle Lawn And Garden, Inc.	Glades	492.04	2,961.34	-70.16	8.69	70.70	277	49.92	1,374	NO
0112119	Wheelabrator South Broward, Inc	Broward	578.87	2,883.39	16.67	-69.26	71.24	166	1,497.00	1,385	YES
0110037	Florida Power & Light, Ft. Lauderdale (PFL)	Broward	579.39	2,883.36	17.19	-69.29	71.39	166	11,509.20	1,388	YES
7775172	Better Roads, Inc.	Glades	491.97	2,966.03	-70.23	13.38	71.49	281	15.40	1,390	NO
0110053	Transmontaigne Product Services Inc.	Broward	587.10	2,885.60	24.90	-67.05	71.53	160	11.76	1,391	NO
0112688	Vecenergy	Broward	587.04	2,885.19	24.84	-67.46	71.89	160	17.70	1,398	NO
0110036	Florida Power & Light, Port Everglades (PPE)	Broward	587.40	2,885.30	25.20	-67.35	71.91	159	59,031.40	1,398	YES
0110050	Motiva Enterprises LLC	Broward	586.80	2,884.50	24.60	-68.15	72.46	160	10.00	1,409	NO
0112370	Broward Co. Waste & Recycling Services	Broward	557.56	2,880.14	-4.64	-72.51	72.66	184	27.20	1,413	NO
0430008	Atlas-Transoil Inc	Glades	489.20	2,966.60	-73.00	13.95	74.32	281	34.50	1,446	NO
0930109	BP Technology Inc	Okeechobee	525.18	3,017.40	-37.02	64.75	74.58	330	47.97	1,452	NO
0510015	Southern Gardens Citrus Processing Corp.	Hendry	487.50	2,957.60	-74.70	4.95	74.87	274	214.56	1,457	NO
1110004	Tropicana Manfacturing Company, Inc	St. Lucie	559.61	3,028.32	-2.59	75.67	75.71	358	83.80	1,474	NO
1110121	Florida Municipal Power Agency	St. Lucie	561.51	3,028.99	-0.69	76.34	76.34	359	714.40	1,487	NO
1110081	St. Lucie County	St. Lucie	559.09	3,029.64	-3.11	76.99	77.05	358	17.87	1,501	NO
0930104	Okeechobee Landfill, Inc.	Okeechobee	530.28	3,023.96	-31.92	71.31	78.13	336	117.90	1,523	NO
1110060	Florida Gas Transmission Company	St. Lucie	557.24	3,035.78	-4.96	83.13	83.27	357	664.16	1,625	NO
1110003	Ft Pierce Utilities Authority	St. Lucie	566.12	3,036.35	3.92	83.70	83.79	3	1,184.40	1,636	NO
0250624	General Asphalt Co., Inc.	Dade	569.68	2,868.32	7.48	-84.33	84.66	175	81.30	1,653	NO
0250600	Miami-Dade Water And Sewer Department	Dade	584.45	2,866.97	22.25	-85.68	88.53	165	459.13	1,731	NO
0250022	U S Foundry Manufacturing Corp.	Dade	567.30	2,859.80	5.10	-92.85	92.99	177	11.13	1,820	NO
0250348	Miami Dade RRF	Dade	563.83	2,857.62	1.63	-95.03	95.05	179	2,459.60	1,861	YES
0210031	Breitburn Florida, LLC	Collier	509.60	2,873.20	-52.60	-79.45	95.29	214	257.92	1,866	NO
0250753	Miami Dade Water And Sewer Dept	Dade	557.83	2,856.55	-4.37	-96.10	96.20	183	30.90	1,884	NO
0250281	Miami-Dade Water And Sewer Dept (4 standby gen)	Dade	570.70	2,856.76	8.50	-95.89	96.27	175	1,480.00	1,885	NO
0250005	General Asphalt Co., Inc.	Dade	568.80	2,855.40	6.60	-97.25	97.48	176	41.96	1,910	NO
0610021	Ocean Spray Cranberries	Indian River	550.62	3,051.29	-11.58	98.64	99.31	353	29.91	1,946	NO
0250393	Miami Dade Aviation Dept	Dade	570.61	2,853.38	8.41	-99.27	99.63	175	36.48	1,953	NO
0250014	Rinker Materials Corporation.	Dade	557.49	2,852.05	-4.71	-100.60	100.71	183	2,600.00	1,974	YES
0250157	Department Of Veterans Affairs	Dade	578.60	2,852.60	16.40	-100.05	101.39	171	14.60	1,988	NO

Note: NA = Not applicable, ND = No data, SID = Significant impact distance for the project

[a] WCEC Unit 3 East and North Coordinates (km) are: 562.202 and 2952.65

[b] The significant impact distance for the project is estimated to be: 2 km

[c] Based on the North Carolina Screening Threshold method, a background facility is included in the modeling analysis if the facility is beyond the modeling area and its emission rate is greater than the product of (Distance-SID) x 20.

[d] "Modeling Area" is the area in which the project is predicted to have a significant impact. EPA recommends that all sources within this area be modeled. "Screening Area" is the significant distance of 2 km plus 50 km beyond the modeling area. EPA recommends that sources be modeled that are expected to have a significant impact in the modeling area. "Beyond Screening Area out to 100 km" is the area beyond the screening area and out to 100 km in which large sources are included in the modeling.

[e] Facility has shutdown with no existing operating permit.

[f] Modeled since PSD source with baseline emissions.

TABLE A-2
SUMMARY OF THE NOx FACILITIES CONSIDERED FOR INCLUSION IN THE AAQS AND PSD CLASS II AIR MODELING ANALYSES BASED ON SOURCE GROUP BY DISTANCE AND DIRECTION

AIRS Number	Facility	County	UTM Coordinates East (km)	UTM Coordinates North (km)	Relative to WCEC [a] X (km)	Relative to WCEC [a] Y (km)	Relative to WCEC [a] Distance (km)	Relative to WCEC [a] Direction (deg)	Maximum NOx Emissions (TPY)	Q, (TPY) Emission Threshold [b,c] (Dist - SID) x 20	Include in Modeling Analysis ?
Modeling Area [d]											
0990646	Florida Power And Light WCEC Units 1 & 2	Palm Beach	562.19	2,953.04	-0.01	0.39	0.39	358.22	661.60	SIA	YES
0990530	Hubbard Construction Company	Palm Beach	562.79	2,951.97	0.59	-0.68	0.90	139.32	15.15	SIA	YES
0990349	South Florida Water Management District	Palm Beach	562.55	2,951.32	0.35	-1.33	1.38	165.38	249.50	SIA	YES
Screening Area [d]											
0990620	South Florida Water Management District	Palm Beach	566.30	2,951.22	4.10	-1.43	4.34	109.29	249.50	47	YES
0990621	South Florida Water Manangement District	Palm Beach	567.21	2,944.98	5.01	-7.67	9.16	146.87	300.20	143	YES
0990016	Atlantic Sugar Association	Palm Beach	552.90	2,945.20	-9.30	-7.45	11.92	231.29	1,127.20	198	YES
0990019	Osceola Farms	Palm Beach	544.20	2,968.00	-18.00	15.35	23.66	310.45	961.00	433	YES
0990234	Solid Waste Authority Of Pbc	Palm Beach	584.49	2,961.26	22.29	8.61	23.89	68.89	2,510.38	438	YES
0990021	United Technologies Corporation	Palm Beach	568.41	2,975.84	6.21	23.19	24.00	14.99	1,557.44	440	YES
0990026	Sugar Cane Growers Co-Op	Palm Beach	534.90	2,953.30	-27.30	0.65	27.31	271.36	5,857.20	506	YES
0990061	U.S.Sugar Corp. Bryant Mill	Palm Beach	537.83	2,969.12	-24.37	16.47	29.41	304.04	1,957.00	548	NO [d]
0990045	City Of Lake Worth Utilities	Palm Beach	592.80	2,943.70	30.60	-8.95	31.88	106.31	6,781.55	598	YES
0990042	Florida Power & Light, Riviera (PRV)	Palm Beach	593.27	2,960.62	31.07	7.97	32.07	75.62	16,565.16	601	YES
0990332	New Hope Power Partnership	Palm Beach	524.92	2,939.44	-37.28	-13.21	39.55	250.48	862.50	751	YES
0850102	Indiantown Cogeneration, L.P.	Martin	547.65	2,990.70	-14.55	38.05	40.73	339.07	2,584.00	775	YES
0850001	Florida Power & Light, Martin (PMR)	Martin	542.68	2,992.65	-19.52	40.00	44.51	333.98	35,863.57	850	YES
0112120	Wheelabrator North Broward, Inc.	Broward	583.90	2,907.60	21.70	-45.05	50.01	154.28	1,399.20	960	YES
0990185	Sikorsky Aircraft Corporation	Palm Beach	567.50	2,975.00	5.30	22.35	22.97	13.34	2.50	419	NO
0990566	Indian Trail Improvement District	Palm Beach	564.69	2,956.16	2.49	3.51	4.30	35.36	22.10	46	NO
0990344	Parkway Asphalt, Inc.	Palm Beach	587.36	2,962.14	25.16	9.49	26.89	69.34	18.95	498	NO
0990123	Florida Power & Light (PDC/OSF)	Palm Beach	589.70	2,961.20	27.50	8.55	28.80	72.74	16.10	536	NO
								Sum =	*35.05*	*536*	*NO*
0990630	South Florida Materials Corp.	Palm Beach	593.18	2,960.83	30.98	8.18	32.04	75.22	6.09	601	NO
0990046	Cemex, Inc.	Palm Beach	594.00	2,960.70	31.80	8.05	32.80	75.80	98.68	616	NO
								Sum =	*104.77*	*616*	*NO*
0990333	Florida Gas Transmission Company	Palm Beach	584.36	2,957.07	22.16	4.42	22.59	78.73	78.10	412	NO
0990087	Ranger Construction Industries, Inc.	Palm Beach	579.90	2,951.70	17.70	-0.95	17.72	93.09	24.38	314	NO
7775057	Crusher Contractors Co.	Glades	582.52	2,951.24	20.32	-1.41	20.37	93.98	10.50	367	NO
0990310	Community Asphalt Corp	Palm Beach	582.30	2,950.80	20.10	-1.85	20.18	95.27	16.80	364	NO
								Sum =	*51.68*	*367*	*NO*
0990322	Treasure Coast Crematory	Palm Beach	594.00	2,941.00	31.80	-11.65	33.87	110.13	1.97	637	NO
0990562	South Florida Shavings Co.	Palm Beach	579.20	2,941.10	17.00	-11.55	20.55	124.21	2.19	371	NO
0990095	Bethesda Memorial Hospital	Palm Beach	592.60	2,931.80	30.40	-20.85	36.86	124.45	34.20	697	NO

TABLE A-2
SUMMARY OF THE NOx FACILITIES CONSIDERED FOR INCLUSION IN THE AAQS AND PSD CLASS II AIR MODELING ANALYSES BASED ON SOURCE GROUP BY DISTANCE AND DIRECTION

AIRS Number	Facility	County	UTM Coordinates East (km)	UTM Coordinates North (km)	Relative to WCEC [a] X (km)	Relative to WCEC [a] Y (km)	Relative to WCEC [a] Distance (km)	Relative to WCEC [a] Direction (deg)	Maximum NOx Emissions (TPY)	Q, (TPY) Emission Threshold [b,c] (Dist - SID) x 20	Include in Modeling Analysis ?
0990015	Boca Resorts, Inc	Palm Beach	592.00	2,913.70	29.80	-38.95	49.04	142.59	44.58	941	NO
0990119	Boca Raton Community Hospital	Palm Beach	589.50	2,915.50	27.30	-37.15	46.10	143.69	12.30	882	NO
								Sum =	*56.88*	*941*	*NO*
0110045	Hardrives Asphalt Company	Broward	583.84	2,909.11	21.64	-43.54	48.62	153.58	10.80	932	NO
0112048	Broward Co. Animal Care And Regulation	Broward	584.01	2,905.51	21.81	-47.14	51.94	155.18	14.90	999	NO
0112357	Broward County Water & Sewer Services	Broward	583.49	2,905.01	21.29	-47.64	52.18	155.92	72.55	1,004	NO
								Sum =	*98.25*	*1,004*	*NO*
0990350	South Florida Water Management District	Palm Beach	556.17	2,927.82	-6.03	-24.83	25.56	193.65	247.30	471	NO
0990354	South Florida Water Management District	Palm Beach	545.77	2,912.76	-16.43	-39.89	43.15	202.39	249.32	823	NO
0990614	South Florida Water Management District	Palm Beach	540.47	2,919.49	-21.73	-33.16	39.65	213.24	248.53	753	NO
0990549	South Florida Water Management District	Palm Beach	554.20	2,940.45	-8.00	-12.20	14.59	213.25	248.98	252	NO
0990615	South Florida Water Management District	Palm Beach	519.09	2,923.76	-43.11	-28.89	51.90	236.17	248.07	998	NO
0990005	Okeelanta Corp	Palm Beach	524.70	2,939.50	-37.50	-13.15	39.74	250.67	184.80	755	YES
0850141	Gulfstream Natural Gas System, L.L.C.	Martin	543.83	2,993.14	-18.37	40.49	44.46	335.59	9.42	849	NO
0850002	Louis Dreyfus Citrus, Inc.	Martin	547.98	2,991.47	-14.22	38.82	41.34	339.88	16.20	787	NO
								Sum =	*25.62*	*849*	*NO*
Beyond Screening Area out to 100 km [d]											
0850120	Martin Co.Utilities And Solid Waste Dept	Martin	561.11	3,006.63	-1.09	53.98	53.99	358.84	17.87	1,040	NO
0510003	U.S. Sugar Corp. Clewiston Mill	Hendry	506.10	2,956.90	-56.10	4.25	56.26	274.33	3,310.54	1,085	YES
0110351	South Florida Water Management District	Broward	522.26	2,912.27	-39.94	-40.38	56.80	224.68	771.15	1,096	NO
0112152	Service Corporation International (Sci)	Broward	584.60	2,897.60	22.40	-55.05	59.44	157.86	10.20	1,149	NO
0112410	South Florida Water Management District	Broward	555.10	2,882.44	-7.10	-70.21	70.57	185.78	404.00	1,371	NO
0430018	Oldcastle Lawn And Garden, Inc.	Glades	492.04	2,961.34	-70.16	8.69	70.70	277.06	49.92	1,374	NO
0112119	Wheelabrator South Broward, Inc	Broward	578.87	2,883.39	16.67	-69.26	71.24	166.47	1,497.00	1,385	YES
0110037	Florida Power & Light, Ft. Lauderdale (PFL)	Broward	579.39	2,883.36	17.19	-69.29	71.39	166.07	11,509.20	1,388	YES
7775172	Better Roads, Inc.	Glades	491.97	2,966.03	-70.23	13.38	71.49	280.78	15.40	1,390	NO
0110053	Transmontaigne Product Services Inc.	Broward	587.10	2,885.60	24.90	-67.05	71.53	159.63	11.76	1,391	NO
0112688	Vecenergy	Broward	587.04	2,885.19	24.84	-67.46	71.89	159.79	17.70	1,398	NO
0110036	Florida Power & Light, Port Everglades (PPE)	Broward	587.40	2,885.30	25.20	-67.35	71.91	159.49	59,031.40	1,398	YES
0110050	Motiva Enterprises Llc	Broward	586.80	2,884.50	24.60	-68.15	72.46	160.15	10.00	1,409	NO
0112370	Broward Co. Waste & Recycling Services	Broward	557.56	2,880.14	-4.64	-72.51	72.66	183.66	27.20	1,413	NO
0430008	Atlas-Transoil Inc	Glades	489.20	2,966.60	-73.00	13.95	74.32	280.82	34.50	1,446	NO
0930109	BP Technology Inc	Okeechobee	525.18	3,017.40	-37.02	64.75	74.58	330.24	47.97	1,452	NO
0510015	Southern Gardens Citrus Processing Corp.	Hendry	487.50	2,957.60	-74.70	4.95	74.87	273.79	214.56	1,457	NO
1110004	Tropicana Manfacturing Company, Inc	St. Lucie	559.61	3,028.32	-2.59	75.67	75.71	358.04	83.80	1,474	NO
1110121	Florida Municipal Power Agency	St. Lucie	561.51	3,028.99	-0.69	76.34	76.34	359.48	714.40	1,487	NO
1110081	St. Lucie County	St. Lucie	559.09	3,029.64	-3.11	76.99	77.05	357.69	17.87	1,501	NO

TABLE A-2
SUMMARY OF THE NOx FACILITIES CONSIDERED FOR INCLUSION IN THE AAQS AND PSD CLASS II AIR MODELING ANALYSES BASED ON SOURCE GROUP BY DISTANCE AND DIRECTION

AIRS Number	Facility	County	UTM Coordinates East (km)	UTM Coordinates North (km)	Relative to WCEC [a] X (km)	Relative to WCEC [a] Y (km)	Relative to WCEC [a] Distance (km)	Relative to WCEC [a] Direction (deg)	Maximum NOx Emissions (TPY)	Q, (TPY) Emission Threshold [b,c] (Dist - SID) x 20	Include in Modeling Analysis ?
0930104	Okeechobee Landfill, Inc.	Okeechobee	530.28	3,023.96	-31.92	71.31	78.13	335.88	117.90	1,523	NO
1110060	Florida Gas Transmission Company	St. Lucie	557.24	3,035.78	-4.96	83.13	83.27	356.58	664.16	1,625	NO
1110003	Ft Pierce Utilities Authority	St. Lucie	566.12	3,036.35	3.92	83.70	83.79	2.68	1,184.40	1,636	NO
0250624	General Asphalt Co., Inc.	Dade	569.68	2,868.32	7.48	-84.33	84.66	174.93	81.30	1,653	NO
0250600	Miami-Dade Water And Sewer Department	Dade	584.45	2,866.97	22.25	-85.68	88.53	165.44	459.13	1,731	NO
0250022	U S Foundry Manufacturing Corp.	Dade	567.30	2,859.80	5.10	-92.85	92.99	176.86	11.13	1,820	NO
0250348	Miami Dade Rrf	Dade	563.83	2,857.62	1.63	-95.03	95.05	179.02	2,459.60	1,861	YES
0210031	Breitburn Florida, Llc	Collier	509.60	2,873.20	-52.60	-79.45	95.29	213.51	257.92	1,866	NO
0250753	Miami Dade Water And Sewer Dept	Dade	557.83	2,856.55	-4.37	-96.10	96.20	182.60	30.90	1,884	NO
0250281	Miami-Dade Water And Sewer Dept (4 standby gen)	Dade	570.70	2,856.76	8.50	-95.89	96.27	174.94	1,480.00	1,885	NO
0250005	General Asphalt Co., Inc.	Dade	568.80	2,855.40	6.60	-97.25	97.48	176.12	41.96	1,910	NO
0610021	Ocean Spray Cranberries	Indian River	550.62	3,051.29	-11.58	98.64	99.31	353.30	29.91	1,946	NO
0250393	Miami Dade Aviation Dept	Dade	570.61	2,853.38	8.41	-99.27	99.63	175.16	36.48	1,953	NO
0250014	Rinker Materials Corporation.	Dade	557.49	2,852.05	-4.71	-100.60	100.71	182.68	2,600.00	1,974	YES
0250157	Department Of Veterans Affairs	Dade	578.60	2,852.60	16.40	-100.05	101.39	170.69	14.60	1,988	NO

Note: NA = Not applicable, ND = No data, SID = Significant impact distance for the project

[a] WCEC Unit 3 East and North Coordinates (km) are: 562.202 and 2952.65

[b] The significant impact distance for the project is estimated to be: 2 km

[c] Based on the North Carolina Screening Threshold method, a background facility is included in the modeling analysis if the facility is beyond the modeling area and its emission rate is greater than the product of (Distance-SID) x 20.

[d] "Modeling Area" is the area in which the project is predicted to have a significant impact. EPA recommends that all sources within this area be modeled. "Screening Area" is the significant distance of 2 km plus 50 km beyond the modeling area. EPA recommends that sources be modeled that are expected to have a significant impact in the modeling area. "Beyond Screening Area out to 100 km" is the area beyond the screening area and out to 100 km in which large sources are included in the modeling.

[e] Facility has shutdown with no existing operating permit.

[f] Modeled since PSD source with baseline emissions.

TABLE A-3
SUMMARY OF NO_x SOURCES INCLUDED IN THE AAQS MODELING ANALYSES

Facility ID	Facility Name / Emission Unit Description	EU ID	AERMOD ID Name	UTM Location X (m)	UTM Location Y (m)	Stack Parameters: Height ft	Height m	Diameter ft	Diameter m	Temperature °F	Temperature K	Velocity ft/s	Velocity m/s	NOx Annual Emission Rate (TPY)	NOx Annual Emission Rate (g/sec)	Modeled Source?
0990646	FPL West County Energy Center (WCEC)- Units 1 and 2															
	CT 1A - NG Firing 100%L/59°F (5,380 hours each)		G1A1059	562,217	2,953,556	149	45.42	22.0	6.71	194.9	363.7	59.6	18.17	55.09	1.585	Yes
	CT 1B - NG Firing 100%L/59°F		G1B1059	562,216	2,953,462	149	45.42	22.0	6.71	194.9	363.7	59.6	18.17	55.09	1.585	Yes
	CT 1C - NG Firing 100%L/59°F		G1C1059	562,215	2,953,417	149	45.42	22.0	6.71	194.9	363.7	59.6	18.17	55.09	1.585	Yes
	CT 1A - NG w DB Firing 100%L/59°F (2,880 hours each)		GD1A1059	562,217	2,953,556	149	45.42	22.0	6.71	184.5	357.9	59.1	18.01	34.99	1.007	Yes
	CT 1B - NG w DB Firing 100%L/59°F		GD1B1059	562,216	2,953,462	149	45.42	22.0	6.71	184.5	357.9	59.1	18.01	34.99	1.007	Yes
	CT 1C - NG w DB Firing 100%L/59°F		GD1C1059	562,215	2,953,417	149	45.42	22.0	6.71	184.5	357.9	59.1	18.01	34.99	1.007	Yes
	CT 1A - FO Firing 100%L/59°F (500 hours each)		O1A1059	562,217	2,953,556	149	45.42	22.0	6.71	357.0	453.7	73.9	22.54	18.80	0.541	Yes
	CT 1B - FO Firing 100%L/59°F		O1B1059	562,216	2,953,462	149	45.42	22.0	6.71	357.0	453.7	73.9	22.54	18.80	0.541	Yes
	CT 1C - FO Firing 100%L/59°F		O1C1059	562,215	2,953,417	149	45.42	22.0	6.71	357.0	453.7	73.9	22.54	18.80	0.541	Yes
													Total =	327		
	CT 2A - NG Firing 100%L/59°F (5,380 hours each)		G2A1059	562,217	2,953,556	149	45.42	22.0	6.71	194.9	363.7	59.6	18.17	55.09	1.585	Yes
	CT 2B - NG Firing 100%L/59°F		G2B1059	562,216	2,953,462	149	45.42	22.0	6.71	194.9	363.7	59.6	18.17	55.09	1.585	Yes
	CT 2C - NG Firing 100%L/59°F		G2C1059	562,215	2,953,417	149	45.42	22.0	6.71	194.9	363.7	59.6	18.17	55.09	1.585	Yes
	CT 2A - NG w DB Firing 100%L/59°F (2,880 hours each)		GD2A1059	562,217	2,953,556	149	45.42	22.0	6.71	184.5	357.9	59.1	18.01	34.99	1.007	Yes
	CT 2B - NG w DB Firing 100%L/59°F		GD2B1059	562,216	2,953,462	149	45.42	22.0	6.71	184.5	357.9	59.1	18.01	34.99	1.007	Yes
	CT 2C - NG w DB Firing 100%L/59°F		GD2C1059	562,215	2,953,417	149	45.42	22.0	6.71	184.5	357.9	59.1	18.01	34.99	1.007	Yes
	CT 2A - FO Firing 100%L/59°F (500 hours each)		O2A1059	562,217	2,953,556	149	45.42	22.0	6.71	357.0	453.7	73.9	22.54	18.80	0.541	Yes
	CT 2B - FO Firing 100%L/59°F		O2B1059	562,216	2,953,462	149	45.42	22.0	6.71	357.0	453.7	73.9	22.54	18.80	0.541	Yes
	CT 2C - FO Firing 100%L/59°F		O2C1059	562,215	2,953,417	149	45.42	22.0	6.71	357.0	453.7	73.9	22.54	18.80	0.541	Yes
													Total =	327		
	Natural Gas Heater 1		FULHEAT1	562,196	2,953,700	30	9.14	1.0	0.30	500.0	533.2	53.0	16.15	4.15	0.119	Yes
	Natural Gas Heater 2		FULHEAT2	562,196	2,953,317	30	9.14	1.0	0.30	500.0	533.2	53.0	16.15	4.15	0.119	Yes
990530	Hubbard Construction Company															
	Hot mix asphalt plant (175 TPH)	2	HUBB2	562,627	2,951,930	30.0	9.14	3.8	1.16	250.0	394.3	100.2	30.54	13.75	0.40	Yes
	Asphalt Cement Heater	3	HUBB3	562,627	2,951,930	30.0	9.14	3.8	1.16	250.0	394.3	100.2	30.54	1.4	0.04	Yes
	Units 2 and 3		HUBB23	562,627	2,951,930	30.0	9.14	3.8	1.16	250.0	394.3	100.2	30.54	15.15	0.44	Yes
0990349	SFWMD - Pump Station S-5A															
	Six -1600 hp diesel engines powering flood control pumps - potential	1	PS_S5A	562,860	2,951,370	16	4.88	3.26	0.99	775	685.9	17.4	5.30	249.5	7.19	Yes
0990620	SFWMD - Pump Station S-319															
	2005 bhp (3) and 1210 bhp (2) diesel engines - potential	1	PS_S319	566,300	2,951,220	58	17.68	1.5	0.46	650	616.5	109.6	33.41	249.5	7.19	Yes
0990621	SFWMD - Pump Station S-362															
	1303 bhp (3) and 839 hp (2) diesel engines - potential	1	PS_S362	567,210	2,944,980	60	18.29	1.33	0.41	650	616.5	96.7	29.47	300.2	8.65	Yes
0990016	Atlantic Sugar Association [a]															
	Boiler 1	1	ATLSUG1	552,900	2,945,200	90	27.43	6	1.83	180	355.4	61.1	18.62	275.2	7.93	Yes
	Boiler 2	2	ATLSUG2	552,900	2,945,200	90	27.43	6	1.83	180	355.4	60.1	18.32	275.2	7.93	Yes
	Boiler 3	3	ATLSUG3	552,900	2,945,200	90	27.43	6	1.83	197	364.8	59.7	18.20	255.5	7.36	Yes
	Boiler 4	4	ATLSUG4	552,900	2,945,200	90	27.43	6	1.83	158	343.2	62.7	19.11	249.6	7.19	Yes
	Units 1-4		ATLSUG14	552,900	2,945,200	90	27.4	6	1.83	158	343.2	62.7	19.11	1055.5	30.40	Yes
	Boiler 5 [b]	5	ATLSUG5	552,900	2,945,200	90	27.43	5.5	1.68	150	338.7	63.1	19.23	71.7	2.06	Yes
0990019	Osceola Farms [a]															
	Boiler #2	2	OSBLR2	544,200	2,968,000	90	27.43	5.0	1.52	155.9	342.0	40.7	12.41	241.9	6.97	Yes
	Boiler #3	3	OSBLR3	544,200	2,968,000	90	27.43	6.25	1.91	154.0	340.9	38.8	11.84	96	2.76	Yes
	Boiler #4	4	OSBLR4	544,200	2,968,000	90	27.43	6.0	1.83	153.6	340.7	59.5	18.14	241.9	6.97	Yes
	Boiler #5 East	5	OSBLR5E	544,200	2,968,000	90	27.43	5.0	1.52	150.0	338.7	56.9	17.33	142.6	4.11	Yes
	Boiler #5 West	5	OSBLR5W	544,200	2,968,000	90	27.43	5.0	1.52	150.0	338.7	46.7	14.23	142.6	4.11	Yes
	Boiler #6	6	OSBLR6	544,200	2,968,000	90	27.43	6.17	1.88	151.0	339.3	53.0	16.14	96	2.76	Yes
	Units 2-6		OSBLR5W	544,200	2,968,000	90	27.43	5.0	1.52	150.0	338.7	46.7	14.23	961.0	27.68	Yes

TABLE A-3
SUMMARY OF NO_x SOURCES INCLUDED IN THE AAQS MODELING ANALYSES

Facility ID	Facility Name / Emission Unit Description	EU ID	AERMOD ID Name	UTM Location X (m)	UTM Location Y (m)	Stack Parameters: Height ft	Height m	Diameter ft	Diameter m	Temperature °F	Temperature K	Velocity ft/s	Velocity m/s	NOx Annual Emission Rate (TPY)	NOx Annual Emission Rate (g/sec)	Modeled Source?
0990234	Solid Waste Authority Of PBC															
	Municipal Solid Waste Boiler #1 - potential	1	PBCRRF1	584,490	2,961,260	250	76.20	6.7	2.04	450	505.4	81	24.69	1247.29	35.92	Yes
	Municipal Solid waste boiler #2 - potential	2	PBCRRF2	584,490	2,961,260	250	76.20	6.7	2.04	450	505.4	81	24.69	1247.29	35.92	Yes
	Boilers 1 and 2		PBCRRF12	584,490	2,961,260	250	76.20	6.7	2.04	450	505.4	81	24.69	2494.58	71.84	Yes
	Class III Landfill with Flare	4	PBCRRF3	584,490	2,961,260	23	7.01	0.5	0.15	1400	1033.2	152.8	46.57	15.8	0.46	Yes
0990021	United Technologies Corporation															
	Air compressor/heater (ACHR-2-B2)	1	PRATARCH	568,410	2,975,840	50	15.24	3	0.91	1000	810.9	471	143.56	572.25	16.48	Yes
	Boiler (BO-12-E6)	16	PRATBO12	568,410	2,975,840	15	4.57	2.5	0.76	500	533.2	22	6.71	26.28	0.76	Yes
	Boilers (BO-1-MBH and BO-2-BMH)	22	PRAT22	568,410	2,975,840	66	20.12	7.6	2.32	750	672.0	33	10.06	63.678	1.83	Yes
	Two furnaces (FU-3-MHT, FU-4-MHT), 6 MMBTUH each	40	PRAT40	568,410	2,975,840	48.9	14.90	3.9	1.19	77.1	298.2	0.13	0.04	5.1	0.15	Yes
	Water evaporator (EV-1-MW) w/heat input of 0.2 MMBTUH	45	PRAT45	568,410	2,975,840	12.1	3.69	0.7	0.21	77.1	298.2	8.5	2.59	0.084	0.00	Yes
	Miscellaneous air and fuel heaters fired with natural gas	59	PRAT59	568,410	2,975,840	20	6.10	1.6	0.49	500.1	533.2	16.1	4.91	31.8	0.92	Yes
	Units 16, 22, 40, 45, and 59		PRAT45	568,410	2,975,840	12.1	3.69	0.7	0.21	77.1	298.2	8.5	2.59	126.94	3.66	Yes
	Boiler (BO-14-E8)	66	PRATBO14	568,410	2,975,840	24	7.32	1.3	0.40	464.7	513.5	108.8	33.16	4.743	0.14	Yes
	Ten existing jet engine test stands located in Test Area A	69	PRAT69	568,410	2,975,840	18	5.49	12.1	3.69	299.9	422.0	0.26	0.08	813.6	23.43	Yes
	CT Test Stands	77	PRAT77	568,410	2,975,840	19	5.79	13.7	4.18	280	410.9	350	106.68	39.9	1.15	Yes
0990026	Sugar Cane Growers Co-Op															
	On-crop season [a]															
	Unit 1	1	SCBLR1N	534,900	2,953,300	150.0	45.72	7.0	2.13	156.0	342.0	49.6	15.12	556.5	16.03	Yes
	Unit 2	2	SCBLR2N	534,900	2,953,300	150.0	45.72	7.0	2.13	156.0	342.0	51.1	15.58	550.6	15.86	Yes
	Unit 3	3	SCBLR3N	534,900	2,953,300	180.0	54.86	5.3	1.62	156.0	342.0	40.3	12.28	438.2	12.62	Yes
	Unit 4	4	SCBLR4N	534,900	2,953,300	180.0	54.86	8.9	2.72	162.0	345.4	54.1	16.49	1,195.1	34.42	Yes
	Unit 5	5	SCBLR5N	534,900	2,953,300	150.0	45.72	7.0	2.13	160.0	344.3	77.1	23.50	916.2	26.39	Yes
	Unit 8	8	SCBLR8N	534,900	2,953,300	155.0	47.24	9.5	2.90	154.0	340.9	37.6	11.46	449.0	12.93	Yes
	Off-crop season [a]															
	Unit 1		SCRBLR1F	534,900	2,953,300	150.0	45.73	7.0	2.13	156	342	49.6	15.12	556.5	16.03	Yes
	Unit 4		SCRBLR4F	534,900	2,953,300	180.0	54.86	8.9	2.72	162	345	54.1	16.49	1,195.1	34.42	Yes
0990061	U.S. Sugar Corp. Bryant Mill [a] (Shutdown; no operating permit)															
	Boiler No. 1	1	USBRY1	537,830	2,969,120	65	19.81	5.4	1.65	160	344.3	113.5	34.59	343	9.88	No
	Boiler No. 2	2	USBRY2	537,830	2,969,120	65	19.81	5.4	1.65	160	344.3	113.5	34.59	343	9.88	No
	Boiler No. 3	3	USBRY3	537,830	2,969,120	65	19.81	5.4	1.65	160	344.3	113.5	34.59	343	9.88	No
	Boiler Nos. 1, 2, 3		USBRY123	537,830	2,969,120	65	19.81	5.4	1.65	160	344.3	113.5	34.59	1029	29.64	No
	Boiler No. 5	5	USBRY5	537,830	2,969,120	150	45.72	9	2.74	142	334.3	54	16.46	388	11.17	No
	Diesel Electric Generator General Motors 16-567-B	7	USBRY7	537,830	2,969,120	28	8.53	1.2	0.37	475	519.3	40	12.19	262	7.55	No
	Diesel Electric Generator General Motors 16-567-C	8	USBRY8	537,830	2,969,120	28	8.53	1.2	0.37	475	519.3	42	12.80	278	8.01	No
	Diesel Generators 1-2		USSBRY78	537,830	2,969,120	28	8.53	1.2	0.37	475	519.3	40	12.19	540	15.55	No
0990045	City of Lake Worth Utilities															
	Diesel Generator Units 1-5	1-5	LAKWTHDG	487,500	2,957,600	17.0	5.2	1.83	0.6	667.0	625.9	121.7	37.09	2184.6	62.92	Yes
	Gas Turbine No.1	6	LAKWTHGT	487,500	2,957,600	46.0	14.0	16.0	4.9	837.0	720.4	81.5	24.84	1715.0	49.39	Yes
	Unit 3, S-3	9	LAKWTHU3	487,500	2,957,600	113.0	34.4	7.0	2.1	293.0	418.2	51.4	15.70	712.0	20.51	Yes
	Unit 4, S-4	10	LAKWTHU4	487,500	2,957,600	115.0	35.1	7.5	2.3	293.0	418.2	55.8	17.00	918.0	26.44	Yes
	Combined Cycle Unit, S-5	11	LAKWTHU5	487,500	2,957,600	75.0	22.9	10.0	3.0	404.0	479.8	87.5	27.80	1252.0	36.06	Yes
0990042	Florida Power & Light, Riviera (PRV)															
	Units 3&4 Potential		RIVU34	593,270	2,960,620	298	90.8	16.0	4.88	263.0	401.5	88.1	26.9	16565.2	477.08	Yes
0990332	New Hope Power Partnership															
	Cogeneration Boilers A, B, & C	1	OKCOGENF	524,920	2,939,440	199	60.66	10	3.05	352	450.9	67.7	20.63	862.5	24.84	Yes

TABLE A-3
SUMMARY OF NO_x SOURCES INCLUDED IN THE AAQS MODELING ANALYSES

Facility ID	Facility Name / Emission Unit Description	EU ID	AERMOD ID Name	UTM Location X (m)	UTM Location Y (m)	Stack Parameters Height ft	Height m	Diameter ft	Diameter m	Temperature °F	Temperature K	Velocity ft/s	Velocity m/s	NOx Annual Emission Rate (TPY)	NOx Annual Emission Rate (g/sec)	Modeled Source?
0990005	Okeelanta Corp [a]															
	Boiler No. 16 [b]	16	OKBLR16	524700	2939500.0	75.0	22.86	5.0	1.52	410	483	75.0	22.86	184.8	5.32	Yes
0850102	Indiantown Cogeneration, L.P.															
	Pulverized Coal Main Boiler	1	INDTOWN1	547,650	2,990,700	495	150.88	16	4.88	140	333.2	93.2	28.41	2549	73.41	Yes
	Aux Boilers (2)	7	INDTOWN3	547,650	2,990,700	210	64.01	5	1.52	551	561.5	124.4	37.92	35	1.01	Yes
0850001	Florida Power & Light, Martin (PMR)															
	Units 1 & 2 Potential	1	MART12	542,680	2,992,650	499	152.10	36	10.97	338	443.2	43.1	13.14	22732.2	654.69	Yes
	Units 3 & 4 Potential	3	MART34	542,680	2,992,650	213	64.92	20	6.10	280	410.9	128.4	39.14	12432	358.04	Yes
	Unit 8 Potential	11	MART8	542,680	2,992,650	120	36.58	19	5.79	202	367.6	59	17.98	678	19.53	Yes
	Auxiliary Boiler	7	MARTAUX	542,680	2,992,650	60	18.29	3.6	1.10	490	527.6	50	15.24	21.37	0.62	Yes
0112120	Wheelabrator North Broward, Inc.															
	807 TPD MSW Combustor & Auxiliary Burners- Units 1, 2, & 3	1	WHEELN1	583,900	2,907,600	195	59.44	7.5	2.29	300	422.0	63.8	19.45	1399.2	40.30	Yes
0250348	Miami-Dade Resource Recovery															
	Units 1,2,3,4 Potential	14	MDCRRF	563830	2857620.0	249.9	76.20	8.5	2.59	300	422	66.7	20.34	2,459.6	70.84	Yes
0510003	U.S. Sugar Clewiston Mill and Refinery															
	On-crop season [a]															
	Boiler No. 1	001	USSBLR1N	506,100	2,956,900	213.0	64.92	8.0	2.44	150.0	338.7	82.9	25.27	222.0	6.39	Yes
	Boiler No. 2	002	USSBLR2N	506,100	2,956,900	213.0	64.92	8.0	2.44	150.0	338.7	82.9	25.27	222.0	6.39	Yes
	Boiler No. 4	009	USSBLR4N	506,100	2,956,900	150.0	45.72	8.2	2.50	160.0	344.3	88.7	27.04	288.0	8.29	Yes
	Boiler No. 7	014	USSBLR7N	506,100	2,956,900	225.0	68.58	8.0	2.44	335.0	441.5	94.5	28.80	809.0	23.30	Yes
	Boiler No. 8	028	USSBLR8N	506,100	2,956,900	199.0	60.66	10.9	3.32	315.0	430.4	75.7	23.07	473.7	13.64	Yes
	Off-crop season [a]															
	Boiler No. 7	014	USSBLR7F	506,100	2,956,900	225.0	68.58	8.0	2.44	335.0	441.5	94.5	28.80	809.0	23.30	Yes
	Boiler No. 8	028	USSBLR8F	506,100	2,956,900	199.0	60.66	10.9	3.32	315.0	430.4	75.7	23.07	473.7	13.64	Yes
	Sugar Refinery Sources															
	Granular Carbon Furnace S-12	017	S12	506,100	2,956,900	30.0	9.14	2.00	0.61	160.0	344.3	22.8	6.95	13.14	0.38	Yes
0110037	Florida Power & Light, Fort Lauderdale (PFL)															
	CTs (Units 4A, 4B, 5A, 5B) Potential		LAUDU45	557,490	2,852,050	150	45.7	18.0	5.5	330.0	438.7	158.7	48.37	4868.00	140.20	Yes
	GTs 1-12 (0.5% fuel oil) potential		LDGT1_12	557,490	2,852,050	45	13.7	15.6	4.8	860.0	733.2	93.3	28.44	3320.60	95.63	Yes
	GTs 13-24 (0.5% fuel oil) potential		LDGT1324	557,490	2,852,050	45	13.7	15.6	4.8	860.0	733.2	93.3	28.44	3320.60	95.63	Yes
0110036	FPL, Port Everglades Plant (PPE)															
	Units 1&2 potential		PTEVU12	587,400	2,885,300	342.8	104.5	14.0	4.27	289.0	415.9	87.7	26.72	7253.2	208.89	Yes
	Units 3&4 potential		PTEVU34	587,400	2,885,300	342.8	104.5	18.1	5.52	287.0	414.8	78.3	23.88	18571.2	534.85	Yes
	GT 1-12 (0.5% fuel oil)		PTEVGTS	587,400	2,885,300	44.0	13.4	15.6	4.75	860.1	733.2	93.3	28.43	33207.0	956.36	Yes
1110003	Ft. Pierce Utilities Authority															
	16.5 MW Boiler Unit #6 potential	6	FPUA6	570,700	2,856,760	148.0	45.1	5.0	1.5	325	435.9	36.0	10.97	13.1	0.38	Yes
	37.5 MW Boiler Unit #7 potential	7	FPUA7	570,700	2,856,760	147.0	44.8	7.1	2.2	308	426.5	61.1	18.62	457.1	13.16	Yes
	56.1 MW Boiler Unit #8 potential (Units 6,7,8 limited to 622 TPY)	8	FPUA8	570,700	2,856,760	150.0	45.7	8.0	2.4	334	440.9	83.6	25.48	151.8	4.37	Yes
	23.4 MW CCGT with 8.2 MW HRSG Unit # 9	9	FPUA9	570,700	2,856,760	68.0	20.7	11.2	3.4	426	492.0	59.8	18.23	562.4	16.20	Yes
0250014	Rinker Materials Corporation															
	Kiln System (raw mill, kiln PH/PC and clinker cooler)	18	RMC18	557,490	2,852,050	359.0	109.4	8.0	2.4	464	513.2	160.9	49.04	2,600.0	74.88	Yes
0112119	Wheelabrator South Broward, Inc.															
	MSW Combustor & Auxiliary Burners - Units 1,2,3	1	SBCRRF	578,870	2,883,390	195.0	59.4	7.5	2.3	300	422.0	63.8	19.4	1,497.0	43.11	Yes

[a] Facilities or sources within facilities that operate only during the October 1 through April 31 crop season. For sources identified operating during off-crop season, the season is May through September.

[b] Sugar mill sources that operate all year.

TABLE A-4
SUMMARY OF NO_x SOURCES INCLUDED IN THE PSD CLASS II MODELING ANALYSES

Facility ID	Facility Name / Emission Unit Description	EU ID	AERMOD ID Name	UTM Location East (m)	UTM Location North (m)	Stack Parameters Height ft	Height m	Diameter ft	Diameter m	Temperature °F	Temperature K	Velocity ft/s	Velocity m/s	NOx Annual Emission Rate (TPY)	NOx Annual Emission Rate (g/sec)	PSD Source? (EXP/CON)	Modeled Source?	
0990646	FPL West County Energy Center (WCEC)- Units 1 and 2																	
	CT 1A - NG Firing 100%L/59°F (5,380 hours each)		G1A1059	562,217	2,953,556	149	45.42	22.0	6.71	194.9	363.7	59.6	18.17	55.09	1.585	CON	Yes	P
	CT 1B - NG Firing 100%L/59°F		G1B1059	562,216	2,953,462	149	45.42	22.0	6.71	194.9	363.7	59.6	18.17	55.09	1.585	CON	Yes	P
	CT 1C - NG Firing 100%L/59°F		G1C1059	562,215	2,953,417	149	45.42	22.0	6.71	194.9	363.7	59.6	18.17	55.09	1.585	CON	Yes	P
	CT 1A - NG w DB Firing 100%L/59°F (2,880 hours each)		GD1A1059	562,217	2,953,556	149	45.42	22.0	6.71	184.5	357.9	59.1	18.01	34.99	1.007	CON	Yes	P
	CT 1B - NG w DB Firing 100%L/59°F		GD1B1059	562,216	2,953,462	149	45.42	22.0	6.71	184.5	357.9	59.1	18.01	34.99	1.007	CON	Yes	P
	CT 1C - NG w DB Firing 100%L/59°F		GD1C1059	562,215	2,953,417	149	45.42	22.0	6.71	184.5	357.9	59.1	18.01	34.99	1.007	CON	Yes	P
	CT 1A - FO Firing 100%L/59°F (500 hours each)		O1A1059	562,217	2,953,556	149	45.42	22.0	6.71	357.0	453.7	73.9	22.54	18.80	0.541	CON	Yes	P
	CT 1B - FO Firing 100%L/59°F		O1B1059	562,216	2,953,462	149	45.42	22.0	6.71	357.0	453.7	73.9	22.54	18.80	0.541	CON	Yes	P
	CT 1C - FO Firing 100%L/59°F		O1C1059	562,215	2,953,417	149	45.42	22.0	6.71	357.0	453.7	73.9	22.54	18.80	0.541	CON	Yes	P
													Total =	327				
	CT 2A - NG Firing 100%L/59°F (5,380 hours each)		G2A1059	562,217	2,953,556	149	45.42	22.0	6.71	194.9	363.7	59.6	18.17	55.09	1.585	CON	Yes	P
	CT 2B - NG Firing 100%L/59°F		G2B1059	562,216	2,953,462	149	45.42	22.0	6.71	194.9	363.7	59.6	18.17	55.09	1.585	CON	Yes	P
	CT 2C - NG Firing 100%L/59°F		G2C1059	562,215	2,953,417	149	45.42	22.0	6.71	194.9	363.7	59.6	18.17	55.09	1.585	CON	Yes	P
	CT 2A - NG w DB Firing 100%L/59°F (2,880 hours each)		GD2A1059	562,217	2,953,556	149	45.42	22.0	6.71	184.5	357.9	59.1	18.01	34.99	1.007	CON	Yes	P
	CT 2B - NG w DB Firing 100%L/59°F		GD2B1059	562,216	2,953,462	149	45.42	22.0	6.71	184.5	357.9	59.1	18.01	34.99	1.007	CON	Yes	P
	CT 2C - NG w DB Firing 100%L/59°F		GD2C1059	562,215	2,953,417	149	45.42	22.0	6.71	184.5	357.9	59.1	18.01	34.99	1.007	CON	Yes	P
	CT 2A - FO Firing 100%L/59°F (500 hours each)		O2A1059	562,217	2,953,556	149	45.42	22.0	6.71	357.0	453.7	73.9	22.54	18.80	0.541	CON	Yes	P
	CT 2B - FO Firing 100%L/59°F		O2B1059	562,216	2,953,462	149	45.42	22.0	6.71	357.0	453.7	73.9	22.54	18.80	0.541	CON	Yes	P
	CT 2C - FO Firing 100%L/59°F		O2C1059	562,215	2,953,417	149	45.42	22.0	6.71	357.0	453.7	73.9	22.54	18.80	0.541	CON	Yes	P
													Total =	327				
	Natural Gas Heater 1		FULHEAT1	562,196	2,953,700	30	9.14	1.0	0.30	500.0	533.2	53.0	16.15	4.15	0.119	CON	Yes	P
	Natural Gas Heater 2		FULHEAT2	562,196	2,953,317	30	9.14	1.0	0.30	500.0	533.2	53.0	16.15	4.15	0.119	CON	Yes	P
990530	Hubbard Construction Company																	
	Hot mix asphalt plant (175 TPH)	2	HUBB2	562,627	2,951,930	30.0	9.14	3.8	1.16	250.0	394.3	100.2	30.54	13.75	0.40	CON	Yes	P
	Asphalt Cement Heater	3	HUBB3	562,627	2,951,930	30.0	9.14	3.8	1.16	250.0	394.3	100.2	30.54	1.4	0.04	CON	Yes	P
	Units 2 and 3		HUBB23	562,627	2,951,930	30.0	9.14	3.8	1.16	250.0	394.3	100.2	30.54	15.15	0.44	CON	Yes	P
0990349	SFWMD - Pump Station S-5A																	
	Six -1600 hp diesel engines powering flood control pumps	1	PS_S5A	562,860	2,951,370	16	4.88	3.26	0.99	775	685.9	17.4	5.30	47.9	1.38	CON	Yes	A
0990620	SFWMD - Pump Station S-319																	
	2005 bhp (3) and 1210 bhp (2) diesel engines	1	PS_S319	566,300	2,951,220	58	17.68	1.5	0.46	650	616.5	109.6	33.41	4.34	0.12	CON	Yes	A
0990621	SFWMD - Pump Station S-362																	
	1303 bhp (3) and 839 hp (2) diesel engines	1	PS_S362	567,210	2,944,980	60	18.29	1.33	0.41	650	616.5	96.7	29.47	2.55	0.07	CON	Yes	A
0990016	Atlantic Sugar Association [a]																	
	Boiler 1	1	ATLSUG1	552,900	2,945,200	90	27.43	6	1.83	180	355.4	61.1	18.62	275.2	7.93	NO	No	c
	Boiler 2	2	ATLSUG2	552,900	2,945,200	90	27.43	6	1.83	180	355.4	60.1	18.32	275.2	7.93	NO	No	c
	Boiler 3	3	ATLSUG3	552,900	2,945,200	90	27.43	6	1.83	197	364.8	59.7	18.20	255.5	7.36	NO	No	c
	Boiler 4	4	ATLSUG4	552,900	2,945,200	90	27.43	6	1.83	158	343.2	62.7	19.11	249.6	7.19	NO	No	c
	Units 1-4		ATLSUG14	552,900	2,945,200	90	27.4	6	1.83	158	343.2	62.7	19.11	1055.5	30.40	NO	No	c
	Boiler 5 [b]	5	ATLSUG5	552,900	2,945,200	90	27.43	5.5	1.68	150	338.7	53.3	16.25	71.7	2.06	CON	Yes	P
	Boiler 5 Baseline	5	ATLSUG5B	552,900	2,945,200	90	27.43	5.5	1.68	150	338.7	51.5	15.70	-14.78	-0.43	EXP	Yes	A
0990019	Osceola Farms [a]																	
	Boiler #2	2	OSBLR2	544,200	2,968,000	90	27.43	5.0	1.52	155.9	342.0	40.7	12.41	241.9	6.97	CON	Yes	P
	Boiler #3	3	OSBLR3	544,200	2,968,000	90	27.43	6.25	1.91	154.0	340.9	38.8	11.84	96	2.76	CON	Yes	P
	Boiler #4	4	OSBLR4	544,200	2,968,000	90	27.43	6.0	1.83	153.6	340.7	59.5	18.14	241.9	6.97	CON	Yes	P
	Boiler #5 East	5	OSBLR5E	544,200	2,968,000	90	27.43	5.0	1.52	150.0	338.7	56.9	17.33	142.6	4.11	CON	Yes	P
	Boiler #5 West	5	OSBLR5W	544,200	2,968,000	90	27.43	5.0	1.52	150.0	338.7	46.7	14.23	142.6	4.11	CON	Yes	P
	Boiler #6	6	OSBLR6	544,200	2,968,000	90	27.43	6.17	1.88	151.0	339.3	53.0	16.14	96	2.76	CON	Yes	P
	Units 2-6		OSBLR5W	544,200	2,968,000	90	27.43	5.0	1.52	150.0	338.7	46.7	14.23	961.0	27.68	CON	Yes	P

TABLE A-4
SUMMARY OF NO_x SOURCES INCLUDED IN THE PSD CLASS II MODELING ANALYSES

Facility ID	Facility Name / Emission Unit Description	EU ID	AERMOD ID Name	UTM Location East (m)	UTM Location North (m)	Stack Parameters Height ft	Height m	Diameter ft	Diameter m	Temperature °F	Temperature K	Velocity ft/s	Velocity m/s	NOx Annual Emission Rate (TPY)	NOx Annual Emission Rate (g/sec)	PSD Source? (EXP/CON)	Modeled Source?	
	Boiler #2 PSD Baseline	3	OSBLR2B	544,200	2,968,000	72.2	22.01	5.0	1.52	154	341	59.4	18.11	-37.64	-1.08	EXP	Yes	A
	Boiler #3 PSD Baseline	4	OSBLR3B	544,200	2,968,000	72.2	22.01	6.3	1.93	154	341	47.6	14.51	-16.89	-0.49	EXP	Yes	A
	Boiler #4 PSD Baseline	5	OSBLR4B	544,200	2,968,000	72.2	22.01	6.0	1.83	154	341	61.7	18.81	-30.37	-0.87	EXP	Yes	A
	Boiler #5 PSD Baseline	5	OSBLR5B	544,200	2,968,000	72.2	22.01	5.0	1.52	156	342	39.4	12.02	-38.33	-1.10	EXP	Yes	A
	Boiler #6 PSD Baseline	6	OSBLR6B	544,200	2,968,000	90	27.43	6.3	1.93	155	341	56.0	17.07	-39.93	-1.15	EXP	Yes	A
0990234	Solid Waste Authority Of PBC																	
	Municipal Solid Waste Boiler #1	1	PBCRRF1	584,490	2,961,260	250	76.20	6.7	2.04	450	505.4	81	24.69	450.6	12.98	CON	Yes	A
	Municipal Solid Waste Boiler #2	2	PBCRRF2	584,490	2,961,260	250	76.20	6.7	2.04	450	505.4	81	24.69	492.1	14.17	CON	Yes	A
	Boilers 1 and 2		PBCRRF12	584,490	2,961,260	250	76.20	6.7	2.04	450	505.4	81	24.69	942.7	27.15	CON	Yes	A
	Class III Landfill with Flare - actual	4	PBCRRF3	584,490	2,961,260	23	7.01	0.5	0.15	1400	1033.2	152.8	46.57	5.3	0.15	CON	Yes	A
0990021	United Technologies Corporation																	
	Air compressor/heater (ACHR-2-B2)	1	PRATARCH	568,410	2,975,840	50	15.24	3	0.91	1000	810.9	471	143.56	572.25	16.48	CON	Yes	P
	Boiler (BO-12-E6)	16	PRATBO12	568,410	2,975,840	15	4.57	2.5	0.76	500	533.2	22.7	6.92	1.9	0.055	CON	Yes	P
	Boilers (BO-1-MBH and BO-2-BMH)	22	PRAT22	568,410	2,975,840	66	20.12	7.6	2.32	750	672.0	33	10.06	0.71	0.020	CON	Yes	A
	Two furnaces (FU-3-MHT, FU-4-MHT), 6 MMBTUH each	40	PRAT40	568,410	2,975,840	48.9	14.90	3.9	1.19	77.1	298.2	0.13	0.04	0.16	0.005	CON	Yes	A
	Water evaporator (EV-1-MW) w/heat input of 0.2 MMBTUH	45	PRAT45	568,410	2,975,840	12.1	3.69	0.7	0.21	77.1	298.2	8.5	2.59	0.03	0.001	CON	Yes	A
	Miscellaneous air and fuel heaters fired with natural gas	59	PRAT59	568,410	2,975,840	20	6.10	1.6	0.49	500.1	533.2	16.1	4.91	0.09	0.003	CON	Yes	A
	Units 22, 40, 45, and 59		PRAT45	568,410	2,975,840	12.1	3.69	0.7	0.21	77.1	298.2	8.5	2.59	2.89	0.029	CON	Yes	A
	Boiler (BO-14-E8)	66	PRAT66	568,410	2,975,840	24	7.32	1.3	0.40	464.7	513.5	108.8	33.16	4.743	0.14	CON	Yes	P
	Ten existing jet engine test stands located in Test Area A	69	PRAT69	568,410	2,975,840	18	5.49	12.1	3.69	299.9	422.0	0.26	0.08	245	7.06	CON	Yes	P
	CT Test Stands	77	PRATA10	568,410	2,975,840	19	5.79	13.7	4.18	280	410.9	350	106.68	39.9	1.15	CON	Yes	P
0990026	Sugar Cane Growers Co-Op																	
	On-crop season [a]																	
	Unit 1	1	SCBLR1N	534,900	2,953,300	150.0	45.72	7.0	2.13	156.0	342.0	49.6	15.12	556.5	16.03	CON	Yes	P
	Unit 2	2	SCBLR2N	534,900	2,953,300	150.0	45.72	7.0	2.13	156.0	342.0	51.1	15.58	550.6	15.86	CON	Yes	P
	Unit 3	3	SCBLR3N	534,900	2,953,300	180.0	54.86	5.3	1.62	156.0	342.0	40.3	12.28	438.2	12.62	CON	Yes	P
	Unit 4	4	SCBLR4N	534,900	2,953,300	180.0	54.86	8.9	2.72	162.0	345.4	54.1	16.49	1,195.1	34.42	CON	Yes	P
	Unit 5	5	SCBLR5N	534,900	2,953,300	150.0	45.72	7.0	2.13	160.0	344.3	77.1	23.50	916.2	26.39	CON	Yes	P
	Unit 8	8	SCBLR8N	534,900	2,953,300	155.0	47.24	9.5	2.90	154.0	340.9	37.6	11.46	449.0	12.93	CON	Yes	P
	Off-crop season [a]																	
	Unit 1		SCRBLR1F	534,900	2,953,300	150.0	45.73	7.0	2.13	156	342	49.6	15.12	556.5	16.03	CON	Yes	P
	Unit 4		SCRBLR4F	534,900	2,953,300	180.0	54.86	8.9	2.72	162	345	54.1	16.49	1,195.1	34.42	CON	Yes	P
	Baseline																	
	Boiler No. 1 PSD Baseline Off-crop season		SCRBLR1BF	534,900	2,953,300	80.0	24.39	4.3	1.32	150	339	55.4	16.89	-12.8	-0.37	EXP	Yes	A
	Boiler No. 2 PSD Baseline Off-crop season		SCRBLR2BF	534,900	2,953,300	80.0	24.39	4.3	1.32	150	339	55.4	16.89	-9.6	-0.28	EXP	Yes	A
	Boiler No. 3 PSD Baseline Off-crop season		SCRBLR3BF	534,900	2,953,300	80.0	24.39	5.3	1.62	150	339	77.0	23.48	-13.7	-0.39	EXP	Yes	A
	Boiler Nos. 1, 2, and 3 PSD Baseline Off-crop		BLR123BF	534,900	2,953,300	80.0	24.39	4.3	1.32	150	339	55.4	16.89	-36.1	-1.04	EXP	Yes	A
	Boiler No. 4 PSD Baseline Off-crop season		SCRBLR4BF	534,900	2,953,300	110.0	33.54	9.5	2.88	150	339	52.2	15.91	-25.6	-0.74	EXP	Yes	A
	Boiler No. 5 PSD Baseline Off-crop season		SCRBLR5BF	534,900	2,953,300	80.0	24.39	5.3	1.62	150	339	52.3	15.95	-17.1	-0.49	EXP	Yes	A
	Boiler No. 8 PSD Baseline Off-crop season		SCRBLR8BF	534,900	2,953,300	155.0	47.24	9.5	2.90	150	339	45.0	13.62	-25.9	-0.75	EXP	Yes	A
	Boiler No. 1 PSD Baseline On-crop season		SCRBLR1BN	534,900	2,953,300	80.0	24.39	4.3	1.32	150	339	55.4	16.89	-26.1	-0.75	EXP	Yes	A
	Boiler No. 2 PSD Baseline On-crop season		SCRBLR2BN	534,900	2,953,300	80.0	24.39	4.3	1.32	150	339	55.4	16.89	-19.6	-0.56	EXP	Yes	A
	Boiler No. 3 PSD Baseline On-crop season		SCRBLR3BN	534,900	2,953,300	80.0	24.39	5.3	1.62	150	339	77.0	23.48	-27.9	-0.80	EXP	Yes	A
	Boiler Nos. 1, 2, and 3 PSD Baseline On-crop		BLR123BN	534,900	2,953,300	80.0	24.39	4.3	1.32	150	339	55.4	16.89	-73.6	-2.12	EXP	Yes	A
	Boiler No. 4 PSD Baseline On-crop season		SCRBLR4BN	534,900	2,953,300	110.0	33.54	9.5	2.88	150	339	52.2	15.91	-52.1	-1.50	EXP	Yes	A
	Boiler No. 5 PSD Baseline On-crop season		SCRBLR5BN	534,900	2,953,300	80.0	24.39	5.3	1.62	150	339	52.3	15.95	-34.7	-1.00	EXP	Yes	A
	Boiler No. 8 PSD Baseline Off-crop season		SCRBLR8BN	534,900	2,953,300	155.0	47.24	9.5	2.90	150	339	45.0	13.62	-52.6	-1.51	EXP	Yes	A

TABLE A-4
SUMMARY OF NO_x SOURCES INCLUDED IN THE PSD CLASS II MODELING ANALYSES

Facility ID	Facility Name / Emission Unit Description	EU ID	AERMOD ID Name	UTM Location East (m)	UTM Location North (m)	Stack Parameters Height ft	Height m	Diameter ft	Diameter m	Temperature °F	Temperature K	Velocity ft/s	Velocity m/s	NOx Annual Emission Rate (TPY)	NOx Annual Emission Rate (g/sec)	PSD Source? (EXP/CON)	Modeled Source?	
0990061	U.S. Sugar Corp. Bryant Mill [a] (Shutdown; no operating permit)																	
	Boiler No. 1	1	USBRY1	537,830	2,969,120	65	19.81	5.4	1.65	160	344.3	113.5	34.59	343	9.88	NO	No	
	Boiler No. 2	2	USBRY2	537,830	2,969,120	65	19.81	5.4	1.65	160	344.3	113.5	34.59	343	9.88	NO	No	
	Boiler No. 3	3	USBRY3	537,830	2,969,120	65	19.81	5.4	1.65	160	344.3	113.5	34.59	343	9.88	NO	No	
	Boiler Nos. 1, 2, 3		USBRY123	537,830	2,969,120	65	19.81	5.4	1.65	160	344.3	113.5	34.59	1029	29.64	NO	No	
	Boiler No. 5	5	USBRY5	537,830	2,969,120	150	45.72	9	2.74	142	334.3	54	16.46	388	11.17	NO	No	
	Diesel Electric Generator General Motors 16-567-B	7	USBRY7	537,830	2,969,120	28	8.53	1.2	0.37	475	519.3	40	12.19	262	7.55	NO	No	
	Diesel Electric Generator General Motors 16-567-C	8	USBRY8	537,830	2,969,120	28	8.53	1.2	0.37	475	519.3	42	12.80	278	8.01	NO	No	
	Diesel Generators 1-2		USSBRY78	537,830	2,969,120	28	8.53	1.2	0.37	475	519.3	40	12.19	540	15.55	NO	No	
	Unit 1 PSD Baseline		USSBRY1B	537,830	2,969,120	65	19.81	5.4	1.65	160	344.3	87	26.52	-83.6	-2.41	EXP	Yes	A
	Unit 2 PSD Baseline		USSBRY2B	537,830	2,969,120	65	19.81	5.4	1.65	156	342.0	95	28.96	-88.9	-2.56	EXP	Yes	A
	Unit 3 PSD Baseline		USSBRY3B	537,830	2,969,120	65	19.81	5.4	1.65	160	344.3	95	28.96	-77.5	-2.23	EXP	Yes	A
	Units 1-3 PSD Baseline		USSBR123B	537,830	2,969,120	65	19.81	5.4	1.65	156	342.0	95	28.96	-250	-7.20	EXP	Yes	A
	Unit 5 PSD Baseline		USSBRY5B	537,830	2,969,120	150	45.72	9	2.74	142	334.3	54	16.46	-127.9	-3.68	EXP	Yes	
0990045	City of Lake Worth Utilities																	
	Diesel Generator Units 1-5	1-5	LAKWTHDG	592,800	2,943,700	17.0	5.2	1.83	0.6	667.0	625.9	121.7	37.09	17.0	0.49	NO	No	c
	Gas Turbine No.1	6	LAKWTHGT	592,800	2,943,700	46.0	14.0	16.0	4.9	837.0	720.4	81.5	24.84	18.2	0.53	NO	No	c
	Steam Generator Unit 1	7	LAKWTHU1	592,800	2,943,700	60.0	18.3	5.0	1.5	311.0	428.2	34.5	10.52	-243.0	-7.00	EXP	Yes	
	Unit 3, S-3	9	LAKWTHU3	592,800	2,943,700	113.0	34.4	7.0	2.1	293.0	418.2	51.4	15.70	20.6	0.59	NO	No	c
	Unit 4, S-4	10	LAKWTHU4	592,800	2,943,700	115.0	35.1	7.5	2.3	293.0	418.2	55.8	17.00	918.0	26.44	NO	No	c
	Combined Cycle Unit, S-5	11	LAKWTHU5	592,800	2,943,700	75.0	22.9	10.0	3.0	404.0	479.8	87.5	27.80	39.2	1.13	NO	No	c
0990042	Florida Power & Light, Riviera (PRV)																	
	Units 3&4 PSD Baseline		RIVU34B	593,270	2,960,620	298	90.8	16.0	4.88	263.0	401.5	88.1	26.9	-8344.0	-240.31	EXP	Yes	A
	Units 3&4		RIVU34	593,270	2,960,620	298	90.8	16.0	4.88	263.0	401.5	88.1	26.9	4355.8	125.45	CON	Yes	A
	Unit 1 PSD Baseline		RIVU1	593,270	2,960,620	150	45.7	10.8	3.29	309.0	427.0	24.8	7.56	-33.7	-0.97	EXP	Yes	A
	Unit 2 PSD Baseline		RIVU2	593,270	2,960,620	150	45.7	15.0	4.57	315.0	430.4	20.7	6.31	-56.4	-1.62	EXP	Yes	A
0990332	New Hope Power Partnership																	
	Cogeneration Boilers A, B, & C	1	OKCOGENF	524,920	2,939,440	199	60.66	10	3.05	352	450.9	67.7	20.63	862.5	24.84	CON	Yes	P
0990005	Okeelanta Corp [a]																	
	Boiler No. 4 PSD Baseline	4	OKBLR4B	524,700	2,939,500	75.1	22.90	7.5	2.29	140	333	24.1	7.36	-27.3	-0.79	EXP	Yes	A
	Boiler No. 5 PSD Baseline	5	OKBLR5B	524,700	2,939,500	75.1	22.90	7.5	2.29	140	333	39.6	12.07	-37.8	-1.09	EXP	Yes	A
	Boiler No. 6 PSD Baseline	6	OKBLR6B	524,700	2,939,500	75.1	22.90	7.5	2.29	142	334	28.7	8.74	-31.9	-0.92	EXP	Yes	A
	Boiler No. 10 PSD Baseline	10	OKBLR10B	524,700	2,939,500	75.1	22.90	7.5	2.29	142	334	33.9	10.35	-36.0	-1.04	EXP	Yes	A
	Boiler No. 11 PSD Baseline	11	OKBLR11B	524,700	2,939,500	75.1	22.90	7.5	2.29	156	342	32.4	9.89	-46.0	-1.32	EXP	Yes	A
	Boiler No. 12 PSD Baseline	12	OKBLR12B	524,700	2,939,500	75.1	22.90	7.5	2.29	134	330	26.9	8.20	-57.7	-1.66	EXP	Yes	A
	Boiler No. 14 PSD Baseline	14	OKBLR14B	524,700	2,939,500	75.1	22.90	7.5	2.29	140	333	27.2	8.30	-63.6	-1.83	EXP	Yes	A
	Boiler No. 15 PSD Baseline	15	OKBLR15B	524,700	2,939,500	75.1	22.90	7.5	2.29	138	332	33.5	10.20	-50.5	-1.45	EXP	Yes	A
	Boilers No. 4-15 PSD Baseline		OKBLRB	524,700	2,939,500	75.11	22.90	7.5	2.29	140	333	24.1	7.36	-350.8	-10.1	EXP	Yes	A
	Boiler No. 16 [b]	16	OKBLR16	524,700	2,939,500	75.0	22.86	5.0	1.52	410	483	75.0	22.86	184.8	5.32	CON	Yes	P
0850102	Indiantown Cogeneration, L.P.																	
	Pulverized Coal Main Boiler	1	INDTWN1	547,650	2,990,700	495	150.88	16	4.88	140	333.2	93.2	28.41	2549	73.41	CON	Yes	P
	Aux Boilers (2)	7	INDTWN3	547,650	2,990,700	210	64.01	5	1.52	551	561.5	124.4	37.92	35	1.01	CON	Yes	P
0850001	Florida Power & Light, Martin (PMR)																	
	Units 1 PSD Baseline	1	MART1B	542,680	2,992,650	499	152.10	36	10.97	338	443.2	43.1	13.14	-2694.6	-77.61	EXP	Yes	A
	Units 2 PSD Baseline	1	MART2B	542,680	2,992,650	499	152.10	36	10.97	338	443.2	43.1	13.14	-1987.1	-57.23	EXP	Yes	A
	Units 1 & 2 Actual	1	MART12	542,680	2,992,650	499	152.10	36	10.97	338	443.2	43.1	13.14	5937.7	171.01	CON	Yes	A
	Units 3 & 4 Actual	3	MART34	542,680	2,992,650	213	64.92	20	6.10	280	410.9	128.4	39.14	756.2	21.78	CON	Yes	A
	Unit 8 Actual	11	MART8	542,680	2,992,650	120	36.58	19	5.79	202	367.6	59	17.98	244.6	7.04	CON	Yes	A
	Auxiliary Boiler	7	MARTAUX	542,680	2,992,650	60	18.29	3.6	1.10	490	527.6	50	15.24	21.37	0.62	CON	Yes	P

TABLE A-4
SUMMARY OF NO_x SOURCES INCLUDED IN THE PSD CLASS II MODELING ANALYSES

Facility ID	Facility Name / Emission Unit Description	EU ID	AERMOD ID Name	UTM Location East (m)	UTM Location North (m)	Stack Parameters Height ft	Height m	Diameter ft	Diameter m	Temperature °F	Temperature K	Velocity ft/s	Velocity m/s	NOx Annual Emission Rate (TPY)	NOx Annual Emission Rate (g/sec)	PSD Source? (EXP/CON)	Modeled Source?	
0112120	Wheelabrator North Broward, Inc.																	
	807 TPD MSW Combustor & Auxiliary Burners- Units 1, 2, & 3	1	WHEELN1	583,900	2,907,600	195	59.44	7.5	2.29	300	422.0	63.8	19.45	1329.8	38.30	CON	Yes	A
0250348	Miami-Dade Resource Recovery																	
	Units 1,2,3,4 Potential	14	MDCRRF	563830	2857620.0	249.9	76.20	8.5	2.59	300	422	66.7	20.34	2,459.6	70.84	CON	Yes	P
	Units 1,2,3,4 Baseline	14	MDCRRFB	563830	2857620.0	149.9	45.70	9.0	2.74	370	461	99.5	30.34	-749.0	-21.57	EXP	Yes	P
0510003	U.S. Sugar Clewiston Mill and Refinery																	
	On-crop season [a]																	
	Boiler No. 1	001	USSBLR1N	506,100	2,956,900	213.0	64.92	8.0	2.44	150.0	338.7	82.9	25.27	222.0	6.39	CON	Yes	P
	Boiler No. 2	002	USSBLR2N	506,100	2,956,900	213.0	64.92	8.0	2.44	150.0	338.7	82.9	25.27	222.0	6.39	CON	Yes	P
	Boiler No. 4	009	USSBLR4N	506,100	2,956,900	150.0	45.72	8.2	2.50	160.0	344.3	88.7	27.04	288.0	8.29	CON	Yes	P
	Boiler No. 7	014	USSBLR7N	506,100	2,956,900	225.0	68.58	8.0	2.44	335.0	441.5	94.5	28.80	809.0	23.30	CON	Yes	P
	Boiler No. 8	028	USSBLR8N	506,100	2,956,900	199.0	60.66	10.9	3.32	315.0	430.4	75.7	23.07	473.7	13.64	CON	Yes	P
	Off-crop season [a]																	
	Boiler No. 7	014	USSBLR7F	506,100	2,956,900	225.0	68.58	8.0	2.44	335.0	441.5	94.5	28.80	809.0	23.30	CON	Yes	P
	Boiler No. 8	028	USSBLR8F	506,100	2,956,900	199.0	60.66	10.9	3.32	315.0	430.4	75.7	23.07	473.7	13.64	CON	Yes	P
	Baseline (on-crop)																	
	Boiler No. 1	001	USSBLR1B	506,100	2,956,900	75.8	23.10	6.1	1.86	160.0	344.3	99.0	30.18	-93.70	-2.70	EXP	Yes	A
	Boiler No. 2	002	USSBLR2B	506,100	2,956,900	75.8	23.10	6.1	1.86	158.0	343.2	117.0	35.66	-94.00	-2.71	EXP	Yes	A
	Boiler No. 3	003	USSBLR3B	506,100	2,956,900	90.0	27.43	7.5	2.29	156.0	342.0	48.2	14.69	-45.10	-1.30	EXP	Yes	A
	Boiler No. 4	004	USSBLR4B	506,100	2,956,900	149.9	45.69	8.2	2.50	160.0	344.3	83.3	25.39	-127.90	-3.68	EXP	Yes	A
	Boiler No. 5	005	USSBLR5B	506,100	2,956,900	75.8	23.10	6.1	1.86	430.0	494.3	145.3	44.29	-20.90	-0.60	EXP	Yes	A
	Boiler No. 6	006	USSBLR6B	506,100	2,956,900	75.8	23.10	6.1	1.86	430.0	494.3	145.3	44.29	-18.00	-0.52	EXP	Yes	A
	Sugar Refinery Sources																	
	Granular Carbon Furnace S-12	017	S12	506,100	2,956,900	30.0	9.14	2.00	0.61	160.0	344.3	22.8	6.95	13.14	0.38	CON	Yes	P
0110037	Florida Power & Light, Fort Lauderdale (PFL)																	
	CTs (Units 4A, 4B, 5A, 5B) Actual		LAUDU45	557,490	2,852,050	150	45.7	18.0	5.5	330.0	438.7	158.7	48.37	2749.10	79.17	CON	Yes	A
	GTs 1-12 (0.5% fuel oil) potential		LDGT1_12	557,490	2,852,050	45	13.7	15.6	4.8	860.0	733.2	93.3	28.44	3320.60	95.63	NO	No	[c]
	GTs 13-24 (0.5% fuel oil) potential		LDGT1324	557,490	2,852,050	45	13.7	15.6	4.8	860.0	733.2	93.3	28.44	3320.60	95.63	NO	No	[c]
	Units 4&5 PSD Baseline		FTLAU45B	557,490	2,852,050	150	45.7	14.0	4.3	299.9	422.0	48.0	14.63	-1375.10	-39.60	EXP	Yes	A
0110036	FPL, Port Everglades Plant (PPE)																	
	Units 1&2 PSD Baseline		PTEVU12B	578,600	2,852,600	342.8	104.5	14.0	4.27	289.0	415.9	87.7	26.72	-3057.1	-88.04	EXP	Yes	A
	Units 1&2 actual		PTEVU12	578,600	2,852,600	342.8	104.5	14.0	4.27	289.0	415.9	87.7	26.72	1670.2	48.10	CON	Yes	A
	Units 3&4 PSD Baseline		PTEVU34B	578,600	2,852,600	342.8	104.5	18.1	5.52	287.0	414.8	78.3	23.88	-11520.9	-331.80	EXP	Yes	A
	Units 3&4 actual		PTEVU34	578,600	2,852,600	342.8	104.5	18.1	5.52	287.0	414.8	78.3	23.88	7071.7	203.66	CON	Yes	A
	GT 1-12 (0.5% fuel oil)		PTEVGTS	578,600	2,852,600	44.0	13.4	15.6	4.75	860.1	733.2	93.3	28.43	33207.0	956.36	NO	No	[c]
1110003	Ft. Pierce Utilities Authority																	
	16.5 MW Boiler Unit #6 potential	6	FPUA6	570,700	2,856,760	148.0	45.1	5.0	1.5	325	435.9	36.0	10.97	13.1	0.38	NO	No	[c]
	37.5 MW Boiler Unit #7 potential	7	FPUA7	570,700	2,856,760	147.0	44.8	7.1	2.2	308	426.5	61.1	18.62	457.1	13.16	NO	No	[c]
	56.1 MW Boiler Unit #8 potential (Units 6,7,8 limited to 622 TPY)	8	FPUA8	570,700	2,856,760	150.0	45.7	8.0	2.4	334	440.9	83.6	25.48	151.8	4.37	NO	No	[c]
	23.4 MW CCGT with 8.2 MW HRSG Unit # 9	9	FPUA9	570,700	2,856,760	68.0	20.7	11.2	3.4	426	492.0	59.8	18.23	562.4	16.20	CON	Yes	P
0250014	Rinker Materials Corporation																	
	Kiln System (raw mill, kiln PH/PC and clinker cooler) - actual	18	RMC18	557,490	2,852,050	359.0	109.4	8.0	2.4	464	513.2	160.9	49.04	1,457.0	41.96	CON	Yes	A
0112119	Wheelabrator South Broward, Inc.																	
	MSW Combustor & Auxiliary Burners - Units 1,2,3 - actual	1	SBCRRF	578,870	2,883,390	195.0	59.4	7.5	2.3	300	422.0	63.8	19.4	1,348.5	38.84	CON	Yes	A

Note: EXP = PSD expanding source. P = potential emissions
CON = PSD consuming source. A = actual emissions
NO = Baseline Source, assuming potential baseline emissions are the same as current actual emissions.

[a] Facilities or sources within facilities that operate only during the October 1 through April 31 crop season. For sources identified operating during off-crop season, the season is May through September.

[b] Sugar mill sources that operate all year.

[c] Potential emissions for baseline source; actual emissions not determined. Not modeled since actual emissions would be lower than potential emissions resulting in expansion of PSD increment.