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October 12, 2010

Ms. Trina Vielhauer Chief, Bureau of Air Regulation Florida Department of Environmental Protection Twin Towers Office Building, 2600 Blair Stone Road Tallahassee, FL 32301 RECEIVE

OCT 14 2010

AIR REGULATION

Re:

Solid Waste Authority of Palm Beach County,

Palm Beach County Renewable Energy Facility No. 2

Air Quality Modeling Report for 1-hour NO2 and SO2 NAAQS

Dear Ms. Vielhauer:

The Solid Waste Authority of Palm Beach County (the Authority) is pleased to submit three copies of the Air Quality Modeling Report for 1-hour NO<sub>2</sub> and SO<sub>2</sub> NAAQS for the Palm Beach Renewable Energy Facility No. 2 (Proposed Facility, PBREF2). This report is being provided as requested in items 10 and 11 of the June 15, 2010 Request for Additional Information (RAI) from your office. This report describes the methodology and presents the results of the modeling analyses performed to address the new 1-hour National Ambient Air Quality Standards (NAAQS) for NO<sub>2</sub> and SO<sub>2</sub> for the Proposed Facility. In addition, each report includes a DVD that contains electronic copies of the modeling files that were used for the analyses.

If you have any questions concerning the report or the modeling analyses, please do not hesitate to contact me at (914) 641-2646 or via e-mail at pdiosey@pirnie.com.

Very truly yours,

MALÇOLM PIRNIE, INC.

Phyllis G. Diosey, Ph.D., QEP

Associate, Air Quality Services

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Enclosures: Three (3) copies, Air Quality Modeling Report for 1-hour NO<sub>2</sub> and SO<sub>2</sub> NAAQS
For the Palm Beach County Renewable Energy Facility No. 2



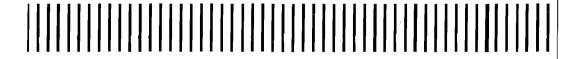
### **Solid Waste Authority of Palm Beach County**

7501 North Jog Road • West Palm Beach, FL 33412

# Air Quality Modeling Report for 1-hour NO<sub>2</sub> and SO<sub>2</sub> NAAQS

# Palm Beach Renewable Energy Facility No. 2

October 2010



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### 1. Introduction and Background

The Solid Waste Authority of Palm Beach County (the Authority) filed a Prevention of Significant Deterioration (PSD) air permit application with the Florida Department of Environmental Protection (FDEP) for the Palm Beach County Renewable Energy Facility No. 2 (Proposed Facility, PBREF2) on May 10, 2010. The Proposed Facility will be a new 3,000 ton per day (tpd) mass burn waste-to-energy facility that will be constructed at the Authority's Palm Beach Renewable Energy Park in West Palm Beach, FL adjacent to its existing renewable energy facility, the North County Resource Recovery Facility (NCRRF).

As part of the PSD air permit application, refined atmospheric dispersion modeling was performed to demonstrate compliance with the Florida and National Ambient Air Quality Standards (FAAQS and NAAQS) for annual nitrogen dioxide (NO<sub>2</sub>), 1-hour and 8-hour carbon monoxide (CO), 3-hour, 24-hour and annual sulfur dioxide (SO<sub>2</sub>) and 24-hour and annual particulate matter (PM<sub>10</sub> and PM<sub>2.5</sub>). This modeling was performed according to the *Air Quality Modeling Protocol* (Malcolm Pirnie, 2009) which was reviewed and approved by FDEP and the United States Environmental Protection Agency (USEPA), and the results of the analysis were presented in the *Air Quality Modeling Report* (Malcolm Pirnie, 2010a) submitted as part of the PSD permit application. The modeling demonstrated that impacts from the Proposed Facility were below all established significant impact levels (SILs), and therefore, would not cause or contribute to a violation of an ambient air quality standard or PSD increment, nor adversely affect air quality.

In a Request for Additional Information (RAI) (FDEP, 2010), FDEP requested that modeling be conducted to address the newly promulgated 1-hour NAAQS for NO<sub>2</sub> and SO<sub>2</sub>. A modeling protocol was submitted to FDEP for review on August 23, 2010 (Malcolm Pirnie, 2010b). The protocol was subsequently revised and submitted to FDEP on September 8, 2010 to include the application of selective catalytic reduction (SCR) control technology (Malcolm Pirnie, 2010c). This air quality modeling report presents the results of the analyses described in the revised protocol, including the preliminary analyses for comparison to the proposed 1-hour SILs for NO<sub>2</sub> and SO<sub>2</sub>, and a full, cumulative, multisource impact analysis for comparison to the 1-hour NO<sub>2</sub> standard. Modeling for the 1-hour standards reflects use of SCR control technology.



### 2. Applicable Air Quality Criteria

The analysis evaluates the impacts of NO<sub>2</sub> and SO<sub>2</sub> emissions from the Proposed Facility in comparison to the newly promulgated 1-hour standards. Following USEPA guidance (USEPA, 1990), a PSD air quality analysis consists of two distinct phases:

- a preliminary analysis to determine if project emissions will result in a significant impact on ambient air quality, and
- a full impact or multisource analysis that includes modeling emissions from the project and other existing sources. A full impact analysis is required for any pollutant where the estimated pollutant concentration exceeds the applicable SIL.

### 2.1. 1-Hour Nitrogen Dioxide (NO<sub>2</sub>) Criteria

On January 25, 2010, the USEPA promulgated a new 1-hour NAAQS for NO<sub>2</sub> of 100 parts per billion (ppb) (40 CFR Part 50.11), effective as of April 12, 2010. The form of the new 1-hour NO<sub>2</sub> standard is the three year average of the 98<sup>th</sup> percentile of the annual distribution of daily maximum 1-hour concentrations.

In June 2010, USEPA provided guidance on demonstrating compliance with the 1-hour NO<sub>2</sub> standard (USEPA, 2010a), including the use of the tiered (Tiers 1, 2, and 3) screening approach (USEPA, 2010b). In addition, USEPA proposed an interim 1-hour NO<sub>2</sub> SIL of 4 ppb, which could be used in a preliminary analysis to determine if a source has the potential to cause or contribute to an exceedance of the standard. USEPA noted that the proposed 1-hour NO<sub>2</sub> SIL was a *non-binding* interim value which might change once formally promulgated. However, FDEP recommended using this interim SIL value for the following 1-hour air quality modeling analysis.

### 2.2. 1-Hour Sulfur Dioxide (SO₂) Criteria

On June 2, 2010, the USEPA promulgated a new 1-hour NAAQS for SO<sub>2</sub> of 75 ppb (40 CFR Part 50.4), effective on August 23, 2010. The form of the new 1-hour SO<sub>2</sub> standard is the three year average of the annual 99<sup>th</sup> percentile of 1-hour daily maximum concentrations.

In August 2010, USEPA provided guidance on demonstrating compliance with the 1-hour SO<sub>2</sub> standard, and in addition, proposed a *non-binding* interim 1-hour SO<sub>2</sub> SIL of 3 ppb, which be used in a preliminary analysis to determine if a source has the potential to cause or contribute to an exceedance of the standard (USEPA, 2010c). As recommended by FDEP, the following analysis will use this proposed SIL.





Table 2-1 summarizes the 1-hour  $NO_2$  and  $SO_2$  regulatory criteria which were applied to this 1-hour air quality modeling analysis.

Table 2-1: 1-hour NO<sub>2</sub> and SO<sub>2</sub> NAAQS and Proposed SILs

<b></b> ,	NA	AQS	s	IL
Pollutant	(ppb)	(µg/m³)	(ppb)	(µg/m³)
Nitrogen Dioxide (NO <sub>2</sub> )	100	189	4	7.6
Sulfur Dioxide (SO <sub>2</sub> )	75	195	3	7.8

#### Note:

1. Following discussions with FDEP, two significant figures were retained for the proposed SILs in units of μg/m³.



The 1-hour NO<sub>2</sub> and SO<sub>2</sub> air quality impacts from the Proposed Facility were determined using the latest version of the USEPA AERMOD dispersion modeling system, with the model setup used for the PSD permit application modeling. This modeling system consists of three processors for estimating air quality impacts:

- AERMOD (version 09292) Air dispersion model
- AERMAP (version 09040) Elevation and terrain preprocessor
- AERMET (version 06341) Meteorological data preprocessor

The AERMOD model requires four types of input:

- Source parameters (type, dimensions, location, flow and emission rates);
- Meteorological data (surface and profile data files);
- Receptor location (ground level and/or flagpole), fence line, simple, intermediate, and complex terrain grid receptors; and
- Model control options (land use/land cover, building wake information, regulatory control options, averaging time, etc.).

### 3.1. Facility Source Parameters

The NO<sub>2</sub> and SO<sub>2</sub> emission sources for the Proposed Facility include three MWC units. The MWC emissions are exhausted from a tall stack which contains three identical flues; one for each of the three identical MWC units. In addition, there will be one (1) 250 kilowatt (kW) diesel-fired emergency generator and two (2) 250 horsepower (hp) diesel-fired emergency fire water pump engines. Only one fire water pump would operate at a time, with one fire water pump used as back-up.

As noted in the revised 1-hour modeling protocol, the diesel generator and fire water pump engines are for emergency use only. These units will meet the following conditions:

- 1. The units will be used solely in the event of an emergency, when the other units onsite will not be operating.
- 2. Testing and maintenance of the emergency units will be limited to 100 hours per year. Since each routine test period will be approximately 30 minutes long, the 1-hour standard will not apply.





3. Under true emergency conditions, the emergency units will be operated as long as needed, but no longer than necessary.

Therefore, following guidance from FDEP, the emergency generator and the emergency fire water pumps were not included as emission sources for the 1-hour NO<sub>2</sub> and SO<sub>2</sub> modeling, and the 1-hour modeling analyses considered the emissions from the MWC units.

The model setup remained similar to the previous modeling performed for the PSD permit application except for the application of SCR  $NO_x$  emission control technology for the MWC units. Under the revised SCR design, the design stack exhaust velocity was increased, and the  $NO_x$  emission rate was significantly reduced. The exhaust parameters and emission rates used in the 1-hour  $NO_2$  and  $SO_2$  modeling analyses for the various operating loads are summarized in Table 3-1.

Table 3-1:
Source Parameters and Emission Rates

Sauras Barrandari		0	perating Lo	ad Scenari	os					
Source Parameter	1a	1b	2	3a	3b	4				
Stack height, feet (meters)			310	(94.5)						
Stack diameter, feet (meters)	13.5 (4.1)									
Exhaust temperature, °F (K)			285 (	413.7)						
Exhaust velocity, meters/second	18.24	19.81	18.49	21.79	22.91	14.07				
NO <sub>2</sub> emission rate, grams/second	12.85	12.85	11.80	14.13	14.19	8.98				
SO <sub>2</sub> emission rate, grams/second	8.59	8.59	7.89	9.45	9.49	6.00				

#### Notes:

- Stack height is the height above base elevation.
- Stack diameter is an effective stack diameter for a single merged stack based on the diameter of a stack with an area equivalent to the sum of the areas of the three identical flues.
- 3. Emission rates are the combined emission rates for all MWCs at 3,000 tons/day (for three 1,000 ton/day MWC units).
- The e mission rate for NO<sub>x</sub> is the short-term rate based on an in-stack concentration of 50 ppmv NO<sub>x</sub> for an SCR system.
- 5. The emission rate for SO<sub>2</sub> is the short-term rate based on an in-stack concentration of 24 ppmv SO<sub>2</sub>.

Start-up and shut-down emissions were qualitatively assessed to determine if emissions that are generated outside of normal operations could potentially result in an adverse air quality impact. Scheduled start-up and shut down events for the MWC are relatively short in duration and are well-planned events. During these periods, the air pollution control equipment remains operational and pollutant emissions will remain within permitted limits. Therefore, operations during scheduled start-up and shut-down are not anticipated to be significantly different than the emissions evaluated for this modeling analysis.



### 3.2. Meteorological Data

The meteorological data used for this analysis were the same as the meteorological data used in the air quality modeling analysis for the PSD permit application. The meteorological data consisted of five years (2001 through 2005) of AERMOD-ready data provided by FDEP using hourly surface data from Palm Beach International Airport and upper air data from Florida International University in Miami.

### 3.3. Receptor Locations

The receptor data used for this analysis were the same as the receptor data used in the air quality modeling analysis for the PSD permit application. Receptor locations utilized a Cartesian grid network consisting of a 100 meter (m)-spaced grid out to 3 kilometers (km), a 500-m spaced grid from 3 km to 10 km, and a 1,000-m spaced grid from 10 km out to 30 km. As in the PSD application modeling, receptors around the Proposed Facility's fenceline, and grid receptors within the fenceline, were included in the model set-up.

#### 3.4. Model Control Parameters

All model control options (i.e., surface characteristics, building wake information, and regulatory control options) remained the same as those used in the modeling conducted for the PSD permit application.



### 4. Preliminary Impact Analysis

A preliminary air dispersion modeling analysis was performed to estimate the 1-hour ambient air concentrations of NO<sub>2</sub> and SO<sub>2</sub> from the Proposed Facility for comparison to the proposed 1-hour NO<sub>2</sub> and SO<sub>2</sub> SILs and to determine whether a cumulative air quality impact analysis would be required for the Proposed Facility.

### 4.1. Worst-Case Load Analysis

As part of the preliminary impact analysis, a worst-case load analysis was first performed using AERMOD for each operating scenario shown in Table 3-1 to determine the operating load parameters and emission rates that would result in the highest average 1-hour impact. For the worst-case load analysis, a unitized emission rate of 1 gram per second (g/s) was used to produce normalized concentrations (μg/m³ per g/s). These normalized concentrations were then multiplied by the 1-hour emission rates for NO<sub>x</sub> and SO<sub>2</sub> to determine the highest five-year average 1-hour predicted impacts. Following the guidance provided by USEPA (USEPA, 2010c,d), the highest of the five-year average of the maximum modeled 1-hour NO<sub>2</sub> and SO<sub>2</sub> concentrations predicted at each receptor was compared to the 1-hour NO<sub>2</sub> and SO<sub>2</sub> SILs, respectively. The results of the worst-case load analysis are presented in Table 4-1.

The 1-hour  $NO_2$  modeling analysis used Tier 2, which applied a conversion factor of 0.75 to determine  $NO_2$  impacts from emissions of  $NO_x$ . The use of the Tier 2 default value was based upon a review of historical ambient  $NO_2/NOx$  ratios from a nearby monitoring location.

Table 4-1:
Worst-Case Load Analysis Modeled Impacts

Operating Load Scenario	Highest 5-year Average Unitized 1-hour Impact (μg/m³ per g/s)		ear Average Impact /m³)
	(µg/m per g/s)	NO <sub>2</sub>	SO <sub>2</sub>
Scenario 1a	0.900	8.67	7.73
Scenario 1b	0.854	8.23	7.34
Scenario 2	0.893	7.90	7.05
Scenario 3a	0.800	8.48	7.56
Scenario 3b	0.770	8.20	7.31
Scenario 4	1.061	7.14	6.36

#### Notes:

- 1. Impacts predicted for a single merged flue representing three 1,000 tpd units.
- 2. Impacts in bolded font represent the overall maximum impact for each pollutant.
- 3. NO<sub>2</sub> impacts based on Tier 2 (ARM = 0.75).





### 4.2. Preliminary Impact Analysis

It was determined that the highest 5-year average 1-hour impact at any receptor for both pollutants occurred under Scenario 1a. Therefore, Scenario 1a was evaluated in this 1-hour modeling analysis. The results of the preliminary analysis in comparison to the 1-hour NO<sub>2</sub> and SO<sub>2</sub> SILs are presented in Table 4-2.

Table 4-2: Preliminary Impact Analysis

Pollutant	Highest 5-year Average 1-hour Impact (µg/m³)	Interim Proposed 1-hour Significant Impact Level (µg/m³)	Less than SIL? (Yes/No)
NO <sub>2</sub>	8.7	7.6	No
SO <sub>2</sub>	7.7	7.8	Yes

Note: NO2 impact based on Tier 2.

Since the highest 5-year average of the maximum modeled 1-hour NO<sub>2</sub> impact exceeded the interim proposed SIL, a full multisource impact analysis for the 1-hour NO<sub>2</sub> NAAQS was initiated. For SO<sub>2</sub>, the highest 5-year average of the maximum modeled 1-hour SO<sub>2</sub> impact was below the interim proposed SIL and therefore, emissions from the Proposed Facility will not cause or contribute to a violation of the 1-hour SO<sub>2</sub> NAAQS. Thus, no further analysis was required. However, 1-hour SO<sub>2</sub> modeled impacts were compared to the 1-hour SO<sub>2</sub> NAAQS for informational purposes, as discussed below in Section 4.3.

### 4.3. 1-hour SO<sub>2</sub> NAAQS Comparison

Following USEPA guidance, the modeled 1-hour  $SO_2$  impact (4<sup>th</sup> highest daily 1-hour maximum concentration averaged over 5 years) should be added to a representative background concentration for comparison to the 1-hour  $SO_2$  NAAQS. The representative 1-hour  $SO_2$  background concentration is 15.6  $\mu$ g/m³, the highest first-high monitored value over the past 3 years of data (2007-2009) from the Riviera Beach monitoring station. Table 4-3 presents the most recent 1-hour  $SO_2$  monitored background values obtained from the Riviera Beach monitoring location.

Table 4-3: 1-hour SO<sub>2</sub> Background Air Quality

Pollutant	Averaging Period	Monitoring Location	Monitored Concentration ppm (μg/m³)					
	Period	Location	2007	2008	2009			
SO <sub>2</sub>	1-hour	Riviera Beach	0.005 (13.0)	0.005 (13.0)	0.006 (15.6)			

Source: AIRSDATA (Monitor ID 12099-30044240101)



As shown below in Table 4-4, the 1-hour SO<sub>2</sub> impact from the Proposed Facility combined with the ambient background level is well below the 1-hour SO<sub>2</sub> NAAQS.

Table 4-4:
Comparison to the 1-hour SO<sub>2</sub> NAAQS

<sup>4<sup>th</sup> Highest Daily 1-hour SO₂ Maximum 5-year Average Modeled Impact (μg/m³)</sup>	1-hour Background SO₂ (μg/m³)	1-hour Total SO₂ Impact (µg/m³)	1-hour SO₂ NAAQS (µg/m³)
7.1	15.6	22.7	195



### 5. Full Multisource Impact Analysis for NO<sub>2</sub>

A cumulative, multisource impact analysis was performed for 1-hour NO<sub>2</sub> since the 1-hour impact exceeded the interim 1-hour SIL. The full impact multisource modeling analysis was performed to compare the combined impacts from the Proposed Facility and nearby sources to the 1-hour NAAQS for NO<sub>2</sub>. The analysis used the AERMOD model and the methodology presented above in Section 3. The methodology and results of the full impact analysis are discussed below.

The emissions from the Proposed Facility and the emissions from the sources in the final inventory were modeled with AERMOD using the five years of meteorological data at the significant receptor locations.

The 8<sup>th</sup> highest daily 1-hour maximum concentration averaged over 5 years at each receptor (98<sup>th</sup> percentile) was used for comparing the impacts to the 1-hour NO<sub>2</sub> NAAQS. The 98<sup>th</sup> percentile impact was calculated using a commercial post-processing program (BREEZE software).

### 5.1. Source Inventory

"Nearby" sources to be included in the full impact analysis are defined as those sources within a circular area with a radius equal to the furthest distance to the SIL (i.e., the significant impact area, or SIA) plus 50 kilometers (USEPA, 1990). The radius of the SIA was conservatively based on the maximum, or highest first-high, 1-hour NO<sub>2</sub> impact from the five years of meteorological data from the worst-case load scenario, Scenario 1a, as determined from the preliminary impact analysis. Based on this, the SIA radius was determined to be 2.7 km. Figure 5-1 presents the geographic extent of the screening area for the multisource analysis.

The receptor locations for the full 1-hour  $NO_2$  impact analysis were those receptor locations where the maximum, or highest first-highest, 1-hour  $NO_2$  impact from the Proposed Facility was equal to or greater than the SIL. A modeled impact threshold of 7.55  $\mu$ g/m<sup>3</sup> was used for determining impacts that were equal to or greater than the SIL. A total of 116 receptor locations were identified as meeting this criterion; these receptor locations are shown in Figure 5-2.



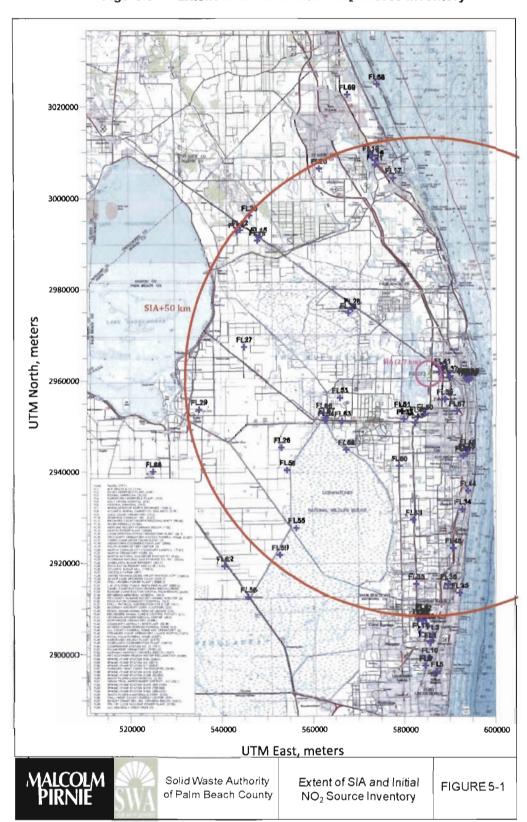


Figure 5-1: Extent of SIA and Initial NO<sub>2</sub> Source Inventory





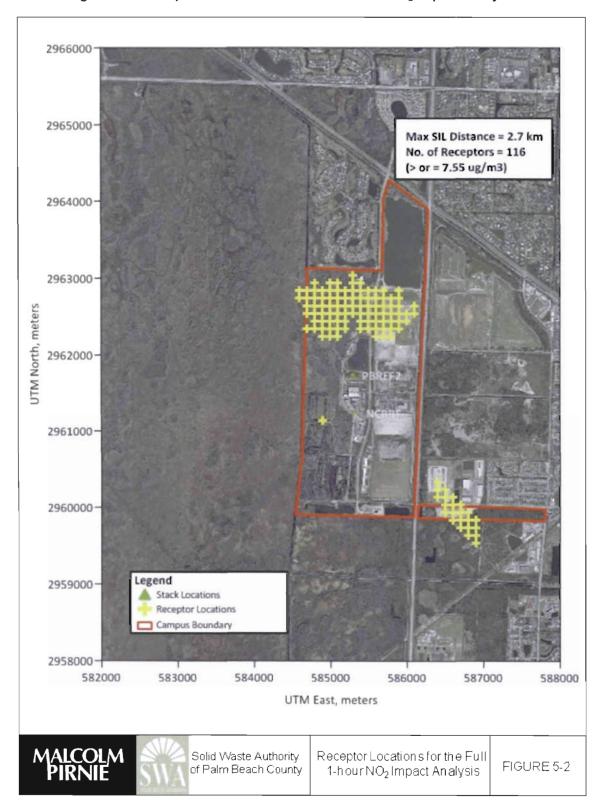


Figure 5-2: Receptor Locations for the Full 1-hour NO<sub>2</sub> Impact Analysis





Emission rates and source parameters for the inventory of nearby NO<sub>2</sub> sources within 70 km of the Proposed Facility stack location were supplied by FDEP. The inventory data were then screened to determine which facilities were to be included in the full impact analysis. Details of the inventory review and screening procedure are discussed below.

### 5.2. Inventory Screening Procedure

All facilities which were located within the SIA were included in the full impact analysis. Facilities located beyond the SIA plus 50 km were removed from further processing. Facilities beyond the SIA, but within the SIA plus 50 km, were evaluated for inclusion in the full impact analysis based on the 20D method developed by the North Carolina Department of Environment and Natural Resources (NCDNRCD, 1985). Following this method, facilities with short-term NO<sub>2</sub> emission rates (in tons per year) less than 20 times the distance (in km) from the emission source to the edge of the SIA ("D") were considered to have insignificant impacts within the SIA and were removed from the full impact analysis.

The remaining facilities (i.e., the facilities where the short-term emission rate was equal to or greater than 20D) were then further screened by modeling the facility sources with AERMOD and the five years of meteorological data to determine if any of the facility sources would have a significant contribution (i.e., impact equal to or greater than the SIL) at any of the Proposed Facility's 116 significant receptor locations. The maximum 1-hour NO<sub>2</sub> impact for each of these facilities at the Proposed Facility's significant receptor locations was determined. Those facility sources (e.g., sources at Indiantown Cogeneration and Wheelabrator North Broward) that were found to have an insignificant impact (i.e., an impact below the 1-hour NO<sub>2</sub> SIL using the 7.55 µg/m<sup>3</sup> threshold) at the Proposed Facility's receptor locations were removed from the inventory. Facilities with maximum 1-hour NO<sub>2</sub> impacts equal to or exceeding the SIL at these specific receptor locations were included in the final source inventory.

The initial inventory of nearby NO<sub>2</sub> sources provided by FDEP, prior to the screening analysis, is provided in Attachment A-1. The 20D inventory screening analysis is provided in Attachment A-2. Table 5-1 lists the facilities that were included in the full impact analysis, and are shown in Figure 5-3. Note that onsite emergency generating units were removed from the inventory based on the discussion presented in the revised supplemental air quality modeling protocol (Malcolm Pirnie, 2010c) and above in Section 3.1.



Table 5-1: Facilities Included in the Full Impact Analysis

Facility Owner/Company Name	Site Name
Solid Waste Authority of Palm Beach County	North County Resource Recovery Facility (NCRRF)
Parkway Asphalt, Inc.	Parkway Asphalt (Riviera Beach)
Florida Power & Light (PRV)	Riviera Power Plant
City of Lake Worth Utilities	Tom G. Smith Power Plant
United Technologies Corporation	Pratt Whitney ACFT
Florida Power and Light Company	West County Energy Center
Atlantic Holding, LLC	Atlantic Sugar Mill
Osceola Farms	Osceola Farms
Sugar Cane Growers Co-op	Sugar Cane Growers Co-op
Florida Power & Light (PMR)	Martin Power Plant
South Florida Water Management District	Pump Station S-319
South Florida Water Management District	Pump Station S-362

The individual sources for the facilities listed in Table 5-1 that were included in the final full impact analysis are presented in Attachment A-3.

The source parameter and emissions information for the sources at each facility included in the full impact analysis was reviewed for completeness and accuracy. Since most existing NO<sub>2</sub> inventories were developed for compliance with the annual NAAQS, the FDEP inventory was reviewed and updated for the shorter averaging time (where needed) based on available information such as air permit documentation and vendor specifications. Allowable emissions were used whenever available. In addition, where readily available, building dimension data for the inventory sources were included in order to evaluate the potential effects of building downwash.



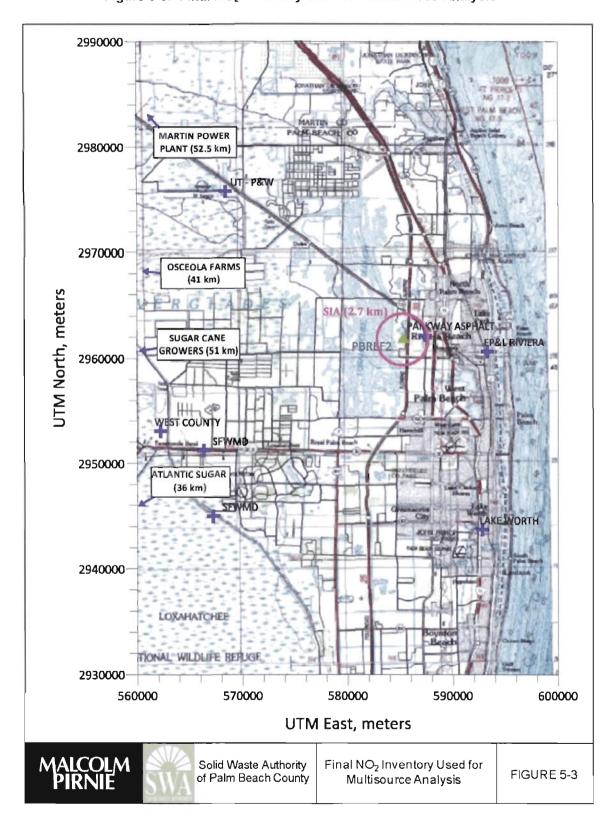


Figure 5-3: Final NO<sub>2</sub> Inventory Used for Multisource Analysis





### 5.3. Analysis and Results

Following USEPA guidance, the cumulative 1-hour  $NO_2$  impact (8th highest daily 1-hour maximum concentration) should be added to a representative background concentration for comparison to the 1-hour  $NO_2$  NAAQS. The representative 1-hour  $NO_2$  background concentration was  $108 \,\mu\text{g/m}^3$ , which is the highest first-highest monitored value over the past 3 years of data (2007-2009) in Palm Beach County. Table 5-2 presents the 1-hour  $NO_2$  monitored values from the Belvedere Road (2007-2008) and Lantana (2008-2009) monitoring stations.

Table 5-2: 1-hour NO<sub>2</sub> Background Air Quality

Pollutant	Averaging Period	Monitoring Location	Mon	nitored Concentra ppb (µg/m³)	ition
	Period	Location	2007	2008	2009
NO <sub>2</sub>	1-hour	Belvedere Road/Lantana	57 (108)	46 (87)	45 (85)

Source: Monitor ID Belvedere Road 120991004 / Lantana 120990020

The preliminary results of the multisource analysis for  $NO_2$ , which included the Proposed Facility and the final source inventory, indicated potential exceedances of the 1-hour  $NO_2$  NAAQS. The next step was to determine if the Proposed Facility was significantly contributing to any of these modeled NAAQS exceedances (i.e., if the Proposed Facility's maximum modeled 1-hour  $NO_2$  impact was equal to or exceeded the SIL). This step involved determining when the 1-hour  $NO_2$  standard was exceeded and analyzing the modeled source impacts to determine whether the Proposed Facility's impact equaled or exceeded the 1-hour  $NO_2$  SIL (using the 7.55  $\mu$ g/m³ threshold) at the receptors and times when the NAAQS was exceeded.

The combined source inventory (final nearby source inventory and the Proposed Facility) and the Proposed Facility were modeled as two separate source groups. Using post-processing, those receptor locations and times when the 1-hour NO<sub>2</sub> NAAQS was potentially exceeded were compared to the locations and times when the impacts of the Proposed Facility were significant. Using this methodology, it was demonstrated that the impacts from the Proposed Facility were below the SIL at all receptor locations and times identified as having a potential exceedance of the NAAQS. Hence, the analysis demonstrated that the impacts from the Proposed Facility will not cause or contribute to an exceedance of the 1-hour NO<sub>2</sub> NAAQS. The details of the methodology and analysis used to determine that the Proposed Facility will not cause or contribute to an exceedance of the 1-hour NO<sub>2</sub> standard is presented in Attachment B.

Table 5-3 presents the maximum predicted 1-hour NO<sub>2</sub> concentration from the full cumulative impact analysis during the hours when the Proposed Facility had modeled 1-



hour concentrations equal to or greater than the SIL. Note that in this table, the reported modeled concentration is the more conservative highest, first-highest 1-hour concentration.

Table 5-3:
Comparison to the 1-hour NO<sub>2</sub> NAAQS

Maximu	m 1-hour I Sign	NO₂ Impac nificant (μο		REF2 is	Max 1- hour NO₂	Background NO <sub>2</sub>	Total NO₂ Impact	1-hour NO <sub>2</sub>
2001	2002	2003	2004	2005	lmpact (µg/m³)	(μg/m³)	(μg/m <sup>3</sup> )	NAAQS (μg/m³)
25.62	32.40	24.26	23.74	25.89	32.4	108	140.4	189

#### Notes:

- Reported combined source inventory maximum impacts where PBREF2 is greater than the proposed 1-hour NO<sub>2</sub> SIL (in time and space) using Tier 2.
- 2. Background NO<sub>2</sub> concentration reported is the maximum 1-hour value (H1H) from 2007-2009.



### 6. Conclusions

This supplemental analysis evaluated the impacts of the Proposed Facility in comparison to the newly promulgated 1-hour NO<sub>2</sub> and SO<sub>2</sub> NAAQS. This analysis, combined with the results presented in the final *Air Quality Modeling Report* (Malcolm Pirnie, 2010a), demonstrated that the Proposed Facility will not cause or contribute to an exceedance of any ambient air quality standard, and in addition, that the Proposed Facility will not have an adverse impact on the ambient air quality within the vicinity of the project.



FDEP, 2010. Request for Additional Information. DEP File No. 0990234-017-AC (PSD-FL-413). Florida Department of Environmental Protection. Letter dated June 15, 2010.

Malcolm Pirnie, 2009. Air Quality Modeling Protocol. Palm Beach Renewable Energy Facility No. 2. April 2009.

Malcolm Pirnie, 2010a. Air Quality Modeling Report (submitted as Appendix F of the PSD Permit Application). Palm Beach Renewable Energy Facility No. 2. April 2010.

Malcolm Pirnie, 2010b. Supplemental Air Quality Modeling Protocol for I-hour NO<sub>2</sub> and SO<sub>2</sub> NAAQS. Palm Beach Renewable Energy Facility No. 2. August 2010.

Malcolm Pirnie, 2010c. Supplemental Air Quality Modeling Protocol for 1-hour NO<sub>2</sub> and SO<sub>2</sub> NAAQS. Palm Beach Renewable Energy Facility No. 2. Revised September 2010.

NCDNRCD, 1985. Screening Threshold Method for PSD Modeling. North Carolina Department of Natural Resources and Community Development. Division of Environmental Management

USEPA, 1990. New Source Review Workshop Manual – Prevention of Significant Deterioration and Nonattainment Area Permitting – DRAFT. Office of Air Quality Planning and Standards (OAQPS), Research Triangle Park, North Carolina. October 1990.

USEPA, 2010a. Guidance Concerning the Implementation of the 1-hour NO<sub>2</sub> NAAQS for the Prevention of Significant Deterioration Program. OAQPS. Memorandum from Stephen D. Page to Regional Air Division Directors dated June 29, 2010.

USEPA, 2010b. *Guideline on Air Quality Models*, Appendix W of 40 CFR Part 51, OAQPS, Research Triangle Park, North Carolina.

USEPA, 2010c. Guidance Concerning the Implementation of the 1-hour SO<sub>2</sub> NAAQS for the Prevention of Significant Deterioration Program. OAQPS. Memorandum from Stephen D. Page to Regional Air Division Directors dated August 23, 2010.

USEPA, 2010d. *Notice Regarding Modeling for New Hourly NO<sub>2</sub> NAAQS*. OAQPS, Air Quality Modeling Group (AQMG). February 25, 2010.





#### A-1. INITIAL FDEP SOURCE INVENTORY

Table A-1 presents the inventory of NO<sub>2</sub> facilities out to 70 kilometers (km) (50 km past a preliminary and conservatively determined impact area of 20 km) provided by Florida Department of Environmental Protection (FDEP). This FDEP inventory was revised for the shorter averaging time where possible based on available information, such as air permit documentation and vendor equipment specifications.

#### A-2. 20D INVENTORY SCREENING ANALYSIS

Table A-2 presents the results of the initial inventory screening analysis using the 20D method.

### A-3. FINAL 1-HOUR NO<sub>2</sub> SOURCE INVENTORY

Table A-3 presents the final inventory used in the multisource analysis. The facilities remaining after the 20D screening procedure were further screened by modeling the individual facility sources with AERMOD and five years of meteorological data to determine if these facility sources would have a significant contribution (i.e., impact equal to or greater than the SIL) at any of the Proposed Facility's significant receptor locations. Those facility sources with an insignificant impact (i.e., an impact below the 1-hour NO<sub>2</sub> SIL) at the Proposed Facility's significant impact receptor locations were removed from the inventory. Facilities with maximum 1-hour NO<sub>2</sub> impacts equal to or exceeding the SIL at these specific receptor locations were included in the final source inventory. Note that all facilities which were located within the Significant Impact Area (SIA) were included in the full impact analysis inventory.



TABLE A-1
INITIAL FDEP NO<sub>2</sub> INVENTORY

		Τ					Distance	1	1													1	
			Facility	UTM	UTM Fast	UTM North	fram Center	Location	Facility Type				Stack Height	Diam	Exit			Potentiali Pote	ntial( Allowa	ble Allowab	hie l	Actual	
Facility ID	Owner / Company Name	Site Name	Status	Zone	(km)	(km)	(km)	Based On	Code	Description EU	ID EU Description	EU Status		(ft) 1	emp (f) A	FM DSCFE	t VEL(ft/s) Polluta	nt lb/hr) t	y) (lb/hi			(tpy)	Year
	N R GRACE & CO N R GRACE & CO	W R GRACE & CO	ACTIVE	17	585.69 585.69	2902.83 2902.83		4 Facility 4 Facility			1 A VERMICULITE EXPOLIATION PLANT W/CYCLONE & BAGHOUSE 2 1.0 T/HR PERLITE EXPANDING W/CYCLONE & TWIN STACK BAGHOUSE	ACTIVE	$\vdash$	4.5	80	_	NOX	0.086	0.18	+-		0.3335 1.007	
	PAVEX CORP DBA RANGER CONSTRUCTION SOUTH	PAVEX DEERFIELO PLANT	ACTIVE	17	584.25		53.94	4 Facility		ASPHALT PLANT	2 DRUM MIX ASPHALT BATCH PLANT. MAX RATE IS 280T/HR	ACTIVE	2	1			NOX			$\perp$		4.66249	2009
	DLDCASTLE RETAIL, INC. HARDRIVES ASPHALT COMPANY	BONSAL AMERICAN  HARDRIVES / DEERFIELD PLANT	ACTIVE	17	586.2 583,84	2904.6		9 Facility 7 Facility		CONCRETE PLANT ASPHALT PLANT	One Aggregate Drying Kiln w/baghouse.max.proc. rate 100 TPH.     150 T/HR ASPHALTIC CONCRETE BATCH PLANT W/ROTARY DRYER.	ACTIVE	33	4.1		2500 1934 4271	23 NOX 5 90 NOX	5.4	10.8		_	1.46 4.73634	
111019	HOLY CROSS HOSPITAL	HOLY CROSS HDSPITAL	ACTIVE	17	587.09	2896.52	65.36	6 Facility	37	HOSPITALS/HEALTH CARE	2 1300 LB/HR WASTE INCIN FUELED-NATURED GAS (NEW) MODEL 1300 A	ACTIVE	42	2		0369 51	0 108 NOX	2	8.8			0	2009
111019	HOLY CROSS HOSPITAL	HOLY CROSS HOSPITAL	ACTIVE	17	587,09	2896.52	2 65.36	6 Facility	37	HOSPITALS/HEALTH CARE	3 Two(2) York-Shipley (8.4 MMBTU/hr) Steam Boilers.	ACTIVE	30	1			NOX		+			2.05	2009
112094	WASTE MANAGEMENT INC. OF FLORIDA	CENTRAL DISPOSAL	ACTIVE	17	583.2	2908	54.19	9 Facility	39	MUNICIPAL SOLID WASTE LANDFILL	10 Small Gas Fired Turbines (3) & Open Flare	ACTIVE	37	4	840	3200	0 NOX	$\perp$				62.8	2008
112094	WASTE MANAGEMENT INC. OF FLORIDA	CENTRAL DISPOSAL	ACTIVE	17	583.2	2908	54.19	9 Facility	39	MUNICIPAL SOLID WASTE LANDFILL	11 LFGCS, Treatment system, 2 enclosed flares, 1 open flare	ACTIVE	37	4	825	2566	.0 NOX					12	2008
		MAINTEN ARRATOR MORTH PROMARD	ACTIVE	1 .,		2007.0		) Fr 17's	١.,			A 67711/15		7.	300	2000 5131	53.0 1104	405.5	455.4	00.5		440.5025	2000
112120	WHEELABRATOR NORTH BROWARD, INC.	WHEELABRATOR NORTH BROWARD	ACTIVE	1,1	383.9	2907.6	34.2	2 Facility	+ - 3	MUNICIPAL INCINERATION OR RRF	1 807 TPD MSW Combustor & Auxiliary Burners- Unit 1	ACTIVE	195	7.5	300 1	9000 512	1 63.8 NOX	106.5	465.4	06.5 46	Basis for allowable: PSD-FL-112, 133, 24lb/hr Replaced by new	440.6035	2009
112120	WHEELABRATOR NORTH BROWARD, INC.	WHEELABRATOR NORTH BROWARD	ACTIVE	17	583.9	2907.6	5 54.2	2 Facility	3	MUNICIPAL INCINERATION OR RRF	1 807 TPD MSW Combustor & Auxiliary Burners- Unit 1	ACTIVE	195	7.5	300 1	9000 5128	1 63.8 NOX	106.5	466.4		limits in Emissions Guideline.	440.6035	2009
112120	WHEELABRATOR NORTH BROWARD, INC.	WHEELABRATOR NORTH BROWARD	ACTIVE	17	583.9	2907.6	5 54.2	2 Facility	3	MUNICIPAL INCINERATION OR RRF	2 807 TPD MSW Combustor & Auxiliary Burners- Unit 2	ACTIVE	195	7.5	300 1	9000 5128	1 63.8 NOX	106.5	466.4		Basis for allowable: PSD-FL-112, 133,24lb/hr. Replaced by new limits in Emissions Guideline.	458.0389	2009
		MANUEL ABBATOR MORTH BROWN BR	ACTIVE	1 .	502.0	3003.6		25	Τ,	MANUAL CIRCLE CONTROL OF SAL		A CTD (C			300 .	2000 5130		100.5	455.4	00.5		450.0200	2000
112120	WHEELABRATOR NORTH BROWARD, INC.	WHEELABRATOR NORTH BROWARD	ACTIVE	1/1	583.9	2907.6	54.2	2 Facility	1 3	MUNICIPAL INCINERATION OR RRF	2 807 TPD MSW Combustor & Auxiliary Burners- Unit 2	ACTIVE	195	7.5	300 1	9000 5128	1 63.8 NOX	106.5	466.4 10	06.5 466		458.0389	2009
112120	WHEELABRATOR NORTH BROWARD, INC.	WHEELABRATOR NORTH BROWARD	ACTIVE	17	583.9	2907.6	5 54,2	2 Facility	3	MUNICIPAL INCINERATION OR RRF	3 807 TPD MSW Combustor & Auxiliary Burners- Unit 3	ACTIVE	195	7.5	300 1	9000 5128	1 63.8 NOX	106.5	466.4 10	06.5 46	56.4	445.3981	2009
112120	WHEELABRATOR NORTH BROWARD, INC.	WHEELABRATOR NORTH BROWARD	ACTIVE	17	583.9	2907.6	5 54.2	2 Facility	3	MUNICIPAL INCINERATION OR RRF	3 807 TPD MSW Combustor & Auxiliary Burners- Unit 3	ACTIVE	195	7.5	300 1	9000 5128	1 63.8 NOX	106.5	466.4		Basis for allowable: PSD-FL-112, 133,24lb/hr. Replaced by new limits in Emissions Guideline.	445.3981	2009
112146	ATLANTIC BURIAL CASKET CO. DBA ABCO	ATLANTIC BURIAL CASKET CO. DBA ABCO	ACTIVE		584,56	2897.78	64.21	1 Facility	43	HUMAN CREMATORY	1 ONE UNIT INDUSTRIAL EQUIPMENT MODEL#IE 43-PPII	ACTIVE	20	1.5	800	2000 67	2 18 NOX	0.25		225		0.0405	
	ATLANTIC BURIAL CASKET CO. DBA ABCO ATLANTIC BURIAL CASKET CO. DBA ABCO	ATLANTIC BURIAL CASKET CO. DBA ABCO ATLANTIC BURIAL CASKET CO. DBA ABCO	ACTIVE ACTIVE		584.56 584.56		_	1 Facility 1 Facility		HUMAN CREMATORY HUMAN CREMATORY	2 100 LB/HR INDUSTRIAL EQUIPMENT CREMATION UNIT IE43-PP11 3 A 100 LB/HR MODEL #IE 43-PP1, POWER PAK II CREMATORY	ACTIVE	20	1.5	1000	2000 67	2 18 NOX	0.25	U.25 C	0.25 0.	0.25		$\vdash$
112152	SERVICE CORPORATION INTERNATIONAL (SCI)	GOLD COAST CREMATORY	ACTIVE	17	584.68	2897.79	64.2	2 Facility	43	HUMAN CREMATORY	1 MODEL IE43-PPII-100 CREMATION INCINERATOR (NORTH UNIT)	ACTIVE	20	1.7	1032	2116 74	2 15 NOX	0.02			0.1	0.23	1993
	SERVICE CORPORATION INTERNATIONAL (SCI) SERVICE CORPORATION INTERNATIONAL (SCI)	GOLD COAST CREMATORY  GOLD COAST CREMATORY	ACTIVE		584.68 584.68			2 Facility 2 Facility		HUMAN CREMATORY HUMAN CREMATORY	Z MODEL IE43-PPII-100 CREMATION INCINERATOR (CENTER UNIT) 3 HUMAN CREMATORY, IE43-PPII, POWER-PAK II (SOUTH UNIT)	ACTIVE ACTIVE	20	1.7	1032	2116 74	2 15 NOX NOX	0.02	0.1 ( 1.49		0.1 10 TN/YR	$\vdash$	$\vdash$
112183	STIMPSON COMPANY, INC.	STIMPSON COMPANY, INC.	ACTIVE	17	585.5	2899,5	62.36	5 Facility	31	ABRASIVE BLAST CLEANING	2 TWO CLEAVER BROOKS FUEL OIL BOILERS	ACTIVE .	6	0.67			NOX					0.41	
112357	BROWARD COUNTY WATER/WASTEWATER SERVICES BROWARD COUNTY WATER/WASTEWATER SERVICES	BROWARD COUNTY/NORTH REGIONAL WWTF BROWARD COUNTY/NORTH REGIONAL WWTF	ACTIVE ACTIVE		583.49 583.49			B Facility	-	OTHER	2 8 Boilers fired with digester gas from anaerobic digesters	ACTIVE ACTIVE	31	1	$-\Gamma$		NOX		9.07 79.27			1.71142 7.392	
	BROWARD COUNTY WATER/WASTEWATER SERVICES	BROWARD COUNTY/NORTH REGIONAL WWTF	ACTIVE		583.49 583.49			B Facility B Facility		OTHER OTHER	3 Six Emergency generators fired w/ diesel fuel 4 Two flares (rated at 88,150 cf/hr) fired with digester gas	ACTIVE	12	0.67	+	1469	69.4 NOX		00555			2.03	
	WILEN PRESS LC	WILEN PRESS LC	ACTIVE	17	584.12			Facility		GRAPHICS ARTS/PRINTING	1 Printing Press with TEC 2-pass dryer	ACTIVE		2.5		0423 300						0.001445	
112369	WILEN PRESS LC WILEN PRESS LC	WILEN PRESS LC WILEN PRESS LC	ACTIVE ACTIVE	17	584.12 584.12	2908.83 2908.83		Facility Facility		GRAPHICS ARTS/PRINTING GRAPHICS ARTS/PRINTING	2 G-14 Press with one drying Oven 3 (3) Printing Presses with Ovens	ACTIVE	35	2.5	105 500	0423 300	35.4 NOX 0 NOX					0.001565 0.001251	
112702	NEPTUNE MANAGEMENT CORP.	NEPTUNE SOCIETY POMPANO BEACH	ACTIVE		584.77	2906.97	54.99	9 Facility	43	HUMAN CREMATORY	1 THERM TEC HUMAN CREMATORY UNIT#1	ACTIVE	6	3	1800	3590	8.5 NOX		0.66				
112702	NEPTUNE MANAGEMENT CORP.	NEPTUNE SOCIETY POMPANO BEACH	ACTIVE	17	584.77	2906.97	54.99	Facility Emission	43	HUMAN CREMATORY	2 THERM TEC HUMAN CREMATORY UNIT#2	ACTIVE	6	3	1800	3590	8.5 NOX	+	0.66	+			<del></del>
850001	FLORIDA POWER & LIGHT (PMR)	MARTIN POWER PLANT	ACTIVE	17	543.08	2993.09	52,61	Point	1	STEAM ELECTRIC PLANT	1 Fossil Fuel Fired Steam Generator #1(Acid Rain, Phase II)	ACTIVE	499	36	338 26	4519	43.1 NOX	2595 11	366.1 1	808 79	919 While burning natural gas	1762.516	2009
850001	FLORIDA POWER & LIGHT (PMR)	MARTIN POWER PLANT	ACTIVE	17	543.08	2993.09	52.61	Emission L Point	1	STEAM ELECTRIC PLANT	1 Fossil Fuel Fired Steam Generator #1(Acid Rain, Phase II)	ACTIVE	499	36	338 26	4519	43.1 NOX	2595 11	366.1 2	595 113	While burning fuel oil. Co-firing of NG and FO shall be prorated 366 see pemit condition A10.	1762.516	2009
Ī								Emission															
850001	FLORIDA POWER & LIGHT (PMR)	MARTIN POWER PLANT	ACTIVE	17	543.08	2993.09	52,56	Emission	1	STEAM ELECTRIC PLANT	2 Fossil Fuel Fired Steam Generator #2(Acid Rain, Phase II)	ACTIVE	499	36	338 26	4519	43.1 NOX	2595 11	366.1 1	.808 79	919 While burning natural gas  While burning fuel oil. Co-firing of NG and FO shall be prorated	1883.519	2009
	FLORIDA POWER & LIGHT (PMR)	MARTIN POWER PLANT	ACTIVE	17	543.08			Point		STEAM ELECTRIC PLANT	2 Fossil Fuel Fired Steam Generator #2(Acid Rain, Phase II)	ACTIVE	499	36		4519	43.1 NOX	2595 11			366 see permit ccondition QA10.	1883.519	
850001	FLORIDA POWER & LIGHT (PMR)	MARTIN POWER PLANT	ACTIVE	17	543.27	2992.61	52.18	Emission Emission	1	STEAM ELECTRIC PLANT	3 Combustion Turbine with HRSG (CT 3A)(Acid Rain, Phase II)	ACTIVE	213	20	280 24	0307	128.4 NOX	461	3108	461 31	108 While burning fuel oil. TYP represent the total allowed for fuel oil  While burning natural gas. TYP represent the total allowed for fuel	193.6	2009
850001	LORIDA POWER & LIGHT (PMR)	MARTIN POWER PLANT	ACTIVE	17	543.27	2992.61	52.18	Point	1	STEAM ELECTRIC PLANT	3 Combustion Turbine with HRSG (CT 3A)(Acid Rain, Phase II)	ACTIVE	213	20	280 24	0307	128.4 NOX	461	3108	177 31	108 oil and natural gas. Basis for allowable: PSD-FL-146	193.6	2009
950001	FLORIDA POWER & LIGHT (PMR)	MARTIN POWER PLANT	ACTIVE	1,,	543.27	2992.61	52.2	Emission Point	Ι,	STEAM ELECTRIC PLANT	4 Combustion Turbine with HRSG (CT 3B)(Acid Rain, Phase II)	ACTIVE	,,,	20	280 24	0307	128.4 NOX	461	3108	177 31	While burning natural gas. TYP represent the total allowed for fuel	201.1	2009
830001	TOWER & DOTT   TANK	MAINT OVER EACH	- ACTIVE	1 1			75.2	Emission	1	STEAM ELECTRIC POINT	Compositor (growne with thiso (CT 3B)(Acto Nam, 7 nase ii)	ACTIVE	213	20	200 24	0307	125.41102	401	3,00		108 oil and natural gas. 8asis for allowable: PSD-FL-146 While burning fuel oil. TYP represent the total allowed for fuel oil	201.1	2003
850001	LORIDA POWER & LIGHT (PMR)	MARTIN POWER PLANT	ACTIVE	17	543.27	2992.61	52.2	Point Emission	1	STEAM ELECTRIC PLANT	4 Combustion Turbine with HRSG (CT 3B)(Acid Rain, Phase II)	ACTIVE	213	20	280 24	0307	128.4 NOX	461	3108	461 31	108 and natural gas. Basis for allowable: PSD-FL-146  While burning natural gas. TYP represent the total allowed for fuel	201.1	2009
850001	FLORIDA POWER & LIGHT (PMR)	MARTIN POWER PLANT	ACTIVE	17	543.27	2992.61	52.27	Paint	1	STEAM ELECTRIC PLANT	5 Combustion Turbine with HRSG (CT 4A)(Acid Rain, Phase II)	ACTIVE	213	20	280 24	0307	128.4 NOX	461	3108	177 31	108 oil and natural gas. Basis for allowable: PSD-FL-146	172.8	2009
950001	FLORIDA POWER & LIGHT (PMR)	MARTIN POWER PLANT	ACTIVE	1,,	543.27	2992.61	52.27	Emission Point	,	STEAM ELECTRIC PLANT	5 Combustion Turbine with HRSG (CT 4A)(Acid Rain, Phase II)	ACTIVE	213	20	280 24	0207	128.4 NOX	461	3108	461 31	While burning fuel oil. TYP represent the total allowed for fuel oil 108 and natural gas. Basis for allowable: PSD-FL-146	172.8	2009
830001	EURIDA I OVER & EURIT (FINITY	THAIT IN COVERY DAILY	ACTIVE		343.27	2332.01	72.27	Emission	-	STEAM ELECTRIC FORT	2 compassion randine with the different hom, those in	ACTIVE	213	- 20	200 24	0307	120.4 NOX	461	3100	401 31	While burning fuel oil. TYP represent the total allowed for fuel oil	172.0	2003
850001	FLORIDA POWER & LIGHT (PMR)	MARTIN POWER PLANT	ACTIVE	17	543.27	2992.61	52.29	Point	1	STEAM ELECTRIC PLANT	6 Combustion Turbine with HRSG (CT 4B)(Acid Rain, Phase II)	ACTIVE	213	20	280 24	0307	128.4 NOX	461	3108	461 31	108 and natural gas, Basis for allowable: PSD-FL-146	203.8	2009
850001	FLORIDA POWER & LIGHT (PMR)	MARTIN POWER PLANT	ACTIVE	17	543.27	2992.61	52.29	Paint	1	STEAM ELECTRIC PLANT	6 Combustion Turbine with HRSG (CT 4B)(Acid Rain, Phase II)	ACTIVE	213	20	280 24	0307	128.4 NOX	461	3108	177 31	While burning natural gas. TYP represent the total allowed for fuel 108 oil and natural gas. Basis for allowable: PSD-FL-146	203.8	2009
	Tioning a manufacture	MARTIN SOURCE STANT		1		2000 600		Emission									1				While burning natural gas and fuel oil. Basis for allowable: PSD-FL-		
850001	FLORIDA POWER & LIGHT (PMR)	MARTIN POWER PLANT	ACTIVE	1/	543.9	2992.67	51.45	Point Emission	1	STEAM ELECTRIC PLANT	7 Auxiliary Boiler	ACTIVE	60	3.6	490	0536	50 NOX	4.88	21.37 4	1.88 21.	.37   146  Basis for allowable: PSD-FL-146, Equivalent emission is from the	0.028118	2009
850001	FLORIDA POWER & LIGHT (PMR)	MARTIN POWER PLANT	ACTIVE	17	543.2	2992.71	52.04		1	STEAM ELECTRIC PLANT	9 Diesel Generator(0.718 MW for Units 003-006)	ACTIVE	13	0.5	810	4750	403.2 NOX	72.07	316 72	2.07 3	316 permit application calculation data.	3.84023	2009
								Emission													Not Active - Replaced. Gas Firing (W/Power Augmentation).  Annual emissions based on compressor inlet temperature of		, 1
850001	FLORIDA POWER & LIGHT (PMR)	MARTIN POWER PLANT	ACTIVE	17	543.06	2997.68	52.24	Point	1	STEAM ELECTRIC PLANT	11 Unit 8A - 170 MW gas turbine with gas-fired HRSG	ACTIVE	120	19	202 10	4200 80000	0 59 NOX	23.6	103	82 16	6.4 59deg F and 400 hr/yr of PA	37.1	2009
								Ernission													Not Active - Replaced. Gas Firing (Normal). Annual emissions		( L
850001	FLORIDA POWER & LIGHT (PMR)	MARTIN POWER PLANT	ACTIVE	17	543.06	2997.68	52.24	Point	1	STEAM ELECTRIC PLANT	11 Unit 8A - 170 MW gas turbine with gas-fired HRSG	ACTIVE	120	19	202 100	4200 80000	0 59 NOX	23.6	103	66 111.	.87 based on compressor inlet temperature of 59deg F and 3390 hr/yr	37.1	2009
			1					Emission													Not Active - Replaced. Gas Firing (W/Peaking). Annual emissions based on compressor inlet temperature of S9deg F and 60 hr/yr of		i I
850001	FLORIDA POWER & LIGHT (PMR)	MARTIN POWER PLANT	ACTIVE	17	543.06	2997.68	52.24	Point	1	STEAM ELECTRIC PLANT	11 Unit 8A - 170 MW gas turbine with gas-fired HRSG	ACTIVE	120	19	202 100	4200 80000	59 NOX	23.6	103	105 3.:	.15 peaking	37.1	2009
								Emission				-									Not Active - Replaced. Oil Firing, Annual emissions based on compressor inlet temperature of 59deg F and 500 hr/yr of oil		
850001	FLORIDA POWER & LIGHT (PMR)	MARTIN POWER PLANT	ACTIVE	17	543.06	2997.68	52.24	Emission Point	1	STEAM ELECTRIC PLANT	11 Unit 8A · 170 MW gas turbine with gas-fired HRSG	ACTIVE	120	19	202 100	4200 80000	59 NOX	23.6	103	334 83	compressor inlet temperature of Sydeg F and SOU hr/yr of oil  3.S firing	37.1	2009
95000	CLODIDA DOMED P. LIGHT (DAAP)	MARTIN POWER PLANT	ACTRIC	·	542.00	2997.68		Emission							202 12	1200 0000		33.6	103		20 Car fixing combined curls with the training 12000 below		
850001	LORIDA POWER & LIGHT (PMR)		ACTIVE	1/				Point Emission	1 1		11 Unit 8A - 170 MW gas turbine with gas-fired HRSG	ACTIVE	120	19	202 100	4200 80000	59 NOX	23,6	105 2	3.6	34 Gas firing, combined cycle w/duct burning (2880 hr/yr)	37.1	2009
850001	FLORIDA POWER & LIGHT (PMR)	MARTIN POWER PLANT	ACTIVE	17	543.06	2997.68	52.24		1	STEAM ELECTRIC PLANT	11 Unit BA · 170 MW gas turbine with gas-fired HRSG	ACTIVE	120	19	202 100	4200 80000	59 NOX	23.6	103 1	.6.3	71 Gas firing, combined cycle, normal operation (8760 hr/yr)	37.1	2009
850001	LORIDA POWER & LIGHT (PMR)	MARTIN POWER PLANT	ACTIVE	17	543.06	2997.68	52.24	Emission Point	1	STEAM ELECTRIC PLANT	11 Unit 8A - 170 MW gas turbine with gas-fired HRSG	ACTIVE	120	19	202 100	4200 80000	0 59 NOX	23.6	103	76	19 Oil firing (500 hr/yr), combined cycle operation	37.1	2009
		MARTIN POWER PLANT			F42.00	2997.68		Emission				T -							103				
850001	FLORIDA POWER & LIGHT (PMR)	IMARTIN POWER PLANT	ACTIVE	1/	343.06	2997.68	52.24	Point Emission	1	STEAM ELECTRIC PLANT	L1 Unit 8A - 170 MW gas turbine with gas-fired HRSG	ACTIVE	120	19		4200 80000		23.6	103 1	.6.3	71 Gas firing, combined cycle, all modes	37.1	2009
850001	FLORIDA POWER & LIGHT (PMR)	MARTIN POWER PLANT	ACTIVE	17	543.06	2997.68	52.24	Point	1	STEAM ELECTRIC PLANT	11 Unit BA - 170 MW gas turbine with gas-fired HRSG	ACTIVE	120	19	202 100	4200 80000	59 NOX	23.6	103 9	5.3	3 Gas firing, simple cycle (1000 hr/yr) w/peaking (60 hr/yr)	.37.1	2009
850001	FLORIDA POWER & LIGHT (PMR)	MARTIN POWER PLANT	ACTIVE	17	543.06	2997.68	52.24	Emission Point	1	STEAM ELECTRIC PLANT	11 Unit 8A · 170 MW gas turbine with gas-fired HRSG	ACTIVE	120	19	202 100	4200 80000	59 NOX	23.6	103 S	8.7	29 Gas firing, simple cycle operation (1000 hr/yr)	37.1	2009
	· ,							Emission															
850001	FLORIDA POWER & LIGHT (PMR)	MARTIN POWER PLANT	ACTIVE	17	543.06	2997.68	52.24	Point Emission	1	STEAM ELECTRIC PLANT	L1 Unit 8A - 170 MW gas turbine with gas-fired HRSG	ACTIVE	120	19	202 100	4200 80000	59 NOX	23.6	103 31	9.2	80 Oil firing (500 hr/yr), simple cycle operation (1000 hr/yr)	37.1	2009
850001	FLORIDA POWER & LIGHT (PMR)	MARTIN POWER PLANT	ACTIVE	17	543.06	2997.68	52.24	Point	1	STEAM ELECTRIC PLANT	11 Unit 8A - 170 MW gas turbine with gas-fired HRSG	ACTIVE	120	19	202 100	4200 80000	59 NOX	23.6	103	76	19 Oil firing (500 hours), combined cycle operation	37.1	2009
850001	FLORIDA POWER & LIGHT (PMR)	MARTIN POWER PLANT	ACTIVE	17	\$43.06	2997.68	52.24	Emission Point	,	STEAM ELECTRIC PLANT	L2 Unit 8B - 170 MW gas turbine with gas-fired HRSG	ACTIVE	120	19	202 100	4200 80000	59 NOX	23.6	103	76	19 Oil firing (500 hours), combined cycle operation	45.89996	2009
	· ·	•									, g			25		1 - 2 2 3 0							

TABLE A-1 INITIAL FDEP NO₂ INVENTORY

	- 4		Facility				UTM North	Distance from Center Location		·				Diam								Allowable			Actual
Facility ID	Owner / Company Name	Site Name	Status	Zone			(km)	(km) Based O	n Code		EU ID EU Description	EU Status	(ft)	(ft)	Temp (	T -		VEL(ft/s)			tpy}	(lb/hr)	(tpy)	Comments	(tpy) Y
850001 F	LORIDA POWER & LIGHT (PMR)	MARTIN POWER PLANT	ACTIVE	1	7 9	43.06	2997.68	52.24 Point		1 STEAM ELECTRIC PLANT	12 Unit 8B - 170 MW gas turbine with gas-fired HRSG	ACTIVE	120	19	20	02 10042	800000	59 1	NOX.	23,6	103	319.2		80 Oil firing (500 hr/yr), simple cycle operation (1000 hr/yr) Not Active - Replaced. Oil Firing. Annual emissions based on	45.89996
850001 F	LORIDA POWER & LIGHT (PMR)	MARTIN POWER PLANT	ACTIVE	1	7 5	43.06	2997.68	Emission 52.24 Point		1 STEAM ELECTRIC PLANT	12 Unit 8B - 170 MW gas turbine with gas-fired HRSG	ACTIVE	120	19	20	02 10042	800000	59	NOX	23.6	103	334	83	compressor inlet temperature of S9deg F and 500 hr/yr of oil 3.5 firing	45.89996
								Emission																Not Active - Replaced. Gas Firing (W/Peaking). Annual emissions based on compressor inlet temperature of S9deg F and 60 hr/yr of	f
850001 F	LORIDA POWER & LIGHT (PMR)	MARTIN POWER PLANT	ACTIVE	1	7 5	43.06	2997.68	52.24 Point		1 STEAM ELECTRIC PLANT	12 Unit 8B - 170 MW gas turbine with gas-fired HRSG	ACTIVE	120	19	20	10042	800000	59 M	1OX	23.6	103	109	3.	Not Active · Replaced. Gas Firing (W/Power Augmentation).	45.89996
850001 F	LORIDA POWER & LIGHT (PMR)	MARTIN POWER PLANT	ACTIVE	1	, ,	43.06	2997.68	Emission 52.24 Point		1 STEAM ELECTRIC PLANT	12 Unit 8B - 170 MW gas turbine with gas-fired HRSG	ACTIVE	120	19	20	2 10042	200 800000	591	юх	23.6	103	82	16	Annual emissions based on compressor inlet temperature of 6.4 59deg F and 400 hr/yr of PA	45.89996
	· ,							Emission																Not Active - Replaced. Gas Firing (Normal). Annual emissions	
850001 F	LORIDA POWER & LIGHT (PMR)	MARTIN POWER PLANT	ACTIVE	1	7 5	43.06	2997.68	S2.24 Point Emission	_	1 STEAM ELECTRIC PLANT	12 Unit 88 - 170 MW gas turbine with gas-fired HRSG	ACTIVE	120	19	20	02 10042	800000	59 1	NOX	23.6	103	66	111.	.87 based on compressor inlet temperature of 59deg F and 3390 hr/yr	45.89996
850001 F	LORIDA POWER & LIGHT (PMR)	MARTIN POWER PLANT	ACTIVE	1	7 5	43.06	2997.68	52.24 Point		1 STEAM ELECTRIC PLANT	12 Unit 8B - 170 MW gas turbine with gas-fired HRSG	ACTIVE	120	19	20	10042	800000	59 1	NOX.	23.6	103	16.3	1	71 Gas firing, combined cycle, normal operation (8760 hr/yr)	45.89996
850001 F	LORIDA POWER & LIGHT (PMR)	MARTIN POWER PLANT	ACTIVE	1	7 5	43.06	2997.68			1 STEAM ELECTRIC PLANT	12 Unit 88 - 170 MW gas turbine with gas-fired HRSG	ACTIVE	120	19	20	10042	800000	59 1	•ox	23.6	103	76	5	19 Oil firing (500 hr/yr), combined cycle operation	45.89996
850001 F	LORIDA POWER & LIGHT (PMR)	MARTIN POWER PLANT	ACTIVE	1	7 9	43.06	2997.68			1 STEAM ELECTRIC PLANT	12 Unit 8B - 170 MW gas turbine with gas-fired HRSG	ACTIVE	120	19	20	10042	800000	59	NOX	23.6	103	16.3		71 Gas firing, combined cycle, all modes	45.89996
850001 F	LORIDA POWER & LIGHT (PMR)	MARTIN POWER PLANT	ACTIVE	1	, ,	43.06	2997.68	52.24 Point		1 STEAM ELECTRIC PLANT	12 Unit 88 - 170 MW gas turbine with gas-fired HRSG	ACTIVE	120	19	20	10042	200 800000	59	NOX	23.6	103	95.3	1	3 Gas firing, simple cycle (1000 hr/yr) w/peaking (60 hr/yr)	45.89996
850001 F	LORIDA POWER & LIGHT (PMR)	MARTIN POWER PLANT	ACTIVE	11	7 5	43.06	2997.68	52.24 Point		1 STEAM ELECTRIC PLANT	12 Unit 88 - 170 MW gas turbine with gas-fired HRSG	ACTIVE	120	19	20	10042	200 800000	59	4OX	23.6	103	58.7	,	29 Gas firing, simple cycle operation (1000 hr/yr)	45.89996
850001 F	LORIDA POWER & LIGHT (PMR)	MARTIN POWER PLANT	ACTIVE	1	, ,	43.06	2997.68	Emission 52.24 Point		1 STEAM ELECTRIC PLANT	12 Unit 8B - 170 MW gas turbine with gas-fired HRSG	ACTIVE	120	19	20	02 10042	00 800000	59 1	lox	23.6	103	58.7	,	29 Gas firing, simple cycle operation (1000 hr/yr)	45.89996
850001 F	LORIDA POWER & LIGHT (PMR)	MARTIN POWER PLANT	ACTIVE	1	, ,	43.06	2997.68	Emission 52.24 Point		1 STEAM ELECTRIC PLANT	12 Unit 88 - 170 MW gas turbine with gas-fired HRSG	ACTIVE	120	19	20	02 10042	200 800000	59 1	1OX	23.6	103	76.2		.10 Gas firing, simple cycle w/power augmentation (400 hr/yr)	45.89996
	LORIDA POWER & LIGHT (PMR)	MARTIN POWER PLANT	ACTIVE	1.			2997.68	Emission		1 STEAM ELECTRIC PLANT	12 Unit 8B - 170 MW gas turbine with gas-fired HRSG	ACTIVE	120	19			00 800000	59 1	JOX.	23.6	103	95 7		3 Gas firing, simple cycle w/peaking (60 hr/yr)	45.89996
	LORIDA POWER & LIGHT (PMR)	MARTIN POWER PLANT	ACTIVE	1.			2997.68	Emission		1 STEAM ELECTRIC PLANT		ACTIVE	120	10			00 800000	59 1		23.6	103	319.2		80 (Oil firing (500 hr/yr), simple cycle (1000 hr/yr)	45.89996
					Т			Emission			12 Unit 88 - 170 MW gas turbine with gas-fired HRSG	_ [	120	19							103				
	LORIDA POWER & LIGHT (PMR) LORIDA POWER & LIGHT (PMR)	MARTIN POWER PLANT MARTIN POWER PLANT	ACTIVE ACTIVE	1			2997.68 2992.65			1 STEAM ELECTRIC PLANT 1 STEAM ELECTRIC PLANT	12 Unit 8B - 170 MW gas turbine with gas-fired HRSG 15 Diesel Generator for EUs 001 and 002	ACTIVE ACTIVE	18	1.17		0 115	00 800000 40	59 N 178.9 N		23.6	103	23.6		34 Gas firing, combined cycle w/duct burning (2880 hr/yr)	45.89996 0.34575
								Emission																Not Active - Replaced. Oil Firing. Annual emissions based on compressor inlet temperature of 59deg F and 500 hr/yr of oil	
850001 F	LORIDA POWER & LIGHT (PMR)	MARTIN POWER PLANT	ACTIVE	17	7 5	43.06	2997.68	52.24 Point Emission		1 STEAM ELECTRIC PLANT	17 Unit 8C - 170 MW gas turbine with gas-fired HRSG	ACTIVE	120	19	20	10042	800000	59 N	IOX	23.6	103	334	83	3.5 firing	51.3
850001 F	LORIDA POWER & LIGHT (PMR)	MARTIN POWER PLANT	ACTIVE	17	7 5	43.06	2997.68	52.24 Point	_	1 STEAM ELECTRIC PLANT	17 Unit 8C - 170 MW gas turbine with gas-fired HRSG	ACTIVE	120	19	20	10042	800000	59 N	IOX	23.6	103	319.2	-	80 Oil firing (500 hr/yr), simple cycle (1000 hr/yr)  Not Active - Replaced. Gas Firing (W/Peaking). Annual emissions	S1.3
850001 F	LORIDA POWER & LIGHT (PMR)	MARTIN POWER PLANT	ACTIVE	1	, ,	43.06	2997.68	Emission 52.24 Point		1 STEAM ELECTRIC PLANT	17 Unit 8C - 170 MW gas turbine with gas-fired HRSG	ACTIVE	120	19	20	10042	00 800000	59 N	iOX	23.6	103	105	3.	based on compressor inlet temperature of 59deg F and 60 hr/yr of 15 peaking	51.3
	LORIDA POWER & LIGHT (PMR)	MARTIN POWER PLANT	ACTIVE	,.			2997.68	Emission		1 STEAM ELECTRIC PLANT		ACTIVE	120	10	30	1 -	00 800000	59 N		23.6	103	16.2			51.3
								Emission	$\top$		17 Unit 8C - 170 MW gas turbine with gas-fired HRSG		120	13	-20	1						10.3		71 Gas firing, combined cycle, all modes	
	LORIDA POWER & LIGHT (PMR)	MARTIN POWER PLANT	ACTIVE				2997.68	Emission		1 STEAM ELECTRIC PLANT	17 Unit 8C - 170 MW gas turbine with gas-fired HRSG	ACTIVE	120	19			00 800000	59 N		23,6	103	95.3		3 Gas firing, simple cycle (1000 hr/yr) w/peaking (60 hr/yr)	51.3
	LORIDA POWER & LIGHT (PMR)	MARTIN POWER PLANT	ACTIVE	17			2997.68	Emission		1 STEAM ELECTRIC PLANT	17 Unit 8C - 170 MW gas turbine with gas-fired HRSG	ACTIVE	120	19	20	1	00 800003	59 N		23.6	103	58.7	_	29 Gas firing, simple cycle operation (1000 hr/yr)	51.3
850001 F	LORIDA POWER & LIGHT (PMR)	MARTIN POWER PLANT	ACTIVE	17			2997.68	Emission	+	1 STEAM ELECTRIC PLANT	17 Unit 8C - 170 MW gas turbine with gas-fired HRSG	ACTIVE	120	19	20	10042	00 800000	59 N	IOX	23.6	103	76		19 Oil firing (500 hours), combined cycle operation	51.3
850001 F	LORIDA POWER & LIGHT (PMR)	MARTIN POWER PLANT	ACTIVE	17	7 5	43.06	2997.68	52.24 Point Emission	+	1 STEAM ELECTRIC PLANT	17 Unit 8C - 170 MW gas turbine with gas-fired HRSG	ACTIVE	120	19	20	10042	00 800000	59 N	IOX	23.6	103	319.2	- 1	80 Oil firing (500 hr/yr), simple cycle operation (1000 hr/yr)	51,3
850001 F	LORIDA POWER & LIGHT (PMR)	MARTIN POWER PLANT	ACTIVE	17	7 5	43.06	2997.68	52.24 Point Emission	_	1 STEAM ELECTRIC PLANT	17 Unit 8C - 170 MW gas turbine with gas-fired HRSG	ACTIVE	120	19	20	10042	00 800000	59 N	iox	23.6	103	76	<u> </u>	19 Oil firing (500 hr/yr), combined cycle operation	51.3
850001 F	LORIDA POWER & LIGHT (PMR)	MARTIN POWER PLANT	ACTIV <u>E</u>	17	7 5	43.06	2997.68	52.24 Point Emission		1 STEAM ELECTRIC PLANT	17 Unit 8C - 170 MW gas turbine with gas-fired HRSG	ACTIVE	120	19	20	10042	00 800000	59 N	ЮX	23.6	103	58.7	-	29 Gas firing, simple cycle operation (1000 hr/yr)	51.3
850001 F	LORIDA POWER & LIGHT (PMR)	MARTIN POWER PLANT	ACTIVE	17	7 5	43.06	2997.68	52.24 Point Emission		1 STEAM ELECTRIC PLANT	17 Unit 8C - 170 MW gas turbine with gas-fired HRSG	ACTIVE	120	19	20	100420	00 800000	59 N	OX	23.6	103	76.2	1	10 Gas firing, simple cycle w/power augmentation (400 hr/yr)	51.3
850001 F	LORIDA POWER & LIGHT (PMR)	MARTIN POWER PLANT	ACTIVE	17	7 5	43.06	2997.68	52.24 Point		1 STEAM ELECTRIC PLANT	17 Unit 8C - 170 MW gas turbine with gas-fired HRSG	ACTIVE	120	19	20	2 100420	00 800000	59 N	IOX	23.6	103	95.3	_	3 Gas firing, simple cycle w/peaking (60 hr/yr)	51.3
850001 F	LORIDA POWER & LIGHT (PMR)	MARTIN POWER PLANT	ACTIV <u>E</u>	17	7 5	43.06	2997.68			1 STEAM ELECTRIC PLANT	17 Unit 8C - 170 MW gas turbine with gas-fired HRSG	ACTIVE	120	19	20	2 100420	00 800000	59 N	юх	23.6	103	16.3		71 Gas firing, combined cycle, normal operation (8760 hr/yr)	51.3
850001 F	LORIDA POWER & LIGHT (PMR)	MARTIN POWER PLANT	ACTIVE	17	7 5	43.06	2997.68	52.24 Point		1 STEAM ELECTRIC PLANT	17 Unit 8C - 170 MW gas turbine with gas-fired HRSG	ACTIVE	120	19	20	2 100420	00 800000	59 N	IOX	23.6	103	23.6		34 Gas firing, combined cycle w/duct burning (2880 hr/yr)	51.3
								Emission																Not Active - Replaced. Gas Firing (Normal). Annual emissions	
850001 F	LORIDA POWER & LIGHT (PMR)	MARTIN POWER PLANT	ACTIVE	17	7 5	43.06	2997.68	52.24 Point	+	1 STEAM ELECTRIC PLANT	17 Unit 8C - 170 MW gas turbine with gas-fired HRSG	ACTIVE	120	19	20	100420	800000	59 N	IOX	23.6	103	66	111.8	87 based on compressor inlet temperature of 59deg F and 3390 hr/yr Not Active - Replaced. Gas Firing (W/Power Augmentation).	51,3
850001 F	LORIDA POWER & LIGHT (PMR)	MARTIN POWER PLANT	ACTIVE	17	, 5	43.06	2997.68	Emission 52.24 Point		1 STEAM ELECTRIC PLANT	17 Unit 8C - 170 MW gas turbine with gas-fired HRSG	ACTIVE	120	19	20	2 100420	00 800000	59 N	iox	23.6	103	82	16	Annual emissions based on compressor inlet temperature of 6.4 S9deg F and 400 hr/yr of PA	51.3
850001 F	LORIDA POWER & LIGHT (PMR)	MARTIN POWER PLANT	ACTIVE	17	7 5	43.06	2997.68	Emission S2.24 Point		1 STEAM ELECTRIC PLANT	. 18 Unit 8D · 170 MW gas turbine with gas-fired HRSG	ACTIVE	120	19	20	2 100420	00 800000	59 N	IOX	23.6	103	23.6	-	34 Gas firing, combined cycle w/duct burning (2880 hr/yr)	49.70005
	LORIDA POWER & LIGHT (PMR)	MARTIN POWER PLANT	ACTIVE	17			2997.68	Emission		1 STEAM ELECTRIC PLANT	18 Unit 8D - 170 MW gas turbine with gas-fired HRSG	ACTIVE	120	19		$\top$	00 800000	59 N		23.6		16.3		71 Gas firing, combined cycle, normal operation (8760 hr/yr)	49.70005
	LORIDA POWER & LIGHT (PMR)	MARTIN POWER PLANT	ACTIVE	17			2997.68	Emission		1 STEAM ELECTRIC PLANT		ACTIVE	170				00 800000	59 N		23.6	103	95.3			
								Émission			18 Unit 8D - 170 MW gas turbine with gas-fired HRSG		120	19		-					$\neg \neg$			3 Gas firing, simple cycle w/peaking (60 hr/yr)	
	LORIDA POWER & LIGHT (PMR)	MARTIN POWER PLANT	ACTIVE	17			2997.68	Emission		1 STEAM ELECTRIC PLANT	18 Unit 80 · 170 MW gas turbine with gas-fired HRSG	ACTIVE	120	19	20		00 800000	59 N		23.6	103	76.2		10 Gas firing, simple cycle w/power augmentation (400 hr/yr)	49.70005
	LORIDA POWER & LIGHT (PMR)	MARTIN POWER PLANT	ACTIVE	17			2997.68	Emission		1 STEAM ELECTRIC PLANT	18 Unit 8D - 170 MW gas turbine with gas-fired HRSG	ACTIVE	120	19	20	T -	00 800000	59 N		23.6	103	319.2		80 Oil firing (500 hr/yr), simple cycle (1000 hr/yr)	49.70005
	LORIDA POWER & LIGHT (PMR)	MARTIN POWER PLANT	ACTIVE	17				52.24 Point Emission		1 STEAM ELECTRIC PLANT	18 Unit 8D - 170 MW gas turbine with gas-fired HRSG	ACTIVE	120,	19		1 -	800000	59 N		23.6	103	76		19 Oil firing (500 hr/yr), combined cycle operation	49.70005
	LORIDA POWER & LIGHT (PMR)	MARTIN POWER PLANT	ACTIVE	17			2997.68	Emission	+ :	1 STEAM ELECTRIC PLANT	18 Unit 8D - 170 MW gas turbine with gas-fired HRSG	ACTIVE	120	19	20	2 100420	00 800000	59 N	ox	23.6	103	58.7	2	29 Gas firing, simple cycle operation (1000 hr/yr)	49.70005
850001 F	LORIDA POWER & LIGHT (PMR)	MARTIN POWER PLANT	ACTIVE	17	5	43.06	2997.68	52.24 Point Emission	+ :	1 STEAM ELECTRIC PLANT	18 Unit 8D - 170 MW gas turbine with gas-fired HRSG	ACTIVE	120	19	. 20	100420	800000	59 N	ох	23.6	103	16.3	7	71 Gas firing, combined cycle, all modes	49.70005
850001 F	LORIDA POWER & LIGHT (PMR)	MARTIN POWER PLANT	ACTIVE	17	5	43.06	2997.68			1 STEAM ELECTRIC PLANT	18 Unit 8D - 170 MW gas turbine with gas-fired HRSG	ACTIVE	120	19	20	2 100420	00 800000	S9 N	ох	23.6	103	95.3		3 Gas firing, simple cycle (1000 hr/yr) w/peaking (60 hr/yr)	49.70005
850001 F	LORIDA POWER & LIGHT (PMR)	MARTIN POWER PLANT	ACTIVE	17	5	43.06	2997.68		1	1 STEAM ELECTRIC PLANT	18 Unit 8D - 170 MW gas turbine with gas-fired HRSG	ACTIVE	120	19	20	100420	00 800000	59 N	ох	23.6	103	58.7	2	29 Gas firing, simple cycle operation (1000 hr/yr)	49.70005
850001 F	LORIDA POWER & LIGHT (PMR)	MARTIN POWER PLANT	ACTIVE	17	5.	43.06	2997.68	52.24 Point	-	1 STEAM ELECTRIC PLANT	18 Unit 8D - 170 MW gas turbine with gas-fired HRSG	ACTIVE	120	19	20	2 100420	00 800000	59 N	ОХ	23.6	103	76	_ 1	19 Oil firing (500 hours), combined cycle operation	49.70005
	LORIDA POWER & LIGHT (PMR)	MARTIN POWER PLANT	ACTIVE	17	, s	43.06	2997.68	Emission 52.24 Point	,	1 STEAM ELECTRIC PLANT	18 Unit 8D - 170 MW gas turbine with gas-fired HRSG	ACTIVE	120	19	20	2 100420	00 800000	59 N	ox	23.6	103	319.2	8	80 Oil firing (500 hr/yr), simple cycle operation (1000 hr/yr)	49.70005

### TABLE A-1 INITIAL FDEP NO<sub>2</sub> INVENTORY

						Distance									7								
		Facility	UTM L	UTM East	UTM North	from Location	Facility Type				Stack Height	Diam	Exit			Pot	entiali Po	tential( A	llowable	Allowable		Actual	
Facility ID Owner / Company Name	Site Name	Status		(km)	(km)	(km) Based On		Description	EU ID . EU Description	EU Status			Temp (F)	ACFM DSCFN	VEL(ft/s) Po	llutant I			(lb/hr)	(tpy)	Comments		Year
																					Not Active - Replaced. Oil Firing. Annual emissions based on		
850001 FLORIDA POWER & LIGHT (PMR)	MARTIN POWER PLANT	ACTIVE	17	543.06	2997.68	52.24 Point	١,	STEAM ELECTRIC PLANT	18 Unit 8D - 170 MW gas turbine with gas-fired HRSG	ACTIVE	120	19	202	1004200 80000	00 S9 NO	, x	23.6	103	334	83.5	compressor inlet temperature of S9deg F and S00 hr/yr of oil	49.70005	2009
osoos resident of the confirmation of the conf	WWW. Control of the c	ACTIVE		5-3.00	2337.00	32.24 / O.M.	<del>                                     </del>	STEAM ELECTRIC FORM	15 One 65 - 170 MAY Bus to blic with Bus med med	ACTIVE	-120	- 17	202	100-200 00000	33,100		25.0	103	334		Not Active - Replaced. Gas Firing (W/Peaking). Annual emissions	45.70005	
			, I	'		Emission								- 1					I		based on compressor inlet temperature of 59deg F and 60 hr/yr of		
850001 FLORIOA POWER & LIGHT (PMR)	MARTIN POWER PLANT	ACTIVE	17	543.06	2997.68	52.24 Point	1	STEAM ELECTRIC PLANT	18 Unit 8D - 170 MW gas turbine with gas-fired HRSG	ACTIVE	120	19	202	1004200 80000	00 59 NO	)X	23.6	103	105	3.15	peaking	49.70005	2009
			.	'		Emission								- 1					I		Not Active - Replaced, Gas Firing (W/Power Augmentation).  Annual emissions based on compressor inlet temperature of		
850001 FLORIDA POWER & LIGHT (PMR)	MARTIN POWER PLANT	ACTIVE	17	543.06	2997,68	52.24 Point	1	STEAM ELECTRIC PLANT	18 Unit 8D - 170 MW gas turbine with gas-fired HRSG	ACTIVE	120	19	202	1004200 80000	OO 59 NO	ox	23.6	103	82		59deg F and 400 hr/yr of PA	49.70005	2009
																				_			
850001 FLORIDA POWER & LIGHT (PMR)	MARTIN POWER PLANT	ACTIVE	17	543.06	2997.68	Emission 52.24 Point	١,	STEAM ELECTRIC PLANT	18 Unit 8D - 170 MW gas turbine with gas-fired HRSG	ACTIVE	120	10	202	1004200 80000	00 59 NO	,,,	22.5	103	66		Not Active - Replaced. Gas Firing (Normal). Annual emissions based on compressor inlet temperature of 59deg F and 3390 hr/yr	49.70005	2009
850002 LOUIS DREYFUS CITRUS, INC.	LOUIS DREYFUS CITRUS / INDIANTOWN PLANT	ACTIVE	17	547.98				CITRUS PROCESSING PLANT	5 30 T/HR CITRUS PEEL DRYER #2	ACTIVE	108	5	202	1004200 00000	NO 35 NO		10.8	16.2		111.07	based on compressor met temperature of 33deg   and 3330 m/fr	8.34	
850002 LOUIS DREYFUS CITRUS, INC.	LOUIS DREYFUS CITRUS / INDIANTOWN PLANT	ACTIVE	17	547.98	2991,47	47.48 Facility	11	CITRUS PROCESSING PLANT	13 Citrus Peel Dryer (#1A) / Waste Heat Evaporator	ACTIVE	90	4	180	30000	39.8 NO	X						8.905	
DEPOSE SERVICE CORPORATION INTERNATIONAL ISCU	TRI COLINITY CREMATORY AVCOCY CLINICRAL LIONA	E ACTIVE	,	573.5	3008,4	48.45 Facility	١.,	HUMAN CREMATORY	THE FOLIE & CHICK MODEL IF AT ARM CREAMATOR	A STRUCT	ا.	.,	1099	2538 75			0.15	0.657	- 1			0.197	1994
850015 SERVICE CORPORATION INTERNATIONAL (SCI) 850017 TURBO COMBUSTOR TECHNOLOGY	TRI COUNTY CREMATORY-AYCOCK FUNERAL HOM TURBO COMBUSTOR TECHNOLOGY	ACTIVE	17	577.38				OTHER .	2 IND. EQUIP. & ENGR. MODEL IE43-PPII CREMATOR  4 Miscellaneus Operation	ACTIVE ACTIVE	- 24	1./	1099	2538 /3	59 18 NO		0.15	0.657				0.197	1999
						,	<del>                                     </del>								1 1						Basis for allowable emission: PSD-FL-168. Emission limit based on		
850102 INDIANTOWN COGENERATION, L.P.	INDIANTOWN COGENERATION PLANT	ACTIVE	17	547.65	2990.7		1	STEAM ELECTRIC PLANT	1 Pulverized Coal Main Boiler	ACTIVE	495	16	140	1123700	93.2 NO	)X	582	2549	582	2549	24 hr daily block average (midnight to midnight).	1294.431	2009
850102 INDIANTOWN COGENERATION, L.P.	INDIANTOWN COGENERATION PLANT	ACTIVE	17	547.65	2990.7	Emission 47.25 Point	١,	STEAM ELECTRIC PLANT	7 Aux Boilers (2)	ACTIVE	210	٠	551	146600 6280	124.4 NO			1		25	D850102-008-AC, Specific Condition 13.	6,51	2009
850102 INDIANTOWN COGENERATION, L.P.	INDIANTOWN COGENERATION PLANT	ACTIVE	17	547.65				STEAM ELECTRIC PLANT	8 Temporary Package Boiler	ACTIVE	210	-1	331	140000 0280	NO 124.4 NO					- 33	Department exemption.	0.31	2009
850108 BRP US INC.	RALPH EVINRUDE TEST CENTER	ACTIVE	17	572.48				OTHER	1 Two fixed engine test cells	ACTIVE	40	2	100	6000 530						_			
OFFICE AND SOLUTIVE S	144 TTIN 50 (DAI 14 STV ) 5 1 1 T 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		احد		2006 44	Emission								482 2923				17.87					2000
850120 MARTIN CO. LITILITIES AND SOLID WASTE DEPT	MARTIN CO/PALM CITY II SANITARY LANDFILL	ACTIVE		561.11	3006,63	51 Point Emission	39	MUNICIPAL SOLID WASTE LANDFILL	2 New 2,000 scfm non-assisted open flare	ACTIVE	33	0.8	1400	482 2923	33 16 NO	<del>"</del>	4.08	17.87				3.87	2009
850137 MARTIN FUNERAL HOME & CREMATORY	MARTIN CREMATORY FC280	ACTIVE	17	573.33	3007.47		43	HUMAN CREMATORY	1 Human Crematory-primary & secondary chambers, LPG fired	ACTIVE	18	1.6	993	4928 170	07 40.8 NO	ox							
						Emission						$\neg$											
850141 GULFSTREAM NATURAL GAS SYSTEM, L.L.C.	MARTIN NATURAL GAS METER STATION 701	ACTIVE	17	543.83	2993.14	51.8 Point Emission	99	OTHER	1 Unit 1 - 10 MMBtu/hour gas-fired natural gas fuel heater	ACTIVE	15	2.2	750	1500	6.6 NO	)X	1.075	4.71				+	$\overline{}$
850141 GULFSTREAM NATURAL GAS SYSTEM, L.L.C.	MARTIN NATURAL GAS METER STATION 701	ACTIVE	17	543.83	2993.14	•	99	OTHER	2 Unit 2 - 10 MMBtu/hour gas-fired natural gas fuel heater	ACTIVE	15	2.2	750	1500	6.6 NO	x I	1.075	4.71				1	
		CONSTRU								CONSTRU					1 [			$\neg \tau$			<u>-</u>		
BS0147 FLORIDIAN NATURAL GAS STORAGE CO., INC.	FLORIDIAN NATURAL GAS STORAGE CO., INC.	CTION	17	545.93	2996.33	52.22 Facility	99	OTHER	2 TWO LET DOWN HEATERS	CTION	30	2	500	24750	131.3 NO	X	9.96	12	4.98	5.97	ALLOW EMISSION ARE PER UNIT	+-+	
850147 FLORIDIAN NATURAL GAS STORAGE CO., INC.	FLORIDIAN NATURAL GAS STORAGE CO., INC.	CTION	17	545.93	2996.33	52,22 Facility	99	OTHER	3 EMERGENCY FIREWATER PUMP	CONSTRU	45	2	800	13920	73.8 NO	ox					•	1	
	-	CONSTRU					$\top$			CONSTRU													
850147 FLORIDIAN NATURAL GAS STORAGE CO., INC.	FLORIDIAN NATURAL GAS STORAGE CO., INC.	CTION	17	545.93	2996.33	S2.22 Facility	99	OTHER	4 Four EMERGENCY GENERATORS (TWO 3,500 KW AND TWO 3,000 KW)	CTION		$\rightarrow$	800	31500	NO.	)X	52.3	6.53				$\vdash$	
850147 FLORIDIAN NATURAL GAS STORAGE CO., INC.	FLORIDIAN NATURAL GAS STORAGE CO., INC.	CONSTRU	17	545.93	2996.33	52.22 Facility	99	OTHER	6 EIGHT WATER ETHYLENE GLYCOL HEATHERS	CONSTRU	50	4	300	30125	40 NO	ox	4.49	5.39					
		CONSTRU	$\rightarrow$				<del> </del>			CONSTRU													
850147 FLORIDIAN NATURAL GAS STORAGE CO., INC.	FLORIDIAN NATURAL GAS STORAGE CO., INC.	CTION	17	545.93	2996.33	52.22 Facility	99	OTHER	8 AMINE SYSTEM VENT	CTION		$\rightarrow$			NC NC	)X					All the first three and first three	-	
990005 OKEELANTA CORP	OKEELANTA SUGAR REFINERY	ACTIVE	17	524.9	2940.1	64.6 Point	1,	SUGAR PROCESSING PLANT	14 Boiler 16 - 150,000 lb/hr steam rate (gas/oil)	ACTIVE -	75	5	393	18600 3686	50 15.8 NO	nx	24.2	84.438	47.2		While firing Natural Gas. Test within 12months before permit expiration.	0.046	2004
		1.21.12				Emission	1		1- Source to 120'000 mblus stemus are iBaskout	1.0.110				10010	13.5			5 125			While firing Fuel Oil. Test within 12months before permit		
99000S OKEELANTA CORP	OKEELANTA SUGAR REFINERY	ACTIVE	17	524.9	2940.1	64.6 Paint		SUGAR PROCESSING PLANT	14 Boiler 16 - 150,000 lb/hr steam rate (gas/oil)	ACTIVE	75	5	393	18600 3686			24.2	84.438	40.4	176.9	expiration.	0.046	2004
990015 BOCA RESORTS, INC 990015 BOCA RESORTS, INC	BOCA RATON RESORT AND CLUB BOCA RATON RESORT AND CLUB	ACTIVE ACTIVE	17	592.03 592.03	2913.73 2913.73	48.66 Facility		DRY CLEANER	1 Six (6) 1 MBTUH boilers	ACTIVE ACTIVE	80	8	500	20000	6.6 NO			2.S 9.88				0.035	2001 2007
990015 BOCA RESORTS, INC	BOCA RATON RESORT AND CLUB	ACTIVE	17		2913.73	48.66 Facility 48.66 Facility		DRY CLEANER DRY CLEANER	6 7 diesel and 1 natural gas generators, 2 diesel fire pumps 7 TWO 10.46 MBTUH STEAM GENERATING UNITS	ACTIVE		-+	- 80		NO.			9.86				0.03068	2007
990016 ATLANTIC HOLDING, LLC	ATLANTIC SUGAR MILL	ACTIVE	17	552.98				SUGAR PROCESSING PLANT	1 Boiler 1 - 150,000 lb/hr steam rate	ACTIVE	90	6.2	160	100000	55.2 NO		126	275	126	275 (	ower limit accepted to reduce title V fees.	0.03068 6.49	2005
990016 ATLANTIC HOLDING, LLC	ATLANTIC SUGAR MILL	ACTIVE	17		2945.42			SUGAR PROCESSING PLANT	1 Boiler 1 - 150,000 lb/hr steam rate	ACTIVE	90	6.2	160	100000	55.2 NO		126	275				6.49	2005
990016 ATLANTIC HOLDING, LLC 990016 ATLANTIC HOLDING, LLC	ATLANTIC SUGAR MILL ATLANTIC SUGAR MILL	ACTIVE ACTIVE	17					SUGAR PROCESSING PLANT SUGAR PROCESSING PLANT	2 Boiler 2 - 150,000 lb/hr steam rate	ACTIVE ACTIVE	90	6.2	160 150	74510 90329	41 NC		126	275	126		imit accepted to reduce Title V fees	6.94 4.38	
990016 ATLANTIC HOLDING, LLC	ATLANTIC SUGAR MILL	ACTIVE		552.98				SUGAR PROCESSING PLANT	3 Boiler 3 - 130,000 lb/hr steam rate 4 Boiler 4 - 125,000 lb/hr steam rate	ACTIVE	90	6	150	90329	53 NC		111.6	244	111.6		imit accepted to reduce title V feesimit accepted to reduce title V fees.	\$.716	
		1				Emission	<del> </del> -			7.2													
990016 ATLANTIC HOLDING, LLC	ATLANTIC SUGAR MILL	ACTIVE	17	552.9	2945.2	35,83 Point		SUGAR PROCESSING PLANT	5 Boiler 5 - 115,000 lb/hr steam rate	ACTIVE	90	5.5	150	90000 5850			44.6	71.6	40.8		Bagasse only	5.39	2005
990019 OSCEOLA FARMS	OSCEOLA FARMS	ACTIVE	17	544./1	2967.55	40.95 Facility	12	SUGAR PROCESSING PLANT	2 BOILER #2 WITH 2 SCRUBBERS AND 2 STACKS	ACTIVE	90	- 5	156	121387	103 NO	×	126	242	126	242	imit accepted to reduce Title V fees.	93.0529	2009
990019 OSCEOLA FARMS	OSCEOLA FARMS	ACTIVE	17	,	3050		12	SUGAR PROCESSING PLANT	3 BOILER #3 WITH SCRUBBER	ACTIVE	90	6.3	155	146000 9200	10 78 NO	x	64.6	96	64.6	96		39.75802	2009
990019 OSCEOLA FARMS	OSCEOLA FARMS	ACTIVE		544.02	4368	41.28 Point		JOURN / NOCEJSHIE / CANT												242	imit accepted to reduce Title V fees.	05.53355	2009
990019 OSCEOLA FARMS	OSCEOLA FARMS		17	544.71		40.95 Facility	12	SUGAR PROCESSING PLANT	4 BAGASSE BOILER #4 (UNIT #5), 140,000 LBS/HR STEAM	ACTIVE	84	6	154	70992	41 NC		126	242	126			95.63755	$\overline{}$
		ACTIVE	17	544.71	2967.55 2967.55	40.95 Facility	12				90	5	154 154	70992	41 NO 103 NO		126 148.5	285	126 148.5		limit accepted to reduce Title V fees.	82.86043	2009
990019 OSCEOLA FARMS	OSCEOLA FARMS		17 17 17	544.71		40.95 Facility	12	SUGAR PROCESSING PLANT	4 BAGASSE BOILER #4 (UNIT #5), 140,000 LBS/HR STEAM	ACTIVE		6.3		70992	103 NO	X					limit accepted to reduce Title V fees		2009
		ACTIVE	17	544.71 544.71 544.02	2967.55 2968	40.95 Facility 40.95 Facility Emission 41.28 Point	12	SUGAR PROCESSING PLANT SUGAR PROCESSING PLANT SUGAR PROCESSING PLANT	4 BAGASSE BOILER #4 (UNIT #5), 140,000 LBS/HR STEAM 5 165,000 LB/HR BAGASSE BOILER # 5 WITH 2 SCRUBBERS & 2 STACKS 6 BOILER #6 WITH SCRUBBER PSD	ACTIVE ACTIVE		6.3	154	70992 121736 105000 6500	103 NC	ox x		285 122	148.5		limit accepted to reduce Title V fees.	82.86043 \$2.34	2009
990019 OSCEOLA FARMS 990021 UNITED TECHNOLOGIES CORPORATION	OSCEOLA FARMS  UNITED TECHNOLOGIES / PRATT WHITNEY ACFT	ACTIVE	17 17 17 17	544.71 544.71		40.95 Facility 40.95 Facility Emission 41.28 Point	12	SUGAR PROCESSING PLANT SUGAR PROCESSING PLANT	4 BAGASSE BOILER #4 (UNIT #5), 140,000 LBS/HR STEAM 5 165,000 LB/HR BAGASSE BOILER # S WITH 2 SCRUBBERS & 2 STACKS	ACTIVE ACTIVE			154	70992 121736	103 NO	ox x		285	148.5		imit accepted to reduce Title V fees.	82.86043	2009
		ACTIVE	17 17 17 17 17	544.71 544.71 544.02 568.41	2967.55 2968	40.95 Facility 40.95 Facility Emission 41.28 Point 21.61 Facility	12 12 12	SUGAR PROCESSING PLANT SUGAR PROCESSING PLANT SUGAR PROCESSING PLANT	4 BAGASSE BOILER #4 (UNIT #5), 140,000 LBS/HR STEAM 5 165,000 LB/HR BAGASSE BOILER # 5 WITH 2 SCRUBBERS & 2 STACKS 6 BOILER #6 WITH SCRUBBER PSD	ACTIVE ACTIVE		6.3	154	70992 121736 105000 6500	103 NC	ex ex		285 122 26.28	148.5		imit accepted to reduce Title V fees.	82.86043 \$2.34	2009
990021 UNITED TECHNOLOGIES CORPORATION  990021 UNITED TECHNOLOGIES CORPORATION	UNITED TECHNOLOGIES / PRATT WHITNEY ACFT UNITED TECHNOLOGIES / PRATT WHITNEY ACFT	ACTIVE ACTIVE ACTIVE	17 17 17 17 17	544.71 544.71 544.02 568.41	2967.55 2968 2975,84 2975.84	40.95 Facility 40.95 Facility Emission 41.28 Point 21.61 Facility 21.61 Facility	12 12 12 99	SUGAR PROCESSING PLANT SUGAR PROCESSING PLANT SUGAR PROCESSING PLANT OTHER	4 BAGASSE BOILER #4 (UNIT #5), 140,000 LBS/HR STEAM 5 185,000 LB/HR BAGASSE BOILER # 5 WITH 2 SCRUBBERS & 2 STACKS 6 BOILER #6 WITH SCRUBBER PSD 16 Boiler (BO-12-E6) w/heat input of 42 mmBTUH in Test Area E 22 2 boilers (BO-1-MBH,BO-2-BMH); S4 MMBTU/Hr each, at BH	ACTIVE ACTIVE ACTIVE ACTIVE		6.3	154 155 500 750	70992 121736 105000 6500 6690 91000	103 NC 00 56 NC 22 NC 33 NC	9X 9X 9X	78.6 6 14.538	285 122 26.28 63.678	148.5		imit accepted to reduce Title V fees.	\$2.86043 \$2.34 1.3731 0.32375	2009 2009 2009 2009
990021 UNITED TECHNOLOGIES CORPORATION	UNITED TECHNOLOGIES / PRATT WHITNEY ACFT UNITED TECHNOLOGIES / PRATT WHITNEY ACFT	ACTIVE ACTIVE	17 17 17 17 17 17	544.71 544.71 544.02 568.41	2967.55 2968 2975,84	40.95 Facility 40.95 Facility Emission 41.28 Point 21.61 Facility 21.61 Facility	12 12 12 99	SUGAR PROCESSING PLANT SUGAR PROCESSING PLANT SUGAR PROCESSING PLANT OTHER	4 BAGASSE BOILER #4 (UNIT #5), 140,000 LBS/HR STEAM 5 165,000 LB/HR BAGASSE BOILER # 5 WITH 2 SCRUBBERS & 2 STACKS 6 BOILER #6 WITH SCRUBBER PSD 16 Boller (BO-12-E6) w/heat input of 42 mmBTUH in Test Area E	ACTIVE ACTIVE ACTIVE		6.3	154 155 500	70992 121736 105000 6500 6690	103 NC	9X 9X 9X	78.6 6 14.538	285 122 26.28	148.5		imit accepted to reduce Title V fees	\$2.86043 \$2.34 1.3731	2009
990021 UNITED TECHNOLOGIES CORPORATION  990021 UNITED TECHNOLOGIES CORPORATION	UNITED TECHNOLOGIES / PRATT WHITNEY ACFT UNITED TECHNOLOGIES / PRATT WHITNEY ACFT	ACTIVE ACTIVE ACTIVE	17 17 17 17 17 17 17	544.71 544.71 544.02 568.41	2967.55 2968 2975,84 2975.84 2975.84	40.95 Facility 40.95 Facility Emission 41.28 Point 21.61 Facility 21.61 Facility	12 12 12 99 99	SUGAR PROCESSING PLANT SUGAR PROCESSING PLANT SUGAR PROCESSING PLANT OTHER	4 BAGASSE BOILER #4 (UNIT #5), 140,000 LBS/HR STEAM 5 185,000 LB/HR BAGASSE BOILER # 5 WITH 2 SCRUBBERS & 2 STACKS 6 BOILER #6 WITH SCRUBBER PSD 16 Boiler (BO-12-E6) w/heat input of 42 mmBTUH in Test Area E 22 2 boilers (BO-1-MBH,BO-2-BMH); S4 MMBTU/Hr each, at BH	ACTIVE ACTIVE ACTIVE ACTIVE		6.3	154 155 500 750	70992 121736 105000 6500 6690 91000	103 NC 00 56 NC 22 NC 33 NC	ex e	78.6 6 14.538	285 122 26.28 63.678	148.5		imit accepted to reduce Title V fees	\$2.86043 \$2.34 1.3731 0.32375	2009 2009 2009 2009 2009
990021 UNITED TECHNOLOGIES CORPORATION  990021 UNITED TECHNOLOGIES CORPORATION  990021 UNITED TECHNOLOGIES CORPORATION  990021 UNITED TECHNOLOGIES CORPORATION	UNITED TECHNOLOGIES / PRATT WHITNEY ACFT	ACTIVE  ACTIVE  ACTIVE  ACTIVE  ACTIVE  ACTIVE	17 17 17 17 17 17 17	544.71 544.71 544.02 568.41 568.41 568.41	2967.55 2968 2975,84 2975.84 2975.84 2975.84	40.95 Facility 40.95 Facility 40.95 Facility Emission 41.28 Point 21.61 Facility 21.61 Facility 21.61 Facility 21.61 Facility	12 12 12 99 99 99	SUGAR PROCESSING PLANT SUGAR PROCESSING PLANT SUGAR PROCESSING PLANT OTHER OTHER OTHER	4 BAGASSE BOILER #4 (UNIT #5), 140,000 LBS/HR STEAM 5 185,000 LB/HR BAGASSE BOILER # 5 WITH 2 SCRUBBERS & 2 STACKS 6 BOILER #6 WITH SCRUBBER PSD 16 Boiler (BO-12-E6) w/heat input of 42 mmBTUH in Test Area E 22 2 boilers (BO-1-MBH,BO-2-BMH); S4 MMBTU/Hr each, at BH 40 Two furnaces (FU-3-MHT, FU-4-MHT), 6 MMBTUH each 45 Water evaporator (EV-1-MW) w/heat input of 0.2 MMBTUH	ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE		6.3	154 155 500 750 2000	70992 121736 105000 6500 6690 91000	103 NC	DX D	148.5 78.6 6 14.538 1.154 0.019	285 122 26.28 63.678 5.054 0.084	148.5		imit accepted to reduce Title V fees	82.86043 52.34 1.3731 0.32375 0.09 0.0076	2009 2009 2009 2009 2009 2009
990021 UNITED TECHNOLOGIES CORPORATION  990021 UNITED TECHNOLOGIES CORPORATION  990021 UNITED TECHNOLOGIES CORPORATION	UNITED TECHNOLOGIES / PRATT WHITNEY ACFT UNITED TECHNOLOGIES / PRATT WHITNEY ACFT UNITED TECHNOLOGIES / PRATT WHITNEY ACFT	ACTIVE  ACTIVE  ACTIVE  ACTIVE  ACTIVE  ACTIVE	17 17 17 17 17 17 17 17	544.71 544.71 544.02 568.41 568.41	2967.55 2968 2975,84 2975.84 2975.84	40.95 Facility 40.95 Facility 40.95 Facility Emission 41.28 Point 21.61 Facility 21.61 Facility 21.61 Facility 21.61 Facility	12 12 12 99 99 99	SUGAR PROCESSING PLANT SUGAR PROCESSING PLANT SUGAR PROCESSING PLANT OTHER OTHER	4 BAGASSE BOILER #4 (UNIT #5), 140,000 L8S/HR STEAM \$ 185,000 L8/HR BAGASSE BOILER # 5 WITH 2 SCRUBBERS & 2 STACKS 6 BOILER #6 WITH SCRUBBER PSD 16 Boiler (BO-12-E6) w/heat input of 42 mmBTUH in Test Area E 22 2 boilers (BO-1-MBH,BO-2-BMH); 54 MMBTU/Hr each, at BH 40 Two furnaces (FU-3-MHT, FU-4-MHT), 6 MMBTUH each	ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE		6.3	154 155 500 750 2000	70992 121736 105000 6500 6690 91000	103 NC	DX D	78.6 6 14.538 1.154	285 122 26.28 63.678 5.054 0.084	148.5		imit accepted to reduce Title V fees	\$2.86043 \$2.34 1.3731 0.32375 0.09	2009 2009 2009 2009 2009
990021 UNITED TECHNOLOGIES CORPORATION  990021 UNITED TECHNOLOGIES CORPORATION  990021 UNITED TECHNOLOGIES CORPORATION  990021 UNITED TECHNOLOGIES CORPORATION	UNITED TECHNOLOGIES / PRATT WHITNEY ACFT	ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE	17 17 17 17 17 17 17 17	544.71 544.71 544.02 568.41 568.41 568.41	2967.55 2968 2975.84 2975.84 2975.84 2975.84 2975.84	40.95 Facility 40.95 Facility Emission 41.28 Point 21.61 Facility 21.61 Facility 21.61 Facility 21.61 Facility 21.61 Facility	12 12 12 99 99 99	SUGAR PROCESSING PLANT SUGAR PROCESSING PLANT SUGAR PROCESSING PLANT OTHER OTHER OTHER OTHER	4 BAGASSE BOILER #4 (UNIT #5), 140,000 LBS/HR STEAM 5 185,000 LB/HR BAGASSE BOILER # 5 WITH 2 SCRUBBERS & 2 STACKS 6 BOILER #6 WITH SCRUBBER PSD 16 Boiler (BO-12-E6) w/heat input of 42 mmBTUH in Test Area E 22 2 boilers (BO-1-MBH,BO-2-BMH); S4 MMBTU/Hr each, at BH 40 Two furnaces (FU-3-MHT, FU-4-MHT), 6 MMBTUH each 45 Water evaporator (EV-1-MW) w/heat input of 0.2 MMBTUH 59 Miscellaneous air and fuel heaters fired with natural gas	ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE		6.3	154 155 500 750 2000	70992 121736 105000 6500 6690 91000	103 NC	DX D	78.6 6 14.538 1.154 0.019 7.25	285 122 26.28 63.678 5.054 0.084	148.5		imit accepted to reduce Title V fees	82.86043 52.34 1.3731 0.32375 0.09 0.0076	2009 2009 2009 2009 2009 2009 2009
990021 UNITED TECHNOLOGIES CORPORATION	UNITED TECHNOLOGIES / PRATT WHITNEY ACFT	ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE	17 17 17 17 17 17 17 17 17	544.71 544.72 544.02 568.41 568.41 568.41 568.41 568.41	2967.55 2968 2975.84 2975.84 2975.84 2975.84 2975.84	40.95 Facility 40.95 Facility 5 Facility 6 Facility 21.61 Facility	12 12 12 99 99 99 99	SUGAR PROCESSING PLANT SUGAR PROCESSING PLANT SUGAR PROCESSING PLANT OTHER OTHER OTHER OTHER OTHER OTHER	4 BAGASSE BOILER #4 (UNIT #5), 140,000 L8S/HR STEAM 5 185,000 L8/HR BAGASSE BOILER # 5 WITH 2 SCRUBBERS & 2 STACKS 6 BOILER #6 WITH SCRUBBER PSD 16 Boiler (BO-12-E6) w/heat input of 42 mmBTUH in Test Area E 22 2 boilers (BO-1-MBH, BO-2-BMH); S4 MMBTU/Hr each, at BH 40 Two furnaces (FU-3-MHT, FU-4-MHT), 6 MMBTUH each 45 Water evaporator (EV-1-MW) w/heat input of 0.2 MMBTUH 59 Miscellaneous air and fuel heaters fired with natural gas 65 Miscellaneous diesel engines driving generators, pumps, etc.	ACTIVE		6.3	154 155 500 750 2000 78	70992 121736 105000 6500 6690 91000	103 NC	DIX	78.6 6 14.538 1.154 0.019 7.25	285 122 26.28 63.678 5.054 0.084 31.755	148.5		imit accepted to reduce Title V fees	82.86043 \$2.34 1.3731 0.32375 0.09 0.0076 0.1305 1.56466	2009 2009 2009 2009 2009 2009 2009 2009
990021 UNITED TECHNOLOGIES CORPORATION	UNITED TECHNOLOGIES / PRATT WHITNEY ACFT	ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE	17 17 17 17 17 17 17 17 17	544.71 544.71 544.02 568.41 568.41 568.41 568.41	2967.55 2968 2975.84 2975.84 2975.84 2975.84 2975.84	40.95 Facility 40.95 Facility 5 Facility 6 Facility 21.61 Facility	12 12 12 99 99 99 99	SUGAR PROCESSING PLANT SUGAR PROCESSING PLANT SUGAR PROCESSING PLANT OTHER OTHER OTHER OTHER	4 BAGASSE BOILER #4 (UNIT #5), 140,000 LBS/HR STEAM 5 185,000 LB/HR BAGASSE BOILER # 5 WITH 2 SCRUBBERS & 2 STACKS 6 BOILER #6 WITH SCRUBBER PSD 16 Boiler (BO-12-E6) w/heat input of 42 mmBTUH in Test Area E 22 2 boilers (BO-1-MBH,BO-2-BMH); S4 MMBTU/Hr each, at BH 40 Two furnaces (FU-3-MHT, FU-4-MHT), 6 MMBTUH each 45 Water evaporator (EV-1-MW) w/heat input of 0.2 MMBTUH 59 Miscellaneous air and fuel heaters fired with natural gas	ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE		6.3	154 155 500 750 2000	70992 121736 105000 6500 6690 91000	103 NC	DIX	78.6 6 14.538 1.154 0.019 7.25	285 122 26.28 63.678 5.054 0.084 31.755	148.5		imit accepted to reduce Title V fees	82.86043 \$2.34 1.3731 0.32375 0.09 0.0076 0.1305	2009 2009 2009 2009 2009 2009 2009
990021 UNITED TECHNOLOGIES CORPORATION	UNITED TECHNOLOGIES / PRATT WHITNEY ACFT	ACTIVE  ACTIVE  ACTIVE  ACTIVE  ACTIVE  ACTIVE  ACTIVE  ACTIVE  ACTIVE	17 17 17 17 17 17 17 17 17 17	544.71 544.71 544.02 568.41 568.41 568.41 568.41 568.41	2967.55 2968 2975.84 2975.84 2975.84 2975.84 2975.84 2975.84	40.95 Facility 40.95 Facility 5 Facility 6 Facility 121.61 Facility	12 12 12 99 99 99 99 99	SUGAR PROCESSING PLANT SUGAR PROCESSING PLANT SUGAR PROCESSING PLANT OTHER OTHER OTHER OTHER OTHER OTHER OTHER OTHER	4 BAGASSE BOILER #4 (UNIT #5), 140,000 L8S/HR STEAM 5 185,000 L8/HR BAGASSE BOILER # 5 WITH 2 SCRUBBERS & 2 STACKS 6 BOILER #6 WITH SCRUBBER PSD 16 Boiler (BO-12-E6) w/heat input of 42 mmBTU/H in Test Area E 22 2 boilers (BO-1-MBH,BO-2-BMH); 54 MMBTU/H each, at BH 40 Two furnaces (FU-3-MHT, FU-4-MHT), 6 MMBTUH each 45 Water evaporator (EV-1-MW) w/heat input of 0.2 MMBTU/H 59 Miscellaneous air and fuel heaters fired with natural gas 65 Miscellaneous diesel engines driving generators, pumps, etc. 66 Boiler (BO-14-E8) w/heat input of 7 MMBTUH, propane fired	ACTIVE		6.3	154 155 500 750 2000 78	70992 121736 105000 6500 6690 91000	103 NC	IX I	78.6 6 14.538 1.154 0.019 7.25 0.964 1.083	285 122 26.28 63.678 5.054 0.084 31.755 4.221	148.5		imit accepted to reduce Title V fees	82.86043 \$2.34 1.3731 0.32375 0.09 0.0076 0.1305 1.56466 0.01575	2009 2009 2009 2009 2009 2009 2009 2009
990021 UNITED TECHNOLOGIES CORPORATION	UNITED TECHNOLOGIES / PRATT WHITNEY ACFT	ACTIVE	17 17 17 17 17 17 17 17 17 17 17	544.71 544.71 544.02 568.41 568.41 568.41 568.41 568.41 568.41 568.41	2967.55 2968 2975.84 2975.84 2975.84 2975.84 2975.84 2975.84 2975.84	40.95 Facility 40.95 Facility 5 Facility 6 Facility 21.61 Facility	12 12 12 99 99 99 99 99	SUGAR PROCESSING PLANT SUGAR PROCESSING PLANT SUGAR PROCESSING PLANT OTHER OTHER OTHER OTHER OTHER OTHER OTHER OTHER	4 BAGASSE BOILER #4 (UNIT #5), 140,000 L8S/HR STEAM 5 185,000 L8/HR BAGASSE BOILER # 5 WITH 2 SCRUBBERS & 2 STACKS 6 BOILER #6 WITH SCRUBBER PSD 16 Boiler (BO-12-E6) w/heat input of 42 mmBTUH in Test Area E 22 2 boilers (BO-1-MBH, BO-2-BMH); S4 MMBTU/Hr each, at BH 40 Two furnaces (FU-3-MHT, FU-4-MHT), 6 MMBTUH each 45 Water evaporator (EV-1-MW) w/heat input of 0.2 MMBTUH 59 Miscellaneous air and fuel heaters fired with natural gas 65 Miscellaneous diesel engines driving generators, pumps, etc.	ACTIVE		6.3	154 155 500 750 2000 78	70992 121736 105000 6500 6690 91000	103 NC	IX I	78.6 6 14.538 1.154 0.019 7.25 0.964 1.083	285 122 26.28 63.678 5.054 0.084 31.755 4.221 4.743	148.5		imit accepted to reduce Title V fees	82.86043 52.34 1.3731 0.32375 0.09 0.0076 0.1305 1.56466 0.01575 9.12191	2009 2009 2009 2009 2009 2009 2009 2009
990021 UNITED TECHNOLOGIES CORPORATION	UNITED TECHNOLOGIES / PRATT WHITNEY ACFT	ACTIVE  ACTIVE  ACTIVE  ACTIVE  ACTIVE  ACTIVE  ACTIVE  ACTIVE  ACTIVE	17 17 17 17 17 17 17 17 17 17 17	544.71 544.71 544.02 568.41 568.41 568.41 568.41 568.41	2967.55 2968 2975.84 2975.84 2975.84 2975.84 2975.84 2975.84	40.95 Facility 40.95 Facility 5 Facility 6 Facility 121.61 Facility	12 12 12 99 99 99 99 99	SUGAR PROCESSING PLANT SUGAR PROCESSING PLANT SUGAR PROCESSING PLANT OTHER OTHER OTHER OTHER OTHER OTHER OTHER OTHER	4 BAGASSE BOILER #4 (UNIT #5), 140,000 L8S/HR STEAM 5 185,000 L8/HR BAGASSE BOILER # 5 WITH 2 SCRUBBERS & 2 STACKS 6 BOILER #6 WITH SCRUBBER PSD 16 Boiler (BO-12-E6) w/heat input of 42 mmBTU/H in Test Area E 22 2 boilers (BO-1-MBH,BO-2-BMH); 54 MMBTU/H each, at BH 40 Two furnaces (FU-3-MHT, FU-4-MHT), 6 MMBTUH each 45 Water evaporator (EV-1-MW) w/heat input of 0.2 MMBTU/H 59 Miscellaneous air and fuel heaters fired with natural gas 65 Miscellaneous diesel engines driving generators, pumps, etc. 66 Boiler (BO-14-E8) w/heat input of 7 MMBTUH, propane fired	ACTIVE		6.3	154 155 500 750 2000 78	70992 121736 105000 6500 6690 91000	103 NC	IX I	78.6 6 14.538 1.154 0.019 7.25 0.964 1.083	285 122 26.28 63.678 5.054 0.084 31.755 4.221 4.743	148.5		imit accepted to reduce Title V fees	82.86043 \$2.34 1.3731 0.32375 0.09 0.0076 0.1305 1.56466 0.01575	2009 2009 2009 2009 2009 2009 2009 2009
990021 UNITED TECHNOLOGIES CORPORATION	UNITED TECHNOLOGIES / PRATT WHITNEY ACFT	ACTIVE	17 17 17 17 17 17 17 17 17 17 17 17	544.71 544.71 544.02 568.41 568.41 568.41 568.41 568.41 568.41 568.41	2967.55 2968 2975.84 2975.84 2975.84 2975.84 2975.84 2975.84 2975.84	40.95 Facility 40.95 Facility 50 Facility 21.61 Facility	12 12 12 99 99 99 99 99 99	SUGAR PROCESSING PLANT SUGAR PROCESSING PLANT SUGAR PROCESSING PLANT OTHER	4 BAGASSE BOILER #4 (UNIT #5), 140,000 L8S/HR STEAM 5 185,000 L8/HR BAGASSE BOILER # 5 WITH 2 SCRUBBERS & 2 STACKS 6 BOILER #6 WITH SCRUBBER PSD 16 Boiler (BO-12-E6) w/heat input of 42 mmBTUH in Test Area E 22 2 boilers (BO-1-MBH, BO-2-BMH); S4 MMBTU/Hr each, at BH 40 Two furnaces (FU-3-MHT, FU-4-MHT), 6 MMBTUH each 45 Water evaporator (EV-1-MW) w/heat input of 0.2 MMBTUH 59 Miscellaneous air and fuel heaters fired with natural gas 65 Miscellaneous diesel engines driving generators, pumps, etc. 66 Boiler (BO-14-E8) w/heat input of 7 MMBTUH, propane fired 68 Emergency electrical generating facility 69 Ten existing jet engine test stands located in Test Area A	ACTIVE		6.3	154 155 500 750 2000 78	70992 121736 105000 6500 6690 91000	103 NC	IX I	78.6 6 14.538 1.154 0.019 7.25 0.964 1.083	285 122 26.28 63.678 5.054 0.084 31.755 4.221 4.743 33.452 813.6	148.5			82.86043 52.34 1.3731 0.32375 0.09 0.0076 0.1305 1.56466 0.01575 9.12191 124.92	2009 2009 2009 2009 2009 2009 2009 2009
990021 UNITED TECHNOLOGIES CORPORATION	UNITED TECHNOLOGIES / PRATT WHITNEY ACFT	ACTIVE	17 17 17 17 17 17 17 17 17 17 17 17 17	544.71 544.71 544.02 568.41 568.41 568.41 568.41 568.41 568.41 568.41 568.41	2967.55 2968 2975.84 2975.84 2975.84 2975.84 2975.84 2975.84 2975.84 2975.84	40.95 Facility 40.95 Facility 50 Facility 21.61 Facility	12 12 99 99 99 99 99 99 99	SUGAR PROCESSING PLANT SUGAR PROCESSING PLANT SUGAR PROCESSING PLANT OTHER	4 BAGASSE BOILER #4 (UNIT #5), 140,000 LBS/HR STEAM 5 185,000 LB/HR BAGASSE BOILER # 5 WITH 2 SCRUBBERS & 2 STACKS 6 BOILER #6 WITH SCRUBBER PSD 16 Boiler (BO-12-E6) w/heat input of 42 mmBTUH in Test Area E 22 2 boilers (BO-1-MBH,BO-2-BMH); S4 MMBTU/Hr each, at BH 40 Two furnaces (FU-3-MHT, FU-4-MHT), 6 MMBTUH each 45 Water evaporator (EV-1-MW) w/heat input of 0.2 MMBTUH 59 Miscellaneous air and fuel heaters fired with natural gas 65 Miscellaneous diesel engines driving generators, pumps, etc. 66 Boiler (BO-14-E8) w/heat input of 7 MMBTUH, propane fired 68 Emergency electrical generating facility	ACTIVE		6.3	154 155 500 750 2000 78	70992 121736 105000 6500 6690 91000	103 NC	IX I	78.6 6 14.538 1.154 0.019 7.25 0.964 1.083	285 122 26.28 63.678 5.054 0.084 31.755 4.221 4.743	148.5	285   122	ompliance is based on emission inventory and QAP tack test is not required since this unit is not allowed to exceed	82.86043 \$2.34 1.3731 0.32375 0.09 0.0076 0.1305 1.56466 0.01575 9.12191 124.92 0.026674	2009 2009 2009 2009 2009 2009 2009 2009
990021 UNITED TECHNOLOGIES CORPORATION	UNITED TECHNOLOGIES / PRATT WHITNEY ACFT	ACTIVE	17 17 17 17 17 17 17 17 17 17 17 17 17	544.71 544.71 544.02 568.41 568.41 568.41 568.41 568.41 568.41 568.41 568.41	2967.55 2968 2975.84 2975.84 2975.84 2975.84 2975.84 2975.84 2975.84	40.95 Facility 40.95 Facility 50 Facility 21.61 Facility	12 12 99 99 99 99 99 99 99	SUGAR PROCESSING PLANT SUGAR PROCESSING PLANT SUGAR PROCESSING PLANT OTHER	4 BAGASSE BOILER #4 (UNIT #5), 140,000 L8S/HR STEAM 5 185,000 L8/HR BAGASSE BOILER # 5 WITH 2 SCRUBBERS & 2 STACKS 6 BOILER #6 WITH SCRUBBER PSD 16 Boiler (BO-12-E6) w/heat input of 42 mmBTUH in Test Area E 22 2 boilers (BO-1-MBH, BO-2-BMH); S4 MMBTU/Hr each, at BH 40 Two furnaces (FU-3-MHT, FU-4-MHT), 6 MMBTUH each 45 Water evaporator (EV-1-MW) w/heat input of 0.2 MMBTUH 59 Miscellaneous air and fuel heaters fired with natural gas 65 Miscellaneous diesel engines driving generators, pumps, etc. 66 Boiler (BO-14-E8) w/heat input of 7 MMBTUH, propane fired 68 Emergency electrical generating facility 69 Ten existing jet engine test stands located in Test Area A	ACTIVE AC		6.3	154 155 500 750 2000 78	70992 121736 105000 6500 6690 91000	103 NC	IXX	78.6 6 14.538 1.154 0.019 7.25 0.964 1.083	285 122 26.28 63.678 5.054 0.084 31.755 4.221 4.743 33.452 813.6	148.5	285 j	ompliance is based on emission inventory and QAP	82.86043 52.34 1.3731 0.32375 0.09 0.0076 0.1305 1.56466 0.01575 9.12191 124.92	2009 2009 2009 2009 2009 2009 2009 2009
990021 UNITED TECHNOLOGIES CORPORATION	UNITED TECHNOLOGIES / PRATT WHITNEY ACFT	ACTIVE	17 17 17 17 17 17 17 17 17 17 17 17 17 1	544.71 544.71 544.02 568.41 568.41 568.41 568.41 568.41 568.41 568.41 568.41	2967.55 2968 2975.84 2975.84 2975.84 2975.84 2975.84 2975.84 2975.84 2975.84 2975.84	40.95 Facility 40.95 Facility 5 Facility 21.61 Facility	12 12 12 99 99 99 99 99 99 99	SUGAR PROCESSING PLANT SUGAR PROCESSING PLANT SUGAR PROCESSING PLANT OTHER	4 BAGASSE BOILER #4 (UNIT #5), 140,000 L8S/HR STEAM 5 185,000 L8/HR BAGASSE BOILER # 5 WITH 2 SCRUBBERS & 2 STACKS 6 BOILER #6 WITH SCRUBBER PSD 16 Boiler (BO-12-E6) w/heat input of 42 mmBTU/H in Test Area E 22 2 boilers (BO-1-MBH,BO-2-BMH); 54 MMBTU/H each, at BH 40 Two furnaces (FU-3-MHT, FU-4-MHT), 6 MMBTUH each 45 Water evaporator (EV-1-MW) w/heat input of 0.2 MMBTUH 59 Miscellaneous air and fuel heaters fired with natural gas 65 Miscellaneous diesel engines driving generators, pumps, etc. 66 Boiler (BO-14-E8) w/heat input of 7 MMBTUH, propane fired 68 Emergency electrical generating facility 69 Ten existing jet engine test stands located in Test Area A 77 CT Test Stands	ACTIVE CONSTRU CONSTRU CONSTRU	90 90 15 66 44	6.3 2.5 7.6 3 3	154 155 500 750 2000 78	70992 121736 105000 6500 6690 91000	103 NC 22 NC 33 NC N	IXX	78.6 6 14.538 1.154 0.019 7.25 0.964 1.083	285 122 26.28 63.678 5.054 0.084 31.755 4.221 4.743 33.452 813.6 39.9	148.5	285 j	ompliance is based on emission inventory and QAP tack test is not required since this unit is not allowed to exceed	82.86043 \$2.34 1.3731 0.32375 0.09 0.0076 0.1305 1.56466 0.01575 9.12191 124.92 0.026674 17.11	2009 2009 2009 2009 2009 2009 2009 2009
990021 UNITED TECHNOLOGIES CORPORATION	UNITED TECHNOLOGIES / PRATT WHITNEY ACFT	ACTIVE	17 17 17 17 17 17 17 17 17 17 17 17 17 1	544.71 544.71 544.02 568.41 568.41 568.41 568.41 568.41 568.41 568.41 568.41 568.41	2967.55 2968 2975.84 2975.84 2975.84 2975.84 2975.84 2975.84 2975.84 2975.84 2975.84	40.95 Facility 40.95 Facility 50 Facility 21.61 Facility	12 12 99 99 99 99 99 99 99	SUGAR PROCESSING PLANT SUGAR PROCESSING PLANT SUGAR PROCESSING PLANT OTHER	4 BAGASSE BOILER #4 (UNIT #5), 140,000 L8S/HR STEAM 5 185,000 L8/HR BAGASSE BOILER # 5 WITH 2 SCRUBBERS & 2 STACKS 6 BOILER #6 WITH SCRUBBER PSD 16 Boiler (BO-12-E6) w/heat input of 42 mmBTUH in Test Area E 22 2 boilers (BO-1-MBH,BO-2-BMH); S4 MMBTU/Hr each, at BH 40 Two furnaces (FU-3-MHT, FU-4-MHT), 6 MMBTUH each 45 Water evaporator (EV-1-MW) w/heat input of 0.2 MMBTUH 59 Miscellaneous air and fuel heaters fired with natural gas 65 Miscellaneous diesel engines driving generators, pumps, etc. 66 Boiler (BO-14-E8) w/heat input of 7 MMBTUH, propane fired 68 Emergency electrical generating facility 69 Ten existing jet engine test stands located in Test Area A 77 CT Test Stands 79 Two IP8 fired Turbine Engines 80 E-8 Rocket Engine Test Stand	ACTIVE CONSTRU CTION CONSTRU CTION	90 90 15 66 44 25	6.3 2.5 7.6 3 1 1 1 5.9	154 155 500 750 2000 78 145	70992 121736 105000 6500 6690 91000 100	103 NC  22 NC  33 NC  NC  NC  NC  NC  NC  NC  NC  NC  NC	IXX	78.6 6 14.538 1.154 0.019 7.25 0.964 1.083	285 122 26.28 63.678 5.054 0.084 31.755 4.221 4.743 33.452 813.6 39.9	148.5	285   122	ompliance is based on emission inventory and QAP tack test is not required since this unit is not allowed to exceed	82.86043 52.34 1.3731 0.32375 0.09 0.0076 0.1305 1.56466 0.01575 9.12191 124.92 0.026674 17.11 0.038256	2009 2009 2009 2009 2009 2009 2009 2009
990021 UNITED TECHNOLOGIES CORPORATION	UNITED TECHNOLOGIES / PRATT WHITNEY ACFT  SUGAR CANE GROWERS CO-OP	ACTIVE	17	544.71 544.71 544.02 568.41 568.41 568.41 568.41 568.41 568.41 568.41 568.41 568.41 568.41 568.41 568.41	2967.55 2968 2975.84 2975.84 2975.84 2975.84 2975.84 2975.84 2975.84 2975.84 2975.84 2975.84 2975.84 2975.84	40.95 Facility 40.95 Facility 50.95 Facility 21.61 Facility	12 12 12 99 99 99 99 99 99 99 99	SUGAR PROCESSING PLANT SUGAR PROCESSING PLANT SUGAR PROCESSING PLANT OTHER	4 BAGASSE BOILER #4 (UNIT #5), 140,000 L8S/HR STEAM 5 105,000 L8/HR BAGASSE BOILER # 5 WITH 2 SCRUBBERS & 2 STACKS 6 BOILER #6 WITH SCRUBBER PSD 16 BOIler (BO-12-E6) w/heat input of 42 mmBTUH in Test Area E 22 2 boilers (BO-1-MBH,BO-2-BMH); 54 MMBTUH each, at BH 40 Two furnaces (FU-3-MHT, FU-4-MHT), 6 MMBTUH each 45 Water evaporator (EV-1-MW) w/heat input of 0.2 MMBTUH 59 Miscellaneous air and fuel heaters fired with natural gas 65 Miscellaneous diesel engines driving generators, pumps, etc. 66 Boiler (BO-14-E8) w/heat input of 7 MMBTUH, propane fired 68 Emergency electrical generating facility 69 Ten existing jet engine test stands located in Test Area A 77 CT Test Stands 79 Two JP8 fired Turbine Engines 80 E-8 Rocket Engine Test Stand 1 BOILER #1 WITH 1 SCRUBBER AND 1 STACK 2 BOILER #2 WITH 1 SCRUBBER AND 1 STACK	ACTIVE	90 90 15 66 44 44 25 25 81 75 150	6.3 2.5 7.6 3 1 1 1 1.33 4.3 4.3	154 155 500 750 2000 78 145 145	70992 121736 105000 6500 6690 91000 100 328000	103 NC 22 NC 33 NC N	IXX	148.5 78.6 6 14.538 1.154 0.019 7.25 0.964 1.083 53.3 2 128.6	285 122 26.28 63.678 5.054 0.084 31.755 4.221 4.743 33.452 813.6 39.9	148.5 78.6	285 122 2 33.4 6 697.1 79 9	ompliance is based on emission inventory and QAP stack test is not required since this unit is not allowed to exceed 00 hours in any year. (356 hrs limit) 65 Ib/MMBTU for residue 65 Ib/MMBTU for residue	82.86043 52.34 1.3731 0.32375 0.09 0.0076 0.1305 1.56466 0.01575 9.12191 124.92 0.026674 17.11 0.038256 34.55515 40.73415	2009 2009 2009 2009 2009 2009 2009 2009
990021 UNITED TECHNOLOGIES CORPORATION  990025 SUGAR CANE GROWERS CO-OP  990026 SUGAR CANE GROWERS CO-OP	UNITED TECHNOLOGIES / PRATT WHITNEY ACFT SUGAR CANE GROWERS CO-OP SUGAR CANE GROWERS CO-OP	ACTIVE	17 17	544.71 544.71 544.02 568.41 568.41 568.41 568.41 568.41 568.41 568.41 568.41 568.41 568.41 568.41 568.41	2967.55 2968 2975.84 2975.84 2975.84 2975.84 2975.84 2975.84 2975.84 2975.84 2975.84 2975.84 2975.84 2975.84 2975.84 2975.84	40.95 Facility 40.95 Facility 50.95 Facility 21.61 Facility	99 99 99 99 99 99 99 99 99 99	SUGAR PROCESSING PLANT SUGAR PROCESSING PLANT SUGAR PROCESSING PLANT OTHER	4 BAGASSE BOILER #4 (UNIT #5), 140,000 L8S/HR STEAM 5 105,000 L8/HR BAGASSE BOILER # 5 WITH 2 SCRUBBERS & 2 STACKS 6 BOILER #6 WITH SCRUBBER PSD 16 Boiler (BO-12-E6) w/heat input of 42 mmBTUH in Test Area E 22 2 boilers (BO-1-MBH,BO-2-BMH); S4 MMBTU/Hr each, at BH 40 Two furnaces (FU-3-MHT, FU-4-MHT), 6 MMBTUH each 45 Water evaporator (EV-1-MW) w/heat input of 0.2 MMBTUH 59 Miscellaneous air and fuel heaters fired with natural gas 65 Miscellaneous diesel engines driving generators, pumps, etc. 66 Boiler (BO-14-E8) w/heat input of 7 MMBTUH, propane fired 68 Emergency electrical generating facility 69 Ten existing jet engine test stands located in Test Area A 77 CT Test Stands 79 Two JP8 fired Turbine Engines 80 E-8 Rocket Engine Test Stand 1 BOILER #1 WITH 1 SCRUBBER AND 1 STACK 2 BOILER #2 WITH 1 SCRUBBER AND 1 STACK	ACTIVE	90 90 15 66 44 44 25 81 75 150 150	6.3 2.5 7.6 3 1 1 1 5.9 1.33 4.3 4.3 4.3	154 155 500 750 2000 78 145 145	70992 121736 105000 6500 6690 91000 100 328000	103 NC 22 NC 33 NC N	IXX	148.5 78.6 6 6 14.538 1.154 0.019 7.25 0.964 1.083 53.3 2 885.753	285 122 26.28 63.678 5.054 0.084 4.221 4.743 33.452 813.6 39.9	78.6 78.6 21.43 128.6	285   122   122   122   122   123   124   125   126   127   127	ompliance is based on emission inventory and QAP stack test is not required since this unit is not allowed to exceed 00 hours in any year. (336 hrs limit) 65 Ib/MMBTU for residue 65 Ib/MMBTU for residue 66 leduce allowable to reduce Title V fees.	82.86043 52.34 1.3731 0.32375 0.09 0.0076 0.1305 1.56466 0.01575 9.12191 124.92 0.026674 17.11 0.038256 34.55515 40.73415	2009 2009 2009 2009 2009 2009 2009 2009
990021 UNITED TECHNOLOGIES CORPORATION  990026 SUGAR CANE GROWERS CO-OP  990026 SUGAR CANE GROWERS CO-OP  990026 SUGAR CANE GROWERS CO-OP	UNITED TECHNOLOGIES / PRATT WHITNEY ACFT SUGAR CANE GROWERS CO-OP SUGAR CANE GROWERS CO-OP SUGAR CANE GROWERS CO-OP	ACTIVE	17 17 17	544.71 544.71 544.02 568.41 568.41 568.41 568.41 568.41 568.41 568.41 568.41 568.41 568.41 568.41 568.41 568.41	2967.55 2968 2975.84 2975.84 2975.84 2975.84 2975.84 2975.84 2975.84 2975.84 2975.84 2975.84 2975.84 2975.84 2975.84 2975.84	40.95 Facility 40.95 Facility 50.97 Facility 21.61 Facility 21.63 Facility 21.64 Facility 21.65 Facility 21.65 Facility 21.67 Facility 21.68 Facility 21.69 Facility 21.69 Facility 21.61 Facility 21.61 Facility 21.61 Facility 21.61 Facility 21.63 Facility 21.65 Facility 21.65 Facility 21.67 Facility 21.68 Facility 21.69 Facility 21.69 Facility 21.69 Facility 21.60	12 12 12 99 99 99 99 99 99 99 99 12 12 12 12	SUGAR PROCESSING PLANT SUGAR PROCESSING PLANT SUGAR PROCESSING PLANT OTHER SUGAR PROCESSING PLANT	4 BAGASSE BOILER #4 (UNIT #5), 140,000 L85/HR STEAM 5 155,000 L8/HR BAGASSE BOILER # 5 WITH 2 SCRUBBERS & 2 STACKS 6 BOILER #6 WITH SCRUBBER PSD 16 Boiler (BO-12-E6) w/heat input of 42 mmBTUH in Test Area E 22 2 boilers (BO-1-MBH,BO-2-BMH); 54 MMBTUH each, at BH 40 Two furnaces (FU-3-MHT, FU-4-MHT), 6 MMBTUH each 45 Water evaporator (EV-1-MW) w/heat input of 0.2 MMBTUH 59 Miscellaneous air and fuel heaters fired with natural gas 65 Miscellaneous diesel engines driving generators, pumps, etc. 66 Boiler (BO-14-E8) w/heat input of 7 MMBTUH, propane fired 68 Emergency electrical generating facility 69 Ten existing jet engine test stands located in Test Area A 77 CT Test Stands 79 Two JP8 fired Turbine Engines 80 E-8 Rocket Engine Test Stand 18 OILER #3 WITH 1 SCRUBBER AND 1 STACK 2 BOILER #2 WITH 1 SCRUBBER AND 1 STACK 2 BOILER #2 WITH 1 SCRUBBER AND 1 STACK 3 BOILER #2 WITH 1 SCRUBBER AND 1 STACK	ACTIVE	90 90 15 66 44 44 25 81 75 150 150 150	6.3 2.5 7.6 3 1 1 1 1 5.9 4.3 4.3 4.3 5.3	154 155 500 750 2000 78 145 145 146 146 146 155	70992 121736 105000 6500 6690 91000 100 100 328000 62658 66252 66252 66252 66931	103 NC 22 NC 33 NC N	IXX	148.5 78.6 6 14.538 1.154 0.019 7.25 0.964 1.083 53.3 2 128.6 128.6 100.5	285 122 26.28 5.054 0.084 31.755 4.221 4.743 33.452 813.6 39.9	78.6 78.6 21.43 128.6 102.9	285   122   122   122   122   123	ompliance is based on emission inventory and QAP tack test is not required since this unit is not allowed to exceed 00 hours in any year. (396 hrs limit) 65 Ib/MMBTU for residue 65 Ib/MMBTU for residue leduce allowable to reduce Title V fees.	82.86043 52.34 1.3731 0.32375 0.09 0.0076 0.1305 1.56466 0.01575 9.12191 124.92 0.026674 17.11 0.038256 34.55515 40.73415 40.73415	2009 2009 2009 2009 2009 2009 2009 2009
990021 UNITED TECHNOLOGIES CORPORATION  990025 SUGAR CANE GROWERS CO-OP  900026 SUGAR CANE GROWERS CO-OP	UNITED TECHNOLOGIES / PRATT WHITNEY ACFT SUGAR CANE GROWERS CO-OP SUGAR CANE GROWERS CO-OP	ACTIVE	17 17 17 17	544.71 544.71 544.02 568.41 568.41 568.41 568.41 568.41 568.41 568.41 568.41 568.41 568.41 568.41 568.41	2967.55 2968 2975.84 2975.84 2975.84 2975.84 2975.84 2975.84 2975.84 2975.84 2975.84 2975.84 2975.84 2975.84 2975.84 2975.84 2975.84 2975.84 2975.84 2975.84	40.95 Facility 40.95 Facility 50.95 Facility 41.28 Point 41.28 Point 21.61 Facility	12 12 99 99 99 99 99 99 99 12 12 12 12 12	SUGAR PROCESSING PLANT SUGAR PROCESSING PLANT SUGAR PROCESSING PLANT OTHER	4 BAGASSE BOILER #4 (UNIT #5), 140,000 L8S/HR STEAM 5 105,000 L8/HR BAGASSE BOILER # 5 WITH 2 SCRUBBERS & 2 STACKS 6 BOILER #6 WITH SCRUBBER PSD 16 Boiler (BO-12-E6) w/heat input of 42 mmBTUH in Test Area E 22 2 boilers (BO-1-MBH,BO-2-BMH); S4 MMBTU/Hr each, at BH 40 Two furnaces (FU-3-MHT, FU-4-MHT), 6 MMBTUH each 45 Water evaporator (EV-1-MW) w/heat input of 0.2 MMBTUH 59 Miscellaneous air and fuel heaters fired with natural gas 65 Miscellaneous diesel engines driving generators, pumps, etc. 66 Boiler (BO-14-E8) w/heat input of 7 MMBTUH, propane fired 68 Emergency electrical generating facility 69 Ten existing jet engine test stands located in Test Area A 77 CT Test Stands 79 Two JP8 fired Turbine Engines 80 E-8 Rocket Engine Test Stand 1 BOILER #1 WITH 1 SCRUBBER AND 1 STACK 2 BOILER #2 WITH 1 SCRUBBER AND 1 STACK	ACTIVE	90 90 15 66 44 44 25 81 75 150 150	6.3 2.5 7.6 3 1 1 1 5.9 1.33 4.3 4.3 4.3	154 155 500 750 2000 78 145 145 146 146 146 155	70992 121736 105000 6500 6690 91000 100 100 328000 62658 66252 66252 66252 6931 214000	103 NC 22 NC 33 NC N	IXX	148.5 78.6 6 6 14.538 1.154 0.019 7.25 0.964 1.083 53.3 2 885.753	285 122 26.28 63.678 5.054 0.084 4.221 4.743 33.452 813.6 39.9	78.6 78.6 21.43 128.6	285   122   122   122   123   124   125   125	compliance is based on emission inventory and QAP tack test is not required since this unit is not allowed to exceed 00 hours in any year. (396 hrs limit) 65 lb/MMBTU for residue 65 lb/MMBTU for residue leduce allowable to reduce Title V fees. ACT	82.86043 52.34 1.3731 0.32375 0.09 0.0076 0.1305 1.56466 0.01575 9.12191 124.92 0.026674 17.11 0.038256 34.55515 40.73415	2009 2009 2009 2009 2009 2009 2009 2009
990021 UNITED TECHNOLOGIES CORPORATION  990026 SUGAR CANE GROWERS CO-OP	UNITED TECHNOLOGIES / PRATT WHITNEY ACFT  SUGAR CANE GROWERS CO-OP	ACTIVE	17 17 17 17 17 17	544.71 544.71 544.02 568.41 568.41 568.41 568.41 568.41 568.41 568.41 568.41 568.41 568.41 568.41 568.41 568.41 568.41 568.41 568.41 568.41 568.41 568.41	2967.55 2968 2975.84	40.95 Facility 40.95 Facility 50.97 Facility 21.61 Facility 21.63 Facility 21.64 Facility 21.65 Facility 21.67 Facility 21.68 Facility 21.69 Facility 21.69 Facility 21.69 Facility 21.69 Facility 21.69 Facility 21.60 Facility 21.60 Facility 21.61	99 99 99 99 99 99 99 122 12 12 12 12 12 12 12 12 12 12 12 12	SUGAR PROCESSING PLANT SUGAR PROCESSING PLANT SUGAR PROCESSING PLANT OTHER SUGAR PROCESSING PLANT	4 BAGASSE BOILER #4 (UNIT #5), 140,000 L8S/HR STEAM 5 155,000 L8/HR BAGASSE BOILER # 5 WITH 2 SCRUBBERS & 2 STACKS 6 BOILER #6 WITH SCRUBBER PSD 16 BOIler (BO-12-E6) w/heat input of 42 mmBTUH in Test Area E 22 2 boilers (BO-1-MBH,BO-2-BMH); 54 MMBTUH each, at BH 40 Two furnaces (FU-3-MHT, FU-4-MHT), 6 MMBTUH each 45 Water evaporator (EV-1-MW) w/heat input of 0.2 MMBTUH 59 Miscellaneous air and fuel heaters fired with natural gas 65 Miscellaneous diesel engines driving generators, pumps, etc. 66 Boiler (BO-14-E8) w/heat input of 7 MMBTUH, propane fired 68 Emergency electrical generating facility 69 Ten existing jet engine test stands located in Test Area A 77 CT Test Stands 79 Two JP8 fired Turbine Engines 80 E-8 Rocket Engine Test Stand 1 BOILER #1 WITH 1 SCRUBBER AND 1 STACK 2 BOILER #2 WITH 1 SCRUBBER AND 1 STACK 3 BOILER #3 WITH 1 SCRUBBER AND 1 STACK 5 BOILER #8 WITH 2 SCRUBBERS AND 1 STACK 8 BOILER #8 WITH 2 SCRUBBERS AND 1 STACK 8 BOILER #8 WITH 2 SCRUBBERS AND 1 STACK 8 BOILER #8 WITH 2 SCRUBBERS AND 1 STACK 8 BOILER #8 WITH 2 SCRUBBERS AND 1 STACK	ACTIVE	90 90 15 66 44 44 25 25 81 150 150 180 180 150	6.3 2.5 7.6 3 1 1 1 1 1 1 5.9 4.3 4.3 4.3 7.5 7.9 9.5	154 155 500 750 2000 78 145 145 146 146 146 155 159 159	70992 121736 105000 6500 6690 91000 100 100 328000 66258 66252 66252 66252 66252 66252 1214000 93271	103 NC 22 NC 33 NC N	IXX	148.5 78.6 6 14.538 1.154 0.019 7.25 0.964 1.083 53.3 2 128.6 128.6 128.6 102.9 257 188.6	285 122 26.28 5.054 0.084 5.054 0.084 4.221 4.743 33.452 813.6 39.9 0.19 469 469 469 469 229.6 938 688	21.43 128.6 102.9 257 188.6 123	285   122   122   122   122   123   124   125	ompliance is based on emission inventory and QAP tack test is not required since this unit is not allowed to exceed 00 hours in any year. (396 hrs limit) 65 lb/MMBTU for residue	82.86043 52.34 1.3731 0.32375 0.09 0.0076 0.1305 1.56466 0.01575 9.12191 124.92 0.026674 17.11 0.038256 34.55515 40.73415 40.73415 193.6727 109.8922 109.8922	2009 2009 2009 2009 2009 2009 2009 2009
990021 UNITED TECHNOLOGIES CORPORATION  990026 SUGAR CANE GROWERS CO-OP	UNITED TECHNOLOGIES / PRATT WHITNEY ACFT SUGAR CANE GROWERS CO-OP	ACTIVE  ACTIVE	17 17 17 17 17 17 17	544.71 544.71 544.02 568.41 568.41 568.41 568.41 568.41 568.41 568.41 568.41 568.41 568.41 568.41 568.41 568.41 568.41 568.41 568.41 568.41 568.41 568.41	2967.55 2968 2975.84 2975.84 2975.84 2975.84 2975.84 2975.84 2975.84 2975.84 2975.84 2975.84 2975.84 2975.84 2975.84 2975.84 2975.84 2975.84 2975.84 2975.86 2953.86 2953.86 2953.86 2953.86 2953.86 2953.86	40.95 Facility 40.95 Facility 50.95 Facility 41.28 Point 41.28 Point 21.61 Facility	12 12 99 99 99 99 99 99 99 12 12 12 12 12 12 12	SUGAR PROCESSING PLANT SUGAR PROCESSING PLANT SUGAR PROCESSING PLANT OTHER SUGAR PROCESSING PLANT	4 BAGASSE BOILER #4 (UNIT #5), 140,000 L8S/HR STEAM 5 185,000 L8/HR BAGASSE BOILER # 5 WITH 2 SCRUBBERS & 2 STACKS 6 BOILER #6 WITH SCRUBBER PSD 16 Boiler (BO-12-E6) w/heat input of 42 mmBTUH in Test Area E 22 2 boilers (BO-1-MBH,BO-2-BMH); S4 MMBTU/Hr each, at BH 40 Two furnaces (FU-3-MHT, FU-4-MHT), 6 MMBTUH each 45 Water evaporator (EV-1-MW) w/heat input of 0.2 MMBTUH 59 Miscellaneous air and fuel heaters fired with natural gas 65 Miscellaneous diesel engines driving generators, pumps, etc. 66 Boiler (BO-14-E8) w/heat input of 7 MMBTUH, propane fired 68 Emergency electrical generating facility 69 Ten existing jet engine test stands located in Test Area A 77 CT Test Stands 79 Two JP8 fired Turbine Engines 80 E-8 Rocket Engine Test Stand 1 BOILER #1 WITH 1 SCRUBBER AND 1 STACK 2 BOILER #2 WITH 1 SCRUBBER AND 1 STACK 3 BOILER #3 WITH 1 SCRUBBER AND 1 STACK 4 BOILER #4 WITH 1 SCRUBBER AND 1 STACK 5 BOILER #4 WITH 1 SCRUBBER AND 1 STACK 6 BOILER #4 WITH 1 SCRUBBER AND 1 STACK 6 BOILER #4 WITH 2 SCRUBBER AND 1 STACK 6 BOILER #4 WITH 2 SCRUBBER AND 1 STACK 6 BOILER #4 WITH 2 SCRUBBER AND 1 STACK 6 BOILER #4 WITH 2 SCRUBBER AND 1 STACK 6 BOILER #8 WITH 2 SCRUBBER AND 1 STACK 6 BOILER #8 WITH 2 SCRUBBER AND 1 STACK 6 BOILER #8 WITH 2 SCRUBBERS AND 1 STACK	ACTIVE	90 90 15 66 44 44 25 25 81 150 150 180 180 150	5.9 1.33 4.3 4.3 5.2 9.5	154 155 500 750 2000 78 145 145 146 146 155 159 155 161	70992 121736 105000 6500 6690 91000 100 328000 62658 66252 66252 66252 6931 214000 93271	103 NC 22 NC 33 NC N	IXX	148.5 78.6 6 6 14.538 1.154 0.019 7.25 0.964 1.083 5.3.3 2 128.6 128.6 128.6 192.5 198.6 198.6	285 122 26.28 63.678 5.054 0.084 4.221 4.743 33.452 813.6 4.93 9.9 0.19 469 279.6 469 279.6 469 279.6 469 469 469 469 469 469 469 469 469 46	21.43 21.43 128.6 102.9 257	285   122   122   122   122   122   122   122   123	ompliance is based on emission inventory and QAP tack test is not required since this unit is not allowed to exceed 00 hours in any year. (396 hrs limit) 65 lb/MMBTU for residue 15 lb/MMBTU for residue	82.86043 52.34 1.3731 0.32375 0.09 0.0076 0.1305 1.56466 0.01575 9.12191 124.92 0.026674 17.11 0.038256 34.55515 40.73415 40.73415 29.62526 193.6727 193.8922	2009 2009 2009 2009 2009 2009 2009 2009

TABLE A-1
INITIAL FDEP NO₂ INVENTORY

						UTM	Distance from		Facility				Stack											
Facility ID	Owner / Company Name	Site Name	Facility Status	UTM Zone	UTM East (km)	North (km)	Center (km)	Location Based On	Type	Description EU I	EU Description	EU Status		Diam (6) 1	Exit Temp (F)	ACEM DSC	M VEL(ft/s) Pollut			Allowable (lb/hr)	Allowable (tpy)	Comments	Actual (tpy)	Year
	FLORIDA POWER & LIGHT (PRV)	FP&L / RIVIERA POWER PLANT	ACTIVE	17		2960.62		Facility			4 Fossil Fuel Steam Generator, Unit 4 -Phase II Acid Rain Unit	ACTIVE	298		263		87.3 NOX	1891	8282.58	1630		While firing natural gas.	50.202	2009
	FLORIDA POWER & LIGHT (PRV) FLORIDA POWER & LIGHT (PRV)	FP&L / RIVIERA POWER PLANT	ACTIVE	17		2960.62		Facility			4 Fossil Fuel Steam Generator, Unit 4 -Phase II Acid Rain Unit	ACTIVE	298	16	263	1052646	87.3 NOX	1891	8282.58	1891	8282.5	While firing fuel oil.	50.202	
990042	FLORIDA POWER & LIGHT (PRV)	FP&L / RIVIERA POWER PLANT .	ACTIVE	17	593.27	2960.62	8.95	Facility Emission	1	STEAM ELECTRIC PLANT	6 Emergency diesel generator, and mobile equip. & engines	ACTIVE	$\vdash$	-			NOX		<del>                                     </del>				0.156	2009
990045	CITY OF LAKE WORTH UTILITIES	L.W. UTILITIES / TOM G. SMITH PWR PLANT	ACTIVE	17	592.8	2943.7	19.82	Point Emission	1	STEAM ELECTRIC PLANT	1 2000 KW DIESEL GENERATOR # 1 PEAKING UNIT	ACTIVE	17	1.83	667	19208	121.7 NOX	99,8	436.91	99.8	436.9		1.25028	2008
990045	CITY OF LAKE WORTH UTILITIES	L.W. UTILITIES / TOM G. SMITH PWR PLANT	ACTIVE	17	592.8	2943.7	19.82	Point Emission	1	STEAM ELECTRIC PLANT	2 2000 KW DIESEL GENERATOR # 2 PEAKING UNIT	ACTIVE	17	1.83	667	19208	121.7 NOX	99.8	436.91	99.8	436.9	L .	1.11438	2008
990045	CITY OF LAKE WORTH UTILITIES	L.W. UTILITIES / TOM G. SMITH PWR PLANT	ACTIVE	17	592.8	2943.7	19.82	Point Emission	1	STEAM ELECTRIC PLANT	3 2000 KW DIESEL GENERATOR # 3 PEAKING UNIT	ACTIVE	17	1.83	667	19208	121.7 NOX	99.8	436.91	99.8	436.9		1.29558	2008
990045	CITY OF LAKE WORTH UTILITIES	L.W. UTILITIES / TOM G. SMITH PWR PLANT	ACTIVE	17	592.8	2943.7	19.82	Point	1	STEAM ELECTRIC PLANT	4 2000 XW DIESEL GENERATOR # 4 PEAKING UNIT	ACTIVE	17	1.83	667	19208	121.7 NOX	99.8	436.91	99.8	436.9		0.9362	2008
990045	CITY OF LAKE WORTH UTILITIES	L.W. UTILITIES / TOM G. SMITH PWR PLANT	ACTIVE	17	592.8	2943.7	19.82	-	1	STEAM ELECTRIC PLANT	5 2000 KW DIESEL GENERATOR # 5 PEAKING UNIT	ACTIVE	17	1.83	667	19208	121.7 NOX	99.8	436.91	99.8	436.9		0.9815	2008
990045	CITY OF LAKE WORTH UTILITIES	L.W. UTILITIES / TOM G. SMITH PWR PLANT	ACTIVE	17	592.8	2943.7	19.82		1	STEAM ELECTRIC PLANT	6 GAS TURBINE # 1	ACTIVE	46	16	837	983593	81.5 NOX	392	1715	392	171	5	2.26388	2008
990045	CITY OF LAKE WORTH UTILITIES	L.W. UTILITIES / TOM G. SMITH PWR PLANT	ACTIVE	17	592.8	2943.7	19.82		1	STEAM ELECTRIC PLANT	9 FOSSIL FUEL STEAM GENERATOR #3 (Phase II, Acid Rain Unit	ACTIVE	113	7	293	118719	51.4 NOX	163	712	163	71	Same limit for gas and fuel oil,	3.03478	2008
990045	CITY OF LAKE WORTH UTILITIES	LW. UTILITIES / TOM G. SMITH PWR PLANT	ACTIVE	17	592.8	2943.7	19.82		1	STEAM ELECTRIC PLANT 1	11 COMBINED CYCLE UNIT (GT-2/S-5)	ACTIVE	75	10	404	412466	87.5 NOX	286	1252	286	125	While firing fuel oil.	29.8866	2008
990045	CITY OF LAKE WORTH UTILITIES	LW. UTILITIES / TOM G. SMITH PWR PLANT	ACTIVE	17	592.8	2943.7	19.82	Emission Point	Ι,	STEAM ELECTRIC PLANT 1	L1 COMBINED CYCLE UNIT (GT-2/S-5)	ACTIVE	75	10	404	412466	87.5 NOX	786	1252	159	69	While firing natural gas.	29.8866	2008
	CEMEX CONSTRUCTION MATERIALS FLORIDA,LLC	CEMEX CONSTRUCTION / (RIVIERA BEACH)	ACTIVE	17		2960.8					7 ship unloader with dust collector [and 3 diesel engines]	ACTIVE	20	2	100	5650	30 NOX	33.45					84.9468	
990087	RANGER CONSTRUCTION INDUSTRIES, INC.	RANGER CONSTRUCTION / (ROYAL PALM BEACH)	ACTIVE	17	579.9	2951.7	10.92	Emission Point	22	ASPHALT PLANT	4 Double drum dryer (250 TPH)	ACTIVE	36	3,3	250	69463 322	65 135 NOX	18.75	24.38				7.15239	2008
	RANGER CONSTRUCTION INDUSTRIES, INC.	RANGER CONSTRUCTION / (ROYAL PALM BEACH)		17	579.9	2951.7	10.92	Emission Point	22	ASPHALT PLANT	5 Asphalt cement heater (1.4 mmBTUH) burning distillate oil	ACTIVE	15	1	600	640 5	12 13.6 NOX						0.452	2006
	BETHESDA MEMORIAL HOSPITAL	BETHESDA MEMORIAL HOSPITAL	ACTIVE	17		2931.94			37	HOSPITALS/HEALTH CARE	4 MEDICAL WASTE INCINERATION SYSTEM- w/HRSG	ACTIVE	65	1.5		3800 34		12.6	27.8				2.34309	
990095	BETHESDA MEMORIAL HOSPITAL	BETHESDA MEMORIAL HOSPITAL	ACTIVE	17	592.56	2931.94	30.78	Facility	37	HOSPITALS/HEALTH CARE	5 2 NATURAL GAS FIRED BOILERS	ACTIVE	<del>                                     </del>	-+	800		NOX	-	6.4		-	-	3.5311	2009
	TRI COUNTY HUMANE SOCIETY	TRI COUNTY HUMANE SOCIETY ANIMAL SHELTER		17	582.5			Facility		ANIMAL CREMATORY	2 Animal Cremation Incinerator Model C-1000H	ACTIVE					NOX					·		
	BOCA RATON COMMUNITY HOSPITAL FLORIDA POWER & LIGHT (PDC/OSF)	BOCA RATON COMMUNITY HOSPITAL  FP&L / PHYSICAL DISTRIBUTION CTR & OSF	ACTIVE ACTIVE	17		2915.67 2961.2	46.44	Facility Facility			2 BIOLOGICAL INCINERATOR; SIMONDS #AF-3C (730 LB/HR)	ACTIVE ACTIVE	40 30		435	4306 4495	40.6 NOX	1.1	4.783 8.05		_12.	<u> </u>	1.1424 0.56126	
	FLORIDA POWER & LIGHT (PDC/OSF)	FP&L / PHYSICAL DISTRIBUTION CTR & OSF	ACTIVE	17		2961.2		Facility			1 12.5 mmBTU/hr boiler #1 (Unit A) (W) burning No.6 fuel oil 2 12.5 mmBTU/hr boiler #2 (Unit B) (E) burning No.6 fuel oil	ACTIVE	30	1.7	425 425	4495	33 NOX 33 NOX	- 0	8.05				0.36091	
	SIKORSKY AIRCRAFT CORPORATION	SIKORSKY AIRCRAFT CORP. / (JUPITER)	ACTIVE	17				Facility			9 Small boiler (BO-4-SIK); fired by natural gas, 2.93 mmBTU/hr	ACTIVE			125	1100	NOX	0.285					0.04263	
	SIKORSKY AIRCRAFT CORPORATION	SIKORSKY AIRCRAFT CORP. / (JUPITER)	ACTIVE	17				Facility			O Paint spray booth (PS-13-SIK) with drying oven	ACTIVE	39	6	85	33000	19.5 NOX	0.285					0.005	2003
	PEGGY ADAMS ANIMAL RESCUE LEAGUE OF THE PEGGY ADAMS ANIMAL RESCUE LEAGUE OF THE	PEGGY ADAMS ANIMAL RESCUE LEAGUE PEGGY ADAMS ANIMAL RESCUE LEAGUE	ACTIVE	17	588.69 588.69	2956.16					3 S.stack 250#/HR ANIMAL CREMATION INCIN; CRAWFORD #C-1000S 4 N.stack ANIMAL CREMATION INCIN; CRAWFORD #C-500P; 75 LB/HR	ACTIVE ACTIVE	20	1.7		3979 14 1537 5	56 29.2 NOX 24 11 NOX	0.375 0.113						
	SOLID WASTE AUTHORITY OF PBC	SOLID WASTE AUTHORITY OF PBC/NCRRF	ACTIVE	17		2960,47		Emission Point		MUNICIPAL INCINERATION OR RRF	1 Municipal Solid Waste Boiler #1	ACTIVE	250	6.7	450	173462	81 NOX	284,77			1247.2	RN: 24 hr average can be dtrmnd by CEMs and not by stack test. COmpliance mtd 2??Or prmt shall be changed.	629.462	2009
	SOLID WASTE AUTHORITY OF PBC	SOLID WASTE AUTHORITY OF PBC/NCRRF	ACTIVE	17	585.82		1.77	Emission		MUNICIPAL INCINERATION OR RRF	2 Municipal Solid Waste Boiler #2	ACTIVE	250	6.7	450	173462	81 NOX	284.77		284.77			656.138	2009
	SOLID WASTE AUTHORITY OF PBC	SOUID WASTE AUTHORITY OF PBC/NCRRF	ACTIVE	17	585.8		1.94	Emission			4 Class III Landfill with Flare	ACTIVE	230	0.7	1400	1800 16		204.77	15.8	204.77	11,1,1		6.844	
	SOLID WASTE AUTHORITY OF PBC	SOLID WASTE AUTHORITY OF PBC/NCRRF	ACTIVE	17	584.49			Facility			8 Class I Landfill Flare (3500 scfm)	ACTIVE	44	1.3	000	516			13.8				14.49	
	SOLID WASTE AUTHORITY OF PBC	SOLID WASTE AUTHORITY OF PBC/NCRRF	ACTIVE	17	584.49		0.31					ACTIVE		1.2	333	316	NOX	-	24.5				2.8671	
	SOLID WASTE AUTHORITY OF PBC	SOLID WASTE AUTHORITY OF PBC/NCRRF	ACTIVE	17	584.49						0 Sludge Dryer Train #1					-	NOX	5,0	24.3				1.3032	2009
			ACTIVE	17							1 Sludge Dryer Train #2	ACTIVE		$-\dagger$				3.6	,				0.129047	
		SOLID WASTE AUTHORITY OF PBC/NCRRF		1/	\$84.49	2961.26		Facility Emission			6 Emergency Generator	ACTIVE					NOX		<del> </del>					2009
	SOLID WASTE AUTHORITY OF PBC	SOLID WASTE AUTHORITY OF PBC/NCRRF	ACTIVE	17	585.1	2961.74	0.67				7 Woody Waste Facility Diesel Engine	ACTIVE CONSTRU	14	0.67	898	6092 20			<del> </del>				18.8864	2009
	SOLID WASTE AUTHORITY OF PBC	SOLID WASTE AUTHORITY OF PBC/NCRRF	ACTIVE	17	584.49			Facility			1 Emergency generator (engine) 220 bhp, EPA Tier III certified	CTION		_	$\overline{}$		NOX		_					
	PALM BEACH COUNTY DEPARTMENT OF VETERANS AFFAIRS	VETERANS AFFAIRS MEDICAL CENTER	ACTIVE ACTIVE	17	582.77 588.16		9.52	Facility Facility			1 ANIMAL CREMATORY	ACTIVE	30	_			NOX	0,04	0.1	0.04	0.1		0.091 3.61	1993 2006
	DEPARTMENT OF VETERANS AFFAIRS	VETERANS AFFAIRS MEDICAL CENTER	ACTIVE		588.16			Facility			2 Fossil Fuel Fired Steam Generators 3 Electric Power Generators (five)	ACTIVE	50	1	960	6390	135.6 NOX					-	1.17176	
	NORTHWOOD FUNERAL HOME	NORTHWOOD CREMATORY	ACTIVE		593.94	2960.25	8.76	Facility	43	HUMAN CREMATORY	1 Human Crematory-2chmbrs,NG fired,w/opacity monitor,150#/hr	ACTIVE	16	1.7	800				0.986					
	COMMUNITY ASPHALT CORP COMMUNITY ASPHALT CORP	COMMUNITY ASPHALT / WPB PLANT COMMUNITY ASPHALT / WPB PLANT	ACTIVE		582.3 582.3	2950.9 2950.9		Facility		ASPHALT PLANT ASPHALT PLANT	1 Rotary drum mixer (300 TPH) fired by fuel oil/natural gas	ACTIVE	42	4,6	285	53153 249			19.25				5.89914 0.341	
	COMMUNITY ASPHALT CORP	COMMUNITY ASPHALT / WPB PLANT	ACTIVE		$\overline{}$		2.98	Facility Facility			2 1.412 mmbtu/hr Asphalt Cement Heater 4 500 TPH Portable Rock Crusher, Diesel Engine, & Screening.	ACTIVE ACTIVE		+			NOX		0.591 14.105				2.034	
		SCOBEE-COMBS-BOWDEN FUNERAL HOME	ACTIVE	17	593.85	2936.06	27.16	acility	43	HUMAN CREMATORY	1 HUMAN CREMATION INCINERATOR, IEE CO, #IE43-PPII (150 LB/HR)	ACTIVE	16	1.7	800	1605 6		0.2		0.2	0.2	INVALID Limit		
		ALL COUNTY FUNERAL HOME AND CREMATORY		17	593.57		19.43				1 HUMAN CREMATOR, IEE CO. #IE43-PPII (150 LB/HR) - NW Stack	ACTIVE		_			NOX		_					
990318	ALL COUNTY FUNERAL HOME AND CREMATORY	ALL COUNTY FUNERAL HOME AND CREMATORY	ACTIVE	17	593.57	2944.22	19.43 F	acility	43	HUMAN CREMATORY	2 Human Cremation Incinerator IE43-PPII - SE Stack	ACTIVE	<del></del>	$\dashv$	-		NOX		_					
990322	TREASURE COAST CREMATORY	TREASURE COAST CREMATORY / (LAKE WORTH)	ACTIVE	17	593.83	2945.15	18.71	acility	43	HUMAN CREMATORY	1 HUMAN CREMATION INCINERATOR, C-1000	ACTIVE	27	1.7	1175	1132 3	15 8 NOX	0.225	0.9855					
	TREASURE COAST CREMATORY STEWART ENTERPRISES, INC.	TREASURE COAST CREMATORY / (LAKE WORTH) ROYAL PALM FUNERAL HOME	ACTIVE	17	593.83 593.38	2945.15 2960.47	18.71 F 8.17 F				2 HUMAN CREMATION INCINERATOR, MODEL #C-1000 1 HUMAN CREMATION INCINERATOR, IEE CO. 1E43-ET (100 LB/HR)	ACTIVE ACTIVE	25 20	1.8	1033 1099	2924 9 2538 7	11 19 NOX 59 16 NOX		0.9855					
	HARDRIVES ASPHALT COMPANY	HARDRIVES / DELRAY PLANT	ACTIVE	17	590.6	2923.5	38.72 F	mission			1 Drum dryer (250 TPH) fired by No. 2 oil w/baghouse	ACTIVE	42	4.7	275	58000 307							2.0784	2008
	HARDRIVES ASPHALT COMPANY	HARDRIVES / DELRAY PLANT	ACTIVE	17	590.6	2923.5		mission			2 Asphalt Cement Heater (0.6 mmBTUH) fired w/No.2 oil	ACTIVE	15	0.33			20 35.1 NOX		0.44				0.361	2008
		OKEELANTA COGENERATION PLANT	ACTIVE	17	524.9	2940.1		mission			Cogeneration Boiler A - 760 MMBtu/hr spreader stoker boiler	ACTIVE	100	10	200	246000	52.2 NOX	114		114	400 3	Also requested limit to net out of PSD in original permit.	270.8373	
		OKEELANTA COGENERATION PLANT	ACTIVE	1,	524.09	2940.01		mission		ITEAM ELECTRIC PLANT		$\neg \neg$	199	10	293		52.2 NOX	114		114			256.5143	2009
				17			E	mission			2 Cogeneration Boiler B - 760 MMBtu/hr spreader stoker boiler	ACTIVE	199	10	295	246000				114		Also requested limit to net out of PSD in original permit.		
		OKEELANTA COGENERATION PLANT	ACTIVE	17	524.09	2940.01	64.6 F				3 Cogeneration Boiler C - 760 MMBtu/hr spreader stoker boiler	ACTIVE	199	10	295	246000	52.2 NOX	114		114		Also requested limit to net out of PSD in original permit.  EF UNITS: GRAM/BHP-HR: A new sequence with 42 ppmvd at 15%	273.6099	
	FLORIDA GAS TRANSMISSION COMPANY	COMPRESSOR STATION NO. 21	ACTIVE	17	\$84.34	2952.83	8.99 F				1 COMPRESSOR #2101, 6500 BHP NATURAL GAS FIRED TURBINE	ACTIVE	50	3.3	915	95039 359		8.92		8.92		O2 is added. This limit is based on AC-229440 and is stricter than that of NSPS	7.08553	2009
		COMPRESSOR STATION NO. 21	ACTIVE	17	584.34	2952.83	8.99 F			_	1 COMPRESSOR #2101, 6500 BHP NATURAL GAS FIRED TURBINE	ACTIVE	50	3.3	915	95039 359		8.92				equation-derived limit EF UNITS: GRAM/BHP-HR: A NEW Sequence of 42 ppmvd at 15%	7.08553	
	FLORIDA GAS TRANSMISSION COMPANY	COMPRESSOR STATION NO. 21	ACTIVE	17	584.34	2952.83		acility			2 COMPRESSOR #2102, 6500 BHP NATURAL GAS FIRED TURBINE	ACTIVE	50	3.3	915	95039 359		8.92		8.92		O2 (May - 2008) This Limit is from AC- 229440 and is stringent than the NSPS	14.6819	2009
		COMPRESSOR STATION NO. 21	ACTIVE	17	584.34	2952.83	8.99 F				2 COMPRESSOR #2102, 6500 8HP NATURAL GAS FIRED TURBINE	ACTIVE	50	3.3	915	95039 359		8.92	39.05		39.05	equation-derived limit	14.6819	2009
	PALMS WEST FUNERAL HOME AND CREMATORY PARKWAY ASPHALT, INC.	PALMS WEST CREMATORY / (RPB) PARKWAY ASPHALT / (RIVIERA BEACH)	ACTIVE	17		2953.36 2962.14					1 Human cremation incinerator 1 Asphalt rotary drum dryer (400 TPH); counterflow	ACTIVE ACTIVE	18	4.1	1200	2200 7 43090 234	50 16.2 NOX 50 54.4 NOX	+	18.75				3.99193	2008
990344	PARKWAY ASPHALT, INC.	PARKWAY ASPHALT / (RIVIERA BEACH)	ACTIVE	17	587.36		2.99 F				2 Asphalt cement heater fired by No. 2 fuel oil	ACTIVE	15	0.25		-5050 234	NOX		0.2				0.32	2008
	PALM BEACH COUNTY WATER UTILITIES DEPT.	PBC SOUTHERN REGION WATER RECLAMATION	ACTIVE	17	581.85	2929.65	32.15 F	acility	99	OTHER :	2 EMERGENCY GENERATORS (4): [1360 KW each]	ACTIVE	3	1.35		27190	316.6 NOX						2.17248	2009
	PALM BEACH COUNTY WATER UTILITIES DEPT. PALM BEACH COUNTY WATER UTILITIES DEPT.	PBC SOUTHERN REGION WATER RECLAMATION PBC SOUTHERN REGION WATER RECLAMATION			581.85 581.85	2929.65 2929.65					3 FOUR ANAEROBIC DIGESTER SOILERS	ACTIVE	4	1.35	643	1432	16.7 NOX	-	$\vdash$				1.34995 1.57636	2009
990347	FACINIDEACH COURTY WATER UTILITIES DEPT.	FIRE SOUTHERN REGION WATER RECLAMATION	MCHVE	17	281.85	4343.65	32.15 F	acility	99	VILLEY .	4 Flare	ACTIVE	20	0.3	643	3/1	87.4 NOX						1.3/636	2003

TABLE A-1 INITIAL FDEP NO₂ INVENTORY

		1					Distanc	e							_		_	1		— т					
					UTM East	UTM North	from Center	Location	Facility Type				Stack Height				.		Potential	Potential(	Allowable	Allowable		Actual	
Facility ID	Owner / Company Name	Site Name		Zone	(km)	(km)		Emission	Code	Description E	U ID EU Description	EU Statu	s (ft)	(ft)	Temp	(F) ACFN	1 DSCFI	M VEL(ft/s) Poliutan	nt (b/hr)	tpy)	(lb/hr)	(tpy)	Comments	(tpy)	Year
990349 SOUT	TH FLORIDA WATER MANAGEMENT DISTRICT	SFWMD / PUMP STATION S-SA	ACTIVE	17	562.6	295	1.3 24	.6 Point Emission	45	FLOOD CONTROL PUMP STATIONS	1 Six -1600 hp Pump engines and Two 535 hp generators	ACTIVE	18	1.3	33	775 15	370	184.4 NOX	56.94	249.4		<u> </u>		53.0125	2008
990350 5007	TH FLORIDA WATER MANAGEMENT DISTRICT	SFWMD / PUMP STATION 5-6	ACTIVE	17	596.17	2927	.82 35.8	89 Point Emission	45	FLOOD CONTROL PUMP STATIONS	1 Three · 1240 bhp diesel engines two 164 hp. generators	ACTIVE	59	2.	.3	436 59	164	23.9 NOX	47.05	206.08	56.46	247.	3 gallons per rolling 12-mo.	36.6529	2008
	TH FLORIDA WATER MANAGEMENT DISTRICT TH FLORIDA WATER MANAGEMENT DISTRICT	SFWMD / PUMP STATION S-6 SFWMD / PUMP STATION S-7	ACTIVE ACTIVE	17 17	596.17	2927		89 Point		FLOOD CONTROL PUMP STATIONS	1 Three - 1240 bhp diesel engines two 164 hp. generators	ACTIVE	59 53	2.	-	436 59 600 64		23.9 NOX 38 136.9 NOX	47.09	206.08	56.46	247	gallons per hour	36.6529 51.8673	
	TH FLORIDA WATER MANAGEMENT DISTRICT	SFWMD / PUMP STATION S-7	ACTIVE	17	545.77 545.77			64 Facility 64 Facility	45	FLOOD CONTROL PUMP STATIONS FLOOD CONTROL PUMP STATIONS	1 Three (3) Diesel Pump Engines 800 hp each 2 Two (2) Emergency Generators 380 hp	ACTIVE ACTIVE				600 64	50 28:	NOX		235.02				0.512494	
990530 HUBI	BARD CONSTRUCTION COMPANY	HUBBARD / EAST COAST PAVING (WPB)	ACTIVE	17	562.79	2951.	.97 24.4	Emission 45 Point	22	ASPHALT PLANT	2 Hot Drum Mix - Asphalt Dryer (400 tph)	ACTIVE	30	3.	.8	250 68:	194 5200	00 100.2 NOX	22	13.75				4.07855	2009
990530 HUBI	BARD CONSTRUCTION COMPANY	HUBBARD / EAST COAST PAVING (WPB)	ACTIVE	17	562.79	2951.	.97 24.4	Emission 45 Point	22	ASPHALT PLANT	3 Asphalt Cement heater	ACTIVE	30	3.1	.8	250 68	194 5200	00 100.2 NOX		1.4				0.37699	2009
990530 HUB	BARD CONSTRUCTION COMPANY	HUBBARD / EAST COAST PAVING (WPB)	ACTIVE	17	562.79	2951.	97 244	Emission 45 Point	"	ASPHALT PLANT	4 Rap Crusher (450 TPH)	ACTIVE				70		NOX		14.2				1.16512	2009
	TH FLORIDA WATER MANAGEMENT DISTRICT	SFWMD / PUMP STATION G-310	ACTIVE	17			45 36.0			FLOOD CONTROL PUMP STATIONS	Four engines (2-1535 hp; 2-751 hp) and two generators 900 hp	ACTIVE	1			250		NOX	56,84	248.98	56.84	248.9	gallons per rolling 12-month total.	32.2103	
	TH FLORIDA WATER MANAGEMENT DISTRICT	SFWMD / PUMP STATION G-310	ACTIVE	17	554.2			09 Facility		FLOOD CONTROL PUMP STATIONS	1 Four engines (2-1535 hp; 2-751 hp) and two generators 900 hp	ACTIVE				250		NOX	56.84	248.98	56.84	248.9	maximum 82 gal/hr for 1535 hp engines and maximum 40 gal/hr 3 for 751 hp engines.	32.2103	
	ITH FLORIDA WATER MANAGEMENT DISTRICT ITH FLORIDA SHAVINGS CO.	SFWMD / PUMP STATION G-335 SOUTH FLORIDA SHAVINGS CO.	ACTIVE ACTIVE	17	552.6 578.79	2921. 2941.		35 Facility 35 Facility		FLOOD CONTROL PUMP STATIONS MISC WOOD PRODUCTS MFG.	1 FOUR engines (2-1600 hp; 2-587 hp)-TWO generators (900 hp) 1 Wood shavings dryer	ACTIVE ACTIVE		1.5	.5	200 40	200	37,7 NOX	0.5	2.19				60.684 1.75	
	AN TRAIL IMPROVEMENT DISTRICT	INDIAN TRAIL IMPROVEMENT DISTRICT - ACI	ACTIVE	17	565.73	2956.	.39 20.2	26 Facility	5	OTHER INCINERATION	1 Air curtain incinerator with compacted limestone pit	ACTIVE		L.,	1	500		NOX	17					1.62	
	TH FLORIDA WATER MANAGEMENT DISTRICT ITH FLORIDA WATER MANAGEMENT DISTRICT	SFWMD / PUMP STATION G-370 SFWMD / PUMP STATION S-319	ACTIVE ACTIVE	17		2919. 2951.		25 Facility 05 Facility		FLOOD CONTROL PUMP STATIONS FLOOD CONTROL PUMP STATIONS	1 Three - 1360 bhp and two-900 hp diesel emergency generators 1 Five diesel engines and two emergency generators	ACTIVE ACTIVE		1.3		650 130 650 110		156.7 NOX 109.6 NOX		248.53 241.44				28.8932 3.40188	
990621 SOU	ITH FLORIDA WATER MANANGEMENT DISTRICT	SFWMD / PUMP STATION S-362	ACTIVE	17	567.21	2944.	.98 24.0	Emission 08 Point	45	FLOOD CONTROL PUMP STATIONS	1 Three - 1303 bhp and two - 839 hp diesel engines.	ACTIVE	60	1.3	33	650 86	060	96.7 NOX	111.74	249.222				5.90374	2009
990630 500	TH FLORIDA MATERIALS CORP.	SOUTH FLORIDA MATERIALS CORP.	ACTIVE	17	593.18	2960.	83 83	Emission 84 Point		BULK SHIPPING/RECEIVING	1 Two heaters for asphalt	ACTIVE	24	1.6	,	513 36	518 186	65 27.5 NOX	1.39	6.09				1.212	2009
	RIDA POWER AND LIGHT COMPANY	FP&L / WEST COUNTY ENERGY CENTER	CONSTRU	17	562.19	2953.		Emission 61 Point		STEAM ELECTRIC PLANT	1 250 MW Combined Cycle Combustion Turbine System - Unit 1A	ACTIVE	140	,		188 1311		57.5 NOX	30.7		30		Limit on gas in CTG normal mode; NOx mass emission rates are		
			CONSTRU	- 17				Emission					149		$\top$			1 -				<u></u>	defined as oxides of nitrogen expressed as NO2. Limit on oil; NOx mass emission rates are defined as oxides of		
	RIDA POWER AND LIGHT COMPANY	FP&L / WEST COUNTY ENERGY CENTER	CONSTRU	1/	562.19			Emission	1	STEAM ELECTRIC PLANT	1 250 MW Combined Cycle Combustion Turbine System - Unit 1A	ACTIVE	149	2		188 1311		57.5 NOX	30.2		82.4	1	nitrogen expressed as NO2.		
	RIDA POWER AND LIGHT COMPANY	FP&L / WEST COUNTY ENERGY CENTER	CONSTRU	17	562.19			Emission		STEAM ELECTRIC PLANT	1   250 MW Combined Cycle Combustion Turbine System - Unit 1A	ACTIVE	149	2.		188 1311		57.5 NOX	30.2				Limit on all		
990646 FLOR	RIDA POWER AND LIGHT COMPANY	FP&L / WEST COUNTY ENERGY CENTER	CTION	17	562.19	2953.	04 24.6	51 Point	1	STEAM ELECTRIC PLANT	1 250 MW Combined Cycle Combustion Turbine System - Unit 1A	ACTIVE	149	2	2	188 13119	589	57.5 NOX	30.2				Limit on gas		
990646 FLOR	RIDA POWER AND LIGHT COMPANY	FP&L / WEST COUNTY ENERGY CENTER	CONSTRU	17	562.19	2953.	04 24.6	Emission 51 Point	1	STEAM ELECTRIC PLANT	1 250 MW Combined Cycle Combustion Turbine System - Unit 1A	ACTIVE	149	2	2	188 13119	89	57.5 NOX	30.2		24.2		Limit on gas in CTG & DB operation mode; NOx mass emission rates are defined as oxides of nitrogen expressed as NO2.		
990646 FLOR	RIDA POWER AND LIGHT COMPANY	FP&L / WEST COUNTY ENERGY CENTER	CONSTRU	17	562.19	2953.	04 24.6	51 Facility	1	STEAM ELECTRIC PLANT	2 250 MW Combined Cycle Combustion Turbine System - Unit 1B	ACTIVE	149	2	2	188 13119	89	57.5 NOX	30.2				Limit on gas.		
	RIDA POWER AND LIGHT COMPANY	FP&L / WEST COUNTY ENERGY CENTER	CONSTRU	17		2953.		51 Facility	T -	STEAM ELECTRIC PLANT	2 250 MW Combined Cycle Combustion Turbine System - Unit 1B	ACTIVE	149			188 13119		57.5 NOX	30.2		82.4		Limit on oil; NOx mass emission rates are defined as oxides of nitrogen expressed as NO2.		
			CONSTRU					1													02.4			<u> </u>	
	RIDA POWER AND LIGHT COMPANY	FP&L / WEST COUNTY ENERGY CENTER	CONSTRU	- 1/	562.19			51 Facility		STEAM ELECTRIC PLANT	2 250 MW Combined Cycle Combustion Turbine System - Unit 1B	ACTIVE	149		1	188 13115		57.5 NOX	30.2				Limit on oil. Limit on gas in CTG normal mode; NOx mass emission rates are		
990646 FLOR	RIDA POWER AND LIGHT COMPANY	FP&L / WEST COUNTY ENERGY CENTER	CTION	17	562.19	2953.	04 24.6	51 Facility	1	STEAM ELECTRIC PLANT	2 250 MW Combined Cycle Combustion Turbine System - Unit 18	ACTIVE	149	2.	12	188 13119	89	57.5 NOX	30.2		20	1	defined as oxides of nitrogen expressed as NO2.		
990646 FLOR	RIDA POWER AND LIGHT COMPANY	FP&L / WEST COUNTY ENERGY CENTER	CONSTRU	17	562.19	2953.	04 24.6	51 Facility	1	STEAM ELECTRIC PLANT	2 250 MW Combined Cycle Combustion Turbine System - Unit 18	ACTIVE	149	2:	2	188 13115	89	57.5 NOX	30.2		24.2		Limit on gas in CTG & DB operation mode; NOx mass emission rates are defined as oxides of nitrogen expressed as NO2.		
990646 FLOR	RIDA POWER AND LIGHT COMPANY	FP&L / WEST COUNTY ENERGY CENTER	CONSTRU CTION	17	562.19	2953.	04 24 6	51 Facility	1	STEAM ELECTRIC PLANT	3 250 MW Combined Cycle Combustion Turbine System - Unit 1C	ACTIVE	149	,	,	188 13119	889	57.5 NOX	30.2		82.4		Limit on oil; NOx mass emission rates are defined as oxides of nitrogen expressed as NO2.		
		FP&L / WEST COUNTY ENERGY CENTER	CONSTRU	17	562.19			51 Facility		STEAM ELECTRIC PLANT		ACTIVE	149			188 13115		57.5 NOX	30.2				Limit on gas in CTG normal mode; NOx mass emission rates are defined as oxides of nitrogen expressed as NO2.		
	RIDA POWER AND LIGHT COMPANY		CONSTRU	- 1/							3 250 MW Combined Cycle Combustion Turbine System - Unit 1C		149		1						20				
	RIDA POWER AND LIGHT COMPANY	FP&L / WEST COUNTY ENERGY CENTER	CONSTRU	- 17	562.19	2953.		51 Facility		STEAM ELECTRIC PLANT	3 250 MW Combined Cycle Combustion Turbine System - Unit 1C	ACTIVE	149	2	2	188 13119	$\top$	57.5 NOX	30.2				Limit on oil.		
990646 FLOR	RIDA POWER AND LIGHT COMPANY	FP&L / WEST COUNTY ENERGY CENTER	CTION	17	562.19	2953.	04 24.6	51 Facility	1	STEAM ELECTRIC PLANT	3 250 MW Combined Cycle Combustion Turbine System - Unit 1C	ACTIVE	149	2:	2 :	188 13115	89	57.5 NOX	30.2				Limit on gas.		$\overline{}$
990646 FLOR	RIDA POWER AND LIGHT COMPANY	FP&L / WEST COUNTY ENERGY CENTER	CONSTRU CTION	17	562.19	2953.	04 24.6	51 Facility		STEAM ELECTRIC PLANT	3 250 MW Combined Cycle Combustion Turbine System - Unit 1C	ACTIVE	149	2	2	188 13115	89	57.5 NOX	30.2		24.2		Limit on gas in CTG & DB operation mode; NOx mass emission rates are defined as oxides of nitrogen expressed as NO2.		
990646 5100	RIDA POWER AND LIGHT COMPANY	FP&L / WEST COUNTY ENERGY CENTER	CONSTRU CTION	17		2953.		51 Facility		STEAM ELECTRIC PLANT	4 250 MW Combined Cycle Combustion Turbine System - Unit 2A	ACTIVE	149	,		188 1311		57.5 NOX	30.2		30		Limit on gas in CTG normal mode; NOx mass emission rates are		
990040 1201	NOON POWER AND EIGHT CONFART	TPALT WEST COUNTY ENERGY CENTER		- 1/	302.15	2533.	24,6	or racinty	1 1	STEAM ELECTRIC FEAR	4 250 MW Combined Cycle Composition Furbine System - Onic 24	ACTIVE	145	<del>                                     </del>	-	100 1311	100	37.3140	30.2		20		defined as oxides of nitrogen expressed as NO2.		
990646 FLOR	RIDA POWER AND LIGHT COMPANY	FP&L / WEST COUNTY ENERGY CENTER	CONSTRU CTION	17	562.19	2953.	04 24.6	Facility	1	STEAM ELECTRIC PLANT	4 250 MW Combined Cycle Combustion Turbine System - Unit 2A	ACTIVE	149	22	2 :	188 13115	89	57.5 NOX	30.2		24.2		Limit on gas in CTG & DB operation mode; NOx mass emission rates are defined as oxides of nitrogen expresssed as NO2.		
990646 FLOR	RIDA POWER AND LIGHT COMPANY	FP&L / WEST COUNTY ENERGY CENTER	CONSTRU	17	562.19	2953.	04 24.6	1 Facility	1	STEAM ELECTRIC PLANT	4 250 MW Combined Cycle Combustion Turbine System - Unit 2A	ACTIVE	149	27	2 :	188 13115	89	57.5 NOX	30.2				Limit on gas		
990646 FLOR	RIDA POWER AND LIGHT COMPANY	FP&L / WEST COUNTY ENERGY CENTER	CONSTRU	17	562.19	2953.	04 24.6	1 Facility	1	STEAM ELECTRIC PLANT	4 250 MW Combined Cycle Combustion Turbine System - Unit 2A	ACTIVE	149	22	2 :	188 13115	89	57.5 NOX	30.2				Limit on oil		
990646 FLOR	RIDA POWER AND LIGHT COMPANY	FP&L / WEST COUNTY ENERGY CENTER	CONSTRU	17	562,19	2953.	04 24.6	1 Facility	1	STEAM ELECTRIC PLANT	4 250 MW Combined Cycle Combustion Turbine System - Unit 2A	ACTIVE	149	27	2	188 13115	89	57.5 NOX	30.2		82.4		Limit on oil; NOx mass emission rates are defined as oxides of nitrogen expressed as NO2.		
	RIDA POWER AND LIGHT COMPANY	FP&L / WEST COUNTY ENERGY CENTER	CONSTRU	17	562.19	2953,		il Facility		STEAM ELECTRIC PLANT	5 250 MW Combined Cycle Combustion Turbine System - Unit 28	ACTIVE	149	,,	,	188 13115		57.5 NOX	30.2		82.4		Limit on oil; NOx mass emission rates are defined as oxides of nitrogen expressed as NOZ.		
	RIDA POWER AND LIGHT COMPANY	FP&L / WEST COUNTY ENERGY CENTER	CONSTRU	1,7	562.19			il Facility	$\top$	STEAM ELECTRIC PLANT	5 250 MW Combined Cycle Combustion Turbine System - Unit 28	ACTIVE	149		,	188 13115		57.5 NOX	30.2		20.4		Limit on gas in CTG normal mode; NOx mass emission rates are defined as oxides of nitrogen expressed as NO2.		
390045 FLOK	NIDA POWER AND LIGHT CONFART	PPAC WEST COUNTY ENERGY CENTER		- 1/	302.13	2953.	24.0	racility	<del>  - 1</del>	STEAM ELECTRIC PLANT	5 230 MW Combined Cycle Compuscion Turbine System - Onit 26	ACTIVE	149		1	188 13113	859	37.3 NOX	30.2		20				
990646 FLOR	RIDA POWER AND LIGHT COMPANY	FP&L / WEST COUNTY ENERGY CENTER	CONSTRU CTION	17	562.19	2953.	04 24.6	1 Facility	1	STEAM ELECTRIC PLANT	5 250 MW Combined Cycle Combustion Turbine System - Unit 2B	ACTIVE	149	22	2 :	188 13115	89	57.5 NOX	30.2		24.2		Limit on gas in CTG & DB operation mode; NOx mass emission rates are defined as oxides of nitrogen expressed as NO2.		
990646 FLOR	RIDA POWER AND LIGHT COMPANY	FP&L / WEST COUNTY ENERGY CENTER	CONSTRU CTION	17	562.19	2953.6	04 24.6	1 Facility	1	STEAM ELECTRIC PLANT	5 250 MW Combined Cycle Combustion Turbine System - Unit 2B	ACTIVE	149	22	2 :	188 13115	89	57.5 NOX	30.2				Limit on gas.		
990646 FLOR	RIDA POWER AND LIGHT COMPANY	FP&L / WEST COUNTY ENERGY CENTER	CONSTRU	17	562.19	2953.6	24.6	1 Facility	1	STEAM ELECTRIC PLANT	5 250 MW Combined Cycle Combustion Turbine System - Unit 2B	ACTIVE	149	2:	2	188 13115	89	57.5 NOX	30.2				Limit on all.		
	RIDA POWER AND LIGHT COMPANY	FP&L / WEST COUNTY ENERGY CENTER	CONSTRU	17	562.19		1	1 Facility	1 1	STEAM ELECTRIC PLANT	6 250 MW Combined Cycle Combustion Turbine System - Unit 2C	ACTIVE	149	,:	2	13119	$\top$	57.5 NOX	30.2				Limit on gas.		
2,00			CONSTRU								The system of the second	1	1	<u> </u>	T		$\top$		1				Limit on gas in CTG & DB operation mode; NOx mass emission		
990646 FLOR	RIDA POWER AND LIGHT COMPANY	FP&L / WEST COUNTY ENERGY CENTER	CTION	17	562.19	2953.	24.6	1 Facility .	. 1	STEAM ELECTRIC PLANT	6 250 MW Combined Cycle Combustion Turbine System - Unit 2C	ACTIVE	149	27	2	13115	89	57.5 NOX	30.2		24.2		rates are defined as oxides of nitrogen expressed as NO2.		
990646 FLOR	RIDA POWER AND LIGHT COMPANY	FP&L / WEST COUNTY ENERGY CENTER	CONSTRU	17	562.19	2953.6	04 24.6	1 Facility	1	STEAM ELECTRIC PLANT	6 250 MW Combined Cycle Combustion Turbine System - Unit 2C	ACTIVE	149	27	2	13115	89	57.5 NOX	30.2		20		Limit on gas in CTG normal mode; NOx mass emission rates are defined as oxides of nitrogen expressed as NO2.		
990646 FLOR	RIDA POWER AND LIGHT COMPANY	FP&L / WEST COUNTY ENERGY CENTER	CONSTRU CTION	17	562.19	2953.0	04 24.6	1 Facility	1	STEAM ELECTRIC PLANT	6 250 MW Combined Cycle Combustion Turbine System - Unit 2C	ACTIVE	149	2:	2	13115	89	57.5 NOX	30.2				Limit on oil.		
990646 FLOR	RIDA POWER AND LIGHT COMPANY	FP&L / WEST COUNTY ENERGY CENTER	CONSTRU	17	562.19	2953.0	04 24.6	1 Facility	1	STEAM ELECTRIC PLANT	6 250 MW Combined Cycle Combustion Turbine System - Unit 2C	ACTIVE	149	2:	2	13119	89	57.5 NOX	30,2		82.4		Limit on oil; NOx mass emission rates are defined as oxides of nitrogen expressed as NO2.		
	RIDA POWER AND LIGHT COMPANY	FP&L / WEST COUNTY ENERGY CENTER	CONSTRU	17	562.19			1 Facility		STEAM ELECTRIC PLANT	9 One nominal 85,000 lb/hr (99.8 MMBtu/hour) auxiliary boiler	CONSTRU		2.75		296 293			4.99	2 75	0.00		Initial testing. Compliance with 40 CFR Subpart Dc and 40 CFR63 Subpart DODDD.		
330040 FLUK	WAS - SHEEK OND DIGHT COMPANY	I COUNTY ENERGY CENTER	CHON	1/	302.19	2333.0	~-  Z4.6	Th. gruntA	1 1	STEAM ELECTRIC FORM	אוינטו סטע,כס וווווווווווווווווווווווווווווווווווו	CHON	1 90	2./:	٠ ١٠	290 293	23 10/5	02.3 NUX	4.99	5./3	9.98	I	Juopen 50000.		

#### TABLE A-1 INITIAL FDEP NO₂ INVENTORY

			_																				
							Distance																, ,
						MTU	from	Facility				Stack											, ,
				UTM			Center Location	Type				Height		Exit					Allowable			Actual	
Facility ID	Owner / Company Name	Site Name	Status	Zone	(km)	(km)	(km) Based On	Code Description	EU ID	EU Description	EU Status	(ft)	(ft) Te	mp (F)	ACFM DSCFN	NEL(ft/s) Pollutant	t lb/hr)	tpy)	(lb/hr)	(tpy)	Comments	(tpy)	Year
			CONSTRU						L		CONSTRU						1				l		, ,
990646 FLORIL	DA POWER AND LIGHT COMPANY	FP&L / WEST COUNTY ENERGY CENTER	CTION	17	562.19	2953.04	24.61 Facility	1 STEAM ELECTRIC PLANT	10 Two nominal 10 MW MM	BTU/hr gas fired process heaters	CTION	30	1	500	4950	105 NOX	0.95	4.:	2		Initial test. Compliance with 40 CFR 60 Subpart Dc	+	
			CONSTRU				· Emission		1 1		CONCTON										Ularit and the STG R OR according and the NO.		, !
000646 51 0010	DA POWER AND LIGHT COMPANY	FP&L / WEST COUNTY ENERGY CENTER	CTION	1,7	562.2	2952.6		1 STEAM ELECTRIC PLANT	13 350 404 575		CONSTRU		22	195	1360000	59.6 NOX	78.5	108.5	9 24.	,	Limit on gas in CTG & DB operation mode; NOx mass emission rates are defined as oxides of nitrogen expressed as NO2.		, !
330048 FLORIE	DA FOWER AND EIGHT COMPANY	FFRE / WEST CODINTY EIVERGT CENTER	CONSTRU	1 1	302.2	2932.0	Emission	I STEAM ELECTRIC PLANT	13 250 MW CTG with supple	mentary fired fixed - Unit 3A	CONSTRU		- 22	193	1360000	39.0 NUX	/8.3	108.	9 24.	4	Limit on oil; NOx mass emission rates are defined as oxides of	+	
990646 51 0817	DA POWER AND LIGHT COMPANY	FP&L / WEST COUNTY ENERGY CENTER	CTION	1.7	562.2	2952.6		1 STEAM ELECTRIC PLANT	13 250 MW CTG with supple	mentany fisad LIPSC Linit 24	CTION		22	105	1360000	59.6 NOX	78.5	108.	82.	۸ ا	nitrogen expressed as NO2.		, !
3300-101-101-11	DATE OF THE COMPANY	Tracy Was Cooking Exercise	CONSTRU	17	302.2	2552.0	Emission	1 STEAM ELECTRIC PLANT	13 230 WW CTG With Supple	mentary filed HK3G - Offit SA	CONSTRU			-193	1300000	33.0 NOX	78.3	108.	9 84.	7	Limit on gas in CTG normal mode; NOx mass emission rates are	+	.—
990646 51 0810	DA POWER AND LIGHT COMPANY	FP&L / WEST COUNTY ENERGY CENTER	CTION	1.7	562.2	2952.6		1 STEAM ELECTRIC PLANT	13 250 MW CTG with suppler	mantage fired MRSG . Unit 3A	CTION		22	195	1360000	59.6 NOX	795	108.	,	_	defined as oxides of nitrogen expressed as NO2.		, !
3300 10 110111		Trucy West Court English Centres	CONSTRU		302.2	2332.0	Emission	I STEAM CELETINE POACE	13 230 WW CIG With Supple	mentary fried HK3G - Offit SK	CONSTRU			195	1300000	33.0 1102	70.5	100.	<u> </u>	-	Germed as divides of maragen expressed as MO2.	+	
990646 FLORIG	DA POWER AND LIGHT COMPANY	FP&L / WEST COUNTY ENERGY CENTER	CTION	17	562.2	2952.6		1 STEAM ELECTRIC PLANT	13 250 MW CTG with suppler	mentary fired HRSG - Unit 3A	CTION		22	195	1360000	59.6 NOX	78.5	108.9	ا		Limit on gas		, ,
			CONSTRU	<del>  -</del>			Emission		то под под под под под под под под под по	memory meanings one sa	CONSTRU					93.5 11.5%	+	100	<del>-</del>		Limit on Box	+ +	
990646 FLORIG	DA POWER AND LIGHT COMPANY	FP&L / WEST COUNTY ENERGY CENTER	CTION	17	562.2	2952.6		1 STEAM ELECTRIC PLANT	13 250 MW CTG with suppler	mentary fired HRSG - Unit 3A	CTION		22	195	1360000	59.6 NOX	78.5	108.	9		Limit on oil		, !
				1 1-												1	1						
			CONSTRU				Emission				CONSTRU						1				Limit on gas in CTG & DB operation mode; NOx mass emission		, !
990646 FLORIO	DA POWER AND LIGHT COMPANY	FP&L / WEST COUNTY ENERGY CENTER	CTION	17	562.2	2952.6	24.74 Point	1 STEAM ELECTRIC PLANT	14 250 MW CTG with suppler	mentary fired HRSG - Unit 3B	CTION	149	22	195	1360000	59.6 NOX	76.85	108.	9 24.	2	rates are defined as oxides of nitrogen expressed as NO2.		, !
	-		CONSTRU				Emission		<u> </u>	•	CONSTRU						T				Limit on oil; NOx mass emission rates are defined as oxides of	T	
990646 FLORID	DA POWER AND LIGHT COMPANY	FP&L / WEST COUNTY ENERGY CENTER	CTION	17	562.2	2952.6	24.74 Point	1 STEAM ELECTRIC PLANT	14 250 MW CTG with suppler	mentary fired HRSG - Unit 3B	CTION	149	22	195	1360000	59.6 NOX	76.85	108.9	9 82.	4	nitrogen expressed as NO2.	1 1	, !
			CONSTRU				Emission				CONSTRU			1							Limit on gas in CTG normal mode; NOx mass emission rates are	1	
990646 FLORIC	DA POWER AND LIGHT COMPANY	FP&L / WEST COUNTY ENERGY CENTER	CTION	17	562.2	2952.6	24.74 Point	1 STEAM ELECTRIC PLANT	14 250 MW CTG with suppler	mentary fired HRSG - Unit 3B	CTION	149	22	195	1360000	59.6 NOX	76.85	108.9	9 2	o	defined as oxides of nitrogen expressed as NO2.		, ,
			CONSTRU				Emission				CONSTRU												, —
990646 FLORIC	DA POWER AND LIGHT COMPANY	FP&L / WEST COUNTY ENERGY CENTER	CTION	17	562.2	2952.6	24.74 Point	1 STEAM ELECTRIC PLANT	14 250 MW CTG with suppler	mentary fired HRSG - Unit 3B	CTION	149	22	195	1360000	59.6 NOX	76.85	108.	9		Limit on gas.		
			CONSTRU				Emission				CONSTRU										•		, !
990646 FLORIS	DA POWER AND LIGHT COMPANY	FP&L / WEST COUNTY ENERGY CENTER	CTION	17	562.2	2952.6	24.74 Point	1 STEAM ELECTRIC PLANT	14 250 MW CTG with suppler	mentary fired HRSG - Unit 3B	CTION	149	22	195	1360000	59.6 NOX	76.85	108.	9		Limit on oil.	$\bot$	
																						1 1	, !
			CONSTRU				Emission				CONSTRU										Limit on gas in CTG & DB operation mode; NOx mass emission	1 1	,
990646 FLORIC	DA POWER AND LIGHT COMPANY	FP&L / WEST COUNTY ENERGY CENTER	CTION	17	562.2	2952.6		1 STEAM ELECTRIC PLANT	15 250 MW CTG with suppler	mentary fired HRSG - Unit 3C	CTION		22	195	1360000	59.6 NOX	78.5	108.	9 24.	.2	rates are defined as oxides of nitrogen expressed as NO2.	4	
			CONSTRU				Emission		11		CONSTRU						1				L	1 1	,
990646 FLORIL	DA POWER AND LIGHT COMPANY	FP&L / WEST COUNTY ENERGY CENTER	CTION	17	562.2	2952.6		1 STEAM ELECTRIC PLANT	15 250 MW CTG with suppler	mentary fired HRSG - Unit 3C	CTION		22	195	1360000	59.6 NOX	78.5	108.	9		Limit on oil.		
200545 51 0015	OA DOMER AND LIGHT COMPANY	EDBA AMEST COMMINACHED V CENTER	CONSTRU		652.2	2052.5	Emission				CONSTRU										Limit on oil; NOx mass emission rates are defined as oxides of		,
99UB46 FLORIL	DA POWER AND LIGHT COMPANY	FP&L / WEST COUNTY ENERGY CENTER	CONSTRU	1/	562.2	2952.6		1 STEAM ELECTRIC PLANT	15 250 MW CTG with suppler	mentary fired HRSG - Unit 3C	CTION		- 22	195	1360000	59.6 NOX	78.5	108.	82.	4	nitrogen expressed as NO2.	+	
990646 61 0 91	DA POWER AND LIGHT COMPANY	FP&L / WEST COUNTY ENERGY CENTER	CTION	.,	562.2	2952.6	Emission 24.74 Point	1 STEAM ELECTRIC PLANT	15 350 404 676		CTION		22	105	1360000	59.6 NOX	78.5	108.			limit an an		,
330040 FLORIE	DA FOWER AND EIGHT CONFERN	FFALT WEST COUNTY ENERGY CENTER	CONSTRU	1/	304.4	2932.0	Emission	1 STEAM ELECTRIC PLANT	15 250 MW CTG with suppler	mentary fired HKSG - Unit 3C	CONSTRU		- 22	193	1360000	39.6 NUA	/8.3	100.			Limit on gas.	+	
990646 FLORIT	DA POWER AND LIGHT COMPANY	FP&L / WEST COUNTY ENERGY CENTER	CTION	17	562.2	2952.6		1 STEAM ELECTRIC PLANT	15 250 MW CTG with suppler	montage fired MRSG. Unit 3C	CTION		22	105	1360000	59.6 NOX	78.5	108.5			Limit on gas in CTG normal mode; NOx mass emission rates are defined as oxides of nitrogen expressed as NO2.		, !
330040 120111	DA FOWER AND ENGIN COMPART	TPACY WEST COOK IT ENERGY CENTER	CONSTRU		302.2	2552.0	Emission	1 STEAM ELECTRIC PLANT	13 230 MW CTG With Supplet	mentary fired HKSG - Onit 3C	CONSTRU			193	1300000	39.6 NOA	/8.3	100.	-	.0	defined as oxides of nitrogen expressed as NO2.	++	
990646 FLORID	DA POWER AND LIGHT COMPANY	FP&L / WEST COUNTY ENERGY CENTER	CTION	17	562	2952		1 STEAM ELECTRIC PLANT	18 Two nominal 2250 KW (~2	1 MMBtu/hr) emergency generators	CTION	30	1	916	17463	370.6 NOX	0.95	4.	,				, 1
		,	1	<del> :' </del>	302	2,522	Emission	A STATE OF THE POINT	25 1 1 5 1 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1	z minoco, m, cinci genera generatora	-   -			- 210		5.5.5 1102	1 0.55	1	+ -	+		+-+	
990678 EDGLE	EY CREMATORY, INC.	EDGLEY CRMATORY, INC. / IRIVIERA BEACH)	ACTIVE	17	591.37	2953.58	10.19 Point	43 HUMAN CREMATORY	1 IE Model IE-43-PPII Unit 1	SN404339 - South Stack	ACTIVE	18	1.67	1099	2538 75	9 19.3 NOX	0.118	0.51	,				, ,
	DA POWER & LIGHT(PSL)	FPL / ST LUCIE NUCLEAR POWER PLANT	ACTIVE	17	573.86		64.58 Facility	2 OTHER ELECTRIC PRODUCTION		CY DIESEL GENERATORS, each with 2 engine	ACTIVE	12		790	15800	120.2 NOX	1	1	1	1		17,6957	2009
							Emission			,		7							1				$\neg \neg$
1110071 FLORID	DA POWER & LIGHT(PSL)	FPL / ST LUCIE NUCLEAR POWER PLANT	ACTIVE	17	574.794	3024.868	64.29 Point	2 OTHER ELECTRIC PRODUCTION	2 2 BUILDING EMERGENCY I	DIESEL GENERATORS	ACTIVE	15	0.9	1050	7000	183.4 NOX						0.106457	2009
1110071 FLORIE	DA POWER & LIGHT(PSL)	FPL / ST LUCIE NUCLEAR POWER PLANT	ACTIVE	17		3025.01	64.58 Facility	2 OTHER ELECTRIC PRODUCTION	3 MISCELLANEOUS DIESEL D	RIVEN EQUIPMENT	ACTIVE					NOX						13.7204	2009
1110130 ALL HE	EAVENLY CREATURES PET CEMETERY	ALL HEAVENLY CREATURES	ACTIVE	17	567.4	3022.73	63.78 Facility	42 ANIMAL CREMATORY	1 MATTHEWS MODEL IE PO	WER PACK II	ACTIVE	15	1.5	1000	2000 65	0 18.9 NOX				1			. — —

You entered the following criteria: Search By: point UTM: 17:2961.736km N 5B5.295km E Point represents center. Radius: 70 km Facility Status: A C EU Status: A C Pollutant: MOX, Pollutant Status: A Report Output: Full

Run Date: 06/29/2010 03:01:35

## TABLE A-2 20D NO<sub>2</sub> SOURCE INVENTORY SCREENING

		_		UTM Cod	ordinates	R	elative to P	BREF2	est. SIA =	2.7 km		
AIRS				East	North	X	Y	Distance	Within	Max NOx	Short-term	
Number	Fac. Code	Facility	County	(km)	(km)	(km)	(km)	(km)	SIA?	(TPY)	20D	> 20D ?
990344	FL52	PARKWAY ASPHALT / (RIVIERA BEACH)	Palm Beach	587.36	2962.14	-2.1	-0.4	2.10	Yes	19.1	42.1	No
990304	FL41	VETERANS AFFAIRS MEDICAL CENTER	Palm Beach	588.16	2962.93	-2.9	-1.2	3.10		48.6	62.1	No
990123	FL37	FP&L / PHYSICAL DISTRIBUTION CTR & OSF	Palm Beach	589.7	2961.2	-4.4	0.5	4.44		16.1	88.7	No
990188	FL39	PEGGY ADAMS ANIMAL RESCUE LEAGUE	Palm Beach	588.69	2956.16	-3.4	5.6	6.53		0.3	130.6	No
990630	FL65	SOUTH FLORIDA MATERIALS CORP.	Palm Beach	593.18	2960.83	-7.9	0.9	7.94		6.1	158.7	No
990042	FL30	FP&L / RIVIERA POWER PLANT	Palm Beach	594.249	2960.632	-9.0	1.1	9.02		16,565.3	180.4	Yes
990325	FL47	ROYAL PALM FUNERAL HOME	Palm Beach	593.38	2960.47	-8.1	1.3	8.18		0.7	163.7	No
990305	FL42	NORTHWOOD CREMATORY .	Palm Beach	593.94	2960.25	-8.6	1.5	8.77		1.0	175.4	No
990333	FL50	COMPRESSOR STATION NO. 21	Palm Beach	584.34	2952.83	1.0	8.9	8.96		78.1	179.1	No
990046	FL32	CEMEX CONSTRUCTION / (RIVIERA BEACH)	Palm Beach	594.3	2960.8	-9.0	0.9	9.05		98.7	181.1	No
990300	FL40	BELVEDERE ANIMAL CARE & CONTROL FACILITY	Palm Beach	582.77	2952.24	2.5	9.5	9.83		0.1	196.5	No
990678	FL67	EDGLEY CRMATORY, INC. / (RIVIERA BEACH)	Palm Beach	591.37	2953.58	-6.1	8.2	10.17		0.5	203.4	No
990343	FL51	PALMS WEST CREMATORY / (RPB)	Palm Beach	579.39	2953.36	5.9	8.4	10.25		0.0	205.0	No
990310	FL43	COMMUNITY ASPHALT / WPB PLANT	Palm Beach	582.3	2950.9	3.0	10.8	11.24		34.0	224.8	No
990087	FL33	RANGER CONSTRUCTION / (ROYAL PALM BEACH)	Palm Beach	579.9	2951.7	5.4	10.0	11.39		24.8	227.9	No
990322	FL46	TREASURE COAST CREMATORY / (LAKE WORTH)	Palm Beach	593.83	2945.15	-8.5	16.6	18.65		2.0	373.1	No
990318	FL45	ALL COUNTY FUNERAL HOME AND CREMATORY	Palm Beach	593.57	2944.22	-8.3	17.5	19.37		0.0	387.4	No
990045	FL31	L.W. UTILITIES / TOM G. SMITH PWR PLANT	Palm Beach	592.8	2943.7	-7.5	18.0	19.54		5,863.6	390.7	Yes
990566	FL61	INDIAN TRAIL IMPROVEMENT DISTRICT - ACI	Palm Beach	565.73	2956.39	19.6	5.3	20.28		22.1	405.6	No
990562	FL60	SOUTH FLORIDA SHAVINGS CO.	Palm Beach	578.79	2941.48	6.5	20.3	21.27		2.2	425.5	No
990620	FL63	SFWMD / PUMP STATION S-319	Palm Beach	566.3	2951.22	19.0	10.5	21.71		738.9	434.2	Yes
990021	FL28	UNITED TECHNOLOGIES / PRATT WHITNEY ACFT	Palm Beach	568.41	2975.84	16.9	-14.1	22.00		1,256.4	440.0	Yes
990185	FL38	SIKORSKY AIRCRAFT CORP. / (JUPITER)	Palm Beach	567.5	2975	17.8	-13.3	22.19		2.5	443.9	No
990530	FL57	HUBBARD / EAST COAST PAVING (WPB)	Palm Beach	562.79	2951.97	22.5	9.8	24.53		29.4	490.7	No
990621	FL64	SFWMD / PUMP STATION S-362	Palm Beach	567.21	2944.98	18.1	16.8	24.65		489.4	493.1	No
990646	FL66	FP&L / WEST COUNTY ENERGY CENTER	Palm Beach	562.19	2953.04	23.1	8.7	24.69		997.0	493.7	Yes
990349	FL54	SFWMD / PUMP STATION S-5A	Palm Beach	562.6	2951.3	22.7	10.4	24.98		249.4	499.6	No
990316	FL44	SCOBEE-COMBS-BOWDEN FUNERAL HOME	Palm Beach	593.85	2936.06	-8.6	25.7	27.06		0.2	541.3	No
990095	FL34	BETHESDA MEMORIAL HOSPITAL	Palm Beach	592.56	2931.94	-7.3	29.8	30.67		34.2	613.4	No
990347	FL53	PBC SOUTHERN REGION WATER RECLAMATION	Palm Beach	581.85	2929.65	3.4	32.1	32.27		5.1	645.4	No
990350	FL55	SFWMD / PUMP STATION S-6	Palm Beach	596.17	2927.82	-10.9	33.9	35.62		247.3	712.3	No
990016	FL26	ATLANTIC SUGAR MILL	Palm Beach	552.98	2945.42	32.3	16.3	36.20		1,108.4	724.0	Yes
990549	FL58	SFWMD / PUMP STATION G-310	Palm Beach	554.2	2940.45	31.1	21.3	37.68		248.9	753.7	No
990328	FL48	HARDRIVES / DELRAY PLANT	Palm Beach	590.6	2923.5	-5.3	38.2	38.60		2.5	772.0	No
990019	FL27	OSCEOLA FARMS	Palm Beach	544.71	2967.55	40.6	-5.8	41.00		987.0	820.0	Yes
850017	FL17	TURBO COMBUSTOR TECHNOLOGY	Palm Beach	577.38	3004.62	7.9	-42.9	43.61		0.0	872.2	No
990114	FL35	TRI COUNTY HUMANE SOCIETY ANIMAL SHELTER	Palm Beach	582.5	2915.7	2.8	46.0	46.12		0.0	922.4	No
990119	FL36	BOCA RATON COMMUNITY HOSPITAL	Palm Beach	589.51	2915.67	-4.2	46.1	46.26		12.3	925.2	No
850137	FL21	MARTIN CREMATORY FC280	Palm Beach	573.33	3007.47	12.0	-45.7	47.27		0.0	945.5	No
850102	FL18	INDIANTOWN COGENERATION PLANT	Palm Beach	547.65	2990.7	37.6	-29.0	47.50		2,584.0	950.0	Yes
850002	FL15	LOUIS DREYFUS CITRUS / INDIANTOWN PLANT	Palm Beach	547.98	2991.47	37.3	-29.7	47.71		25.1	954.3	Nο
850015	FL16	TRI COUNTY CREMATORY-AYCOCK FUNERAL HOME	Palm Beach	573.5	3008.4	11.8	-46.7	48.13		0.7	962.6	No
990015	FL25	BOCA RATON RESORT AND CLUB	Palm Beach	592.03	2913.73	-6.7	48.0	48.48		12.4	969.5	No

TABLE A-2
20D NO<sub>2</sub> SOURCE INVENTORY SCREENING

	\ _			UTM Cod	ordinates	Re	lative to Pl	BREF2	est. SIA = 2	2.7 km		
AIRS				East	North	Х	Ÿ	Distance	Within	Max NOx	Short-term	
Number	Fac. Code	Facility	County	(km)	(km)	(km)	(km)	(km)	SIA?	(TPY)	20D	> 20D ?
850108	FL19	RALPH EVINRUDE TEST CENTER	Palm Beach	572.48	3009.37	12.8	-47.6	49.33		0.0	986.6	No
850120	FL20	MARTIN CO/PALM CITY II SANITARY LANDFILL	Palm Beach	561.11	3006.63	24.2	-44.9	50.99		17.9	1019.9	No
990026	FL29	SUGAR CANE GROWERS CO-OP	Palm Beach	534.87	2953.86	50.4	7.9	51.04		3,470.7	1020.7	Yes
990550	FL59	SFWMD / PUMP STATION G-335	Palm Beach	552.6	2921.99	32.7	39.7	51.47		60.7	1029.3	No
850141	FL22	MARTIN NATURAL GAS METER STATION 701	Palm Beach	543.83	2993.14	41.5	-31.4	52.01		9.4 -	1040.3	No
850147	FL23	FLORIDIAN NATURAL GAS STORAGE CO., INC.	Palm Beach	545.93	2996.33	39.4	-34.6	52.41		23.9	1048.1	No
850001	FL14	MARTIN POWER PLANT	Palm Beach	543.08	2992.61	42.2	-30.9	52.30		35,949.0	1046.0	Yes
110045	FL4	HARDRIVES / DEERFIELD PLANT	Palm Beach	583.84	2909.11	1.5	52.6	52.65		10.8	1052.9	No
112369	FL12	WILEN PRESS LC	Palm Beach	584.12	2908.83	1.2	52.9	52.92		0.0	1058.4	No
110005	FL2	PAVEX DEERFIELD PLANT	Palm Beach	584.25	2908.02	1.0	53.7	53.73		4.7	1074.5	No
112094	FL6	CENTRAL DISPOSAL	Palm Beach	583.2	2908	2.1	53.7	53.78		74.8	1075.5	No
112120	FL7	WHEELABRATOR NORTH BROWARD	Palm Beach	583.9	2907.6	1.4	54.1	54.15		1,399.2	1083.1	Yes
112702	FL13	NEPTUNE SOCIETY POMPANO BEACH	Palm Beach	584.77	2906.97	0.5	54.8	54.77		1.3	1095.4	No
112357	FL11	BROWARD COUNTY/NORTH REGIONAL WWTF	Palm Beach	583.49	2905.01	1.8	56.7	56.75		88.4	1135.1	No
110038	FL3	BONSAL AMERICAN	Palm Beach	586.2	2904.6	-0.9	57.1	57.14		22.1	1142.9	No
110003	FL1	W R GRACE & CO	Palm Beach	585.69	2902.83	-0.4	58.9	58.91		1.3	1178.1	No
990614	FL62	SFWMD / PUMP STATION G-370	Palm Beach	540.47	2919.49	44.8	42.2	61.60		581.3	1231.9	No
112183	FL10	STIMPSON COMPANY, INC.	Palm Beach	585.5	2899.5	-0.2	62.2	62.24		0.4	1244.7	No
990354	FL56	SFWMD / PUMP STATION S-7	Palm Beach	545.77	2912.76	39.5	49.0	62.94	-	235.5	1258.7	No
1110130	FL69	ALL HEAVENLY CREATURES	Palm Beach	567.4	3022.73	17.9	-61.0	63.56		0.0	1271.3	No
112152	FL9	GOLD COAST CREMATORY	Palm Beach	584.58	2897.79	0.6	63.9	63.95		10.2	1279.0	No
112146	FL8	ATLANTIC BURIAL CASKET CO. DBA ABCO	Palm Beach	584.56	2897.78	0.7	64.0	63.96		0.8	1279.2	No
990005	FL24	OKEELANTA SUGAR REFINERY	Palm Beach	524.9	2940.1	60.4	21.6	64.15		361.7	1283.1	No
990332	FL49	OKEELANTA COGENERATION PLANT	Palm Beach	524.9	2940.1	60.4	21.6	64.15		1,497.9	1283.1	Yes
1110071	FL68	FPL / ST LUCIE NUCLEAR POWER PLANT	Palm Beach	573.86	3025.01	11.4	-63.3	64.30		31.5	1286.0	No
111019	FL5	HOLY CROSS HOSPITAL	Palm Beach	587.09	2896.52	-1.8	65.2	65.24		8.8	1304.8	No

Note: Facilities in shaded cells are outside SIA + 50 km

### TABLE A-3 FINAL NO₂ NAAQS SOURCE INVENTORY

		1		1									
Facility ID	Owner / Company Name	Site Name	SRC ID	UTM East (km)	UTM North (km)	Base Evel	EU ID	EU Description	Stack Height (m)	Diam (m)	Exit Temp (K)	Exit Vel (m/s)	Allowable (g/s)
racinty is	Canery company mante	SOLID WASTE AUTHORITY OF	Site is	(801)	recreating (Killy)	(111)	EQ ID	Municipal Solid Waste Boiler #1 & #2; based on 150 ppm;	(111)	(1117	(1/1)	(111/3/	(6/3)
990234	SOLID WASTE AUTHORITY OF PBC	PBC/NCRRF .	SWAREFRB	585320	2961238	5.18	۱ ,	using effective diameter and merged flow	76.20	3.49	427.6	16.99	29.91
330234	OCED WASTERNOTHING OF THE	SOLID WASTE AUTHORITY OF	SWARETER	303320	2301230	3.10	-	using effective diameter and merged now	70.20	3.43	427.0	10.55	25.51
990234	SOLID WASTE AUTHORITY OF PBC	PBC/NCRRF	SWAFLR3	586002	2962673	5.18	۱ ,	Class III Landfill with Flare (1800 scfm)	10.67	0.41	1033.2	46.57	0.54
330234	SOLID WASTERSTHOMIT OF THE	SOLID WASTE AUTHORITY OF	34771 2113	300002	2302073	3.10	_	Class III Calidilli With Flare (1800 SCIIII)	10.07	0.41	1033.2	40.57	0.54
990234	SOLID WASTE AUTHORITY OF PBC	PBC/NCRRF	SWAFLR1	585800	2960200	5.18	١.	   Class I Landfill Flare (3500 scfm)	12.80	0.30	1033.2	15.73	1.05
990234	SOLID WASTE AUTHORITY OF FBC	SOLID WASTE AUTHORITY OF	SVAFLINI	363600	2300200	3.10	⊢ °	Class I Lanumi Flare (5500 SCIII)	12.80	0.30	1033.2	15.75	1.03
000324	SOLID WASTE AUTHORITY OF PBC	PBC/NCRRF	5WABPF1	585652	2959900	4.88	1.0	Skyden Deser Turke #1 8 #2	41.76	0.58	370.4	19.93	1.42
990234	SOLID WASTE AUTHORITY OF PBC	SOLID WASTE AUTHORITY OF	JWABFFI	363632	2939300	4.00	10	Sludge Dryer Train #1 & #2	41.76	0.56	3/0.4	19.93	1.42
000324	SOLID WASTE AUTHORITY OF PBC	PBC/NCRRF	SWAWWDE	ERENCE 2	2961601.9	4.88	1 17	Wand, Water Fraility Dinnal Frains	4.27	0.25	754.3	56.75	1.90
990234	SOLID WASTE AUTHORITY OF PBC	PBC/NCRRF	SWAWWDE	363360.2	2901001.9	4.08	1/	Woody Waste Facility Diesel Engine	4.27	0.25	/54.5	56.75	1.90
	<u> </u>	PARKWAY ASPHALT / (RIVIERA						1 200 0001/ No. 2 50. 4 20 H /h- /h d 0750 h) if					
000344	PARKWAY ASPHALT, INC.	1 ' '	PKASP01	587360	2007140	4 27	١.	1,200,000 gal/yr No. 2 FO; 4.28 lb/hr (based on 8760 hrs); if	12.00	1 25	2042	16.50	
990344	PARKWAT ASPHALI, INC.	BEACH)	PKASPUI	38/360	2962140	4.27	-	45 hrs/wk then 16.03 lb/hr (18.75 tpy)	12.80	1.25	394.3	16.58	2.02
200244	DARIONAN ACRUAIT INC	PARKWAY ASPHALT / (RIVIERA	DV 4 CD02	507250	2052440		١.	5 gal/hr No. 2 FO; Potential = 5 gal/hr * 24 lb/1000 gal =			422.0		
990344	PARKWAY ASPHALT, INC.	BEACH)	PKASP02	587360	2962140	4.27	2	0.12 lb/hr	4.57	80.0	422.0	6.10	0.02
	SLODIDA DOMES SLUGUE (DELA)	500 / 600 //50 / 500 //50 51 / 107	5. 55.1/57	504040	2050500								ا. ـ ـ ـ ا
990042	FLORIDA POWER & LIGHT (PRV)	FP&L / RIVIERA POWER PLANT	FLPRIVCT	594249	2960632	3.05		CT Generators Unit 5 (Replaces Units 3 & 4)	45.42	6.71	453.7	22.42	30.24
											_		i
990042	FLORIDA POWER & LIGHT (PRV)	FP&L / RIVIERA POWER PLANT	FLPRIVFH	594249	2960632	3.05		Fuel Heater	9.14	0.30	533.2	16.15	0.12
							l						i
990042	FLORIDA POWER & LIGHT (PRV)	FP&L / RIVIERA POWER PLANT	FLPRIVGC	594249	2960632	3.05		Gas Compressors	12.19	0.30	729.8	49.50	3.91
		L.W. UTILITIES / TOM G. SMITH											i I
990045	CITY OF LAKE WORTH UTILITIES	PWR PLANT	LAKWTHDG	592800	2943700	4.57	1	2000 KW DIESEL GENERATOR # 1 - #5 PEAKING UNITS	5.18	0.56	625.9	37.09	62.87
		L.W. UTILITIES / TOM G. SMITH						GAS TURBINE # 1 (435 MMBtu/hr; 0.9 lb/MMBtu FO & 0.5					
990045	CITY OF LAKE WORTH UTILITIES	PWR PLANT	LAKWTHGT	592800	2943700	4.57	Ε	lb/MMBtu NG)	14.02	4.88	720.4	24.84	49.39
		L.W. UTILITIES / TOM G. 5MITH						FOSSIL FUEL STEAM GENERATOR #3 (Phase II, Acid Rain					
990045	CITY OF LAKE WORTH UTILITIES	PWR PLANT	LAKWTHU3	592800	2943700	4.57	9	Unit, 325 MMBtu/hr; 0.5 lb/MMBtu)	34.44	2.13	418.2	15.67	20.54
		L.W. UTILITIES / TOM G. SMITH						COMBINED CYCLE UNIT (GT-2/S-5) - 317.5 MMBtu/hr; 0.9					
990045	CITY OF LAKE WORTH UTILITIES	PWR PLANT	LAKWTHU5	592800	2943700	4.57	11	lb/MMBtu limit	22.86	3.05	479.8	26.67	36.04
	UNITED TECHNOLOGIES	UNITED TECHNOLOGIES / PRATT						Boiler (BO-12-E6) w/heat input of 42 mmBTUH in Test Area					
990021	CORPORATION	WHITNEY ACFT	UTECH16	561510	2975840	6.71	16	The state of the s	4.57	0.76	533.2	6.71	0.76
	UNITED TECHNOLOGIES	UNITED TECHNOLOGIES / PRATT						2 boilers (BO-1-MBH,BO-2-BMH); 54 MMBTU/Hr each, at					
990021	CORPORATION	WHITNEY ACFT	UTECH22	568410	2975840	6.71	22	ВН	20.12	2.32	672.0	10.06	1.83
	UNITED TECHNOLOGIES	UNITED TECHNOLOGIES / PRATT				_							
990021	CORPORATION	WHITNEY ACFT	UTECH40	568410	2975840	6.71	40	Two furnaces (FU-3-MHT, FU-4-MHT), 6 MMBTUH each	13.41	0.91	1366.5	0.07	0.15
	UNITED TECHNOLOGIES	UNITED TECHNOLOGIES / PRATT				-		, , , , , , , , , , , , , , , , , , , ,	T			i	
l .	CORPORATION	WHITNEY ACFT	UTECH45	568410	2975840	6.71	45	Water evaporator (EV-1-MW) w/heat input of 0.2 MMBTUH	3.69	0.21	298.7	2.59	0.001
	UNITED TECHNOLOGIES	UNITED TECHNOLOGIES / PRATT		1			<del>  ~</del>		1			1	
990021	CORPORATION	WHITNEY ACFT	UTECH59	568410	2975840	6.71	50	Miscellaneous air and fuel heaters fired with natural gas	6.10	0.49	533.2	4.91	0.91
	UNITED TECHNOLOGIES	UNITED TECHNOLOGIES / PRATT				3.71	<del></del>	The state of the s	1		353.2	1	
990021	CORPORATION	WHITNEY ACFT	UTECH65	568410	2975840	6.71	65	Miscellaneous diesel engines driving generators, pumps, etc.	6.10	0.49	533.2	7.62	6.83
1225	UNITED TECHNOLOGIES	UNITED TECHNOLOGIES / PRATT	• • •			5.71		Boiler (BO-14-E8) w/heat input of 7 MMBTUH, propane fired		5.,5	393.2	7.52	0.00
990021	CORPORATION	WHITNEY ACFT	UTECH66	561510	2975840	6.71	60	[ (in Area "E"]	7.62	0.40	335.9	33.16	0.14
230021	UNITED TECHNOLOGIES	UNITED TECHNOLOGIES / PRATT	J.20,00	301310	2575040	9.71	1 - 00	Almines E)	,.02	0.40	343.9	33.10	0.14
990021	CORPORATION	WHITNEY ACFT	UTECH68	568410	2975840	6.71	65	Genset (Emergency Only?)	3.70	0.20	922.0	151.40	6.72
330021	UNITED TECHNOLOGIES	UNITED TECHNOLOGIES / PRATT	0.150100	300410	2373040	0.71	1 30	denser (Entergency Only:)	3.70	0.20	322.0	131.40	0.72
990021	CORPORATION	WHITNEY ACFT	UTECH69	563195	2976027	6 71	۱ ,	Tan existing (at engine test stands located in Test Area A	5.49	3 60	422.0	0.08	23.40
990021	CORPORATION	TWUIINET ACEI	O I ECH69	563195	29/602/	6.71	69	Ten existing jet engine test stands located in Test Area A	5.49	3.69	422.0	U.08	23.

### TABLE A-3 FINAL NO₂ NAAQS SOURCE INVENTORY

				UTM East	UTM	Base Evel			Stack Height	Diam	Exit Temp	Exit Vel	Allowable
Facility ID		Site Name	SRC ID	(km)	North (km)	(m)	EU ID	EU Description	(m)	(m)	(K)	(m/s)	(g/s)
	UNITED TECHNOLOGIES	UNITED TECHNOLOGIES / PRATT											
990021	CORPORATION	WHITNEY ACFT	UTECHA10	568410	2975840	6.71	77	CT Test Stands	5.79	4.18	410.9	106.68	1.15
	UNITED TECHNOLOGIES	UNITED TECHNOLOGIES / PRATT											
990021	CORPORATION	WHITNEY ACFT	UTECH79	563259	2976003	7.01	79	Two JP8 fired Turbine Engines (GG4-9A)	7.92	1.80	672.0	60.96	37.78
	UNITED TECHNOLOGIES	UNITED TECHNOLOGIES / PRATT											1
990021	CORPORATION	WHITNEY ACFT	UTECH80	\$61510	2975840	6.71	80	E-8 Rocket Engine Test Stand	22.86	0.41	410.9	106.68	0.12
	FLORIDA POWER AND LIGHT	FP&L / WEST COUNTY ENERGY					١.	250 MW Combined Cycle Combustion Turbine System - Unit					
990646	COMPANY	CENTER	WESTCT16	562190	2953040	6.10	1	1A, 1B, 1C, 2A, 2B, 2C (EU 1 - 6)	45.42	6.71	359.8	17.53	62.29
	FLORIDA POWER AND LIGHT	FP&L / WEST COUNTY ENERGY						One nominal 85,000 lb/hr (99.8 MMBtu/hour) auxiliary					
990646	COMPANY	CENTER	WESTCT9	562190	2953040	6.10	9	boiler	18.29	0.84	419.8	25.09	1.26
	FLORIDA POWER AND LIGHT	FP&L / WEST COUNTY ENERGY											
990646	COMPANY	CENTER	WESTCT10	562190	2953040	6.10	10	Two nominal 10 MW MMBTU/hr gas fired process heaters	9.14	0.30	533.2	32.00	0.12
	FLORIDA POWER AND LIGHT	FP&L / WEST COUNTY ENERGY			2052500		١	250 MW CTG with supplementary fired HRSG - Unit 3A, 3B,			262.7	40.43	
990646	COMPANY	CENTER COUNTY ENTREY	WESTCT13	562200	2952600	6.10	13	3C (EU 13, 14, 15)	45.42	6.71	363.7	18.17	31.15
200546	FLORIDA POWER AND LIGHT	FP&L / WEST COUNTY ENERGY	WESTSTAN	663000	2052000		١.,	Two nominal 2250 KW (~21 MMBtu/hr) emergency			7040	443.06	0.13
990646	COMPANY	CENTER	WESTCT18	562000	2952000	6.10	18	generators	9.14	0.30	764.3	112.96	0.12
000016	ATLANTIC LICIDING LIC	ATLANTIC SUCAR AND	ATI 511513	553000	2945420	3.66	١.	B-111 8 3 450 000 H (track	27.43	1	3443	16.00	21.75
990016	ATLANTIC HOLDING, LLC	ATLANTIC SUGAR MILL	ATLSUG12	552980	2945420	3.66	1	Boiler 1 & 2 - 150,000 lb/hr steam rate each	27.43	1.89	344.3	16.82	31.75
000016	ATLANTIC HOLDING LLC	ATLANTIC SUCAR MALL	ATIFICA	552980	2945420	3.00	١,	B-il-r 3 130 000 lb /b	10.20	1 00	338.7	16.15	14.11
990016	ATLANTIC HOLDING, LLC	ATLANTIC SUGAR MILL	ATLSUG3	552980	2945420	3.66	3	Boiler 3 - 130,000 lb/hr steam rate	18.29	1.83	338.7	10.15	14.11
000016	ATLANTIC HOLDING, LLC	ATLANTIC SUGAR MILL	ATLSUG4	552980	2945420	3.66	١.	Dellar 4 425 000 lb /b - stare	27.43	1.07	338.7	16.15	14.06
990016	ATTANTIC HOLDING, LLC	ATLANTIC SOGAR WILL	ATLS004	552980	2945420	3.00	4	Boiler 4 - 125,000 lb/hr steam rate	27.43	1.83	336.7	16.15	14.06
000016	ATLANTIC HOLDING, LLC	ATLANTIC SUGAR MILL	ATLSUG5	552900	2945200	3.66	_	Reiles F. 115 000 lb /bs stones sets	27.43	1.68	338.7	19.23	5.14
330010	ATEANTIC HOLDING, EEC	ATLANTIC SOGAR MILL	AILSOGS	332900	2943200	3.00	- 3	Boiler 5 - 115,000 lb/hr steam rate	27.43	1.08	330.7	19.23	5.14
$\vdash$				<del>                                      </del>	_		<del>  -</del>						$\vdash$
990019	OSCEOLA FARMS	OSCEOLA FARMS	OSCF2	544710	2967550	4.26	١,	BOILER #2 WITH 2 SCRUBBERS AND 2 STACKS	27.43	1.52	342.0	31.39	15.88
330013	-	CSCLOB (TYMM)S	00012	311720	2507550	7.20	<del>-</del>	BOILEN #2 WITH 2 SCROBBERS AND 2 STACKS	27.43	1.52	342.0	31.33	15.00
990019	OSCEOLA FARMS	OSCEOLA FARMS	O5CF3	544020	2968000	4.26	l 3	BOILER #3 WITH SCRUBBER	27.43	1.92	341.5	23.77	8.14
			000.0				۳		27.13	2.52		25.77	<del>- 5.27</del>
990019	OSCEOLA FARMS	OSCEOLA FARMS	OSCF4	544710	2967550	4.26	4	BAGASSE BOILER #4 (UNIT #5), 140,000 LBS/HR STEAM	25.60	1.83	340.9	12.50	15.88
								165,000 LB/HR BAGASSE BOILER # 5 WITH 2 SCRUBBERS & 2					
990019	OSCEOLA FARMS	OSCEOLA FARMS	OSCF5	544710	2967550	4.26	l s	STACKS	27.43	1.52	340.9	31.39	18.71
				_									
990019	OSCEOLA FARMS	OSCEOLA FARMS	OSCF6	544020	2968000	4.26	6	BOILER #6 WITH SCRUBBER PSD	27.43	1.92	341.5	17.07	9.90
					_			-					
990026	SUGAR CANE GROWERS CO-OP	SUGAR CANE GROWERS CO-OP	SUGCN1	534870	2953860	3.35	1	BOILER #1 WITH 1 SCRUBBER AND 1 STACK	45.72	1.31	337.6	21.64	20.05
990026	SUGAR CANE GROWERS CO-OP	SUGAR CANE GROWERS CO-OP	SUGCN2	534870	2953860	3.35	2	BOILER #2 WITH 1 SCRUBBER AND 1 STACK	45.72	1.31	336.5	23.16	16.20
990026	SUGAR CANE GROWERS CO-OP	SUGAR CANE GROWERS CO-OP	SUGCN3	534870	2953860	3.35	3	BOILER #3 WITH 1 5CRUBBER AND 1 STACK	54.86	1.62	341.5	15.85	12.97
990026	SUGAR CANE GROWERS CO-OP	SUGAR CANE GROWERS CO-OP	SUGCN4	534870	2953860	3.35	4	BOILER #4 WITH 2 SCRUBBERS AND 1 STACK	54.86	2.90	343.7	15.33	32.38
								-					
990026	SUGAR CANE GROWERS CO-OP	SUGAR CANE GROWERS CO-OP	5UGCN5	534870	2953860	3.35	5	BOILER #5 WITH 2 SCRUBBERS AND 1 STACK	45.72	2.13	341.5	12.31	23.76
990026	SUGAR CANE GROWERS CO-OP	SUGAR CANE GROWERS CO-OP	SUGCN8	534870	2953860	3.35	8	BOILER # 8 WITH 2 SCRUBBERS AND 1 STACK	47.24	2.90	344.8	9.14	15.50

### TABLE A-3 FINAL NO<sub>2</sub> NAAQS SOURCE INVENTORY

Facility ID	Owner / Company Name	Site Name	SRCID	UTM East (km)	UTM North (km)	Base Evel (m)	EU ID	EU Description	Stack Height (m)	Diam (m)	Exit Temp (K)	Exit Vel (m/s)	Allowable (g/s)
-								Fossil Fuel Fired Steam Generator #1 & #2 (Acid Rain, Phase					
850001	FLORIDA POWER & LIGHT (PMR)	MARTIN POWER PLANT	MART12	543080	2993090	8.53		II)	152.10	10.97	443.2	13.14	653.94
850001	FLORIDA POWER & LIGHT (PMR)	MARTIN POWER PLANT	MART34	543270	2992610	8.53	3	Combustion Turbine with HRSG (CT 3A)(Acid Rain, Phase II) -	64.92	6.10	410.9	39.14	232.36
850001	FLORIDA POWER & LIGHT (PMR)	MARTIN POWER PLANT	MARTAUX	543900	2 <del>9</del> 92670	8.53	7	Auxiliary Boiler	18.29	1.10	527.6	15.24	0.61
850001	FLORIDA POWER & LIGHT (PMR)	MARTIN POWER PLANT	MARTDG	543200	2992710	8.53	9	Diesel Generator(0.718 MW for Units 003-006)	3.96	0.15	705.4	122.90	9.08
850001	FLORIDA POWER & LIGHT (PMR)	MARTIN POWER PLANT	MART8	543060	2997680	8.53	11	Unit 8A-8D - 170 MW gas turbine with gas-fired HRSG	36.58	5.79	367.6	17.98	160.88
	SOUTH FLORIDA WATER			_									
990620	MANAGEMENT DISTRICT	SFWMD / PUMP STATION S-319	SFWMD319	566300	2951220	4.57	1	Five diesel engines and two emergency generators	17.68	0.46	616.5	33.41	21.256
	SOUTH FLORIDA WATER MANANGEMENT DISTRICT	SFWMD / PUMP STATION S-362	SFWMD362	567210	2944980	4.57	1	Three - 1303 bhp and two - 839 hp diesel engines.	18.29	0.405	616.5	29.47	14.079

Base elevations estimated from Google Earth (data not provided by FDEP)

Note: These facilities screened out through modeling.

Facility ID	Owner / Company Name	Site Name	SRC ID	UTM East (km)	UTM North (km)	Base Evel (m)	EU ID	EU Description	Stack Height (m)	Diam (m)	Exit Temp (K)	Exit Vel (m/s)	Allowable (g/s)
		INDIANTOWN COGENERATION									-		_
850102	INDIANTOWN COGENERATION, L.P.	PLANT ·	INDTOWN1	547650	2990700	9.45	1	Pulverized Coal Main Boiler	150.88	4.88	333.2	28.41	73.33
	•	INDIANTOWN COGENERATION								-			
850102	INDIANTOWN COGENERATION, L.P.	PLANT	INDTOWN3	547650	2990700	9.45	7	Aux Boilers (2)	64.01	1.52	561.5	37.92	1.01
													•
	WHEELABRATOR NORTH	WHEELABRATOR NORTH											
112120	BROWARD, INC. 1	BROWARD	WHEELIN	583900	2907600	3.05	1	807 TPD MSW Combustor & Auxiliary Burners- Unit 1, 2, 3	59.44	2.29	422.0	19.45	40.26

Note:

1. Wheelabrator N. Broward was initial outside the SIA = 50 km distance but left in for conservativism.

### B-1. Determine Compliance with 1-Hour NO<sub>2</sub> Standard

USEPA has not yet developed incorporated programs to determine the 98<sup>th</sup> percentile of the maximum daily 1-hour NO<sub>2</sub> impact within AERMOD. Therefore, a commercial post-processing program (*BREEZE 3DAnalyst*) was used to determine compliance with the 1-hour NO<sub>2</sub> NAAQS. The *3DAnalyst* program requires that a POSTFILE containing the hourly NO<sub>2</sub> impacts at each receptor for the ALL source group be developed during the AERMOD modeling analysis for each year of the meteorological data. The post-processing program then calculates the maximum daily 1-hour concentration at each receptor and each day from the hourly NO<sub>2</sub> predicted concentration data using the Extract Maximum Daily function. The post-processing then determines the 8<sup>th</sup> highest daily 1-hour concentration from each year for each receptor from the Maximum Daily data using the Extract Highs function (using a value of 8 to represent 8<sup>th</sup> highest) in *3DAnalyst*. The 8<sup>th</sup> high daily 1-hour maximum impacts were then copied into an EXCEL file where the 5-year average at each receptor is determined. The reported value is the maximum 8<sup>th</sup> highest daily 1-hour impact from all of the modeled receptors in the multisource analysis.

#### **B-2.** Determine Source Contribution

Following USEPA guidance, the source under review must show that its potential emissions will not cause or contribute to an exceedance of the NAAQS. The full, cumulative, multisource analysis indicated potential modeled exceedances of the 1-hour  $NO_2$  NAAQS at the receptor locations where the Proposed Facility (PBREF2) was initially shown to be significant (i.e., had impacts equal to or exceeding the proposed 1-hour SIL for  $NO_2$ ). To demonstrate compliance with the standard, PBREF2 must show that at any potential modeled exceedance of the standard in both space and time (i.e., at a receptor location and hour of day), PBREF2's modeled concentration is below the SIL (i.e., determined to be insignificant). Since the new 1-hour  $NO_2$  NAAQS is a 5-year average of the maximum daily concentration, the analysis conservatively looked at each individual hour where the cumulative impact was modeled to be greater than the NAAQS (189  $\mu g/m^3$ ). The following steps were followed to determine if the maximum impacts from PBREF2 were insignificant at these receptors and times.

Step 1 – In the full multisource impact modeling, a MAXIFILE was requested in AERMOD for both the ALL (final source inventory and PBREF2) and PBREF2 source groups. The MAXIFILE for the ALL source group had a threshold set at  $81\mu g/m^3$ . This threshold will identify all of the modeled 1-hour NO<sub>2</sub>



concentrations (using Tier 1) that are equal to or greater than the NAAQS accounting for the maximum 1-hour ambient background concentration of 108  $\mu g/m^3$ . The threshold for the PBREF2 source group was set at the SIL level (using 7.55  $\mu g/m^3$  as the SIL threshold). Therefore, two output files were developed with one having predicted impacts greater than the standard when background is added, and the other with all hours and locations when PBREF2 is significant.

Step 2 – Each MAXIFILE was imported into an MS EXCEL spreadsheet, each containing lookup functions. These spreadsheets converted the Tier 1 NO<sub>2</sub> concentration to Tier 2, and then added the maximum background concentration (108 μg/m³) to the predicted impact for each hour. The lookup table then determined if the Tier 2 concentration plus background exceeded the 1-hour NO<sub>2</sub> NAAQS. If the table indicated that the 1-hour NO<sub>2</sub> NAAQS was equaled or exceeded, it then searched for the corresponding receptor and hour from the PBREF2 MAXIFILE and reported back a PBREF2 concentration if it was equal to or greater than the 1-hour NO<sub>2</sub> SIL. If there were no corresponding values in the PBREF2 MAXIFILE that equaled or exceeded the SIL, then the cell reported the phrase "< SIL". This process is repeated for each of the 5 years of meteorological data, and then summarized for each year.

## B-3. Determine Maximum Predicted Impact When PBREF2 is Significant

The next part of the analysis determines the maximum 1-hour NO<sub>2</sub> concentration from the cumulative multisource impact analysis when PBREF2 is significant (both in time and space). This analysis uses the POSTFILEs (in ASCII format) for both the ALL and PBREF2 source groups. Due to the large size of the POSTFILEs (more than 1 million lines), a short program was developed to read and process the POSTFILEs. This program reads the POSTFILE associated with the 1-hour concentrations for PBREF2 and determines if the reported concentration for each hour is equal to or greater than the proposed NO<sub>2</sub> SIL. If an hour's predicted concentration is equal to or greater than the SIL, the concentration for that same hour and receptor location is extracted from the ALL source group POSTFILE and reported in an output file (e.g., MaxSig01.out, text file). This output file resembles the ASCII POSTFILE for the PBREF2 source group with the exception that an additional column has been added to report the corresponding receptor and hour's ALL source group's concentration. In addition, this POSTFILE contains only those hours when PBREF2 is significant. This process was conducted for each of the 5

<sup>&</sup>lt;sup>1</sup>1-hour NO<sub>2</sub> Threshold (NAAQS) = 189  $\mu$ g/m<sup>3</sup> – 108  $\mu$ g/m<sup>3</sup> (maximum 1-hour background concentration) = 81  $\mu$ g/m<sup>3</sup>.





years of meteorological data. These five files are then imported into EXCEL, and the maximum 1-hour concentration from the cumulative impact analysis when PBREF2 is significant is determined. The highest ambient monitored background concentration (108  $\mu g/m^3$ ) is then added to highest 1-hour  $NO_2$  cumulative impact from the 5 years of meteorological data and reported in the results section of the report





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