Golder Associates Inc.

6241 NW 23rd Street, Suite 500
Gainesville, FL 32653-1500
Telephone (352) 336-5600
Fax (352) 336-6603

October 6, 2000

9837588

Mr. C. H. Fancy, P.E., Chief
Bureau of Air Regulation
Florida Department of Environmental Protection
Twin Towers Office Building
Mail Station #5505
2600 Blair Stone Road
Tallahassee, Florida 32399-2400
Attn: Mr. A.A. Linero, P.E., New Source Review

RE: TROPICANA PRODUCTS, INC.
FORT PIERCE CITRUS PROCESSING PLANT
AIR PERMIT APPLICATION

Dear Al:

Attached please find 5 copies of an Air Permit Application [Construction and Prevention of Significant Deterioration (PSD)] for the addition of extractors at the Tropicana Products, Inc.'s Fort Pierce Citrus Processing Plant. The project includes the phased installation of extractors during the next two fruit processing seasons. The first phase will consist of adding 5 extractors for the 2000-2001 fruit season, while the second phase will add 11 extractors for the 2001-2002 fruit season.

The project will result in a modification that will trigger PSD review for the facility. However, there is no proposed physical or operational change in the emission units for the facility. As a result, there would be no review for Best Available Control Technology (BACT) of the emission units at the facility. These emission units include the citrus feed dryers, coolers and pellet mills, and process steam boilers.

Several proposed changes have been made to establish a potential to emit, as well as limitations on the amount of fuel oil usage and its sulfur content. These are discussed in detail in the application.

With the exception of a small gas-fired package boiler (17 mmBtu/hr), all the emission units at the Tropicana Fort Pierce Plant are included in the PSD baseline. As a result, the air impact analysis only evaluated compliance with AAQS.

A permit processing fee for PSD permits of $7,500 has been included with the applications. Given the desire to install extractors for the upcoming fruit season, an expeditious review would be appreciated. Please call if there are any questions.

Sincerely,

GOLDER ASSOCIATES, INC.

Kennard F. Kosky, P.E.

KFK/jkw
Enclosures
cc: Douglas Foster, Manager of Environmental Affairs, Tropicana Products, Inc.
Scott Davis, Fort Pierce Environmental Operation Manager, Tropicana Products, Inc.
P:\Projects\1998\9837\9837588Y Tropicana\F1\WP\#011tr.doc

Wood, Janet

From: Kosky, Ken

Sent: Friday, October 06, 2000 3:08 PM

To: GNV- Document Production

Subject: Tropicana Fort Pierce

Attached is the cover letter. MAKE SURE THE APPLICATION ARE FED-X TO THE AIR BUREAU'S "MAGNOLIA" ADDRESS. Thanks, Ken

Kennard F. Kosky, P.E.
Principal
Golder Associates, Inc.
6241 NW 62nd Street
Gainesville, Fl 32653
Phone (352) 336-5600, Fax (352) 336-6603

RECEIVED
OCT 09 2000
BUREAU OF AIR REGULATION

AIR PERMIT APPLICATION
FOR EXTRACTORS ADDITION
TROPICANA PRODUCTS, INC.
FORT PIERCE CITRUS PROCESSING PLANT

FORT PIERCE, FLORIDA

Prepared For:

Tropicana Products, Inc.
6500 Glades Cutoff Road
Fort Pierce, Florida 34981

Prepared By:

Golder Associates Inc.
6241 NW 23rd Street, Suite 500
Gainesville, Florida 32653-1500

October 2000
9837588Y/F1

DISTRIBUTION:

7 Copies - Tropicana
2 Copies - Golder Associates Inc.

TABLE OF CONTENTS

AIR PERMIT APPLICATION

PSD REPORT

TABLE OF CONTENTS

TABLE OF CONTENTS

LIST OF TABLES

LIST OF TABLES

LIST OF FIGURES

LIST OF ACRONYMS AND ABBREVIATIONS

AAQS	ambient air quality standards
AOR	Annual Operating Report
BACT	best available control technology
CAA	Clean Air Act
CFR	Code of Federal Regulations
CO	carbon monoxide
ENP	Everglades National Park
EPA	U.S. Environmental Protection Agency
F.A.C.	Florida Administrative Code
FCPA	Florida Citrus Processors Association
FDEP	Florida Department of Environmental Protection
ft	foot
ft^3	cubic feet
GEP	good engineering practice
Golder	Golder Associates Inc.
hr/yr	hours per year
HSH	highest, second-highest
ISCST3	Industrial Source Complex Short-Term Model, Version 98356
lb/hr	pounds per hour
m	meter
mmBtu/hr	million British thermal units per hour
$\mu g/m^3$	micrograms per cubic meter
NO_2	nitrogen dioxide
NO_x	nitrogen oxide
NSPS	new source performance standards
NSR	new source review
PM	particulate matter
PM_{10}	particulate matter with aerodynamic diameter of 10 microns or less
PSD	prevention of significant deterioration
SIL	significant impact level

LIST OF ACRONYMS AND ABBREVIATIONS

SIP	Florida's State Implementation Plan
SO_2	sulfur dioxide
tons/hr	tons per hour
TSP	total suspended particulate matter
VOC	volatile organic compound

AIR PERMIT APPLICATION

Department of Environmental Protection

Division of Air Resources Management

APPLICATION FOR AIR PERMIT - TITLE V SOURCE

See Instructions for Form No. 62-210.900(1)

I. APPLICATION INFORMATION

Identification of Facility

1. Facility Owner/Company Name: **Tropicana Products, Inc.**	
2. Site Name: **Ft. Pierce Citrus Processing Plant**	
3. Facility Identification Number: **1110004** [ ] Unknown	
4. Facility Location: Street Address or Other Locator: **6500 Glades Cutoff Road** City: **Ft. Pierce** County: **St. Lucie** Zip Code: **34981**	
5. Relocatable Facility? [ ] Yes [X] No	6. Existing Permitted Facility? [X] Yes [ ] No

Application Contact

1. Name and Title of Application Contact: **Douglas E. Foster, Manager Environmental Affairs**
2. Application Contact Mailing Address: Organization/Firm: **Tropicana Products, Inc.** Street Address: **1001 13th Avenue, East** City: **Bradenton** State: **FL** Zip Code: **34208**
3. Application Contact Telephone Numbers: Telephone: **(941) 742 - 2748** Fax: **(941) 742 - 3768**

Application Processing Information (DEP Use)

1. Date of Receipt of Application:	10-9-00
2. Permit Number:	1110004-003-AC
3. PSD Number (if applicable):	PSD-FL-303
4. Siting Number (if applicable):	

Purpose of Application

Air Operation Permit Application

This Application for Air Permit is submitted to obtain: (Check one)

[ ] Initial Title V air operation permit for an existing facility which is classified as a Title V source.

[ ] Initial Title V air operation permit for a facility which, upon start up of one or more newly constructed or modified emissions units addressed in this application, would become classified as a Title V source.

Current construction permit number:_____

[ ] Title V air operation permit revision to address one or more newly constructed or modified emissions units addressed in this application.

Current construction permit number:_____

Operation permit number to be revised:_____

[ ] Title V air operation permit revision or administrative correction to address one or more proposed new or modified emissions units and to be processed concurrently with the air construction permit application. (Also check Air Construction Permit Application below.)

Operation permit number to be revised/corrected:_____

[ ] Title V air operation permit revision for reasons other than construction or modification of an emissions unit. Give reason for the revision; e.g., to comply with a new applicable requirement or to request approval of an "Early Reductions" proposal.

Operation permit number to be revised:_____

Reason for revision:_____

Air Construction Permit Application

This Application for Air Permit is submitted to obtain: (Check one)

[X] Air construction permit to construct or modify one or more emissions units.

[ ] Air construction permit to make federally enforceable an assumed restriction on the potential emissions of one or more existing, permitted emissions units.

[ ] Air construction permit for one or more existing, but unpermitted, emissions units.

Owner/Authorized Representative or Responsible Official

1. Name and Title of Owner/Authorized Representative or Responsible Official:
   Richard Coyle, Director of Operators

2. Owner/Authorized Representative or Responsible Official Mailing Address:
   Organization/Firm: **Tropicana Products, Inc.**
   Street Address: **6500 Glades Cutoff Road**
   City: **Ft. Pierce** State: **FL** Zip Code: **34981**

3. Owner/Authorized Representative or Responsible Official Telephone Numbers:
   Telephone: (**561**) **465 - 2030** Fax: (**561**) **465 - 2855**

4. Owner/Authorized Representative or Responsible Official Statement:

I, the undersigned, am the owner or authorized representative(check here [X], if so) or the responsible official (check here [ ], if so) of the Title V source addressed in this application, whichever is applicable. I hereby certify, based on information and belief formed after reasonable inquiry, that the statements made in this application are true, accurate and complete and that, to the best of my knowledge, any estimates of emissions reported in this application are based upon reasonable techniques for calculating emissions. The air pollutant emissions units and air pollution control equipment described in this application will be operated and maintained so as to comply with all applicable standards for control of air pollutant emissions found in the statutes of the State of Florida and rules of the Department of Environmental Protection and revisions thereof. I understand that a permit, if granted by the Department, cannot be transferred without authorization from the Department, and I will promptly notify the Department upon sale or legal transfer of any permitted emissions unit.*

Richard A. Coyle
Signature

10/3/00
Date

* Attach letter of authorization if not currently on file.

Professional Engineer Certification

1. Professional Engineer Name: **Kennard F. Kosky**
   Registration Number: **14996**

2. Professional Engineer Mailing Address:
   Organization/Firm: **Golder Associates Inc.**
   Street Address: **6241 NW 23rd Street, Suite 500**
   City: **Gainesville** State: **FL** Zip Code: **32653**

3. Professional Engineer Telephone Numbers:
   Telephone: (**352**) **336 - 5600** Fax: (**352**) **336 - 6603**

DESIGNATION OF DOCUMENT SIGNATORY

I, Brock H. Leach, hereby certify that I am the President and Chief Executive Officer of Tropicana Products, Inc., ("Tropicana") and as such I am authorized to designate employees to prepare and sign documents and to certify on behalf of said company the accuracy and completeness of information in such documents.

Pursuant to the power vested in me, I hereby designate the person listed below to prepare and sign documents for submission to federal, state and local government agencies having jurisdiction over environmental, safety and utilities matters, including but not limited to, the United States Environmental Protection Agency, the United States Department of Labor, Occupational Safety and Health, the Florida Department of Environmental Protection, the South Florida Water Management District, and the County of St. Lucie, State of Florida, pertinent to the operation of the Tropicana plant located in Ft. Pierce, Florida.

This designation is effective until revoked in writing.

Designated Signatory

Richard A. Coyle
Director, Ft. Pierce Operations
6500 Glades Cut-Off Road
Ft. Pierce, FL 34981

Brock H. Leach
President and CEO

Dated: 9/22/00

4. Professional Engineer Statement:

I, the undersigned, hereby certify, except as particularly noted herein, that:*

(1) To the best of my knowledge, there is reasonable assurance that the air pollutant emissions unit(s) and the air pollution control equipment described in this Application for Air Permit, when properly operated and maintained, will comply with all applicable standards for control of air pollutant emissions found in the Florida Statutes and rules of the Department of Environmental Protection; and

(2) To the best of my knowledge, any emission estimates reported or relied on in this application are true, accurate, and complete and are either based upon reasonable techniques available for calculating emissions or, for emission estimates of hazardous air pollutants not regulated for an emissions unit addressed in this application, based solely upon the materials, information and calculations submitted with this application.

If the purpose of this application is to obtain a Title V source air operation permit (check here [ ], if so), I further certify that each emissions unit described in this Application for Air Permit, when properly operated and maintained, will comply with the applicable requirements identified in this application to which the unit is subject, except those emissions units for which a compliance schedule is submitted with this application.

If the purpose of this application is to obtain an air construction permit for one or more proposed new or modified emissions units (check here [X], if so), I further certify that the engineering features of each such emissions unit described in this application have been designed or examined by me or individuals under my direct supervision and found to be in conformity with sound engineering principles applicable to the control of emissions of the air pollutants characterized in this application.

If the purpose of this application is to obtain an initial air operation permit or operation permit revision for one or more newly constructed or modified emissions units (check here [ ], if so), I further certify that, with the exception of any changes detailed as part of this application, each such emissions unit has been constructed or modified in substantial accordance with the information given in the corresponding application for air construction permit and with all provisions contained in such permit.

Signature

10/6/2000
Date

(seal)

* Attach any exception to certification statement.

Scope of Application

Emissions Unit ID	Description of Emissions Unit	Permit Type	Processing Fee
001, 004	Peel Dryers No. 1 and No. 2 with Waste Heat Evaporator	AC1A	
002, 003	Process Steam Boilers No. 1 and No. 2	AC1A	
007	Citrus Feed Coolers	AC1A	

Application Processing Fee

Check one: [X] Attached - Amount: $: 7,500 [ ] Not Applicable

Construction/Modification Information

1. Description of Proposed Project or Alterations:

   This application is for a PSD permit for the addition of 16 extractors to the existing facility. The facility currently has 50 juice extractors. The extractors will be added in two phases. The first phase will be to add 5 extractors for the 2000-2001 season and the second phase will be to add 11 extractors for the 2001-2002 season.

2. Projected or Actual Date of Commencement of Construction: **1 Nov 2000**

3. Projected Date of Completion of Construction: **1 Nov 2001**

Application Comment

There is no change in emission units at the facility. Information in the application form addressed requested changes to the fuel usage and emission rates for several emission units. The requested changes that are presented in this application include:

1. **EU 001 and 004 (Peel Dryers) - annual wet peel production from 38,250,000 boxes of fruit 1.5% sulfur oil as backup for 120 days (2,880 hours)**

2. **EU 002 and 003 (process steam boilers) - 1.5% sulfur oil as backup for 120 days (2,880 hours)**

3. **EU 007 (pellet mills) - 10 lb/hr PM emission rate**

II. FACILITY INFORMATION

A. GENERAL FACILITY INFORMATION

Facility Location and Type

1. Facility UTM Coordinates: Zone: **17** East (km): **561.0** North (km): **3028.1**			
2. Facility Latitude/Longitude: Latitude (DD/MM/SS): **27 / 22 / 35** Longitude (DD/MM/SS): **80 / 23 / 36**			
3. Governmental Facility Code: **0**	4. Facility Status Code: **A**	5. Facility Major Group SIC Code: **20**	6. Facility SIC(s): **2033**
7. Facility Comment (limit to 500 characters): **Citrus Processing Plant - consists of two existing peel dryers with associated evaporators, two pellet mills and coolers, two process steam boilers, a package boiler and associated insignificant emission units.**			

Facility Contact

1. Name and Title of Facility Contact: **Scott Davis, Environmental Operations Manager**
2. Facility Contact Mailing Address: Organization/Firm: **Tropicana Products, Inc.** Street Address: **6500 Glades Cutoff Road** City: **Ft. Pierce** State: **FL** Zip Code: **34981**
3. Facility Contact Telephone Numbers: Telephone: **(561) 465 - 2030** Fax: **(561) 465 - 2855**

Facility Regulatory Classifications

Check all that apply:

1. [ ] Small Business Stationary Source?	[ ] Unknown
2. [X] Major Source of Pollutants Other than Hazardous Air Pollutants (HAPs)?	
3. [ ] Synthetic Minor Source of Pollutants Other than HAPs?	
4. [X] Major Source of Hazardous Air Pollutants (HAPs)?	
5. [ ] Synthetic Minor Source of HAPs?	
6. [ ] One or More Emissions Units Subject to NSPS?	
7. [ ] One or More Emission Units Subject to NESHAP?	
8. [ ] Title V Source by EPA Designation?	
9. Facility Regulatory Classifications Comment (limit to 200 characters): **HAPs classification is based on limited test data.**	

List of Applicable Regulations

All Federal regulatory citations reflect the rule language as of June 2000.	
All State regulatory citations reflect the rule language as of June 2000.	
Only those rules, regulations, and ordinances specifically identified herein apply to this facility.	
See Attached Title V core list, effective date 3/25/97, except for 40CFR82.	

B. FACILITY POLLUTANTS

List of Pollutants Emitted

1. Pollutant Emitted	2. Pollutant Classif.	3. Requested Emissions Cap lb/hour	3. Requested Emissions Cap tons/year	4. Basis for Emissions Cap	5. Pollutant Comment
PM	A				Particulate Matter-Total
PM_{10}	A				Particulate Matter-PM_{10}
SO_2	A				Sulfur Dioxide
NO_X	A				Nitrogen Oxides
CO	A				Carbon Monoxides
VOC	A				Volatile Organic Compounds
HAPs	A				Total Hazardous Air Pollutants
H115	A				Methanol

C. FACILITY SUPPLEMENTAL INFORMATION

Supplemental Requirements

1. Area Map Showing Facility Location:
   [X] Attached, Document ID: Part II [ ] Not Applicable [ ] Waiver Requested

2. Facility Plot Plan:
   [X] Attached, Document ID: Part II [ ] Not Applicable [ ] Waiver Requested

3. Process Flow Diagram(s):
   [ ] Attached, Document ID: _____ [X] Not Applicable [ ] Waiver Requested

4. Precautions to Prevent Emissions of Unconfined Particulate Matter:
   [ ] Attached, Document ID: _____ [X] Not Applicable [ ] Waiver Requested

5. Fugitive Emissions Identification:
   [ ] Attached, Document ID: _____ [X] Not Applicable [ ] Waiver Requested

6. Supplemental Information for Construction Permit Application:
   [X] Attached, Document ID: Part II [ ] Not Applicable

7. Supplemental Requirements Comment:

   The facility process is not changing as a result of the project.

Additional Supplemental Requirements for Title V Air Operation Permit Applications

8. List of Proposed Insignificant Activities:
   [ ] Attached, Document ID:_____ [ ] Not Applicable

9. List of Equipment/Activities Regulated under Title VI:
   [ ] Attached, Document ID:_____
   [ ] Equipment/Activities On site but Not Required to be Individually Listed
   [ ] Not Applicable

10. Alternative Methods of Operation:
    [ ] Attached, Document ID:_____ [ ] Not Applicable

11. Alternative Modes of Operation (Emissions Trading):
    [ ] Attached, Document ID:_____ [ ] Not Applicable

12. Identification of Additional Applicable Requirements:
    [ ] Attached, Document ID:_____ [ ] Not Applicable

13. Risk Management Plan Verification:
    [ ] Plan previously submitted to Chemical Emergency Preparedness and Prevention Office (CEPPO). Verification of submittal attached (Document ID:_____) or previously submitted to DEP (Date and DEP Office:_____)
    [ ] Plan to be submitted to CEPPO (Date required:_____)
    [ ] Not Applicable

14. Compliance Report and Plan:
    [ ] Attached, Document ID:_____ [ ] Not Applicable

15. Compliance Certification (Hard-copy Required):
    [ ] Attached, Document ID:_____ [ ] Not Applicable

III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through J as required) must be completed for each emissions unit addressed in this Application for Air Permit. If submitting the application form in hard copy, indicate, in the space provided at the top of each page, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application.

A. GENERAL EMISSIONS UNIT INFORMATION
(All Emissions Units)

Emissions Unit Description and Status

1. Type of Emissions Unit Addressed in This Section: (Check one)

[X] This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.

2. Regulated or Unregulated Emissions Unit? (Check one)

[X] The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.

[ ] The emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit.

3. Description of Emissions Unit Addressed in This Section (limit to 60 characters):

Peel Dryers No. 1 & 2

4. Emissions Unit Identification Number: [ ] No ID [ ] ID Unknown
ID: **001 and 004**

5. Emissions Unit Status Code:	6. Initial Startup Date:	7. Emissions Unit Major Group SIC Code:	8. Acid Rain Unit?
A		**20**	[ ]

9. Emissions Unit Comment: (Limit to 500 Characters)

Each dryer has identical capacity and there is no change proposed by this application. The use of fuel oil is proposed to be limited to 120 days operation at 1.5 percent sulfur. Segment and sulfur dioxide reflect this change.

Emissions Unit Control Equipment

1. Control Equipment/Method Description (Limit to 200 characters per device or method):

Wet scrubber – medium efficiency

2. Control Device or Method Code(s): **2**

Emissions Unit Details

1. Package Unit:
   Manufacturer: Model Number:
2. Generator Nameplate Rating: MW
3. Incinerator Information:
   Dwell Temperature: °F
   Dwell Time: seconds
   Incinerator Afterburner Temperature: °F

B. EMISSIONS UNIT CAPACITY INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Operating Capacity and Schedule

1. Maximum Heat Input Rate:	**84** mmBtu/hr
2. Maximum Incineration Rate:	lb/hr tons/day
3. Maximum Process or Throughput Rate:	**100,000 lb/hr (50 TPH)**
4. Maximum Production Rate:	**40,000 lb/hr**
5. Requested Maximum Operating Schedule:	
	24 hours/day **7** days/week
	weeks/year **6,120** hours/year
6. Operating Capacity/Schedule Comment (limit to 200 characters):	
Maximum Production Rate based on pressed wet peel per dryer. Process Throughput Rate varies depending on moisture per dryer rate shown. Annual requested production rate based on the amount of wet peel from processing 38,250,000 boxes of fruit per season.	

C. EMISSIONS UNIT REGULATIONS
(Regulated Emissions Units Only)

List of Applicable Regulations

62-296.320(4)(a), F.A.C. Process Weight Table	
62-296.320(4)(b), F.A.C. General Visible Emissions Standards	

D. EMISSION POINT (STACK/VENT) INFORMATION
(Regulated Emissions Units Only)

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram? **001 & 004**	2. Emission Point Type Code: **1**	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point): **Gases from peel dryer and waste heat evaporator exhaust through evaporator stack.**		
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:		
5. Discharge Type Code:	6. Stack Height: **95** feet	7. Exit Diameter: **3.2** feet
8. Exit Temperature: **140** °F	9. Actual Volumetric Flow Rate: **30,000** acfm	10. Water Vapor: %
11. Maximum Dry Standard Flow Rate: dscfm	12. Nonstack Emission Point Height: feet	
13. Emission Point UTM Coordinates: Zone: East (km): North (km):		
14. Emission Point Comment (limit to 200 characters):		

E. SEGMENT (PROCESS/FUEL) INFORMATION
(All Emissions Units)

Segment Description and Rate: Segment 1 of 3

1. Segment Description (Process/Fuel Type) (limit to 500 characters): **Food and agricultural fuel fired equipment, process heaters, natural gas**		
2. Source Classification Code (SCC): **3-02-900-03**	3. SCC Units: **Million cubic feet burned**	
4. Maximum Hourly Rate: **0.088**	5. Maximum Annual Rate: **541**	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit: **950**
10. Segment Comment (limit to 200 characters): **84.0 mmBtu/hr maximum firing natural gas per dryer. Annual Rate based on 6,120 hr/yr.**		

Segment Description and Rate: Segment 2 of 3

1. Segment Description (Process/Fuel Type) (limit to 500 characters): **Food and agriculture, Citrus Feed Manufacture: other; process weight**		
2. Source Classification Code (SCC): **3-02-999-98**	3. SCC Units: **Tons of Product**	
4. Maximum Hourly Rate: **50**	5. Maximum Annual Rate: **306,000**	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment (limit to 200 characters): **Wet peel input per dryer.**		

E. SEGMENT (PROCESS/FUEL) INFORMATION
(All Emissions Units)

Segment Description and Rate: Segment 3 of 3

1. Segment Description (Process/Fuel Type) (limit to 500 characters): **Food and Agriculture; fuel fired equipment; process heaters, residual oil**		
2. Source Classification Code (SCC): **3-02-900-02**	3. SCC Units: **Thousand gallons burned**	
4. Maximum Hourly Rate: **0.56**	5. Maximum Annual Rate: **1,613**	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur: **1.5**	8. Maximum % Ash:	9. Million Btu per SCC Unit: **150**
10. Segment Comment (limit to 200 characters): **Annual Rate based on 2,880 hr/season (120 days)**		

Segment Description and Rate: Segment ____ of ____

1. Segment Description (Process/Fuel Type) (limit to 500 characters):		
2. Source Classification Code (SCC):	3. SCC Units:	
4. Maximum Hourly Rate:	5. Maximum Annual Rate:	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment (limit to 200 characters):		

F. EMISSIONS UNIT POLLUTANTS
(All Emissions Units)

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
SO_2			EL

G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units - Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

1. Pollutant Emitted: **SO_2**	2. Total Percent Efficiency of Control:
3. Potential Emissions: **125.9** lb/hour **181.8** tons/year	4. Synthetically Limited? [X]
5. Range of Estimated Fugitive Emissions: [ ] 1 [ ] 2 [ ] 3 _____ to _____ tons/year	
6. Emission Factor: **AP-42 for 1.5% S oil; 1 gr/100 CF of gas** Reference: **See Part II**	7. Emissions Method Code: **0**
8. Calculation of Emissions (limit to 600 characters): **See Part II for calculations.**	
9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters): **Per dryer emission rates shown. Maximum based on 1.5% S oil; Annual based on 2,880 hr/yr.**	

Allowable Emissions Allowable Emissions 1 of 1

1. Basis for Allowable Emissions Code: **OTHER**	2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: **1.5% Sulfur**	4. Equivalent Allowable Emissions: **125.9** lb/hour **181.3** tons/year
5. Method of Compliance (limit to 60 characters): **Fuel Analysis**	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters): **Per dryer emissions shown. TPY based on 2,880 hr/yr.**	

H. VISIBLE EMISSIONS INFORMATION
(Only Regulated Emissions Units Subject to a VE Limitation)

Visible Emissions Limitation: Visible Emissions Limitation 1 of 1

1. Visible Emissions Subtype: **VE20**	2. Basis for Allowable Opacity: [X] Rule [ ] Other
3. Requested Allowable Opacity: Normal Conditions: **20** % Exceptional Conditions: **100** % Maximum Period of Excess Opacity Allowed: **60** min/hour	
4. Method of Compliance: **EPA Method 9**	
5. Visible Emissions Comment (limit to 200 characters): **Rule 62-296.320(4)(b), F.A.C. for 20% opacity; Rule 62-210.700 F.A.C. for excess emissions.**	

I. CONTINUOUS MONITOR INFORMATION
(Only Regulated Emissions Units Subject to Continuous Monitoring)

Continuous Monitoring System: Continuous Monitor _____ of _____

1. Parameter Code:	2. Pollutant(s):
3. CMS Requirement:	[ ] Rule [ ] Other
4. Monitor Information: Manufacturer: Model Number: Serial Number:	
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment (limit to 200 characters):	

J. EMISSIONS UNIT SUPPLEMENTAL INFORMATION
(Regulated Emissions Units Only)

Supplemental Requirements

1. Process Flow Diagram [ ] Attached, Document ID: _____ [X] Not Applicable [ ] Waiver Requested
2. Fuel Analysis or Specification [ ] Attached, Document ID: _____ [X] Not Applicable [ ] Waiver Requested
3. Detailed Description of Control Equipment [ ] Attached, Document ID: _____ [X] Not Applicable [ ] Waiver Requested
4. Description of Stack Sampling Facilities [ ] Attached, Document ID: _____ [X] Not Applicable [ ] Waiver Requested
5. Compliance Test Report [ ] Attached, Document ID: _____ [ ] Previously submitted, Date: _____ [X] Not Applicable
6. Procedures for Startup and Shutdown [ ] Attached, Document ID: _____ [X] Not Applicable [ ] Waiver Requested
7. Operation and Maintenance Plan [ ] Attached, Document ID: _____ [X] Not Applicable [ ] Waiver Requested
8. Supplemental Information for Construction Permit Application [X] Attached, Document ID: Part II [ ] Not Applicable
9. Other Information Required by Rule or Statute [ ] Attached, Document ID: _____ [X] Not Applicable
10. Supplemental Requirements Comment: **See Part II**

Additional Supplemental Requirements for Title V Air Operation Permit Applications

11. Alternative Methods of Operation
[ ] Attached, Document ID:_____ [ ] Not Applicable

12. Alternative Modes of Operation (Emissions Trading)
[ ] Attached, Document ID:_____ [ ] Not Applicable

13. Identification of Additional Applicable Requirements
[ ] Attached, Document ID:_____ [ ] Not Applicable

14. Compliance Assurance Monitoring Plan
[ ] Attached, Document ID:_____ [ ] Not Applicable

15. Acid Rain Part Application (Hard-copy Required)

[ ] Acid Rain Part - Phase II (Form No. 62-210.900(1)(a))
Attached, Document ID:_____

[ ] Repowering Extension Plan (Form No. 62-210.900(1)(a)1.)
Attached, Document ID:_____

[ ] New Unit Exemption (Form No. 62-210.900(1)(a)2.)
Attached, Document ID:_____

[ ] Retired Unit Exemption (Form No. 62-210.900(1)(a)3.)
Attached, Document ID:_____

[ ] Phase II NOx Compliance Plan (Form No. 62-210.900(1)(a)4.)
Attached, Document ID:_____

[ ] Phase NOx Averaging Plan (Form No. 62-210.900(1)(a)5.)
Attached, Document ID:_____

[ ] Not Applicable

III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through J as required) must be completed for each emissions unit addressed in this Application for Air Permit. If submitting the application form in hard copy, indicate, in the space provided at the top of each page, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application.

A. GENERAL EMISSIONS UNIT INFORMATION
(All Emissions Units)

Emissions Unit Description and Status

1. Type of Emissions Unit Addressed in This Section: (Check one)

[X] This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.

2. Regulated or Unregulated Emissions Unit? (Check one)

[X] The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.

[ ] The emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit.

3. Description of Emissions Unit Addressed in This Section (limit to 60 characters):

Process Steam Boilers No. 1 and 2

4. Emissions Unit Identification Number: [ ] No ID [ ] ID Unknown
ID: **002 and 003**

5. Emissions Unit Status Code:	6. Initial Startup Date:	7. Emissions Unit Major Group SIC Code:	8. Acid Rain Unit?
A		**20**	[ ]

9. Emissions Unit Comment: (Limit to 500 Characters)

Two process steam boilers fired with natural gas and fuel oil. Each boiler has a heat input rate of 63.4 mmBtu/hr. Requested use of 1.5% S fuel for 120 days (2,880 hours).

Emissions Unit Control Equipment

1. Control Equipment/Method Description (Limit to 200 characters per device or method):
2. Control Device or Method Code(s):

Emissions Unit Details

1. Package Unit: Manufacturer:	Model Number:	
2. Generator Nameplate Rating:	MW	
3. Incinerator Information:		
Dwell Temperature:		°F
Dwell Time:		seconds
Incinerator Afterburner Temperature:		°F

B. EMISSIONS UNIT CAPACITY INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Operating Capacity and Schedule

1. Maximum Heat Input Rate:		**63.4**	mmBtu/hr
2. Maximum Incineration Rate:	lb/hr		tons/day
3. Maximum Process or Throughput Rate:			
4. Maximum Production Rate:			
5. Requested Maximum Operating Schedule:			
	24 hours/day	**7**	days/week
	weeks/year	**8,760**	hours/year
6. Operating Capacity/Schedule Comment (limit to 200 characters):			

C. EMISSIONS UNIT REGULATIONS
(Regulated Emissions Units Only)

List of Applicable Regulations

62-296.406(1) VE 20% opacity	

D. EMISSION POINT (STACK/VENT) INFORMATION
(Regulated Emissions Units Only)

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram? **002 & 003**	2. Emission Point Type Code: **1**	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point): **Exhaust gases exit a single stack per boiler.**		
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:		
5. Discharge Type Code: **V**	6. Stack Height: **60** feet	7. Exit Diameter: **2** feet
8. Exit Temperature: **592** °F	9. Actual Volumetric Flow Rate: **25,500** acfm	10. Water Vapor: %
11. Maximum Dry Standard Flow Rate: dscfm	12. Nonstack Emission Point Height: feet	
13. Emission Point UTM Coordinates: Zone:	East (km):	North (km):
14. Emission Point Comment (limit to 200 characters):		

E. SEGMENT (PROCESS/FUEL) INFORMATION
(All Emissions Units)

Segment Description and Rate: Segment 1 of 1

1. Segment Description (Process/Fuel Type) (limit to 500 characters): **Food and Agriculture, fuel fired equipment, process heaters, natural gas**		
2. Source Classification Code (SCC): **3-02-900-03**	3. SCC Units: **Million cubic feet burned**	
4. Maximum Hourly Rate: **0.067**	5. Maximum Annual Rate: **584.6**	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit: **950**
10. Segment Comment (limit to 200 characters): **Per boiler rates shown. Max annual rate based on 8,760 hr/yr.**		

Segment Description and Rate: Segment 2 of 2

1. Segment Description (Process/Fuel Type) (limit to 500 characters): **Food/agriculture, fuel fired equipment, process heaters, residual oil**		
2. Source Classification Code (SCC): **3-02-900-02**	3. SCC Units: **Thousand gallons burned**	
4. Maximum Hourly Rate: **0.423**	5. Maximum Annual Rate: **1,217.3**	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur: **1.5**	8. Maximum % Ash:	9. Million Btu per SCC Unit: **150**
10. Segment Comment (limit to 200 characters): **Max Hourly Rate per boiler. Max Annual Rate based on 2,880 hours per season.**		

F. EMISSIONS UNIT POLLUTANTS
(All Emissions Units)

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
SO_2			EL

G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units - Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

1. Pollutant Emitted: **SO_2**	2. Total Percent Efficiency of Control:

3. Potential Emissions: **95.1** lb/hour **137.5** tons/year	4. Synthetically Limited? [X]
5. Range of Estimated Fugitive Emissions: [ ] 1 [ ] 2 [ ] 3 _____ to _____ tons/year	
6. Emission Factor: **AP-42 for 1.5% S oil; 1 gr/100 CF of gas** Reference: **See Part II**	7. Emissions Method Code: **0**

8. Calculation of Emissions (limit to 600 characters):

See Part II for calculations

9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters):

Per boiler emisison rates shown. Maximum based on 1.5% S oil; Annual based on 2,880 hr/yr.

Allowable Emissions Allowable Emissions 1 of 1

1. Basis for Allowable Emissions Code: **OTHER**	2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: **1.5% Sulfur**	4. Equivalent Allowable Emissions: **95.1** lb/hour **136.9** tons/year

5. Method of Compliance (limit to 60 characters):

Fuel Analysis

6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):

Per boiler emissions shown. TPY based on 2,880 hr/yr.

H. VISIBLE EMISSIONS INFORMATION
(Only Regulated Emissions Units Subject to a VE Limitation)

Visible Emissions Limitation: Visible Emissions Limitation 1 of 1

1. Visible Emissions Subtype: **VE20**	2. Basis for Allowable Opacity: [X] Rule [ ] Other
3. Requested Allowable Opacity: Normal Conditions: **20** % Exceptional Conditions: **100** % Maximum Period of Excess Opacity Allowed: **60** min/hour	
4. Method of Compliance: **EPA Method 9**	
5. Visible Emissions Comment (limit to 200 characters): **Rule 62-296.320(4)(b), F.A.C. for 20% opacity; Rule 62-210.700 F.A.C. for excess emissions.**	

I. CONTINUOUS MONITOR INFORMATION
(Only Regulated Emissions Units Subject to Continuous Monitoring)

Continuous Monitoring System: Continuous Monitor _____ of _____

1. Parameter Code:	2. Pollutant(s):
3. CMS Requirement:	[ ] Rule [ ] Other
4. Monitor Information: Manufacturer: Model Number: Serial Number:	
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment (limit to 200 characters):	

J. EMISSIONS UNIT SUPPLEMENTAL INFORMATION
(Regulated Emissions Units Only)

Supplemental Requirements

1. Process Flow Diagram [ ] Attached, Document ID: _____ [X] Not Applicable [ ] Waiver Requested
2. Fuel Analysis or Specification [ ] Attached, Document ID: _____ [X] Not Applicable [ ] Waiver Requested
3. Detailed Description of Control Equipment [ ] Attached, Document ID: _____ [X] Not Applicable [ ] Waiver Requested
4. Description of Stack Sampling Facilities [ ] Attached, Document ID: _____ [X] Not Applicable [ ] Waiver Requested
5. Compliance Test Report [ ] Attached, Document ID: _____ [ ] Previously submitted, Date: _____ [X] Not Applicable
6. Procedures for Startup and Shutdown [ ] Attached, Document ID: _____ [X] Not Applicable [ ] Waiver Requested
7. Operation and Maintenance Plan [ ] Attached, Document ID: _____ [X] Not Applicable [ ] Waiver Requested
8. Supplemental Information for Construction Permit Application [X] Attached, Document ID: **Part II** [ ] Not Applicable
9. Other Information Required by Rule or Statute [ ] Attached, Document ID: _____ [X] Not Applicable
10. Supplemental Requirements Comment: **See Part II**

Additional Supplemental Requirements for Title V Air Operation Permit Applications

11. Alternative Methods of Operation
[ ] Attached, Document ID:_____ [ ] Not Applicable

12. Alternative Modes of Operation (Emissions Trading)
[ ] Attached, Document ID:_____ [ ] Not Applicable

13. Identification of Additional Applicable Requirements
[ ] Attached, Document ID:_____ [ ] Not Applicable

14. Compliance Assurance Monitoring Plan
[ ] Attached, Document ID:_____ [ ] Not Applicable

15. Acid Rain Part Application (Hard-copy Required)

[ ] Acid Rain Part - Phase II (Form No. 62-210.900(1)(a))
Attached, Document ID:_____

[ ] Repowering Extension Plan (Form No. 62-210.900(1)(a)1.)
Attached, Document ID:_____

[ ] New Unit Exemption (Form No. 62-210.900(1)(a)2.)
Attached, Document ID:_____

[ ] Retired Unit Exemption (Form No. 62-210.900(1)(a)3.)
Attached, Document ID:_____

[ ] Phase II NOx Compliance Plan (Form No. 62-210.900(1)(a)4.)
Attached, Document ID:_____

[ ] Phase NOx Averaging Plan (Form No. 62-210.900(1)(a)5.)
Attached, Document ID:_____

[ ] Not Applicable

III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through J as required) must be completed for each emissions unit addressed in this Application for Air Permit. If submitting the application form in hard copy, indicate, in the space provided at the top of each page, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application.

A. GENERAL EMISSIONS UNIT INFORMATION
(All Emissions Units)

Emissions Unit Description and Status

1. Type of Emissions Unit Addressed in This Section: (Check one)

[X] This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.

2. Regulated or Unregulated Emissions Unit? (Check one)

[X] The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.

[ ] The emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit.

3. Description of Emissions Unit Addressed in This Section (limit to 60 characters):

Citrus Feed Coolers, includes pellet mills & associated equipment

4. Emissions Unit Identification Number: [ ] No ID [ ] ID Unknown
ID: **007**

5. Emissions Unit Status Code:	6. Initial Startup Date:	7. Emissions Unit Major Group SIC Code:	8. Acid Rain Unit?
A		**20**	[ ]

9. Emissions Unit Comment: (Limit to 500 Characters)

The PM emissions are currently regulated by the process weight table. This source is controlled with a baghouse and an emission rate of 10 lb/hr is requested.

Emissions Unit Control Equipment

1. Control Equipment/Method Description (Limit to 200 characters per device or method):

This emission unit is controlled with a Torit Day Dust collector (baghouse) model DFT3-36 with a control efficiency of greater than 99%.

2. Control Device or Method Code(s): **101**

Emissions Unit Details

1. Package Unit: Manufacturer:	Model Number:	
2. Generator Nameplate Rating:	MW	
3. Incinerator Information:		
Dwell Temperature:		°F
Dwell Time:		seconds
Incinerator Afterburner Temperature:		°F

B. EMISSIONS UNIT CAPACITY INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Operating Capacity and Schedule

1. Maximum Heat Input Rate:			mmBtu/hr
2. Maximum Incineration Rate:	lb/hr		tons/day
3. Maximum Process or Throughput Rate:	**80,000 lb/hr (40 TPH)**		
4. Maximum Production Rate:	**80,000 lb/hr (40 TPH)**		
5. Requested Maximum Operating Schedule:			
	24 hours/day	**7**	days/week
	weeks/year	**6,120**	hours/year
6. Operating Capacity/Schedule Comment (limit to 200 characters):			
Process throughput matched with production rate of peel dryers.			

C. EMISSIONS UNIT REGULATIONS
(Regulated Emissions Units Only)

List of Applicable Regulations

62-296.320 (4)(a) F.A.C. Process Weight Table
62-296.320 (4)(b) F.A.C. General Visible Emisison Standards

D. EMISSION POINT (STACK/VENT) INFORMATION
(Regulated Emissions Units Only)

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram? **007**	2. Emission Point Type Code: **2**	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point): **Exhaust from a single baghouse serving two pellet coolers**		
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:		
5. Discharge Type Code: **H**	6. Stack Height: **20** feet	7. Exit Diameter: **4** feet
8. Exit Temperature: **80** °F	9. Actual Volumetric Flow Rate: **20,000** acfm	10. Water Vapor: %
11. Maximum Dry Standard Flow Rate: dscfm	12. Nonstack Emission Point Height: feet	
13. Emission Point UTM Coordinates: Zone: East (km): North (km):		
14. Emission Point Comment (limit to 200 characters): **Exhaust is horizontal.**		

E. SEGMENT (PROCESS/FUEL) INFORMATION
(All Emissions Units)

Segment Description and Rate: Segment 1 of 1

1. Segment Description (Process/Fuel Type) (limit to 500 characters): **Food and Agriculture, feed manufacturer, pellet cooler**		
2. Source Classification Code (SCC): **3-02-008-16**	3. SCC Units: **Tons processed**	
4. Maximum Hourly Rate: **40**	5. Maximum Annual Rate: **244,800**	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment (limit to 200 characters): **Annual rate based on production from peel dryers.**		

Segment Description and Rate: Segment ____ of ____

1. Segment Description (Process/Fuel Type) (limit to 500 characters):		
2. Source Classification Code (SCC):	3. SCC Units:	
4. Maximum Hourly Rate:	5. Maximum Annual Rate:	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment (limit to 200 characters):		

F. EMISSIONS UNIT POLLUTANTS
(All Emissions Units)

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
PM	101		EL

G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units - Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

1. Pollutant Emitted: **PM**	2. Total Percent Efficiency of Control: **99%**
3. Potential Emissions: **10** lb/hour **30.6** tons/year	4. Synthetically Limited? [X]
5. Range of Estimated Fugitive Emissions: [ ] 1 [ ] 2 [ ] 3 _____ to _____ tons/year	
6. Emission Factor: **10 lb/hr** Reference: **See Part II**	7. Emissions Method Code: **2**
8. Calculation of Emissions (limit to 600 characters): **See Part II**	
9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters):	

Allowable Emissions Allowable Emissions 1 of 1

1. Basis for Allowable Emissions Code: **OTHER**	2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: **Opacity ≤ 20%**	4. Equivalent Allowable Emissions: **10** lb/hour **30.6** tons/year
5. Method of Compliance (limit to 60 characters): **EPA Method 9**	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters): **Requested compliance is same as Title V Permit (proposed).**	

H. VISIBLE EMISSIONS INFORMATION
(Only Regulated Emissions Units Subject to a VE Limitation)

Visible Emissions Limitation: Visible Emissions Limitation 1 of 1

1. Visible Emissions Subtype: **VE20**	2. Basis for Allowable Opacity: [X] Rule [ ] Other
3. Requested Allowable Opacity: Normal Conditions: **20** % Exceptional Conditions: **100** % Maximum Period of Excess Opacity Allowed: **60** min/hour	
4. Method of Compliance: **EPA Method 9**	
5. Visible Emissions Comment (limit to 200 characters): **Rule 62-296.320 (4)(b) F.A.C. for 20% opacity. Rule 62-210.700 F.A.C. for excess emissions.**	

I. CONTINUOUS MONITOR INFORMATION
(Only Regulated Emissions Units Subject to Continuous Monitoring)

Continuous Monitoring System: Continuous Monitor _____ of _____

1. Parameter Code:	2. Pollutant(s):
3. CMS Requirement:	[ ] Rule [ ] Other
4. Monitor Information: Manufacturer: Model Number:	Serial Number:
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment (limit to 200 characters):	

J. EMISSIONS UNIT SUPPLEMENTAL INFORMATION
(Regulated Emissions Units Only)

Supplemental Requirements

1. Process Flow Diagram [ ] Attached, Document ID: _____ [X] Not Applicable [ ] Waiver Requested
2. Fuel Analysis or Specification [ ] Attached, Document ID: _____ [X] Not Applicable [ ] Waiver Requested
3. Detailed Description of Control Equipment [ ] Attached, Document ID: _____ [X] Not Applicable [ ] Waiver Requested
4. Description of Stack Sampling Facilities [ ] Attached, Document ID: _____ [X] Not Applicable [ ] Waiver Requested
5. Compliance Test Report [ ] Attached, Document ID: _____ [ ] Previously submitted, Date: _____ [X] Not Applicable
6. Procedures for Startup and Shutdown [ ] Attached, Document ID: _____ [X] Not Applicable [ ] Waiver Requested
7. Operation and Maintenance Plan [ ] Attached, Document ID: _____ [X] Not Applicable [ ] Waiver Requested
8. Supplemental Information for Construction Permit Application [X] Attached, Document ID: **Part II** [ ] Not Applicable
9. Other Information Required by Rule or Statute [ ] Attached, Document ID: _____ [X] Not Applicable
10. Supplemental Requirements Comment: **See Part II**

Additional Supplemental Requirements for Title V Air Operation Permit Applications

11. Alternative Methods of Operation
[ ] Attached, Document ID:_____ [ ] Not Applicable

12. Alternative Modes of Operation (Emissions Trading)
[ ] Attached, Document ID:_____ [ ] Not Applicable

13. Identification of Additional Applicable Requirements
[ ] Attached, Document ID:_____ [ ] Not Applicable

14. Compliance Assurance Monitoring Plan
[ ] Attached, Document ID:_____ [ ] Not Applicable

15. Acid Rain Part Application (Hard-copy Required)

[ ] Acid Rain Part - Phase II (Form No. 62-210.900(1)(a))
Attached, Document ID:_____

[ ] Repowering Extension Plan (Form No. 62-210.900(1)(a)1.)
Attached, Document ID:_____

[ ] New Unit Exemption (Form No. 62-210.900(1)(a)2.)
Attached, Document ID:_____

[ ] Retired Unit Exemption (Form No. 62-210.900(1)(a)3.)
Attached, Document ID:_____

[ ] Phase II NOx Compliance Plan (Form No. 62-210.900(1)(a)4.)
Attached, Document ID:_____

[ ] Phase NOx Averaging Plan (Form No. 62-210.900(1)(a)5.)
Attached, Document ID:_____

[ ] Not Applicable

PART II

1.0 INTRODUCTION

Tropicana Products, Inc.'s Fort Pierce Plant is a citrus processing facility located in St. Lucie County (see Figure 1-1). The Fort Pierce Plant was constructed prior to August 1980, and has many existing emission units as defined in Rule 62-210.200. The Fort Pierce Plant currently is authorized by the Florida Department of Environmental Protection (FDEP) to operate under various operation permits. The Title V permit for the plant is currently proposed. The Fort Pierce Plant consists of two process steam boilers, two citrus peel dryers with waste heat evaporators, citrus feed coolers including pellet mills, a package boiler and various unregulated and insignificant emission units (e.g., storage tanks).

Tropicana is proposing the addition of 16 citrus juice extractors to the existing juice extraction lines in two phases. The first phase will consist of five extractors installed for the 2000 to 2001 season. The second phase will be the addition of 11 extractors for the 2001 to 2002 season. Currently, the facility consists of five juice extractor lines with a total of 50 extractors. The first phase addition of five extractors will be installed to the existing extractor lines (i.e., 11 extractors per line). The second phase will be the addition of 11 extractors as a singe extractor line. Under the proposed project, five additional extractors added in the first phase will bring the total number of extractors to 55. The second phase of the project will bring the total number of extractors to 66. The existing peel dryer, pellet mill, and process steam boilers are all capable of accommodating the increased production.

Tropicana is submitting this air permit application and prevention of significant deterioration (PSD) analysis to address the pre-construction review requirements of Rules 62-210.300(1)(a) and Rule 62-212.500 adopted pursuant to rules and regulations implemented in the Clean Air Act (CAA) Amendments of 1977. The FDEP has PSD review and approval authority in Florida. Based on the PSD source applicability analysis, a PSD review is indicated for the following regulated pollutants: particulate matter (PM), PM with an aerodynamic diameter of 10 microns and less (PM_{10}), sulfur dioxide (SO_2), nitrogen oxides (NO_x), carbon monoxide (CO), and volatile organic compound (VOC) emissions.

This application contains seven additional sections. A complete description of the facility, including air emission rates, is presented in Section 2.0. The air quality review requirements and new source review applicability are discussed in Section 3.0. Ambient monitoring requirements under PSD are addressed in Section 4.0. The best available control technology (BACT) analysis is presented in Section 5.0. The air quality impact analysis methodology is described in Section 6.0, and the impact analysis results are presented in Section 7.0. Additional impacts on soils, vegetation, and visibility are addressed in Section 8.0. The appendices contain supportive information.

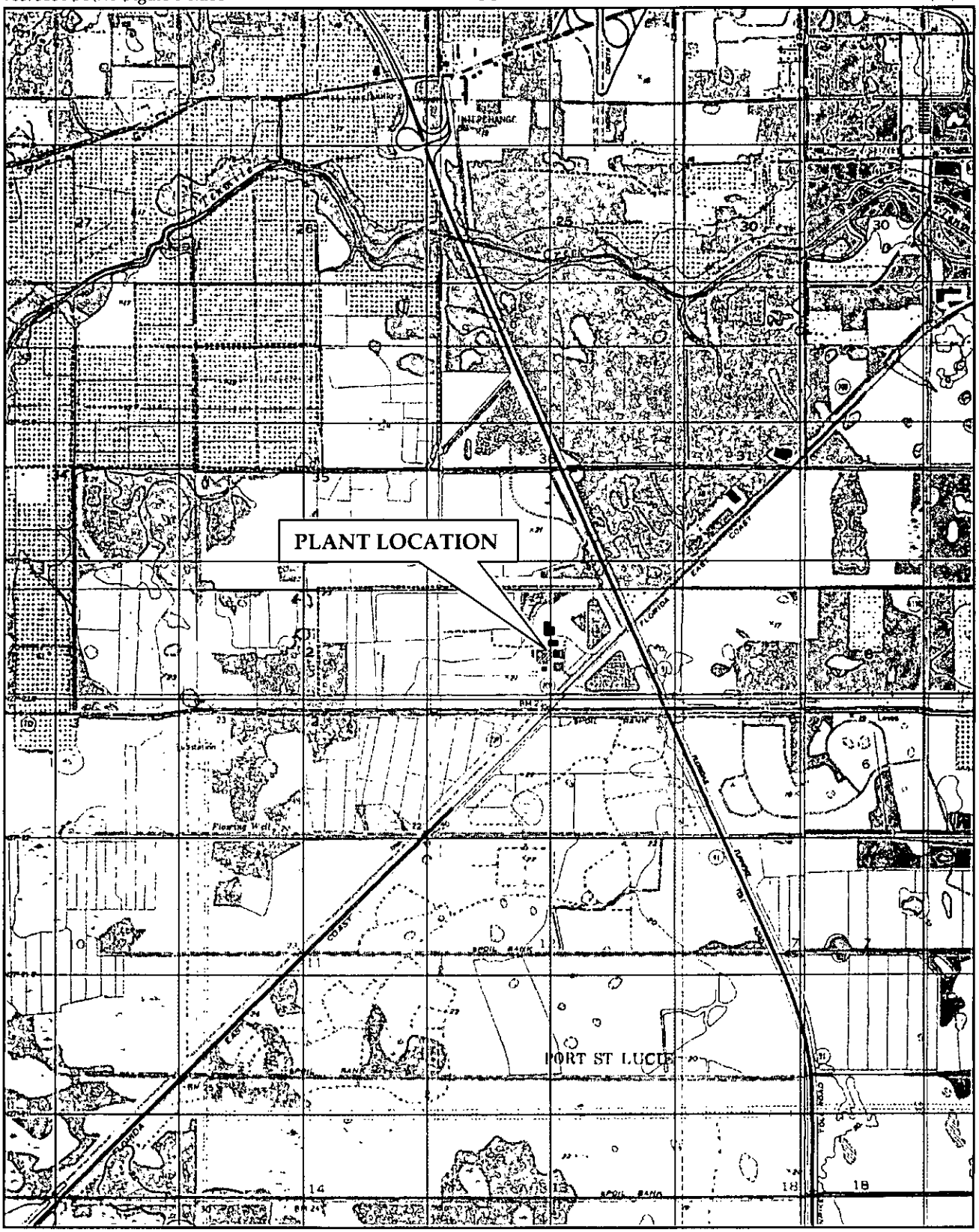

FIGURE 1-1
Tropicana Products, Inc.
Fort Pierce Plant

Golder Associates

2.0 DESCRIPTION OF FORT PIERCE FACILITY

2.1 FACILITY OVERVIEW

The Tropicana's Fort Pierce Plant is a citrus processing facility consisting of fruit unloading facilities, 50 juice extractors, 2 process steam boilers, 2 citrus peel dryers with waste heat evaporators, 2 pellet mills and coolers, 1 package boiler, and associated facilities. The facility is authorized to operate under air operating permits issued for the six emission units. These emission units are identified (see Appendix A) as:

- Emission Unit 001 – No. 1 Peel Dryer with Waste Heat Evaporator (AO 56-1815611)
- Emission Unit 002 – No. 1 Process Steam Generator (AO 56-195346)
- Emission Unit 003 – No. 2 Process Steam Generator (AO 56-195346)
- Emission Unit 004 – No. 2 Peel Dryer with Waste Heat Evaporator (AO 56-211342)
- Emission Unit 005 – Steam Package Boiler (1110004-001-AC)
- Emission Unit 006 – Pellet Mill and Coolers

All permits were issued by the FDEP Southeast District office. A Proposed Title V Permit (1110004-002-AV) was issued on August 10, 2000 for these emission units. With the exception of Emission Unit 005, all emission units were existing sources under the Department's Rules in 62-212.500 for PSD Review. Emission Unit 005 received a construction permit in December 1995 as a minor source since emissions were less than the PSD significant emission rates.

2.2 CURRENT FACILITY INFORMATION AND PROPOSED CHANGES

2.2.1 EXISTING JUICE EXTRACTORS

The Fort Pierce Plant currently has 50 juice extractors. Each extractor has a potential rating of 125 boxes per hour. The operation of the extractors is dependent on the available fruit and varies over the season. The season is typically from early November through June.

2.2.2 PROCESS STEAM GENERATOR NOS. 1 AND 2

Process Steam Boiler Nos. 1 and 2 have a maximum heat input capacity of 63.4 mmBtu/hr and are authorized to burn natural gas and 2-percent No. 6 fuel oil. Each boiler is

authorized to operate up to 8,760 hr/yr. The primary fuel is natural gas with fuel oil used as backup.

The proposed project of adding extractors to the plant will not require modification of the existing boiler permit limits and restrictions.

2.2.3 CITRUS FEED MILL: PEEL DRYERS AND WASTE HEAT EVAPORATORS

The peel dryers are rated at a maximum process input rate of 50 tons/hour (100,000 lb/hr) of wet peel with a maximum heat input rate of 84.0 mmBtu/hr. The maximum wet peel input rate of 50 tons/hr has an associated maximum production of dry peel product rate of 20 tons/hr. Actual wet peel and dry peel rates vary based on the moisture content of the wet peel, as well as the moisture of the dried peel product.

The fuels authorized for use in the dryers are natural gas and 2-percent sulfur No. 6 fuel oil. The fuel is natural gas and fuel oil. The exhaust gases from the peel dryers exit through waste heat evaporators, which limit, PM emissions. The peel dryers are authorized to operate up to 8,760 hr/yr.

2.2.4 PEEL COOLERS AND PELLET MILLS

The pellet mill consists of two pellet mills and coolers. The maximum permitted process rate through the pellet mills is 40 tons/hr of dry peel, the total for both mills and coolers. This capacity matches the dry peel output from the dryers. Emissions are controlled with a baghouse. The total maximum operating hours authorized for the pellet mills are 8,760 hr/yr.

2.2.5 STEAM PACKAGE BOILER

The steam package boiler, rated at 17 mmBtu/hr, began operation in 1996 and is authorized to burn only natural gas as fuel. This boiler is allowed to operate 8,760 hr/yr.

2.2.6 INSIGNIFICANT EMISSION UNITS AND ACTIVITIES

The Fort Pierce Plant maintains other facilities, emission units, and pollutant-emitting activities that are considered insignificant under the Department's Rule 62-213.430(6).

These activities include various tanks and operations such as maintenance, wastewater treatment, ammonia refrigeration, packaging, etc.

2.2.7 THE PROJECT

Tropicana is proposing to add additional fruit processing capability to the facility by the addition of five extractors to the existing five extractor lines for the 2000 to 2001 season and 11 extractors for the 2001 to 2002 season. Each extractor has a maximum rating of 125 boxes per hour.

2.3 FACILITY PRODUCTION AND PROJECT EMISSIONS

2.3.1 ACTUAL FACILITY PRODUCTION

In the last decade, the citrus industry has changed in Florida. Some citrus facilities have stopped operation and the availability of fruit has moved from central Florida to farther south. This has been reflected in processing for fruit at Tropicana's Fort Pierce Plant, which is shown in Table 2-1 for the last four fruit seasons. In the last fruit season (1999 to 2000), nearly 20 million boxes of fruit were processed over a 35-week period. Due to the industry changes, the 1999 to 2000 season is used as the basis of the actual emissions from the facility for PSD purposes.

2.3.2 FUTURE POTENTIAL FACILITY PRODUCTION

The future potential production of the Fort Pierce Plant was based on the capacity of the peel dryers. Each peel dryer has a potential capacity of processing peel from 75,000 boxes of fruit per day. For both dryers the capacity is 1,050,000 boxes for a 7-day week. This limits the potential capacity of the plant over a 255 day season to 38,250,000 boxes per year when operating 24 hours per day and 7 days per week.

Table 2-2 presents the actual and potential facility production. The short-term capacity of the dryers does not change as shown in the table. The addition of the extractors will allow more fruit processed and, thus, allow more utilization of the dryer capacity. The maximum potential increase in production is 18,398,677 boxes of fruit based on dryer capacity.

2.3.3 ACTUAL AND POTENTIAL EMISSIONS

The actual emission from the Fort Pierce Plant were determined for the 1999 to 2000 production capacity based on information presented in 1999 Annual Operating Reports, stack test data, U.S. Environmental Protection Agency (EPA) AP-42 Emission Factors, and the Florida Citrus Processors Association (FCPA) data on citrus oil in fruit.

Table 2-3 presents the actual and potential citrus oil calculated from the total boxes of fruit, the FCPA citrus oil factors, and an assumption of fruit types processed. The amount of grapefruit was based on data from the 1999 to 2000 season. Information on early-mids and Valencia amount was based on typical industry estimates. Due to the lack of actual emissions data for the 1999 to 2000 season from the main source of VOCs (i.e., peel dryers) and the lack of detailed data on the amount of oil recovered, the total amount of oil is used as the basis for determining PSD applicability. The production increase in oil is 4,528.5 tons/yr.

The actual and potential emissions from the two peel dryers are presented in Table 2-4. The actual and potential emissions from the dryers are based on the pound per hour emission rate times the full-load hours determined from the production data. This established the production rate of the amount of peel processed in each case. The full-load dryer operation for the 1999 to 2000 season was calculated to be 3,176.2 hours based on 19;851,323 boxes of fruit processed. The potential operation was based on the maximum dryer capacity over 255 days (6,120 hours), which is equivalent to processing 38,250,000 boxes of fruit.

For PM, the actual emissions are based on the last 2 years (1998 and 1999) of test data from both dryers. The average PM emissions from both dryers were 5.3 lb/hr (Dryer No. 1 – 5.3 lb/hr and 3.51 lb/hr; Dryer No. 2 – 4.46 and 7.82 lb/hr). The actual and potential emission for CO was based on the stack test performed at the Fort Pierce Plant during the study to determine the FCPA citrus plant emission factors for VOCs and CO. Actual emissions of NO_x and SO_2 were based on firing natural gas since oil is used as backup and was not used in 1999-2000. AP-42 Emission Factors were used to estimate emissions of NO_x and the sulfur content of gas was based on 1 grain per 100 cubic feet

(ft^3) of gas. The potential emissions were based on firing with natural gas for 3,240 hours/season and 1.5-percent sulfur oil for 2,880 hours/season (equivalent to 120 days). This produces a very conservative estimate of future SO_2 emissions since oil is not a primary fuel and the peel dryer reduces SO_2 emissions.

The production capacity of the pellet mills matches the production output from the peel dryers of 20 tons/hour/dryer or 40 tons/hr. The actual and potential emissions from the pellet mills were based on the same amount of full-load operation as the dryers. The emission from the pellet mills is controlled by a baghouse. Information supplied with the Title V Permit application indicates PM emissions of less than 1 lb/hr. There is no test information for this emission unit. Since the discharge from the baghouse is horizontal, an emission rate of 10 lb/hr is requested for this emission unit. Currently, the Rule 62-296.310(4)(a), which is the Process Weight Table, applies to this emission unit. The maximum emission rate based on 40 tons/hr is 31.23 lb/hr. Table 2-5 presents the actual and potential emissions for the pellet mills.

The actual and potential production information for the two steam boilers and the package boiler is presented in Table 2-6. The amount of heat input for the 1999 to 2000 season was based on the amount of energy (i.e., mmBtu) required to process a box of fruit. The 1999 Annual Operating Report (AOR) data for heat input (255,918 mmBtu) and the 1999 production data (i.e., 14,744,536 boxes) were used to calculate the amount of energy from the boilers per box of fruit (i.e., 0.0174 mmBtu/box). This factor was used to calculate the actual heat input for the 1999 to 2000 production. The potential heat input for the boilers were based on 8,760 hours per year operation. Future potential operation on fuel oil is based on 120 days using 1.5-percent sulfur oil in steam boilers Nos. 1 and 2 (Emission Units 002 and 003). The package boiler only fires natural gas. The actual and potential emissions from the boilers are presented in Table 2-7. AP-42 Emission Factors were used to determine annual and potential emissions.

Table 2-8 summarizes the net emissions increase for the project.

2.4 STACK PARAMETERS AND LOCATIONS

The stack locations and stack parameters for the facility's citrus feed mill dryers pellet mill coolers and three boilers are shown in Tables 2-9 and 2-10 for fuel oil and natural gas firing, respectively. The maximum emission rates for PM, NO_x and SO_2 occur for fuel oil firing. The maximum emission rate for CO is for natural gas firing. These sources are included in the atmospheric dispersion modeling analysis presented in Sections 6.0 and 7.0. Figure 2-1 presents a plot plan of the facility.

Table 2-1. Fruit Processing Tropicana Products, Inc. Fort Pierce Plant

Statistic	Fruit Season			
	1999-2000	1998-1999	1997-1998	1996-1997
Total Number of Boxes	19,851,323	12,683,435	15,829,764	14,473,848
Maximum Number of Boxes	725,632	623,294	629,346	564,157
Processing Period (weeks)	35	30	33	34
Average Number of Boxes	567,181	422,781	479,690	425,701
Median Number of Boxes	591,920	445,759	520,992	455,988
90^{th} Percentile (Boxes)	686,937	632,459	651,053	569,726
Calendar Year 1999 Only	3,267,930	11,476,606		
Total for 1999 Calendar Year	14,744,536			

Source: Tropicana Products, Inc. 2000

Table 2-2. Actual and Potential Production for Tropicana Products, Inc. Fort Pierce Plant

	Units	Actual (1999-2000)	Future Potential	Difference
Peel Dryer Information				
Heat Input	mmBtu/hr/dryer	84	84	
Capacity (wet peel)	tons/hour/dryer	50	50	
Capacity (dried peel)	tons/hour/dryer	20	20	
BDP	tons/hour/dryer	18	18	
BDP	tons/hour	36	36	
Moisture in dried peel		10.0%	10%	
Capacity (fruit)	boxes/day/dryer	75,000	75,000	
Capacity (fruit)	tons/hour/dryer	141	141	
Capacity (fruit)	tons/hour	281	281	
Percent of BDP in fruit		12.80%	12.80%	
Extractor Information	number	50	66	
	boxes/hour	125	125	
	hours/year	5,880	6,120	
Fruit Production	boxes/year	19,851,323	38,250,000	18,398,677
	lb/box	90	90	
	lb/hr	303,847	562,500	
	tons/hour	151.92	281.25	
BDP Information	% of Fruit	12.8%	12.8%	
	tons/hour	19.4	36.0	16.6
	tons/year	114,343.6	220,320.0	105,976.4
Dryer Hours	per dryer	3,176.2	6,120.0	2,943.8

Table 2-3. Actual and Potential Citrus Oil

	Units	Data
Type of Fruit		
Grapefruit	lb/box	85
Early/Mids	lb/box	90
Valencia's	lb/box	90
Oil Available in Fruit[a]		
Grapefruit	lb/ton	6.1
Early/Mids	lb/ton	9.5
Valencia's	lb/ton	13.5
Fruit Types[b]		
Grapefruit	Percent	15%
Early/Mids	Percent	35%
Valencia's	Percent	50%
Oil Available		
Grapefruit	lb/box	0.25925
Early/Mids	lb/box	0.4275
Valencia's	lb/box	0.6075
Actual Oil (19,851,323 boxes)	lb/box	0.49
	tons/year	4,886.0
Potential Oil (38,250,000 boxes)[c]	lb/box	0.55
	tons/year	10,585.7
Difference	tons/year	5,669.7

[a] FCPA fruit oil content

[b] Fruit types based on data for orange and grapefruit; early mids based on typical

[c] Potential oil based on 30% early/mids and 70% Valencia (0.3 x 0.4275 + 0.7 x 0.6075 = 0.55 lb/box)

Table 2-4. Actual and Potential Emissions (PM, CO, NO_x, and SO_2) from Peel Dryers at Tropicana Products, Inc. Fort Pierce Plant

Pollutant	Units	Actual Gas[a]	Future Potential			Difference
			Gas[b]	Oil[c]	Total[d]	
Particulate Matter	lb/hr/dryer	5.3	32.4	32.4		
	lb/hr/plant	10.6	64.7	64.7		
	tons/year	16.8	198.1	198.1	302.98	286.22
Carbon Monoxide	lb/hr/dryer	270.0	270.0	270.0		
	lb/hr/plant	540.0	540.0	540.0		
	tons/year	857.6	1,652.4	777.6	1652.40	794.82
Nitrogen Oxides	NO_x (lb/mmBtu)	0.1	0.1	0.367		
	lb/hr/dryer	8.2	8.2	30.8		
	lb/hr/plant	16.5	16.5	61.6		
	tons/year	26.2	50.4	88.7	115.35	89.19
Sulfur Dioxide	SO_2 (lb/mmBtu)	0.003	0.0	1.5		
	lb/hr/dryer	0.2	0.2	125.9		
	lb/hr/plant	0.5	0.5	251.9		
	tons/year	0.7	1.4	362.7	363.50	362.75

[a] 3,176 full-load hours based on 1999-2000 fruit season; PM based on last two years stack tests; CO based on previous stack tests; NO_x based on gas-firing based on AP-42 Emission Factors (Tables 1.4-1); SO_2 based on using 1 grain/100 scf

[b] 6,120 full-load hours based on 255 days and 24-hours/day; PM based on process weight table; CO based on previous stack tests; NO_x based on gas-firing based on AP-42 Emission Factors (Tables 1.4-1); SO_2 based on using 1 grain/100 scf

[c] 2,880 full-load hours based on 120 days and 24-hours/day; PM based on process weight table; CO based on previous stack tests; NO_x based on oil-firing using AP-42 Emission Factors (Tables 1.3-1); SO_2 based on using 1.5% sulfur No. 5 fuel oil and AP-42 Emission Factors

[d] 2,880 hours oil-firing and 3,240 hours gas-firing

Table 2-5. Maximum Potential Emissions from Peel Coolers/Pellet Mills at Tropicana Products, Inc. Fort Pierce Plant

Pollutant	Units	Actual	Future	Incremental Increase
Particulate Matter	lb/hr	10	10	
	hours/year	3,176.2	6,120.0	
	lb/year	31,762.1	61,200.0	29,437.9
	tons/year	15.9	30.6	14.7

Table 2-6. Heat Input and Fuel Usage for Steam Boilers at Tropicana Products, Inc. Fort Pierce Plant

	Units	Boilers 1&2[a]		Package Boiler[b]
		Natural Gas	Oil	Natural Gas
Heat Input per Boiler	mmBtu/hr/boiler	63.4	63.4	17.0
	Btu/scf or Btu/gal	1,020.0	150,060.0	1,020.0
Fuel Usage per Boiler	scf/hr or gal/hr	62,156.9	422.5	16,666.7
	mmscf/yr or 10^3 gal/yr	544.5	3,701.1	146.0
Fuel Usage (both Boilers 1 & 2)	mmscf or /yr	1,089.0	7,402.2	NA
Actual Heat Input for 1999	mmscf/yr	150.2	0.0	100.7
(based on 1999 AOR)	mmBtu/yr	153,204	0.0	102,714.0
Production for 1999	mmBtu/yr/plant	255,918.0		
	Boxes of Fruit[c]	14,744,536		
	mmBtu/box of fruit[d]	0.0174		
Production for 1999-2000 Season	Boxes of Fruit	19,851,323		
Actual (1999-2000)	mmBtu/yr[e]	344,555	0.0	NA
	mmscf/year	337.8	NA	NA
	10^3 gal/year	NA	0.0	NA
Potential	hours/yr/boiler	8,760	2,880.0	8,760.0
	mmBtu/yr	1,110,768	365,184.0	148,920.0
	mmscf/year	1,089.0		146.0
	10^3 gal/year		2,433.6	

[a] Emission Units Nos. 002 and 003
[b] Emission Unit No. 006
[c] Based on 1999 calendar year
[d] Calculated fuel usage rate based on mmBtu per box of fruit

Table 2-7. Actual and Potential Emissions from Steam Boilers at Tropicana Products, Inc. Fort Pierce Plant

		Actual	Future Potential			
Pollutant	Units	Gas[a]	Gas[b]	Oil[c]	Total[d]	Difference
Particulate Matter:	lb/mmscf or 10^3 gal	1.90	1.90	17.01		
	lb/mmBtu	0.002	0.002	0.113		
	tons/year	0.32	1.17	20.69	21.48	21.16
Carbon Monoxide	lb/mmscf or 10^3 gal	84.00	84.00	5.00		
	lb/mmBtu	0.082	0.082	0.033		
	tons/year	14.19	51.87	6.08	40.90	26.71
Nitrogen Oxides	lb/mmscf or 10^3 gal	100.00	100.00	55.00		
	lb/mmBtu	0.098	0.098	0.367		
	tons/year	16.89	61.75	66.92	108.37	91.48
Sulfur Dioxide	lb/mmscf or 10^3 gal	2.86	2.86	225.00		
	lb/mmBtu	0.003	0.003	1.499		
	tons/year	0.48	1.76	273.78	274.96	274.48
Volatile Organic Compounds	lb/mmscf or 10^3 gal	5.50	5.50	0.28		
	lb/mmBtu	0.005	0.005	0.002		
	tons/year	0.93	3.40	0.34	2.62	1.69

[a] Based on calculated 1999-2000 season fuel usage; gas-firing based on AP-42 Emission Factors (Tables 1.4-1 and 1.4-2); SO_2 based on using 1 grain/100 scf

[b] 8,760 hours; gas-firing based on AP-42 Emission Factors (Tables 1.4-1 and 1.4-2); SO_2 based on using 1 grain/100 scf

[c] 2,880 hours (120 days); oil-firing based on AP-42 Emission Factors (Tables 1.3-1 and 1.3-3) using 1.5% sulfur No. 5 fuel oil

[d] 2,880 hours oil-firing and 5,880 hours gas-firing

Table 2-8. Maximum Potential Emissions Increase for Extractor Addition at Tropicana Products, Inc. Fort Pierce Plant

	Peel Dryers	Pellet Mill	Boilers	Total
Particulate Matter	286.2	14.7	21.16	322.1
Carbon Monoxide	794.8		26.71	821.5
Nitrogen Oxides	89.2		91.48	180.7
Sulfur Dioxide	362.7		274.48	637.2
Volatile Organic Compounds	See Note a	See Note a	1.69	5,701.3

Note a - VOC emissions based on estimate of total oil in fruit and shown in total column.

Table 2-9. Stack Parameters and Oil-Fired Emissions for Tropicana Products, Inc. Fort Pierce Plant (English Units)

Emission Units		Stack Parameters				Emissions (lb/hr) - ~~Natural Gas~~ FUEL OIL			
Description	I.D. Number	Height (ft)	Diameter (ft)	Velocity (ft/sec)	Temperature (°F)	PM	SO_2	NO_x	CO
Dryer No. 1	001	95	3.17	63.30	140	32.37	125.95	30.79	270.00
Dryer No. 2	004	95	3.17	63.30	140	32.37	125.95	30.79	270.00
Boiler No. 1	002	60	2	135.30	592	7.18	95.06	23.24	2.11
Boiler No. 2	003	60	2	135.30	592	7.18	95.06	23.24	2.11
Package Boiler	006	60	2	41.91	450	0.03	0.05	1.67	1.40
Pellet Coolers[a]	007	20	4	26.53	90	10.00	0.00	0.00	0.00

[a] the exhaust from the pellet coolers is horizontal out the side of the citrus feed building.

Table 2-10. Stack Parameters and Natural Gas-Fired Emissions for Tropicana Products, Inc. Fort Pierce Plant (English Units)

Emission Units		Stack Parameters				Emissions (lb/hr) - Natural Gas			
Description	I.D. Number	Height (ft)	Diameter (ft)	Velocity (ft/sec)	Temperature (°F)	PM	SO_2	NO_x	CO
Dryer No. 1	001	95	3.17	63.30	140	32.369	0.235	8.235	270.000
Dryer No. 2	004	95	3.17	63.30	140	32.369	0.235	8.235	270.000
Boiler No. 1	002	60	2	135.30	592	0.118	0.178	6.216	5.221
Boiler No. 2	003	60	2	135.30	592	0.118	0.178	6.216	5.221
Package Boiler	006	60	2	41.91	450	0.032	0.048	1.667	1.400
Pellet Coolers[a]	007	20	4	26.53	90	10.000	0.000	0.000	0.000

[a] the exhaust from the pellet coolers is horizontal out the side of the citrus feed building.

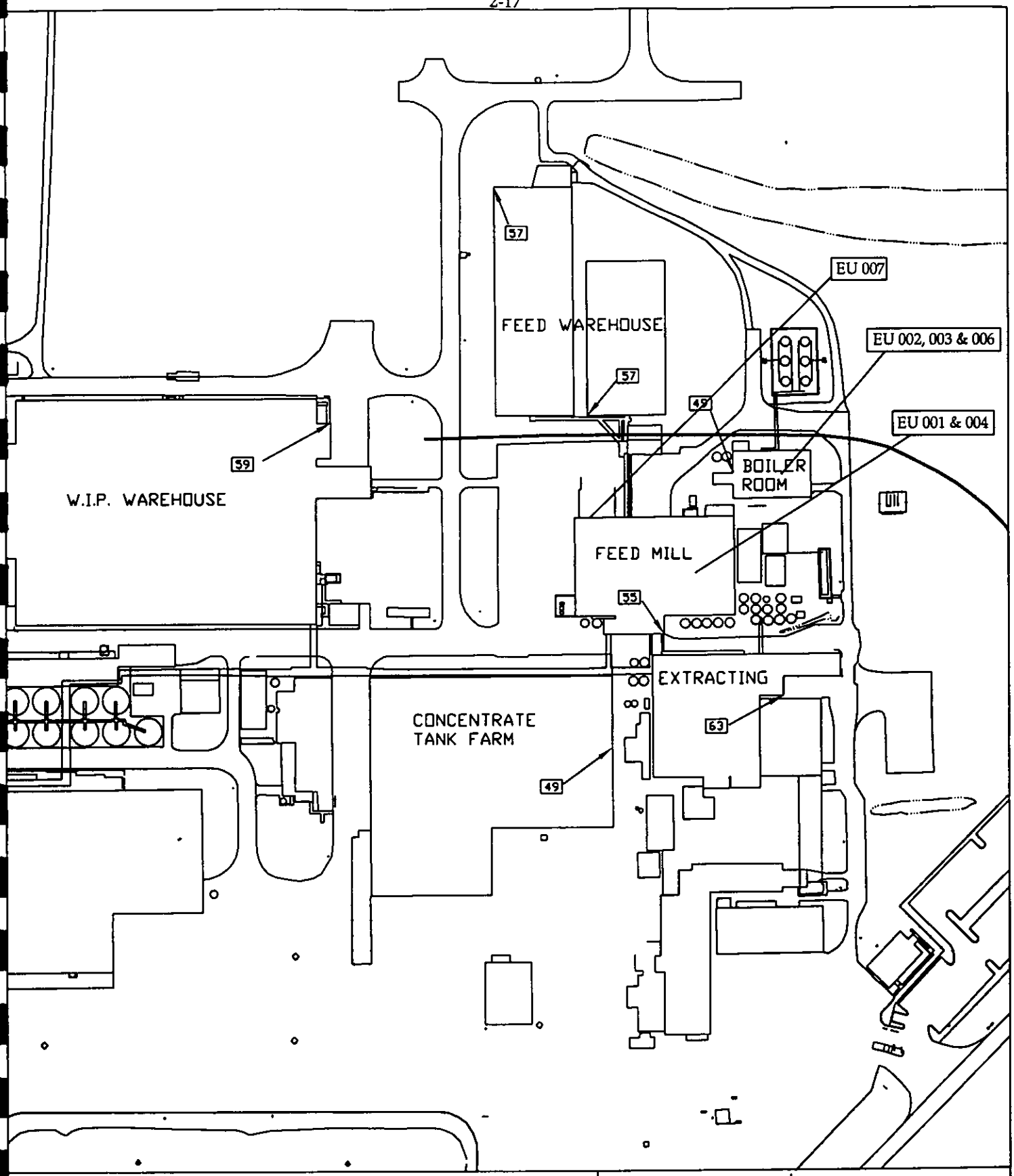

Figure 2-1
Fort Pierce Site Plan
Tropicana Products, Inc.

Note: Emission units identified as EU. Property boundary area shown in Appendix B.

Source: LBFH, Inc. 2000; Golder, 2000.

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Last updated: 10/02/00 by PAC

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3.0 AIR QUALITY REVIEW REQUIREMENTS AND APPLICABILITY

Federal and state air regulatory requirements for a new source of air pollution are discussed in Sections 3.1 through 3.4. The applicability of these regulations to the addition of extractors at Tropicana's Fort Pierce Plant is presented in Section 3.5.

3.1 NATIONAL AND STATE AAQS

The existing applicable national and Florida Ambient Air Quality Standards (AAQS) are presented in Table 3-1. Primary national AAQS were promulgated to protect the public health, and secondary national AAQS were promulgated to protect the public welfare from any known or anticipated adverse effects associated with the presence of pollutants in the ambient air. Areas of the country in violation of AAQS are designated as non-attainment areas, and new sources to be located in or near these areas may be subject to more stringent air permitting requirements.

Florida has adopted state AAQS in Rule 62-204.240. These standards are the same as the national AAQS, except in the case of SO_2. For SO_2, Florida has adopted the former 24-hour secondary standard of 260 $\mu g/m^3$ and former annual average secondary standard of 60 $\mu g/m^3$.

3.2 NATIONAL AND STATE AAQS AND PSD REQUIREMENTS

3.2.1 GENERAL REQUIREMENTS

Under federal and State of Florida PSD review requirements, all major new or modified sources of air pollutants regulated under the Clean Air Act (CAA) must be reviewed and a pre-construction permit issued. Florida's State Implementation Plan (SIP), which contains PSD regulations, has been approved by EPA; therefore, PSD approval authority has been granted to the FDEP.

A "major facility" is defined as any one of 28 named source categories that have the potential to emit 100 TPY or more or any other stationary facility that has the potential to emit 250 TPY or more of any pollutant regulated under CAA. "Potential to emit" means the capability, at maximum design capacity, to emit a pollutant after the application of

control equipment. Once a new source is determined to be a "major facility" for a particular pollutant, any pollutant emitted in amounts greater than the PSD significant emission rates is subject to PSD review. For an existing source for which a modification is proposed, the modification is subject to PSD review if the net increase in emissions due to the modification is greater than the PSD significant emission rates. The PSD significant emission rates are shown in Table 3-2.

EPA has promulgated limits to increases above a specified air quality baseline concentration level for SO_2, PM_{10}, and NO_2 that would constitute "significant deterioration". The EPA class designations and allowable PSD increments are presented in Table 3-1. The magnitude of the allowable increment depends on the classification of the area in which a new source (or modification) will be located or have an impact. Three classifications are designated based on criteria established in the CAA Amendments. Congress promulgated areas as Class I (international parks, national wilderness areas, and memorial parks larger than 5,000 acres, and national parks larger than 6,000 acres) or as Class II (all areas not designated as Class I). No Class III areas, which would be allowed greater deterioration than Class II areas, were designated. The State of Florida has adopted the EPA class designations and allowable PSD increments for SO_2, PM_{10}, and NO_2 increments.

PSD review is used to determine whether significant air quality deterioration will result from the new or modified facility. Federal PSD requirements are contained in 40 CFR 52.21, *Prevention of Significant Deterioration of Air Quality*. The State of Florida has adopted the federal PSD regulations by reference (Rule 62-212.400, F.A.C.). Major facilities and major modifications are required to undergo the following analysis related to PSD for each pollutant emitted in significant amounts:

1. Control technology review,
2. Source impact analysis,
3. Air quality analysis (monitoring),
4. Source information, and
5. Additional impact analyses.

In addition to these analyses, a new facility also must be reviewed with respect to Good Engineering Practice (GEP) stack height regulations. Discussions concerning each of these requirements are presented in the following sections.

3.2.2 CONTROL TECHNOLOGY REVIEW

The control technology review requirements of the federal and state PSD regulations require that all applicable federal and state emission-limiting standards be met, and that the Best Available Control Technology (BACT) be applied to control emissions from the source. The BACT requirements are applicable to all regulated pollutants for which the increase in emissions from the facility exceeds the significant emission rate (see Table 3-2).

BACT is defined in 40 CFR 52.21 (b)(12), as:

> An emissions limitation (including a visible emission standard) based on the maximum degree of reduction of each pollutant subject to regulation under the Act which would be emitted by any proposed major stationary source or major modification which the Administrator, on a case-by-case basis, taking into account energy, environmental, and economic impacts, and other costs, determines is achievable through application of production processes and available methods, systems, and techniques (including fuel cleaning or treatment or innovative fuel combustion techniques) for control of such pollutant. In no event shall application of best available control technology result in emissions of any pollutant, which would exceed the emissions allowed by any applicable standard under 40 CFR Parts 60 and 61. If the Administrator determines that technological or economic limitations on the application of measurement methodology to a particular part of a source or facility would make the imposition of an emission standard infeasible, a design, equipment, work practice, operational standard or combination thereof, may be prescribed instead to satisfy the requirement for the application of BACT. Such standard shall, to the degree possible, set forth the emissions reductions achievable by implementation of such design, equipment, work practice, or operation and shall provide for compliance by means, which achieve equivalent results.

BACT was promulgated within the framework of the PSD requirements in the 1977 amendments of the CAA [Public Law 95-95; Part C, Section 165(a)(4)]. The primary purpose of BACT is to optimize consumption of PSD air quality increments and thereby enlarge the potential for future economic growth without significantly degrading air

quality (EPA, 1978; 1980). Guidelines for the evaluation of BACT can be found in EPA's *Guidelines for Determining Best Available Control Technology (BACT)* (EPA, 1978) and in the *PSD Workshop Manual* (EPA, 1980). These guidelines were promulgated by EPA to provide a consistent approach to BACT and to ensure that the impacts of alternative emission control systems are measured by the same set of parameters. In addition, through implementation of these guidelines, BACT in one area may not be identical to BACT in another area. According to EPA (1980), "BACT analyses for the same types of emissions unit and the same pollutants in different locations or situations may determine that different control strategies should be applied to the different sites, depending on site-specific factors. Therefore, BACT analyses must be conducted on a case-by-case basis."

The BACT requirements are intended to ensure that the control systems incorporated in the design of a proposed facility reflect the latest in control technologies used in a particular industry and take into consideration existing and future air quality in the vicinity of the proposed facility. BACT must, as a minimum, demonstrate compliance with New Source Performance Standards (NSPS) for a source (if applicable). An evaluation of the air pollution control techniques and systems, including a cost-benefit analysis of alternative control technologies capable of achieving a higher degree of emission reduction than the proposed control technology, is required. The cost-benefit analysis requires the documentation of the materials, energy, and economic penalties associated with the proposed and alternative control systems, as well as the environmental benefits derived from these systems. A decision on BACT is to be based on sound judgment, balancing environmental benefits with energy, economic, and other impacts (EPA, 1978).

3.2.3 SOURCE IMPACT ANALYSIS

A source impact analysis must be performed for a proposed major source or major modification subject to PSD review, and for each pollutant for which the increase in emissions exceeds the PSD significant emission rate (Table 3-2). The PSD regulations specifically provide for the use of atmospheric dispersion models in performing impact analyses, estimating baseline and future air quality levels, and determining compliance

with AAQS and allowable PSD increments. Designated EPA models normally must be used in performing the impact analysis. Specific applications for other than EPA-approved models require EPA's consultation and prior approval. Guidance for the use and application of dispersion models is presented in the EPA publication *Guideline on Air Quality Models* (EPA, 1980).

To address compliance with AAQS and PSD Class II increments, a source impact analysis must be performed for the criteria pollutants. However, this analysis is not required for a specific pollutant if the net increase in impacts as a result of the new source or modification is below significant impact levels, as presented in Table 3-1. The significant impact levels are threshold levels that are used to determine the level of air impact analyses needed for the project. If the new or modified source's impacts are predicted to be less than significant, then the source's impacts are assumed not to have a significant adverse affect on air quality and additional modeling with other sources is not required. However, if the source's impacts are predicted to be greater than the significant impact levels, additional modeling with other sources is required to demonstrate compliance AAQS and PSD increments.

EPA has proposed significant impact levels for Class I areas as follows:

•	SO_2	3-hour	1 $\mu g/m^3$
		24-hour	0.2 $\mu g/m^3$
		Annual	0.1 $\mu g/m^3$
•	PM_{10}	24- hour	0.3 $\mu g/m^3$
		Annual	0.2 $\mu g/m^3$
•	NO_2	Annual	0.1 $\mu g/m^3$

Although these levels have not been officially promulgated as part of the PSD review process and may not be binding for states in performing PSD review, the proposed levels serve as a guideline in assessing a source's impact in a Class I area. The EPA action to incorporate Class I significant impact levels in the PSD process is part of implementing NSR provisions of the 1990 CAA Amendments. Because the process of developing the

regulations will be lengthy, EPA believes that the proposed rules concerning the significant impact levels is appropriate in order to assist states in implementing the PSD permit process.

Various lengths of record for meteorological data can be used for impact analysis. A 5-year period is normally used with corresponding evaluation of highest, second-highest short-term concentrations for comparison to AAQS or PSD increments. The meteorological data are selected based on an evaluation of measured weather data from a nearby weather station that represents weather conditions at the project site. The criteria used in this evaluation include determining the distance of the project site to the weather station; comparing topographical and land use features between the locations; and determining availability of necessary weather parameters.

The term "highest, second-highest" (HSH) refers to the highest of the second-highest concentrations at all receptors (i.e., the highest concentration at each receptor is discarded). The second-highest concentration is important because short-term AAQS specify that the standard should not be exceeded at any location more than once a year. If fewer than 5 years of meteorological data are used in the modeling analysis, the highest concentration at each receptor normally must be used for comparison to air quality standards.

The term "baseline concentration" evolves from federal and state PSD regulations and refers to a concentration level corresponding to a specified baseline date and certain additional baseline sources. By definition, in the PSD regulations as amended August 7, 1980, baseline concentration means the ambient concentration level that exists in the baseline area at the time of the applicable baseline date. A baseline concentration is determined for each pollutant for which a baseline date is established and includes:

1. The actual emissions representative of facilities in existence on the applicable baseline date; and
2. The allowable emissions of major stationary facilities that commenced construction before January 6, 1975, for SO_2 and PM(TSP) concentrations, or

February 8, 1988, for NO_2 concentrations, but that were not in operation by the applicable baseline date.

The following emissions are not included in the baseline concentration and therefore affect PSD increment consumption:

1. Actual emissions from any major stationary facility on which construction commenced after January 6, 1975, for SO_2 and PM(TSP) concentrations, and after February 8, 1988, for NO_2 concentrations; and
2. Actual emission increases and decreases at any stationary facility occurring after the baseline date.

In reference to the baseline concentration, the term "baseline date" actually includes three different dates:

- The major facility baseline date, which is January 6, 1975, in the cases of SO_2 and PM(TSP), and February 8, 1988, in the case of NO_2.
- The minor facility baseline date, which is the earliest date after the trigger date on which a major stationary facility or major modification subject to PSD regulations submits a complete PSD application.
- The trigger date, which is August 7, 1977, for SO_2 and PM(TSP), and February 8, 1988, for NO_2.

3.2.4 AIR QUALITY MONITORING REQUIREMENTS

In accordance with requirements of 40 CFR 52.21(m), any application for a PSD permit must contain an analysis of continuous ambient air quality data in the area affected by the proposed major stationary facility or major modification. For a new major facility, the affected pollutants are those that the facility potentially would emit in significant amounts. For a major modification, the pollutants are those for which the net emissions increase exceeds the significant emission rate (see Table 3-2).

Ambient air monitoring for a period of up to 1 year generally is appropriate to satisfy the PSD monitoring requirements. A minimum of 4 months of data is required. Existing

data from the vicinity of the proposed source may be used if the data meet certain quality assurance requirements; otherwise, additional data may need to be gathered. Guidance in designing a PSD monitoring network is provided in EPA's *Ambient Monitoring Guidelines for Prevention of Significant Deterioration* (EPA, 1987a).

The regulations include an exemption that excludes or limits the pollutants for which an air quality analysis must be conducted. This exemption states that a proposed major stationary facility or major modification is exempt from the monitoring requirements with respect to a particular pollutant, if the emissions increase of the pollutant from the facility or modification would cause, in any area, air quality impacts less than the *de minimis* levels presented in Table 3-2.

3.2.5 SOURCE INFORMATION/GOOD ENGINEERING PRACTICE STACK HEIGHT

Source information must be provided to adequately describe the proposed project. The general type of information required for this project is presented in Section 2.0.

The 1977 CAA Amendments require that the degree of emission limitation required for control of any pollutant not be affected by a stack height that exceeds GEP or any other dispersion technique. On July 8, 1985, EPA promulgated final stack height regulations (EPA, 1985a). The Florida DEP has adopted identical regulations (Rule 62-210.550, F.A.C.). GEP stack height is defined as the highest of:

1. 65 meters (m); or
2. A height established by applying the formula:

   $Hg = H + 1.5L$

   where: Hg = GEP stack height,

   H = Height of the structure or nearby structure, and

   L = Lesser dimension (height or projected width) of nearby structure(s); or

A height demonstrated by a fluid model or field study.

"Nearby" is defined as a distance up to 5 times the lesser of the height or width dimensions of a structure or terrain feature, but not greater than 0.8 km. Although GEP stack height regulations require that the stack height used in modeling for determining compliance with AAQS and PSD increments not exceed the GEP stack height, the actual stack height may be greater.

The stack height regulations also allow increased GEP stack height beyond that resulting from the above formula in cases where plume impaction occurs. Plume impaction is defined as concentrations measured or predicted to occur when the plume interacts with elevated terrain. Elevated terrain is defined as terrain that exceeds the height calculated by the GEP stack height formula.

3.2.6 ADDITIONAL IMPACT ANALYSIS

In addition to air quality impact analyses, federal and State of Florida PSD regulations require analyses of the impairment to visibility and the impacts on soils and vegetation that would occur as a result of the proposed source [40 CFR 52.21(o); Rule 62-212.400]. These analyses are to be conducted primarily for PSD Class I areas. Impacts as a result of general commercial, residential, industrial, and other growth associated with the source also must be addressed. These analyses are required for each pollutant emitted in significant amounts (Table 3-2).

3.3 NON-ATTAINMENT RULES

Based on the current non-attainment provisions, all major new facilities and modifications to existing major facilities located in a non-attainment area must undergo non-attainment review. A new major facility is required to undergo this review if the proposed pieces of equipment have the potential to emit 100 TPY or more of the non-attainment pollutant.

3.4 EMISSION STANDARDS

3.4.1 NEW SOURCE PERFORMANCE STANDARDS

The NSPS are a set of national emission standards that apply to specific categories of new sources. As stated in the CAA Amendments of 1977, these standards "shall reflect the

degree of emission limitation and the percentage reduction achievable through application of the best technological system of continuous emission reduction the Administrator determines has been adequately demonstrated."

3.4.2 FLORIDA RULES

FDEP emission standards apply to several emission units at the Fort Pierce Plant. The citrus peel dryer and pellet coolers are subject to the process weight table regulation contained in Rule 62-296.320(4). This rule limits PM emissions based upon the process input weight rate. This rule also limits visible emissions from these sources to 20 percent opacity.

3.5 PSD APPLICABILITY

3.5.1 AREA CLASSIFICATION

The project site is located in St. Lucie County, which has been designated by EPA and FDEP as an attainment area for all criteria pollutants. St. Lucie County and surrounding counties are designated as PSD Class II areas for SO_2, PM(TSP), and NO_2. The nearest Class I area to the site is the Everglades National Park (ENP), located about 180 km (113 miles) south southwest of the Tropicana Fort Pierce Plant site.

3.5.2 PSD REVIEW

Pollutant Applicability

The addition of extractors is physical change in the Tropicana Fort Pierce facility that would result in an increase in actual emissions of air pollutants regulated under the CAA. As presented in Section 2.3, based upon the estimated future potential emissions for the Tropicana Fort Pierce facility, the proposed extractors additions will increase emissions of PM/PM_{10}, SO_2, NO_x, CO and VOCs. As a result, PSD review is required for each pollutant whose emissions exceed the PSD significant emission rates (see Table 3-1). As shown in Table 3-3, the following pollutant increases exceed the PSD significant emission rates: PM/PM_{10}, SO_2, NO_x, CO, and VOC.

BACT Review

The BACT review requirement is only applicable to the proposed new juice extractors, since no physical change or change in the method of operation will occur for the other emission units at the facility. The rationale for this is described below.

EPA's PSD regulations are codified at 40 CFR 52.21. This rule requires, among other things, that BACT be employed to control emissions from a proposed new source or modification. However, the EPA rules governing control technology review state:

> "A major modification shall apply best available control technology for each pollutant subject to regulation under the Act for which it would result in a significant net emissions increase at the source. This requirement applies to each proposed emissions unit at which a net emissions increase in the pollutant would occur as a result of a physical change or change in the method of operation in the unit." [40 CFR 52.21 (j)(3)].

Therefore, it is clear that BACT does not apply to an emissions unit at which there is no physical change or change in the method of operation. Further, under the federal PSD rules, a change in the method of operation specifically excludes increased operating hours and production rates, unless prohibited by a federally enforceable NSR/PSD air construction permit condition that was established after January 6, 1975. [40 CFR 52.21(b)(2)(iii)].

Historically, the federal PSD rule has consistently been interpreted in this manner by EPA, through guidance memos, applicability determinations, and the PSD workshop manual (draft). The only exception to the application of the rule was a recent determination for a case where a separate emissions unit served as the control device for an emissions unit undergoing a modification (such as pulp digesters subject to PSD, with a lime kiln used to incinerate TRS emissions). In that case, EPA determined that the control device was to be considered as part of the emissions unit. Hence, if the emissions unit required BACT review, then the associated emissions unit serving as the control device was also required to undergo BACT review for those pollutants that would significantly increase as a result of the modification.

The State of Florida PSD rule was promulgated in the early 1980's, after EPA revised the federal PSD rule. The State of Florida's PSD rules state that:

> "The proposed facility or modification shall apply Best Available Control Technology (BACT) for each pollutant subject to pre-construction review requirements as set forth in Rule 62-212.400(2)(f), F.A.C.". (Rule 62-212.400(5)(c)).

Thus, the state rule is not as clear as the federal rule. At the time of adoption of the state rule, there was no intention to be more stringent than the EPA PSD rule. It was intended that the rule be interpreted and applied in the same manner as the federal rule. This is witnessed by the fact that an economic impact statement was not performed by the State of Florida at the time of rule adoption, nor was there review by the Governor and Cabinet, which would have been required if the rule was more stringent than the EPA rule.

FDEP has applied the BACT requirement in conformance with the EPA rule as recently as a 1998 PSD permit (reference Technical Evaluation and Preliminary Determination, Cargill Fertilizer Inc, Permit No. 00570008-026-AC; PSD-FL-251, 1998). A requirement to apply BACT to multiple emissions units, which are not being physically modified could result in severe economic impacts, and would likely stifle economic growth. Companies would find PSD too costly or too risky to undertake, and therefore would not be as likely to undertake expansion projects. Generally, as EPA intended, when an emission unit is physically modified, or undergoes a change in the method of operation, a capital expenditure is associated with the change. This is the appropriate time to require additional capital expenditure for pollution control purposes, and makes it much easier to justify the additional capital and operating costs as part of an expansion project. However, again, if BACT requirements are expanded to other emissions units that have no associated capital expenditure, the cost impact is much greater.

The State of Florida has for nearly 20 years applied its PSD regulations in a manner consistent with EPA PSD regulations, guidance and policy. This has set precedents. A formal rule change and economic impact statement would be required. Absent that,

such an interpretation constitutes non-rule policy and is invalid under Section 120, Florida Statutes.

The state PSD rule states that "The proposed facility or modification shall apply Best Available Control Technology...." The proposed project is not a "proposed facility", since the facility already exists. The project does not include any increase in any applicable permit limit on the existing process equipment. Therefore, the definition of "modification" to determine the meaning of this language must be used. The state's definition of modification at Rule 62-210.200(185) is very similar to the federal definition. Specifically, the state definition excludes increases in operating hours or production rates from the term "modification", unless the increase would be prohibited under any federally enforceable NSR/PSD air construction permit condition established after January 6, 1975. Applying this reading directly to the proposed project, the "modification" would not include the emission units, which are not being physically modified or for which there is no change in the method of operation (i.e., the peel dryer, pellet mills and steam boilers).

As a result, BACT should only be applied to those emission units for which there is an increase in emissions associated with the "modification" -- in this case an increase in production due to a physical change or change in method of operation of those emission units.

Ambient Monitoring

Based on the estimated increase in emissions due to the proposed project, a PSD pre-construction ambient monitoring analysis is required for PM_{10}, SO_2, NO_x, VOC and CO. However, if the increase in impacts of a pollutant is less than the *de minimis* monitoring concentration, then an exemption from the pre-construction ambient monitoring requirement may be granted for that pollutant. In addition, if an acceptable ambient monitoring method for the pollutant has not been established by EPA, monitoring is not required.

Pre-construction ambient monitoring analysis for PM_{10}, SO_2, NO_x, and CO is not required. Rule 62-212.400(5)(e) 1. provides an exemption of the pre-construction analysis if "the emissions of the pollutant from the new facility or the net emissions increase of the pollutant from the modification would not have an impact on any area equal to or greater than that listed in Table 212.400-3, *De Minimis* Ambient Impacts". There is no short-term increase in emissions of these pollutants from the peel dryers, steam boilers and pellet mills. Thus, the impacts cannot exceed the de minimis ambient impact levels. A pre-construction ambient monitoring analysis is required for ozone, since the potential increase in VOC emissions is greater than 100 TPY. This monitoring analysis is presented in Section 4.0. In addition, since an AAQS analysis is required, monitoring data were developed for determining "background" air quality levels.

GEP Stack Height Analysis

The GEP stack height regulations allow any stack to be at least 65 m [213 feet (ft)] high. All of the stacks at the facility do not exceed the *de minimis* GEP stack height and will not be changed. As a result, the facility stacks do not exceed GEP stack height.

Impact Analyses

For facilities subject to PSD review, an impact analysis is generally required to demonstrate compliance with PSD Increments and AAQS. With the exception of the package boiler (Emission Unit 006), all the other emission units are existing emission units from a PSD perspective. These emission units, which were in operation since the mid-1970s and earlier, are included in the PSD baseline and not increment consuming. The impact analysis performed was to determine compliance with AAQS.

3.6 EMISSION STANDARDS

3.6.1 NEW SOURCE PERFORMANCE STANDARDS

There are no applicable NSPS related to the project.

3.6.2 FLORIDA RULES

The citrus peel dryer and pellet coolers are subject to the process weight table regulation contained in Rule 62-296.320(4). This rule limits PM emissions based upon the process

input weight rate. This rule also limits visible emissions from these sources to 20-percent opacity. The peel dryer and the pellet coolers comply with these limitations.

Table 3-1. National and State AAQS, Allowable PSD Increments, and Significant Impact Levels ($\mu g/m^3$)

Pollutant	Averaging Time	AAQS			PSD Increments		Significant Impact Levels[d]
		National Primary Standard	National Secondary Standard	State of Florida	Class I	Class II	
Particulate Matter[a] (PM_{10})	Annual Arithmetic Mean	50	50	50	4	17	1
	24-Hour Maximum	150[b]	150[b]	150[b]	8	30	5
Sulfur Dioxide	Annual Arithmetic Mean	80	NA	60	2	20	1
	24-Hour Maximum	365[b]	NA	260[b]	5	91	5
	3-Hour Maximum	NA	1,300[b]	1,300[b]	25	512	25
Carbon Monoxide	8-Hour Maximum	10,000[b]	10,000[b]	10,000[b]	NA	NA	500
	1-Hour Maximum	40,000[b]	40,000[b]	40,000[b]	NA	NA	2,000
Nitrogen Dioxide	Annual Arithmetic Mean	100	100	100	2.5	25	1
Ozone[a]	1-Hour Maximum	235[c]	235[c]	235[c]	NA	NA	NA
Lead	Calendar Quarter Arithmetic Mean	1.5	1.5	1.5	NA	NA	NA

Note: Particulate matter (PM_{10}) = particulate matter with aerodynamic diameter less than or equal to 10 micrometers.
NA = Not applicable, i.e., no standard exists.

[a] On July 18, 1997, EPA promulgated revised AAQS for particulate matter and ozone. For particulate matter, $PM_{2.5}$ standards were introduced with a 24-hour standard of 65 $\mu g/m^3$ (3-year average of 98th percentile) and an annual standard of 15 $\mu g/m^3$ (3-year average at community monitors). Implementation of these standards are many years away. The ozone standard was modified to be 0.08 ppm for 8-hour average; achieved when 3-year average of 99th percentile is 0.08 ppm or less. FDEP has not yet adopted these standards.

[b] Short-term maximum concentrations are not to be exceeded more than once per year.

[c] Achieved when the expected number of days per year with concentrations above the standard is fewer than 1.

[d] Maximum concentrations.

Sources: Federal Register, Vol. 43, No. 118, June 19, 1978. 40 CFR 50. 40 CFR 52.21. Rule 62-204, F.A.C.

Table 3-2. PSD Significant Emission Rates and *De Minimis* Monitoring Concentrations

Pollutant	Regulated Under	Significant Emission Rate (TPY)	*De Minimis* Monitoring Concentration ($\mu g/m^3$)
Sulfur Dioxide	NAAQS, NSPS	40	13, 24-hour
Particulate Matter (PM_{10})	NAAQS	15	10, 24-hour
Nitrogen Oxides	NAAQS, NSPS	40	14, annual
Carbon Monoxide	NAAQS, NSPS	100	575, 8-hour
Volatile Organic Compounds (Ozone)	NAAQS, NSPS	40	100 TPY[a]
Lead	NAAQS	0.6	0.1, 3-month
Sulfuric Acid Mist	NSPS	7	NM
Total Fluorides	NSPS	3	0.25, 24-hour
Total Reduced Sulfur	NSPS	10	10, 1-hour
Reduced Sulfur Compounds	NSPS	10	10, 1-hour
Hydrogen Sulfide	NSPS	10	0.2, 1-hour
MWC Organics	NSPS	3.5×10^{-6}	NM
MWC Metals	NSPS	15	NM
MWC Acid Gases	NSPS	040	NM
MSW Landfill Gases	NSPS	50	NM
Mercury	NESHAP	0.1	0.25. 24-hour

Note: Ambient monitoring requirements for any pollutant may be exempted if the impact of the increase in emissions is below *de minimis* monitoring concentrations.

NAAQS = National Ambient Air Quality Standards.
NESHAP = National Emission Standards for Hazardous Air Pollutants.
NM = No ambient measurement method.
NSPS = New Source Performance Standards.
PM_{10} = particulate matter with aerodynamic diameter less than or equal to 10 micrometers.
PSD = prevention of significant deterioration.
TPY = tons per year.
TSP = total suspended particulate matter.
$\mu g\ m^3$ = micrograms per cubic meter.
MWC & MSW = Municipal Waste Combustor & Municipal Solid Waste

[a] No *de minimis* concentration; an increase in VOC emissions of 100 TPY or more will require monitoring analysis for ozone.

Source: F.A.C., Rule 62-212.400, Tables 212.400-2 and 212.400-3.

Table 3-3. Maximum Emissions Due to the Proposed Addition of Extractors for Tropicana Fort Pierce Plant Compared to the PSD Significant Emission Rates

Pollutant	Pollutant Emissions (TPY)		PSD Review
	Potential Emissions from Proposed Facility[a]	Significant Emission Rate	
Sulfur Dioxide	637	40	Yes
Particulate Matter [PM (TSP)]	352	25	Yes
Particulate Matter (PM_{10})	352	15	Yes
Nitrogen Dioxide	181	40	Yes
Carbon Monoxide	822	100	Yes
Volatile Organic Compounds	4,530	40	~~No~~ YES
Lead	NEG	0.6	No
Sulfuric Acid Mist[a]	8.5	7	No
Total Fluorides	NEG	3	No
Total Reduced Sulfur	NEG	10	No
Reduced Sulfur Compounds	NEG	10	No
Hydrogen Sulfide	NEG	10	No
Mercury	NEG	0.1	No
MWC Organics (as 2,3,7,8-TCDD)	NEG	0.0000035	No
MWC Metals (as Be, Cd)	NEG	15	No
MWC Acid Gasser (as HCl)	NEG	40	No

Note: NEG = Negligible.

[a] Based on SO_2 emissions and AP-42 Emission factors for SO_3 (Table 1.3-1).

4.0 AMBIENT MONITORING ANALYSIS

4.1 INTRODUCTION

In accordance with requirements of 40 CFR 52.21(m) and Rule 62-212.400(5)(f), F.A.C., any application for a PSD permit must contain an analysis of continuous ambient air quality data in the area affected by the proposed major stationary facility or major modification. For a new major facility, the affected pollutants are those that the facility potentially would emit in significant amounts. For a major modification, the pollutants are those for which the net emissions increase exceeds the significant emission rate.

Ambient air monitoring for a period of up to 1 year is generally appropriate to satisfy the PSD monitoring requirements. A minimum of 4 months of data is required. Existing data from the vicinity of the proposed source, may be used if the data meet certain quality assurance requirements; otherwise, additional data may need to be gathered. Guidance in designing a PSD monitoring network is provided in EPA's *Ambient Monitoring Guidelines for Prevention of Significant Deterioration* (EPA, 1987).

An exemption from the pre-construction ambient monitoring requirements is also available if certain criteria are met. If the predicted increase in ambient concentrations due to the proposed modification is less than the specified *de minimis* concentration for a particulate pollutant, the modification can be exempted from the pre-construction air monitoring requirements for that pollutant.

As described in Section 3.5.2, there is no increase in the short-term impacts of PM_{10}, SO_2, NO_x, and CO. However, to determine compliance with the AAQS, background concentrations were developed from data available from the FDEP. A pre-construction air monitoring analysis is required for ozone. This analysis is presented in the following sections.

4.2 BACKGROUND CONCENTRATIONS

Background concentrations are necessary to determine total ambient air quality impacts to demonstrate compliance with AAQS. "Background concentrations" are defined as concentrations due to sources other than those specifically included in the modeling

analysis. For all pollutants, background would include other point sources not included in the modeling (i.e., faraway sources or small sources), fugitive emission sources, and natural background sources. Table 4-1 presents the background concentrations used in modeling. The background concentration was the average concentration of the last 2 years for the appropriate averaging times. Each background concentration is discussed in the following subsections.

4.2.1 PM_{10} AMBIENT BACKGROUND CONCENTRATIONS

The FDEP support one ambient PM_{10} monitor in St. Lucie County. The address for this PM_{10} monitor is 6120 SW Glades Cutoff, Fort Pierce and was operated during the last full year (Site ID 12-111-0012). For 1999, the maximum reported 24-hour average PM_{10} concentration was 79 $\mu g/m^3$ and the second maximum was 39 $\mu g/m^3$. The annual average for 1999 was 20 $\mu g/m^3$. For 1998, the second maximum 24-hour average and annual average were 35 and 19 $\mu g/m^3$, respectively. These PM_{10} concentrations are well below the AAQS of 150 $\mu g/m^3$, maximum 24-hour average, and 50 $\mu g/m^3$, annual average at all sites.

For purposes of an ambient PM_{10} background concentration for use in the modeling analysis, the PM_{10} concentrations of 37 $\mu g/m^3$, 2nd high 24-hour average and 20 $\mu g/m^3$, annual average were used for the 24-hour and annual average background PM_{10} concentrations in the air quality impact analysis. All other major point sources of PM within 50 km are also included explicitly in the modeling analysis. Therefore, this monitor would be influenced significantly by point sources and would represent a conservative estimate of actual background concentrations.

4.2.2 SO_2 AMBIENT BACKGROUND CONCENTRATIONS

There are no continuous ambient SO_2 monitors located in the vicinity of Tropicana Fort Pierce Plant. The closest SO_2 monitor is located in Riviera Beach (Site ID 12-099-3004) more than 50 km from Fort Pierce facility.

For 1999, the reported maximum and second maximum 24-hour average SO_2 concentrations were 34 $\mu g/m^3$; the maximum and the second maximum 8-hour average

SO_2 concentrations were 44.5 and 36.7 $\mu g/m^3$, respectively. The annual average for 1999 was 5 $\mu g/m^3$. For 1998, the second maximum 8- and 24-hour average concentrations were 31.4 and 10.5 $\mu g/m^3$, respectively. The annual average for 1998 was 3 $\mu g/m^3$. Theses data indicate that ambient SO_2 concentrations are well below the AAQS of 1,300 $\mu g/m^3$, maximum 3-hour average; 260 $\mu g/m^3$, maximum 24-hour average; and 60 $\mu g/m^3$, annual average for this site. The Riviera Beach monitor is in the vicinity a major electric power plant and, therefore, concentrations are higher than those likely in the vicinity of the Tropicana Fort Pierce Plant.

For purposes of an ambient SO_2 background concentration for use in the modeling analysis, the SO_2 concentrations of 34 $\mu g/m^3$, 2nd high 3-hour average; 22 $\mu g/m^3$, 2nd high 24-hour average; and 4 $\mu g/m^3$, annual average recorded at the Riviera Beach monitor during 1999 were selected. These concentrations were used for the 3-hour, 24-hour, and annual average background SO_2 concentrations in the air quality impact analysis. All other major point sources of SO_2 are also explicitly included in the modeling analysis. Therefore, this monitor would be influenced by point sources included in the modeling and would represent a conservative estimate of actual background concentrations.

4.2.3 CO AMBIENT BACKGROUND CONCENTRATIONS

There are no continuous ambient CO monitors data for monitors located in the vicinity of Tropicana Fort Pierce Plant. The closest CO monitors (2) are located in the more urbanized Palm Beach County, which is more than 50 km from the Fort Pierce facility.

The CO monitors in Palm Beach County show that ambient CO concentrations are well below the AAQS of 35 ppm (40,000 $\mu g/m^3$), maximum 1-hour average and 9 ppm (10,000 $\mu g/ m^3$), maximum 8-hour average.

For purposes of an ambient CO background concentration for use in the modeling analysis, the second highest 1-hour CO concentration of 5.3 ppm (6,038 $\mu g/m^3$) and the second highest 8-hour concentration of 3.1 ppm (3,509 $\mu g/m^3$) recorded at the West Palm

Beach monitor (Site ID 12-099-1006) during 1999 and 1998 was selected. These concentrations are very conservative, since this monitor is impacted by mobile sources.

4.2.4 NO_2 AMBIENT BACKGROUND CONCENTRATIONS

There are no monitors measuring NO_2 in the vicinity of the Tropicana Fort Pierce Plant. The nearest NO_2 monitoring stations were located in West Palm Beach.

The NO_2 monitor in Palm Beach County, located more than 50 km from the Fort Pierce Plant shows that ambient NO_2 concentrations are well below the AAQS of 100 $\mu g/m^3$ annual average.

For purposes of an ambient NO_2 background concentration for use in the modeling analysis, the annual average NO_2 concentration of 24 $\mu g/m^3$, recorded at the West Palm Beach monitor (Site ID 12-099-1004) during 1999 and 1998 was selected. These concentrations are very conservative since this monitor is impacted by mobile sources.

4.3 OZONE MONITORING DATA

The FDEP support one ambient O_3 monitor in St. Lucie County. The address for this O_3 monitor is 101 N. Rock Road, Fort Pierce and was operated during the last full year (Site ID 12-111-1002). For 1999, the maximum and second highest reported 1-hour average O_3 concentrations were 0.083 ppm (163 $\mu g/m^3$). For 1998, the maximum and second-highest reported 1-hour average O_3 concentrations were 0.095 ppm (186 $\mu g/m^3$). The data from the St. Lucie ozone monitor show that ambient O_3 concentrations were below the current AAQS of 0.12 ppm (235 $\mu g/m^3$), maximum 1-hour average allowed to be exceeded on average 1 day per year.

Table 4-1. Background Air Quality Concentrations Used in Air Dispersion Modeling

Polutant	Site ID	Location	Year	Averaging Time and Value	Concentration ($\mu g/m^3$)
PM_{10}	12-111-0012	Fort Pierce	1999	24-hour 2nd High	39
	12-111-0012	Fort Pierce	1998	24-hour 2nd High	35
				Background:	37
	12-111-0012	Fort Pierce	1999	Annual Average	20
	12-111-0012	Fort Pierce	1998	Annual Average	19
				Background:	20
SO_2	12-099-3004	Riveria Beach	1999	3-hour 2nd High	36.7
	12-099-3004	Riveria Beach	1998	3-hour 2nd High	31.4
				Background:	34
	12-099-3004	Riveria Beach	1999	24-hour 2nd High	34
	12-099-3004	Riveria Beach	1998	24-hour 2nd High	10.5
				Background:	22
	12-099-3004	Riveria Beach	1999	Annual Average	5
			1998	Annual Average	3
				Background:	4
CO	12-099-1006	West Palm Beach	1999	1-hour 2nd High	5,980
	12-099-1006	West Palm Beach	1998	1-hour 2nd High	6,095
				Background:	6,038
	12-099-1006	West Palm Beach	1999	8-hour 2nd High	3,565
	12-099-1006	West Palm Beach	1998	8-hour 2nd High	3,450
				Background:	3,508
NO_2	12-99-1004	Palm Beach	1999	Annual Average	24.5
	12-99-1004	Palm Beach	1998	Annual Average	22.6
				Background:	24

Source: FDEP, 1999 and 2000 (EPA Aerometric Information Retieval System, Air Quality Subsystem)

5.0 BACT ANALYSIS

As discussed in Section 3.0, BACT analysis is required for the new juice extractors. The pollutants requiring BACT analysis are PM, PM_{10}, SO_2, VOC, CO, and NO_x. The new juice extractors process raw citrus fruit by removing the peel and extracting the citrus juice within the fruit. The juice and peel are then sent for further processing. The only air pollutant potentially released by the juice extractors is VOC. The magnitude of VOC released, although not quantifiable, is believed to be low. The mechanism of juice removal and subsequent transport provides minimum opportunity for escape to the atmosphere.

The extractor area at the Fort Pierce Plant is a large building with several openings where fugitive emissions could enter the atmosphere. It would be extremely costly to control the small amount of fugitive emissions that are likely emitted. Therefore, VOC controls on the extractor building are not feasible and were not considered further.

As discussed in the regulatory requirements section (Section 3.0), BACT review does not apply to any emissions unit, which is not undergoing a physical change or a change in the method of operation. Although the existing steam boilers, peel dryer, and pellet mills may experience an increase in operating hours as a result of the addition of extractors, with an associated emissions increase, their permitted capacities are sufficient to handle the increased fruit processing capacity. These emissions units will not undergo a physical change or a change in the method of operation, as defined under the PSD regulations. As a result, BACT does not apply to these emissions units.

6.0 AIR QUALITY IMPACT ANALYSIS

6.1 AIR MODELING ANALYSIS APPROACH

An air quality impact analysis of the Tropicana Fort Pierce Plant was conducted for four pollutants for which AAQS have been set: SO_2, NO_2, PM_{10}, and CO. The air quality modeling analysis was performed using the Industrial Source Complex Short-Term (ISCST3) model, Version 98356, currently recommended for regulatory applications, to assess maximum ground-level impacts due to the facility and other sources in the area. The analysis followed EPA and FDEP modeling guidelines for assessing compliance with the AAQS. A PSD Increment Analysis was not performed, since the emission units are existing unit under Florida's PSD Rules and included in the baseline.

The impact analysis used screening and refinement phases to determine the maximum pollutant impacts associated with the facility. The difference between the two modeling phases is the density of the receptor grid spacing used when predicting concentrations. Concentrations are predicted for the screening phase using a coarse (i.e., large spacing) receptor grid and a 5-year meteorological data record. In this analysis, the receptor grid consisted of a polar receptor grid with a 10-degree angular spacing between receptors. To assure receptor grid spacing of less than 100 m, 2-degree angular spacing between receptors are used for property boundary areas that exceed 575 m from the modeling origin.

Refinements of the maximum predicted concentrations from the screening phase are typically performed in the vicinity of the receptors of the screening receptor grid with the highest predicted concentrations occurred over the 5-year period. Generally, if maximum concentrations predicted in another year are within 10 percent of the overall maximum concentration predicted for the 5-year period, then the other concentrations are refined as well. Modeling refinements are performed to determine maximum concentrations with a receptor grid spacing of 100 m or less.

The domain of a refined receptor grid will generally extend to all adjacent screening receptors surrounding a particular screening grid receptor. The air dispersion model is then executed with the refined grid for the entire year of meteorology during which the

maximum concentration occurred in the screening phase. This approach is used to ensure that a valid maximum concentration is obtained.

A more detailed description of the model, along with the emission inventory, meteorological data, and screening receptor grids is presented in the following sections.

6.2 AAQS ANALYSES

In general, when 5 years of meteorological data are used, the highest annual and the highest, second-highest (H2H) short-term concentrations are to be compared to the applicable AAQS. The H2H is calculated for a receptor field by:

1. Eliminating the highest concentration predicted at each receptor,
2. Identifying the second-highest concentration at each receptor, and
3. Selecting the highest concentration among these second-highest concentrations.

This approach is consistent with most air quality standards, which permit a short-term average concentration to be exceeded once per year at each receptor.

For the SO_2 and PM AAQS analysis, the potential emissions of the Fort Pierce Plant are modeled together with other emission sources. Additionally, a non-modeled background concentration is added to the maximum predicted air quality to determine a total air quality concentration. The maximum annual and H2H short-term total concentrations are compared to the AAQS. For the NO_2 and CO air quality analyses, the background concentrations developed to evaluate compliance with AAQS.

6.3 MODEL SELECTION

The ISCST3 dispersion model (Version 99155) was used to evaluate all pollutant impacts. This model is currently available on the EPA's Internet web site, Support Center for Regulatory Air Models (SCRAM), within the Technical Transfer Network (TTN). A listing of ISCST3 model features is presented in Table 6-1. The ISCST3 model is designed to calculate hourly concentrations based on hourly meteorological data (i.e., wind direction, wind speed, atmospheric stability, ambient temperature, and mixing heights). The ISCST3 model is applicable to sources located in either flat or rolling terrain where terrain heights do not exceed stack heights. These areas are referred to as

simple terrain. The model can also be applied in areas where the terrain exceeds the stack heights. These areas are referred to as complex terrain.

Since the terrain surrounding the Fort Pierce Plant is flat, the modeling analysis assumed that all receptors were at the base elevation of the facility (i.e., flat terrain assumption in ISCST3).

In this analysis, the EPA regulatory default options were used to predict all maximum impacts. The ISCST3 model can run in the rural or urban land use mode, which affects stability dispersion coefficients, wind speed profiles, and mixing heights. Land use can be characterized based on a scheme recommended by EPA (Auer, 1978). If more than 50 percent of the land use within a 3-km radius around a project is classified as industrial, commercial, or high-density residential, then the urban option should be selected. Otherwise, the rural option is appropriate. Based on reviews of aerial and U.S. Geological Survey (USGS) topographical maps and a site visit, the land use within a 3-km (1.9-mile) radius of the Fort Pierce Plant is considered to be rural (i.e., very little heavy industrial, light-moderate industrial, commercial, or compact residential land use categories). Therefore, the rural mode was used in the air dispersion model to predict impacts from the facility and other emission sources considered in the modeling analysis.

The ISCST3 model was used to predict maximum pollutant concentrations for averaging the annual and 24-hour, 8-hour, 3-hour, and 1-hour averaging periods. The predicted concentrations were then compared to applicable significant impact levels and the AAQS.

6.4 METEOROLOGICAL DATA

Meteorological data used in the ISCST3 model to determine air quality impacts consisted of a concurrent 5-year period of hourly surface weather observations and twice-daily upper air soundings from the National Weather Service (NWS) offices at the Palm Beach International Airport located in West Palm Beach, Florida. Concentrations were predicted using 5 years of hourly meteorological data from 1987 through 1991. The NWS office in West Palm Beach is the closest primary weather station to the study area with meteorological data representative of the project site.

The surface observations included wind direction, wind speed, temperature, cloud cover, and cloud ceiling height. The wind speed, cloud cover, and cloud ceiling values were used in the ISCST3 meteorological preprocessor program to determine atmospheric stability using the Turner stability scheme. Based on the temperature measurements at morning and afternoon, mixing heights were calculated from the radiosonde data at Fort Myers using the Holzworth approach (Holzworth, 1972). Hourly mixing heights were derived from the morning and afternoon mixing heights using the interpolation method developed by EPA (Holzworth, 1972). The hourly surface data and mixing heights were used to develop a sequential, hourly meteorological data set (i.e., wind direction, wind speed, temperature, stability, and mixing heights). Because the observed hourly wind directions at the NWS station is classified into one of thirty-six 10-degree sectors, the wind directions were randomized within each sector to account for the expected variability in air flow. These calculations were performed using the EPA RAMMET meteorological preprocessor program.

6.5 EMISSION INVENTORY

6.5.1 FORT PIERCE PLANT

Current and future short-term and annual emissions used in the modeling for SGCPC are presented in Table 6-2 and 6-3 for fuel-oil firing and natural gas firing, respectively. The maximum emissions occur for PM_{10}, SO_2 and NO_x when fuel oil is fired, and these rates were used in the input analysis to demonstrate compliance with AAQS. The maximum emissions for CO occur with natural gas firing, and these rates were used in the AAQS analysis.

6.5.2 OTHER EMISSION SOURCES

The emission inventories for other facilities were developed mainly from databases from previous air modeling studies performed by Golder Associates. For the SO_2 and PM AAQS analysis, major sources located within about 200 km were evaluated for inclusion in the model runs.

Sulfur Dioxide

A summary of all SO_2 emitting facilities located within about 200 km of the Fort Pierce Plant is presented in Table 6-4. This table shows the locations with respect to the Fort Pierce Plant and maximum emissions. Using the North Carolina Screening Method, significant sources within about 100 km, were included in the AAQS air modeling analyses. The individual source emissions, stack, and operating parameters for the AAQS modeling analyses were developed and are presented in Table 6-5.

Particulate Matter

A summary of all PM_{10} emitting facilities located within about 200 km of the Fort Pierce Plant locations with respect to the Fort Pierce Plant, and their PM emissions are provided in Table 6-6. Using the North Carolina Screening Method, all major sources within about 100 km were included in the AAQS modeling analysis. The individual source emissions, stack, and operating parameters for the AAQS modeling analyses were developed and are presented in Table 6-7.

6.6 BUILDING DOWNWASH EFFECTS FOR THE FORT PIERCE PLANT

Based on the building dimensions associated with buildings and structures at the facility, all stacks at the facility will comply with the GEP stack height regulations. However, these stacks are less than GEP height. Therefore, the potential for building downwash to occur was considered in the air modeling analysis for these stacks.

Generally, a stack is considered to be within the influence of a building if it is within the lesser of 5 times L, where L is the lesser dimension of the building height or projected width. The ISCST3 model uses two procedures to address the effects of building downwash. For both methods, the direction-specific building dimensions are input for H_b and l_b for 36 radial directions, with each direction representing a 10-degree sector. The H_b is the building height and l_b is the lesser of the building height or projected width. For short stacks (i.e., physical stack height is less than $H_b + 0.5\ l_b$), the Schulman and Scire (1980) method is used. The features of the Schulman and Scire method are as follows:

1. Reduced plume rise as a result of initial plume dilution,

2. Enhanced plume spread as a linear function of the effective plume height, and
3. Specified of building dimensions as a function of wind direction.

For cases where the physical stack height is greater than $H_b + 0.5\, l_b$, but less than GEP, the Huber-Snyder (1976) method is used. Both downwash algorithms affect stacks that are within the influence of a building, without regard for the actual distance the stack or stack's plume is from the building during any given moment.

The building dimensions considered in the air modeling analysis for the Fort Pierce Plant are presented in Table 6-8. The location of the buildings and stacks can be found on the site plot plan (Figure 2-1). At the facility, several stacks are influenced by one or more buildings. For the modeling analysis, direction-specific building dimensions are input for H_b and l_b for 36 radial directions, with each direction representing a 10-degree sector. All direction-specific building parameters were calculated with the Building Profile Input Program (BPIP), Version 95086. The BPIP program was used to generate building data for the ISCST3 model input. A detailed listing of direction-specific building data used in the air modeling analysis is provided in Appendix B.

6.8 RECEPTOR LOCATIONS

For predicting maximum concentrations in the vicinity of the Fort Pierce Plant, an array of discrete and polar receptors were used. The number of discrete receptors was 49; all of these receptors are located along the property line of the facility. Property line receptors are all 100 m or less between receptors. A summary of the boundary receptors at Fort Pierce Plant is presented in Table 6-9.

Modeling refinements were performed, as needed, by employing a polar receptor grid with a maximum spacing of 100 m along each radial and an angular spacing between radials of 2 degrees. At a distance of less than 575 m, the angular distance between receptors is 100 m or less and additional refinements may not be performed. At distances of 600 m and beyond, modeling refinements are performed by employing an angular spacing between radials of 2 degrees and a spacing interval along radials of 100 m.

6.9 BACKGROUND CONCENTRATIONS

Total air quality impacts were predicted for the AAQS analysis by adding the maximum annual and HSH short-term concentrations due to all modeled sources to estimated background concentrations. Background concentrations are concentrations due to sources not explicitly included in the modeling analysis. These concentrations consist of two components: 1) Impacts due to other non-modeled emission sources (i.e., point sources not explicitly included in the modeling inventory), and 2) Natural and fugitive emission sources. The background concentrations used in the modeling analysis are presented in Table 4-1.

Table 6-1. Major Features of the ISCST3 Model

ISCST3 Model Features
• Polar or Cartesian coordinate systems for receptor locations
• Rural or one of three urban options which affect wind speed profile exponent, dispersion rates, and mixing height calculations
• Plume rise due to momentum and buoyancy as a function of downwind distance for stack emissions (Briggs, 1969, 1971, 1972, and 1975; Bowers, et al., 1979).
• Procedures suggested by Huber and Snyder (1976); Huber (1977); and Schulman and Scire (1980) for evaluating building wake effects
• Procedures suggested by Briggs (1974) for evaluating stack-tip downwash
• Separation of multiple emission sources
• Consideration of the effects of gravitational settling and dry deposition on ambient particulate concentrations
• Capability of simulating point, line, volume, area, and open pit sources
• Capability to calculate dry and wet deposition, including both gaseous and particulate precipitation scavenging for wet deposition
• Variation of wind speed with height (wind speed-profile exponent law)
• Concentration estimates for 1-hour to annual average times
• Terrain-adjustment procedures for elevated terrain including a terrain truncation algorithm for ISCST3; a built-in algorithm for predicting concentrations in complex terrain
• Consideration of time-dependent exponential decay of pollutants
• The method of Pasquill (1976) to account for buoyancy-induced dispersion
• A regulatory default option to set various model options and parameters to EPA recommended values (see text for regulatory options used)
• Procedure for calm-wind processing including setting wind speeds less than 1 m/s to 1 m/s.

Note: ISCST3 = Industrial Source Complex Short-Term.
Source: EPA, 1998.

Table 6-2. Stack Parameters and Oil-Fired Emissions for Tropicana Products, Inc. Fort Pierce Plant (CGS Units)

Emission Units Description	I.D. Number	Stack Parameters				Emissions (grams/sec) - Natural Gas			
		Height (m)	Diameter (m)	Velocity (m/sec)	Temperature (K)	PM	SO_2	NO_x	CO
Dryer No. 1	001	28.96	0.97	19.29	333.20	4.08	15.87	3.88	34.02
Dryer No. 2	004	28.96	0.97	19.29	333.20	4.08	15.87	3.88	34.02
Boiler No. 1	002	18.29	0.61	41.24	584.31	0.91	11.98	2.93	0.27
Boiler No. 2	003	18.29	0.61	41.24	584.31	0.91	11.98	2.93	0.27
Package Boiler	006	18.29	0.61	12.77	505.42	0.004	0.01	0.21	0.18
Pellet Coolers[a]	007	6.10	1.22	8.09	305.42	1.26	0.00	0.00	0.00

[a] the exhaust from the pellet coolers is horizontal out the side of the citrus feed building.

Table 6-3. Stack Parameters and Natural Gas-Fired Emissions for Tropicana Products, Inc. Fort Pierce Plant (CGS Units)

Emission Units Description	I.D. Number	Stack Parameters				Emissions (grams/sec) - Natural Gas			
		Height (m)	Diameter (m)	Velocity (m/sec)	Temperature (K)	PM	SO_2	NO_x	CO
Dryer No. 1	001	28.96	0.97	19.29	333.20	4.08	0.03	1.04	34.02
Dryer No. 2	004	28.96	0.97	19.29	333.20	4.08	0.03	1.04	34.02
Boiler No. 1	002	18.29	0.61	41.24	584.31	0.01	0.02	0.78	0.66
Boiler No. 2	003	18.29	0.61	41.24	584.31	0.01	0.02	0.78	0.66
Package Boiler	006	18.29	0.61	12.77	505.42	0.00	0.01	0.21	0.18
Pellet Coolers[a]	007	6.10	1.22	8.09	305.42	1.26	0.00	0.00	0.00

[a] the exhaust from the pellet coolers is horizontal out the side of the citrus feed building.

Table 6-4. Summary of all SO_2 Facilities Considered for Inclusion in the AAQS Air Modeling Analyses for Tropicana Products, Inc. Fort Pierce Plant

Plant ID	Facility Name	UTM Coordinates North (km)	UTM Coordinates East (km)	Relative Location[a] X (km)	Relative Location[a] Y (km)	Distance (km)	Direction (deg.)	Maximum SO_2 Emissions (TPY)	(20 * Distance) (km)	Included in AAQS?[b]
7775058	TRS CONCRETE RECYCLING	3028.31	557.55	-2.06	-0.01	2.1	270	1.2	41	No
1110040	RANGER/FT PIERCE/PLNT#129	3030.17	561.67	2.06	1.85	2.8	48	222.3726	55	Yes
1110060	FLORIDA GAS TRANSMISSION/ST LUCIE/STA 20	3035.78	557.24	-2.37	7.46	7.8	342	10.56	157	No
1110046	ATLANTIC COAST RECYCLING	3036.52	562.72	3.11	8.2	8.8	21	7.67	175	No
1110003	FT PIERCE UTIL/H D KING PWR PLNT	3036.35	566.12	6.51	8.03	10.3	39	1650.62	207	Yes
1110071	FPL ST LUCIE NUCLEAR PLANT	3025.01	573.86	14.25	-3.31	14.6	103	3.464	293	No
0610015	COUNTY LANDFILL	3050.6	550.5	-9.11	22.28	24.1	338	2.1	481	No
0850015	AYCOCK FUNERAL HOME	3008.4	573.5	13.89	-19.92	24.3	145	1.752	486	No
0610080	AMERICAN POWER TECH	3051.11	550.71	-8.9	22.79	24.5	339	8.54	489	No
0850006	MARTIN MEMORIAL HEALTH SYSTEMS	3008.67	574.23	14.62	-19.65	24.5	143	56.6	490	No
0610021	OCEAN SPRAY CRANBERRIES/VERO BEACH	3051.29	550.62	-8.99	22.97	24.7	339	197.66	493	No
0610016	VERO BEACH CITRUS PACKERS	3054.2	560.6	0.99	25.88	25.9	2	3.12	518	No
0610029	CITY OF VERO BEACH MUNICIPAL UTILITIES[f]	3056.5	561.4	1.79	28.18	28.2	4	11,832	565	Yes
0850129	AMERICAN POWER TECH/INDIANTOWN	2990.81	549.06	-10.55	-37.51	39.0	196	5.74	779	No
0850102	INDIANTOWN COGENERATION PLANT	2990.7	547.65	-11.96	-37.62	39.5	198	2558	790	Yes
0850001	FPL MARTIN POWER PLANT[c]	2992.65	542.68	-16.93	-35.67	39.5	205	68467.6	790	Yes
0930001	OKEECHOBEE ASPHALT/ASPHALT PLANT	3014.21	516.09	-43.52	-14.11	45.8	252	104.7	915	No
0990213	JUPITER MULCH, INC.	2980.11	573.09	13.48	-48.21	50.1	164	2.55	1001	No
0990021	PRATT & WHITNEY AIRCRAFT	2975	567.5	7.89	-53.32	53.9	172	570.691	1078	No
0990019	OSCEOLA FARMS	2968	544.2	-15.41	-60.32	62.3	194	640.3	1245	No
0990331	OSCEOLA COGENERATION PLANT	2968	544.02	-15.59	-60.32	62.3	194	339	1246	No
0990061	U.S. SUGAR CORP. BRYANT MILL	2969.12	537.83	-21.78	-59.2	63.1	200	2007.34	1262	Yes
0990304	VETERANS AFFAIRS MEDICAL CENTER	2963	588	28.39	-65.32	71.2	157	1.251	1424	No
0990234	SOLID WASTE AUTH OF PBC/NO CO RRF	2961.26	584.49	24.88	-67.06	71.5	160	306.53	1431	No
0990344	PARKWAY ASPHALT (RIVIERA)	2962.1	588.5	28.89	-66.22	72.2	156	43.26	1445	No
0990566	INDIAN TRAIL IMPROVEMENT DISTRICT - ACI	2956.16	564.69	5.08	-72.16	72.3	176	1.11	1447	No
0990530	EAST COAST PAVING - LOXAHATCHEE PLANT	2955.56	562.14	2.53	-72.76	72.8	178	47.64	1456	No
0990123	PHYSICAL DISTRIBUTION CENTER & OSF	2961.2	589.7	30.09	-67.12	73.6	156	90	1471	No
0990333	FGT STATION NO. 21 (WPB)	2957.07	584.36	24.75	-71.25	75.4	161	17.24	1509	No
0990042	RIVIERA POWER PLANT	2960.63	594.25	34.64	-67.69	76.0	153	73474.5	1521	Yes
0990325	ROYAL PALM MEMORIAL GARDENS, INC.	2960.2	593.4	33.79	-68.12	76.0	154	1.752	1521	No
0990305	NORTHWOOD FUNERAL HOME	2960.1	593.8	34.19	-68.22	76.3	153	2.6	1526	No
0990529	PALM BEACH WOOD PRODUCTS INC.	2952.09	563.53	3.92	-76.23	76.3	177	10	1527	No
0990349	SFWMD PUMP STATION #S-5A	2951.32	562.55	2.94	-77	77.1	178	17.458	1541	No
0990026	SUGAR CANE GROWERS CO-Op[d]	2953.3	534.9	-24.71	-75.02	79.0	198	5023.75	1580	Yes

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Plant ID	Facility Name	UTM Coordinates North (km)	UTM Coordinates East (km)	Relative Location[a] X (km)	Relative Location[a] Y (km)	Distance (km)	Direction (deg.)	Maximum SO_2 Emissions (TPY)	(20 * Distance) (km)	Included in AAQS?[b]
0990583	MAGNUM ENV. SERVICES, INC. - WPB	2952	580.2	20.59	-76.32	79.0	165	90	1581	No
0990087	WEST PALM PLANT	2951.7	579.9	20.29	-76.62	79.3	165	94.14	1585	No
0990233	MARKS LANDSCAPING & PAVING	2952.3	582.1	22.49	-76.02	79.3	164	5	1586	No
0990522	PALM BEACH TRANSFER & RECYCLING, INC.	2951.47	583.73	24.12	-76.85	80.5	163	9.1	1611	No
0990310	COMMUNITY ASPHALT (WPB)	2950.8	582.3	22.69	-77.52	80.8	164	136.6	1615	No
0990086	GLADES CORRECTIONAL INSTITUTION	2955.3	523.4	-36.21	-73.02	81.5	206	98.18	1630	No
0990016	ATLANTIC SUGAR MILL	2945.21	552.37	-7.24	-83.11	83.4	185	626.2	1668	No
0990549	SFWMD STATION NO. G-310	2940.45	554.2	-5.41	-87.87	88.0	184	3.12	1761	No
0510003	U.S. SUGAR CLEWISTON MILL AND REFINERY	2956.88	506.1	-53.51	-71.44	89.3	217	7806	1785	Yes
0510001	EVERGLADES SUGAR REFINERY	2953.97	509.49	-50.12	-74.35	89.7	214	1252.268	1793	No
0990045	T G SMITH PLANT	2943.7	592.8	33.19	-84.62	90.9	159	10568.4	1818	Yes
0990568	LWG PLANT	2943.7	592.8	33.19	-84.62	90.9	159	70.3	1818	No
7770060	AJAX PAVING IND., INC.	2967.9	488.9	-70.71	-60.42	93.0	229	35.4	1860	No
0430008	SOUTH FLORIDA THERMAL SERVICES, INC.	2966.6	489.2	-70.41	-61.72	93.6	229	46.68	1873	No
0990322	TREASURE COAST CREMATORY	2941	594	34.39	-87.32	93.8	159	5.256	1877	No
0550005	GEORGIA PACIFIC CORP	3009.23	466.98	-92.63	-19.09	94.6	258	59.2	1892	No
0990005	OKEELANTA CORP[c]	2940.1	524.9	-34.71	-88.22	94.8	201	6797.5	1896	Yes
0990332	OKEELANTA COGENERATION PLANT[c]	2940.01	524.09	-35.52	-88.31	95.2	202	3203.4	1904	Yes
0550018	PHILLIPS STATION	3035.4	464.3	-95.31	7.08	95.6	274	4045.8	1911	Yes
0550014	BETTER ROADS OF LAKE PLACID	3008.7	465.6	-94.01	-19.62	96.0	258	53.6	1921	No
0990561	NR ASSOCIATES, INC.	2933.31	582.48	22.87	-95.01	97.7	166	2.5	1954	No
0990324	ANNCO SERVICES, INC.	2930.4	579.2	19.59	-97.92	99.9	169	4.992	1997	No
0990350	SFWMD PUMP STATION #S-6	2927.82	556.17	-3.44	-100.5	100.6	182	5.128	2011	No
0510015	SOUTHERN GARDENS CITRUS PROCESSING CORP.	2957.6	487.5	-72.11	-70.72	101.0	226	365.34	2020	No
0990095	BETHESDA MEMORIAL HOSPITAL	2931.8	592.6	32.99	-96.52	102.0	161	1.29	2040	No
0990543	AMERIGROW RECYCLING - DELRAY	2926.52	578.14	18.53	-101.8	103.5	170	9.1	2069	No
0550004	TAMPA ELECTRIC COMPANY DINNER LAKE	3042.5	456.8	-102.81	14.18	103.8	278	1313.4	2076	No
0550003	FLORIDA POWER CORP. - AVON PARK	3050.5	451.4	-108.21	22.18	110.5	282	5054	2209	No
0990119	BOCA RATON COMMUNITY HOSPITAL	2915.5	589.5	29.89	-112.82	116.7	165	3.986	2334	No
0110045	HARDRIVES ASPHALT(DEERFIELD PLANT)	2910	584.8	25.19	-118.32	121.0	168	87.6	2419	No
0110351	SFWMD PUMP STATION #S-8	2912.24	522.31	-37.3	-116.08	121.9	198	11.639	2439	No
0112094	WASTE MGMT-CENTRAL SANIT L F & RECYCLING	2908	583.2	23.59	-120.32	122.6	169	124.8	2452	No
0112120	WHEELABRATOR NORTH BROWARD	2907.6	583.9	24.29	-120.72	123.1	169	556.479	2463	No
0510004	CITRUS BELLE	2950.3	456.4	-103.21	-78.02	129.4	233	417.7	2588	No
0510006	JACK M. BERRY, INC.	2955.1	450.6	-109.01	-73.22	131.3	236	249.46	2626	No

Table 6-4. Summary of all SO_2 Facilities Considered for Inclusion in the AAQS Air Modeling Analyses for Tropicana Products, Inc. Fort Pierce Plant

Plant ID	Facility Name	UTM Coordinates North (km)	UTM Coordinates East (km)	Relative Location[a] X (km)	Relative Location[a] Y (km)	Distance (km)	Direction (deg.)	Maximum SO_2 Emissions (TPY)	(20 * Distance) (km)	Included in AAQS?[b]
0111019	HOLY CROSS HOSPITAL	2896.6	588.1	28.49	-131.72	134.8	168	22.8	2695	No
0110014	EAST COAST ASPHALT	2893.6	583.5	23.89	-134.72	136.8	170	80.1	2736	No
0110034	OWENS CORNING, TRUMBULL DIVISION	2886.4	587	27.39	-141.92	144.5	169	1	2891	No
0510011	HENDRY CORRECTIONAL INSTITUTION	2909.9	476.12	-83.49	-118.42	144.9	215	8.48	2898	No
0112399	BROWARD CO/DAVIE LF	2883.47	564.75	5.14	-144.85	144.9	178	7.53	2899	No
0110036	FP&L PORT EVERGLADES POWER PLANT	2885.3	587.4	27.79	-143.02	145.7	169	149047	2914	No
0112119	WHEELABRATOR SOUTH BROWARD	2883.39	578.87	19.26	-144.93	146.2	172	595.29	2924	No
0110037	FP&L LAUDERDALE	2883.3	580.1	20.49	-145.02	146.5	172	7998.8	2929	No
0710193	WEST FELDA PARK TANK BATTERY	2937.17	442.61	-117	-91.15	148.3	232	10.73	2966	No
0111026	HUMANE SOCIETY OF BROWARD COUNTY	2881.7	583.2	23.59	-146.62	148.5	171	2.6	2970	No
7770048	BETTER ROADS, INC.	2963.3	425	-134.61	-65.02	149.5	244	29	2990	No
0270003	PEACE RIVER CITRUS PRODUCTS	3010.1	409.8	-149.81	-18.22	150.9	263	85.8	3018	No
0112149	FRED HUNTER'S MEMORIAL SERVICES, INC.	2878.5	578.6	18.99	-149.82	151.0	173	1	3020	No
0150028	TUCKERS CORNER	2963.9	422.7	-136.91	-64.42	151.3	245	42.8	3026	No
0490043	IPS VANDOLAH POWER PROJECT	3044.5	408.75	-150.86	16.18	151.7	276	442.4	3035	No
0210090	NORTH BEAR ISLAND	2904.23	470.07	-89.54	-124.09	153.0	216	5.45	3060	No
0210018	SUNNILAND MINE	2905.8	467.8	-91.81	-122.52	153.1	217	3.1	3062	No
0112095	WEEKLEY ASPHALT PAVING,INC., PLANT NO. 1	2872.9	567.8	8.19	-155.42	155.6	177	95	3113	No
0710002	FORT MYERS POWER PLANT	2952.9	422.3	-137.31	-75.42	156.7	241	158207.6	3133	No
0710119	LEE COUNTY ENERGY RECOVERY FACILITY	2945.7	424.96	-134.65	-82.62	158.0	238	326.6	3160	No
7770252	COMMUNITY ASPHALT CORP.	2869.3	557	-2.61	-159.02	159.0	181	70.6	3181	No
0250529	PAVEX CORPORATION	2868.9	558.6	-1.01	-159.42	159.4	180	53.5	3188	No
0710133	GULF COAST SANITARY LANDFILL	2942.83	424.97	-134.64	-85.49	159.5	238	14.88	3190	No
0710169	FORT MYERS MINE	2931.41	432.31	-127.3	-96.91	160.0	233	5.1	3200	No
0250624	GENERAL ASPHALT PLANT WDHMA	2868.32	569.68	10.07	-160	160.3	176	124.36	3206	No
7770250	RINKER LAKE QUARRY	2866	562.8	3.19	-162.32	162.4	179	2.1	3247	No
0210031	RACCOON POINT	2873.2	509.6	-50.01	-155.12	163.0	198	60.4	3260	No
0150073	CHARLOTTE COUNTY MINE	2963.82	409.93	-149.68	-64.5	163.0	247	2.27	3260	No
0710126	FT MYERS MINE	2931	427	-132.61	-97.32	164.5	234	6.2	3290	No
0710095	SW FL INTNAL AIRPORT INCINERATORS	2934.47	423.17	-136.44	-93.85	165.6	235	1.77	3312	No
0710130	TARTAN TEXTILE SERVICES, INC.	2947.08	415.17	-144.44	-81.24	165.7	241	36	3314	No
0710162	ROCK MINE	2925.73	429.4	-130.21	-102.59	165.8	232	6.2	3315	No
7775081	RELOCATABLE CONCRETE AND ASPHALT CRUSHER	2930.3	425.7	-133.91	-98.02	166.0	234	1.56	3319	No
0250020	TARMAC-PENNSUCO CEMENT	2861.7	562.9	3.29	-166.62	166.7	179	2538.2	3333	No
0710065	APAC FLORIDA (MACASPHALT)	2930.2	424.3	-135.31	-98.12	167.1	234	90.3	3343	No

Table 6-4. Summary of all SO_2 Facilities Considered for Inclusion in the AAQS Air Modeling Analyses for Tropicana Products, Inc. Fort Pierce Plant

Plant ID	Facility Name	UTM Coordinates North (km)	UTM Coordinates East (km)	Relative Location[a] X (km)	Relative Location[a] Y (km)	Distance (km)	Direction (deg.)	Maximum SO_2 Emissions (TPY)	(20 * Distance) (km)	Included in AAQS?[b]
0710004	GULF PAVING CO	2944.1	415.2	-144.41	-84.22	167.2	240	88.98432	3343	No
0250608	110TH AVENUE INVESTMENTS, INC.	2861.8	577	17.39	-166.52	167.4	174	26.21	3349	No
0250615	WASTE MANAGEMENT INC. OF FLORIDA	2860.02	565.04	5.43	-168.3	168.4	178	249	3368	No
0250022	U S FOUNDRY MANUFACTURING CORP.	2859.8	567.3	7.69	-168.52	168.7	177	20	3374	No
0250361	MIAMI DADE ANIMAL SERVICES	2858.07	567.61	8	-170.25	170.4	177	1.1	3409	No
0250348	MIAMI DADE RRF/MONTENAY	2857.62	563.83	4.22	-170.7	170.8	179	1257.3	3415	No
0250497	ELECTROSTATIC INDUSTRIAL PAINTING, INC	2857.5	576	16.39	-170.82	171.6	175	0.0083	3432	No
7775090	ASPHALT CRUSHING UNIT UNIT NO. 1	2934.56	414.65	-144.96	-93.76	172.6	237	1.56	3453	No
7775091	ASPHALT CRUSHING UNIT UNIT NO. 2	2934.56	414.65	-144.96	-93.76	172.6	237	1.56	3453	No
0710171	SUPERMIX INDUSTRIES, INC.	2930.95	416.38	-143.23	-97.37	173.2	236	60.2	3464	No
0710047	CAPE CORAL HOSPITAL	2946.7	406.2	-153.41	-81.62	173.8	242	6.15	3475	No
0210052	NAPLES QUARRY	2907	432.5	-127.11	-121.32	175.7	226	5.1	3514	No
0210023	APAC FLORIDA (MACASPHALT)	2898.8	429.2	-130.41	-129.52	183.8	225	94.2	3676	No
0210051	NAPLES SANITARY LANDFILL	2893.22	434.58	-125.03	-135.1	184.1	223	230	3682	No
0210041	BETTER ROADS OF LAKE PLACID	2889.7	432.5	-127.11	-138.62	188.1	223	49.5	3762	No
0210045	NAPLES COMMUNITY HOSPITAL	2892.5	420.2	-139.41	-135.82	194.6	226	19.6	3893	No

[a] The Tropicana Ft. Pierce facility is located at UTM Coordinates: North 3028.32 km
East 559.61 km

[b] Source included in AAQS if (20 * Distance) < Emission Rate up to 100 km away from Tropicana Fort Pierce

[c] Emission values taken from Title V Air Operation Permit 5/18/1998

[d] Emission values taken from Title V Permit Application 6/15/1996

[e] Emission values and parameters taken from Title V Air Permit 2/2000

[f] Emission values and parameters taken from US Sugar-Clewiston PSD Application 8/2000

Note: Sources with emission rates of <1 TPY, not included in modeling analysis

Table 6-5 Summary of SO2 Sources Included in the AAQS Air Modeling Analysis for Tropicana Products, Inc. Fort Pierce Plant

Facility ID	Facility / Units	Modeling ID Name	Stack Parameters: Height (m)	Temper. (K)	Velocity (m/s)	Diameter (m)	Emission Rate (g/s)
1110040	RANGER/FT PIERCE/PLNT#129						
	250T/HR [RECYCLE(50%)]DRUM MIX(S/N666-88A)	FPP2	7.01	435.9	51.5	0.76	5.07
1110003	FT PIERCE UTIL/H D KINC PWR PLNT						
	2.75 MW West Diesel #1	FPU1	7.01	783.2	11.9	0.91	1.50
	2.75 MW East Diesel #2	FPU2	7.01	783.2	11.9	0.91	1.50
	23.4 MW Combined Cycle Gas Turbine with 8.2 MW HRSG-Unit # 9	FPU3	20.73	492.0	18.2	3.41	31.82
	16.5 MW Boiler Unit #6	FPU4	45.11	435.9	11.0	1.52	0.25
	33.0 MW Boiler Unit #7 (Phase II Acid Rain Unit)	FPU7	44.81	426.5	18.6	2.16	0.25
	56.1 MW Boiler Unit #8 (Phase II Acid Rain Unit)	FPU8	45.72	440.9	25.5	2.44	2.32
0610029	CITY OF VERO BEACH MUNICIPAL UTILITIES						
	Fossil Fuel Steam Generator Unit No.1	VERO1	61.0	437.0	32.4	1.1	28.77
	Fossil Fuel Steam Generator Unit No.2	VERO2	61.0	434.3	37.6	1.1	84.21
	Fossil Fuel Steam Generator Unit 3 (Phase II Acid Rain Unit)	VERO3	61.0	440.4	19.9	1.8	142.07
	Fossil Fuel Steam Generator Unit 4 (Phase II Acid Rain Unit)	VERO4	61.0	425.4	24.4	2.1	69.05
	Combined Cycle Gas Turbine Unit 5 (Phase II Acid Rain Unit)	VERO5	38.1	416.5	19.6	3.4	15.50
0850102	INDIANTOWN COGENERATION PLANT						
	Pulverized Coal Main Boiler	IND1	150.88	333.2	28.4	4.88	58.12
	(2) Auxiliary Boilers	IND3	64.01	449.8	26.7	1.52	0.21
0850001	FLORIDA POWER & LIGHT MARTIN PLANT						
	UNIT #1 STEAM GENERATOR-FRONT-FIRED - 863 MW MAX. CAPACITY	FPLM1	152.10	420.9	21.0	7.99	691.06
	UNIT #2 STEAM GENERATOR-FRONT-FIRED- 863 MW CAPACITY	FPLM2	152.10	420.9	21.3	7.92	691.06
	COMBINED CYCLE UNIT 3A,1 CT WITH 1 HT RCVY STEAM GENERATOR	FPLM3	64.92	410.9	18.6	6.10	12.95
	COMBINED CYCLE UNIT 3B, 1 CT & 1 HRSG	FPLM4	64.92	410.9	18.6	6.10	12.95
	COMBINED CYCLE UNIT 4A-1CT WITH 1 HT RCVY STEAM GENERATOR	FPLM5	64.92	410.9	18.6	6.10	12.95
	COMBINED CYCLE UNIT 4B-1 CT WITH 1 HT RCVY STEAM GENERATOR	FPLM6	64.92	410.9	18.6	6.10	12.95
0990061	U.S.SUGAR CORP. BRYANT MILL.*						
	BOILER #1 WITH SCRUBBER	USSB1	19.81	338.7	37.6	1.65	13.47
	BOILER #2 WITH SCRUBBERS	USSB2	19.81	338.7	36.9	1.65	13.47
	BOILER #3 WITH SCRUBBER	USSB3	19.81	338.7	36.4	1.65	13.47
	BOILER #5 WITH TWO SCRUBBERS.	USSB5	45.72	338.7	18.0	2.90	5.24
	DIESEL ELECTRIC GENERATOR UNITS 1 + 2	USSB7	8.53	519.3	13.0	0.37	0.11
0990042	FLORIDA POWER & LIGHT (PRV) RIVIERA						
	Fossil Fuel Steam Generator, Unit 3 -Phase II Acid Rain Unit	FPLR3	90.83	401.5	26.9	4.88	837.61
	Fossil Fuel Steam Generator, Unit 4 -Phase II Acid Rain Unit	FPLR4	90.83	401.5	26.6	4.88	837.61
0990026	SUGAR CANE GROWERS CO-OP*						
	BOILER #1 WITH A 2 SCRUBBERS AND 1 STACK	SCGC1	45.72	337.6	21.6	1.31	16.49
	BOILER #2 WITH 2 SCRUBBERS AND 1 STACK	SCGC2	45.72	336.5	23.2	1.31	16.49
	BOILER #3 WITH SCRUBBER	SCGC3	27.43	341.5	15.8	1.62	6.83
	BOILER #4 WITH CYCLONES AND 3 SCRUBBERS WITH ONE STACK	SCGC4	33.53	337.6	8.2	2.90	28.21
	BOILER #5 WITH CYCLONES, TWO SCRUBBERS, AND ONE STACK	SCGC5	45.72	341.5	12.3	2.13	21.67
	504 MMBTU/HR BOILER # 8 RESIDUE/BAGASSE/OIL P	SCGC8	47.24	344.8	9.1	2.90	24.87
0510003	U.S. SUGAR CLEWISTON MILL AND REFINERY						
	Boiler #1 Crop Season	USSC1	64.92	347.0	15.4	2.44	78.79
	Boiler #2 Crop Season	USSC2	64.92	338.7	13.9	2.44	78.49
	Boiler #3Crop Season	USSC3	64.92	333.2	6.8	2.44	47.08
	Boiler #4 Crop Season	USSC4	45.72	344.3	20.3	2.51	21.53
	Bogler #7 Crop Season	USSC7	68.58	405.4	20.8	2.59	13.91
	Boiler #1 Off Crop Season	USSCO1	64.92	347.0	14.1	2.44	51.64
	Boiler #2 Off Crop Season	USSCO2	64.92	338.7	12.7	2.44	51.27
	Boiler #3 Off Crop Season	USSCO3	64.92	333.2	6.2	2.44	30.74
	Boiler #7 Off Crop Season	USSCO7	68.58	405.4	23.6	2.59	17.39
0990045	LAKE WORTH UTILITIES AUTHORITY:TG SMITH PLANT						
	2000 KW DIESEL GENERATOR # 1 PEAKING UNIT	LWU1	5.18	625.9	37.1	0.56	0.76
	2000 KW DIESEL GENERATOR # 2 PEAKING UNIT	LWU2	5.18	625.9	37.1	0.56	0.76
	2000 KW DIESEL GENERATOR # 3 PEAKING UNIT	LWU3	5.18	625.9	37.1	0.56	0.76
	2000 KW DIESEL GENERATOR # 4 PEAKING UNIT	LWU4	5.18	625.9	37.1	0.56	0.76
	2000 KW DIESEL GENERATOR # 5 PEAKING UNIT	LWU5	5.18	625.9	37.1	0.56	0.76
	GAS TURBINE # 1	LWU6	14.02	720.4	24.8	4.88	15.64
	7.5 MW FOSSIL FUEL STEAM GENERATING UNIT 1	LWU7	18.29	422.0	10.5	1.52	27.34
	FOSSIL FUEL STEAM GENERATOR #3 (Phase II, Acid Rain Unit)	LWU9	34.44	418.2	15.7	2.13	80.07
	FOSSIL FUEL, STEAM GENERATOR #4 (Phase II, Acid Rain Unit)	LWU10	35.05	418.2	17.0	2.29	103.22
	COMBINED CYCLE UNIT (CT-2/S-5)	LWU11	22.86	479.8	26.7	3.05	10.90
0990005	OKEELANTA CORP						
	BAGASSE BOILER #4 WITH DUCON MULTIVANE SCRUBBER	OKEE1	22.86	347.0	11.9	2.29	5.39
	BOILER #5 WITH SCRUBBERS	OKEE2	22.86	344.3	13.2	2.29	15.73
	BOILER # 6 FIRED BY BAGASSE AND NO. 6 FUEL OIL	OKEE3	22.86	355.4	11.7	2.29	12.41
	BOILER # 10, RATED @ 125000 #/HR STEAM WITH DUCON M/VANE SCR	OKEE4	22.86	338.7	16.8	2.29	15.81
	BOILER # 11 FIRED WITH BAGASSE AND NO. 6 FUEL OIL	OKEE5	22.86	335.9	19.2	2.29	12.08
	BOILER #12 WITH MECH COLLECTOR AND SCRUBBER	OKEE6	22.86	341.5	13.9	2.29	37.74
	BOILER #14 RATED AT 150000 LBS/HR STEAM WITH SCRUBBER & DUST	OKEE7	22.86	341.5	14.4	2.29	37.71
	BOILER #15 125000 LBS/HR STEAM WITH SCRUBBER & DUST COLLECTO	OKEE8	22.86	333.2	19.5	2.29	12.48
	BOILER #16 150000 LBS/HR STEAM, 205 MMBTU/HR	OKEE9	22.86	483.2	22.8	1.52	5.63
0990032	OKEELANTA COGENERATION PLANT*						
	715 MMBTU/HR COGENERATION BOILER NO. 1	OKEC1	60.66	419.3	15.9	3.05	24.35
	715 MMBTU/HR COGENERATION BOILER NO. 2	OKEC2	60.66	419.3	15.9	3.05	24.35
	715 MMBTU/HR COGENERATION BOILER NO. 3	OKEC3	60.66	419.3	15.9	3.05	24.35
0550018	TAMPA ELECTRIC CO.:PHILLIPS STATION						
	SLOW SPEED DIESEL ELECTRIC GENERATOR UNIT 1 P	TECO1	45.72	441.5	24.1	1.83	45.86
	SLOW SPEED DIESEL ELECTRIC GENERATOR UNIT 2 P	TECO2	45.72	449.8	24.1	1.83	45.86

* Facilities that operate only during the November 1 through May 31 crop season

[b] Sugar mill sources that operate all year

Table 6-6. Summary of PM-10 Facilities Considered for Inclusion in the AAQS Air Modeling Analyses for Tropicana Products, Inc. Fort Pierce Plant

Plant ID	Facility Name	UTM Coordinates North (km)	UTM Coordinates East (km)	Relative Location[a] X (km)	Relative Location[a] Y (km)	Relative Location[a] Distance (km)	Relative Location[a] Direction (deg.)	Maximum PM-10 Emissions (TPY)	(20 * Distance) (km)	Included in AAQS?[b]
1110051	RINKER/FT PIERCE/MIDWAY RD	3027.98	559.78	0.17	-0.34	0.4	153	6.1634	8	No
1110001	CONTINENTAL/FT PIERCE/CONCR BATCH PLNT	3029.96	561.43	1.82	1.64	2.4	48	2.19	49	No
1110040	RANGER/FT PIERCE/PLNT#129	3030.17	561.67	2.06	1.85	2.8	48	52	55	No
1110010	DICKERSON/ASPHALT PLNT#14	3030.36	562.24	2.63	2.04	3.3	52	21.34	67	No
1110018	INDIAN RIVER FOODS	3030.48	562.43	2.82	2.16	3.6	53	104.22	71	Yes
1110060	FLORIDA GAS TRANSMISSION/ST LUCIE/STA 20	3035.78	557.24	-2.37	7.46	7.8	342	2.68	157	No
1110003	FT PIERCE UTIL/H D KING PWR PLNT	3036.35	566.12	6.51	8.03	10.3	39	214.91984	207	Yes
1110029	MARCONA OCEAN INDUSTRIES	3037.7	566.14	6.53	9.38	11.4	35	43.8	229	No
1110071	FPL ST LUCIE NUCLEAR PLANT	3025.01	573.86	14.25	-3.31	14.6	103	8.539	293	No
0610015	COUNTY LANDFILL	3050.6	550.5	-9.11	22.28	24.1	338	41.6	481	No
0850015	AYCOCK FUNERAL HOME	3008.4	573.5	13.89	-19.92	24.3	145	2.277	486	No
0610080	AMERICAN POWER TECH	3051.11	550.71	-8.9	22.79	24.5	339	6.96	489	No
0610021	OCEAN SPRAY CRANBERRIES/VERO BEACH	3051.29	550.62	-8.99	22.97	24.7	339	112.4	493	No
0850003	RINKER/STUART	3007.29	574.12	14.51	-21.03	25.5	145	33.85	511	No
0850004	TARMAC/STUART	3005.97	575.25	15.64	-22.35	27.3	145	16.6	546	No
0610003	RINKER MATERIALS	3055.7	559.9	0.29	27.38	27.4	1	5.77	548	No
0610029	CITY OF VERO BEACH MUNICIPAL UTILITIES	3056.5	561.4	1.79	28.18	28.2	4	757.9	565	Yes
0850012	BAY STATE MILLING	2991.68	547.4	-12.21	-36.64	38.6	198	961.83	772	Yes
0850002	CAULKINS INDIANTOWN CITRUS	2991.47	547.98	-11.63	-36.85	38.6	198	206.257	773	No
0850102	INDIANTOWN COGENERATION PLANT	2990.7	547.65	-11.96	-37.62	39.5	198	291.35	790	No
0850001	FPL MARTIN POWER PLANT[d]	2992.65	542.68	-16.93	-35.67	39.5	205	7977.4	790	Yes
0850009	RINKER MATERIALS/INDIANTOWN	2989.91	550.3	-9.31	-38.41	39.5	194	2.72	790	No
0850019	PIONEER CONCRETE TILE	2991.69	583.68	24.07	-36.63	43.8	147	8.1	877	No
0990213	JUPITER MULCH, INC.	2980.11	573.09	13.48	-48.21	50.1	164	9.69	1001	No
0990226	TARMAC FLORIDA (WEST JUPITER PLANT)	2976.3	571.7	12.09	-52.02	53.4	167	18	1068	No
0990021	PRATT & WHITNEY AIRCRAFT	2975	567.5	7.89	-53.32	53.9	172	119.56	1078	No
0990185	SIKORSKY AIRCRAFT CORP. - JUPITER	2975	567.5	7.89	-53.32	53.9	172	2.3	1078	No
0990019	OSCEOLA FARMS	2968	544.2	-15.41	-60.32	62.3	194	616.745	1245	No
0990331	OSCEOLA COGENERATION PLANT	2968	544.02	-15.59	-60.32	62.3	194	123.1	1246	No
0990061	U.S. SUGAR CORP. BRYANT MILL	2969.12	537.83	-21.78	-59.2	63.1	200	851.92	1262	No
0990025	RINKER MATERIALS (LAKE PARK)	2964.5	591.9	32.29	-63.82	71.5	153	11.4	1430	No
0990234	SOLID WASTE AUTH OF PBC/NO CO RRF	2961.26	584.49	24.88	-67.06	71.5	160	115.07	1431	No
0990344	PARKWAY ASPHALT (RIVIERA)	2962.1	588.5	28.89	-66.22	72.2	156	6.7	1445	No
0990566	INDIAN TRAIL IMPROVEMENT DISTRICT - ACI	2956.16	564.69	5.08	-72.16	72.3	176	22.1	1447	No
0990530	EAST COAST PAVING - LOXAHATCHEE PLANT	2955.56	562.14	2.53	-72.76	72.8	178	12.43	1456	No

Table 6-6. Summary of PM-10 Facilities Considered for Inclusion in the AAQS Air Modeling Analyses for Tropicana Products, Inc. Fort Pierce Plant

Plant ID	Facility Name	UTM Coordinates North (km)	UTM Coordinates East (km)	Relative Location[a] X (km)	Relative Location[a] Y (km)	Distance (km)	Direction (deg.)	Maximum PM-10 Emissions (TPY)	(20 * Distance) (km)	Included in AAQS?[b]
0990123	PHYSICAL DISTRIBUTION CENTER & OSF	2961.2	589.7	30.09	-67.12	73.6	156	5.74	1471	No
0990120	RINKER MATERIALS (RIVIERA BEACH)	2960.2	591.2	31.59	-68.12	75.1	155	1.2	1502	No
0990127	TARMAC AMERICA (MANGONIA PARK)	2960.3	591.6	31.99	-68.02	75.2	155	13.1	1503	No
0990333	FGT STATION NO. 21 (WPB)	2957.07	584.36	24.75	-71.25	75.4	161	3.02	1509	No
0990046	SUNBELT CEMENT (DBA)	2960.7	594	34.39	-67.62	75.9	153	90	1517	No
0990084	SOUTHDOWN, INC. - RIVIERA BEACH	2960.8	594.3	34.69	-67.52	75.9	153	9	1518	No
0990042	FPL RIVIERA POWER PLANT	2960.63	594.25	34.64	-67.69	76.0	153	3339.76	1521	Yes
0990325	ROYAL PALM MEMORIAL GARDENS, INC.	2960.2	593.4	33.79	-68.12	76.0	154	2.28	1521	No
0990305	NORTHWOOD FUNERAL HOME	2960.1	593.8	34.19	-68.22	76.3	153	1.945	1526	No
0990056	ST. MARY'S HOSPITAL, INC.	2959.7	593	33.39	-68.62	76.3	154	2.14	1526	No
0990529	PALM BEACH WOOD PRODUCTS INC.	2952.09	563.53	3.92	-76.23	76.3	177	100	1527	No
0990348	PALM BEACH AGGREGATES, INC.	2952	563	3.39	-76.32	76.4	177	83.02	1528	No
0990349	SFWMD PUMP STATION #S-5A	2951.32	562.55	2.94	-77	77.1	178	34.571	1541	No
0990146	TRI-COUNTY CONCRETE (WPB)	2953.9	583.9	24.29	-74.42	78.3	162	1	1566	No
0990026	SUGAR CANE GROWERS CO-OP[c]	2953.3	534.9	-24.71	-75.02	79.0	198	1829.14	1580	Yes
0990583	MAGNUM ENV. SERVICES, INC. - WPB	2952	580.2	20.59	-76.32	79.0	165	11.7	1581	No
0990087	WEST PALM PLANT	2951.7	579.9	20.29	-76.62	79.3	165	14.38	1585	No
0990233	MARKS LANDSCAPING & PAVING	2952.3	582.1	22.49	-76.02	79.3	164	37.9	1586	No
0990122	MASCHMEYER CONCRETE (WEST PALM BEACH)	2952.4	583	23.39	-75.92	79.4	163	24	1589	No
0990082	S.E. PRESTRESSED CONCRETE	2951.9	582.3	22.69	-76.42	79.7	163	37	1594	No
0990091	RINKER MATERIALS (CEN-CON, WPB)	2951.17	580.34	20.73	-77.15	79.9	165	5.2	1598	No
7775057	COMMUNITY ASPHALT	2951.24	582.52	22.91	-77.08	80.4	163	3.8	1608	No
0990522	PALM BEACH TRANSFER & RECYCLING, INC.	2951.47	583.73	24.12	-76.85	80.5	163	91	1611	No
0990310	COMMUNITY ASPHALT (WPB)	2950.8	582.3	22.69	-77.52	80.8	164	128.2	1615	No
0990022	RINKER MATERIALS (BELLE GLADE PLANT)	2951.1	531.3	-28.31	-77.22	82.2	200	1.2702	1645	No
0990016	ATLANTIC SUGAR MILL	2945.21	552.37	-7.24	-83.11	83.4	185	744	1668	No
0990017	EL RODEO INVESTMENT CORP.	2952.3	518.9	-40.71	-76.02	86.2	208	8.33	1725	No
0990549	SFWMD STATION NO. G-310	2940.45	554.2	-5.41	-87.87	88.0	184	6.31	1761	No
0510003	U.S. SUGAR CLEWISTON MILL AND REFINERY	2956.88	506.1	-53.51	-71.44	89.3	217	1078.19	1785	No
0990562	SOUTH FLORIDA SHAVINGS CO.	2941.1	579.2	19.59	-87.22	89.4	167	5.694	1788	No
0510001	EVERGLADES SUGAR REFINERY	2953.97	509.49	-50.12	-74.35	89.7	214	375.8812	1793	No
0990109	RINKER MATERIALS (LAKE WORTH)	2944.9	592.6	32.99	-83.42	89.7	158	50	1794	No
0550032	LESCO, INCOPORATED - SEBRING PLANT	3038.4	469.5	-90.11	10.08	90.7	276	86.39	1813	No
0990045	T G SMITH PLANT	2943.7	592.8	33.19	-84.62	90.9	159	547.968	1818	No
0990568	LWG PLANT	2943.7	592.8	33.19	-84.62	90.9	159	43	1818	No

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Plant ID	Facility Name	UTM Coordinates North (km)	UTM Coordinates East (km)	Relative Location[a] X (km)	Relative Location[a] Y (km)	Distance (km)	Direction (deg.)	Maximum PM-10 Emissions (TPY)	(20 * Distance) (km)	Included in AAQS?[b]
7770060	AJAX PAVING IND., INC.	2967.9	488.9	-70.71	-60.42	93.0	229	5.5536	1860	No
0430008	SOUTH FLORIDA THERMAL SERVICES, INC.	2966.6	489.2	-70.41	-61.72	93.6	229	10.44	1873	No
0990322	TREASURE COAST CREMATORY	2941	594	34.39	-87.32	93.8	159	5.256	1877	No
0550005	GEORGIA PACIFIC CORP	3009.23	466.98	-92.63	-19.09	94.6	258	20.54	1892	No
0990005	OKEELANTA CORP	2940.1	524.9	-34.71	-88.22	94.8	201	16.92	1896	No
0990332	OKEELANTA COGENERATION PLANT	2940.01	524.09	-35.52	-88.31	95.2	202	172.5	1904	No
0550006	LIN PAC PLASTICS, INC.	3036.83	464.79	-94.82	8.51	95.2	275	136.4	1904	No
0550018	PHILLIPS STATION	3035.4	464.3	-95.31	7.08	95.6	274	151.25	1911	No
0550014	BETTER ROADS OF LAKE PLACID	3008.7	465.6	-94.01	-19.62	96.0	258	17.1	1921	No
0990537	AIRFOIL TECHNOLOGIES FLORIDA, INC.	2937.75	592.5	32.89	-90.57	96.4	160	3	1927	No
0550026	SEBRING SEPTIC TANK & PRECAST CO	3034.2	463.3	-96.31	5.88	96.5	273	33	1930	No
0550008	JAHNA CONCRETE, INC.	3019.2	463.5	-96.11	-9.12	96.5	265	18	1931	No
0550021	JAHNA CONCRETE, INC.	3034.4	462.5	-97.11	6.08	97.3	274	45	1946	No
0990561	NR ASSOCIATES, INC.	2933.31	582.48	22.87	-95.01	97.7	166	50	1954	No
0990316	SCOBEE-COMBS-BOWDEN FUNERAL HOME	2936	593.7	34.09	-92.32	98.4	160	0.6	1968	No
0990324	ANNCO SERVICES, INC.	2930.4	579.2	19.59	-97.92	99.9	169	37.9	1997	No
0990350	SFWMD PUMP STATION #S-6	2927.82	556.17	-3.44	-100.5	100.6	182	10.155	2011	No
0510015	SOUTHERN GARDENS CITRUS PROCESSING CORP.	2957.6	487.5	-72.11	-70.72	101.0	226	190.82	2020	No
0550017	GRIFFIN'S CONCRETE, INC.	3035	458	-101.61	6.68	101.8	274	32	2037	No
0990095	BETHESDA MEMORIAL HOSPITAL	2931.8	592.6	32.99	-96.52	102.0	161	3.13	2040	No
0990543	AMERIGROW RECYCLING - DELRAY	2926.52	578.14	18.53	-101.8	103.5	170	91	2069	No
0550004	TAMPA ELECTRIC COMPANY DINNER LAKE	3042.5	456.8	-102.81	14.18	103.8	278	109.72	2076	No
0990094	CONTINENTAL CONCRETE (DELRAY)	2927	590.3	30.69	-101.32	105.9	163	44	2117	No
0990129	TARMAC FLORIDA (DELRAY BEACH)	2924.8	592.3	32.69	-103.52	108.6	162	169.287	2171	No
0990328	HARDRIVES OF DELRAY, INC.	2923.5	590.6	30.99	-104.82	109.3	164	12.72	2186	No
0550012	MACASPHALT	3050	451.13	-108.48	21.68	110.6	281	31.2	2213	No
0550024	HIGHLANDS CREMATORY, INC.	3052.8	450.7	-108.91	24.48	111.6	283	2.628	2233	No
0550007	JAHNA CONCRETE	3052.2	450	-109.61	23.88	112.2	282	39	2244	No
0550016	JAHNA CONCRETE, INC.	3054.3	450.1	-109.51	25.98	112.5	283	28	2251	No
0990107	MONIER ROOF TILE	2916.8	591.2	31.59	-111.52	115.9	164	2	2318	No
0990023	RINKER MATERIALS (BOCA RATON)	2915.7	589.4	29.79	-112.62	116.5	165	13.6	2330	No
0990119	BOCA RATON COMMUNITY HOSPITAL	2915.5	589.5	29.89	-112.82	116.7	165	1.26	2334	No
0990015	BOCA RATON RESORT AND CLUB	2913.7	592	32.39	-114.62	119.1	164	1.64	2382	No
0112061	FLORIDA ROCK INDUSTRIES INC.	2910.4	584.7	25.09	-117.92	120.6	168	4.8	2411	No
0110045	HARDRIVES ASPHALT(DEERFIELD PLANT)	2910	584.8	25.19	-118.32	121.0	168	77.17	2419	No

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Plant ID	Facility Name	UTM Coordinates North (km)	UTM Coordinates East (km)	Relative Location[a] X (km)	Relative Location[a] Y (km)	Distance (km)	Direction (deg.)	Maximum PM-10 Emissions (TPY)	(20 * Distance) (km)	Included in AAQS?[b]
0110351	SFWMD PUMP STATION #S-8	2912.24	522.31	-37.3	-116.08	121.9	198	23.047	2439	No
0111024	PIONEER ROOFING TILE DBA PIONEER CONCRET	2908.9	585.5	25.89	-119.42	122.2	168	6.2	2444	No
0112094	WASTE MGMT-CENTRAL SANIT L F & RECYCLING	2908	583.2	23.59	-120.32	122.6	169	4.8	2452	No
0112120	WHEELABRATOR NORTH BROWARD	2907.6	583.9	24.29	-120.72	123.1	169	103.991	2463	No
0110017	PRE-CAST SPECIALTIES, INC	2907.2	586.5	26.89	-121.12	124.1	167	5.4668	2481	No
0510008	LABELLE BUILDING SUPPLY	2958.5	456.4	-103.21	-69.82	124.6	236	40	2492	No
0112115	PAVER MODULE, INC.	2904.4	585.2	25.59	-123.92	126.5	168	6.6	2531	No
0110038	W R BONSAL CO	2904.6	586.2	26.59	-123.72	126.5	168	115.632	2531	No
0110009	RINKER MATERIALS CORP	2904.3	586	26.39	-124.02	126.8	168	12.56	2536	No
0112175	SUPERIOR FABRICS	2902.93	584.67	25.06	-125.39	127.9	169	16.36	2557	No
0110003	W R GRACE & CO	2902.8	585.6	25.99	-125.52	128.2	168	3	2564	No
0510004	CITRUS BELLE	2950.3	456.4	-103.21	-78.02	129.4	233	109.46	2588	No
0110030	TARMAC FLORIDA	2901.2	589.1	29.49	-127.12	130.5	167	12.4392	2610	No
0510006	JACK M. BERRY, INC.	2955.1	450.6	-109.01	-73.22	131.3	236	55.33375	2626	No
0112146	ATLANTIC BURIAL CASKET CO. DBA ABCO	2897.7	584.3	24.69	-130.62	132.9	169	200001.33	2659	No
0110031	RINKER MATERIALS CORP	2896.3	584.3	24.69	-132.02	134.3	169	3.285	2686	No
0111019	HOLY CROSS HOSPITAL	2896.6	588.1	28.49	-131.72	134.8	168	22.8	2695	No
0110014	EAST COAST ASPHALT	2893.6	583.5	23.89	-134.72	136.8	170	164.6	2736	No
0490003	THE MANCINI PACKING COMPANY	3040.8	421.4	-138.21	12.48	138.8	275	24.80049	2775	No
0110033	RINKER MATERIALS CORP(SUNRISE)	2891	586.1	26.49	-137.32	139.9	169	1	2797	No
0112074	BULK INTERMODAL DISTRIBUTION SVCS.	2887.78	583.32	23.71	-140.54	142.5	170	13.5	2851	No
0490017	SINGLETARY CONCRETE PROD INC	3053.46	418.53	-141.08	25.14	143.3	280	8.28	2866	No
0270004	SINGLETARY CONCRETE PRODUCTS INC	3009.8	417.3	-142.31	-18.52	143.5	263	118.104	2870	No
0110034	OWENS CORNING, TRUMBULL DIVISION	2886.4	587	27.39	-141.92	144.5	169	4.3362	2891	No
0110032	RINKER MATERIALS CORP	2885.6	587.2	27.59	-142.72	145.4	169	45	2907	No
0110036	FP&L PORT EVERGLADES POWER PLANT	2885.3	587.4	27.79	-143.02	145.7	169	11865.5	2914	No
0111012	CONTINENTAL CEMENT CO	2885.4	588	28.39	-142.92	145.7	169	2053.7	2914	No
0110011	RINKER MATERIALS CORP(S.FT.LAUDERDALE)	2885	586	26.39	-143.32	145.7	170	309	2915	No
0112410	SFWMD PUMP STATION S-9	2882.22	555.86	-3.75	-146.1	146.1	181	3.098	2923	No
0112119	WHEELABRATOR SOUTH BROWARD	2883.39	578.87	19.26	-144.93	146.2	172	167.331	2924	No
0210032	LABELLE BUILDING SUPPLY	2921.5	459.6	-100.01	-106.82	146.3	223	53	2927	No
0111003	JOB SITE IND. DIV. OF BATES & DALY	2884.6	587.7	28.09	-143.72	146.4	169	262	2929	No
0110037	FP&L LAUDERDALE	2883.3	580.1	20.49	-145.02	146.5	172	1440.8	2929	No
0111026	HUMANE SOCIETY OF BROWARD COUNTY	2881.7	583.2	23.59	-146.62	148.5	171	2.6	2970	No
0112141	FLORIDA SILICA SAND COMPANY INC	2881.2	584.2	24.59	-147.12	149.2	171	25	2983	No

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7770048	BETTER ROADS, INC.	2963.3	425	-134.61	-65.02	149.5	244	9.84	2990	No
0112174	CENTRAL CONCRETE PLANT NO. 6	2878.17	557.79	-1.82	-150.15	150.2	181	8.8	3003	No
0150055	CORAL ROCK	2963.21	424.03	-135.58	-65.11	150.4	244	28.356	3008	No
0110010	RINKER MATERIALS CORP	2879.3	583.2	23.59	-149.02	150.9	171	3.7238	3018	No
0270003	PEACE RIVER CITRUS PRODUCTS	3010.1	409.8	-149.81	-18.22	150.9	263	79	3018	No
0112149	FRED HUNTER'S MEMORIAL SERVICES, INC.	2878.5	578.6	18.99	-149.82	151.0	173	1	3020	No
0150028	TUCKERS CORNER	2963.9	422.7	-136.91	-64.42	151.3	245	29	3026	No
0490043	IPS VANDOLAH POWER PROJECT	3044.5	408.75	-150.86	16.18	151.7	276	164	3035	No
0112051	RINKER MATERIALS CORP	2876.1	562.3	2.69	-152.22	152.2	179	5.78	3045	No
0112065	TARMAC FLORIDA, INC.	2875.7	562.3	2.69	-152.62	152.6	179	1.3	3053	No
0210018	SUNNILAND MINE	2905.8	467.8	-91.81	-122.52	153.1	217	1.91	3062	No
0490041	CF INDUSTRIES, INC.	3051.5	406.8	-152.81	23.18	154.6	279	1.35	3091	No
0112095	WEEKLEY ASPHALT PAVING,INC., PLANT NO. 1	2872.9	567.8	8.19	-155.42	155.6	177	16	3113	No
0112165	THOMAS CONCRETE OF FLORIDA INC	2872.39	559.7	0.09	-155.93	155.9	180	1	3119	No
0710002	FORT MYERS POWER PLANT	2952.9	422.3	-137.31	-75.42	156.7	241	9217.35	3133	No
0710119	LEE COUNTY ENERGY RECOVERY FACILITY	2945.7	424.96	-134.65	-82.62	158.0	238	85.2	3160	No
7770252	COMMUNITY ASPHALT CORP.	2869.3	557	-2.61	-159.02	159.0	181	42	3181	No
0250529	PAVEX CORPORATION	2868.9	558.6	-1.01	-159.42	159.4	180	13.9	3188	No
7770258	WHITE ROCK QUARRIES	2868.8	560	0.39	-159.52	159.5	180	31	3190	No
0710069	LEE MEMORIAL PARK	2944.6	423.8	-135.81	-83.72	159.5	238	5.4	3191	No
0710169	FORT MYERS MINE	2931.41	432.31	-127.3	-96.91	160.0	233	111.4	3200	No
0250374	TARMAC FLORIDA INC	2868.1	579.5	19.89	-160.22	161.4	173	148.92	3229	No
7770250	RINKER LAKE QUARRY	2866	562.8	3.19	-162.32	162.4	179	5.5	3247	No
0710030	HYDRO CONDUIT CORP/RINKER MATERIALS CORP	2946.7	419.1	-140.51	-81.62	162.5	240	4	3250	No
0210031	RACCOON POINT	2873.2	509.6	-50.01	-155.12	163.0	198	11.0288	3260	No
0250454	CENTRAL CONCRETE SUPERMIX, INC	2864.9	567.9	8.29	-163.42	163.6	177	8.5	3273	No
0710109	CITY OF FORT MYERS	2945.64	417.93	-141.68	-82.68	164.0	240	49	3281	No
0250012	RINKER MATERIALS CORP/PENNSUCO	2864.1	561.2	1.59	-164.22	164.2	179	3.6	3285	No
0710068	KREHLING INDUSTRIES	2946.1	417.4	-142.21	-82.22	164.3	240	43	3285	No
0250378	QUIKRETE MIAMI	2863.9	562	2.39	-164.42	164.4	179	5.27	3289	No
0710126	FT MYERS MINE	2931	427	-132.61	-97.32	164.5	234	17.92	3290	No
7775033	RELOCATABLE UNIT # 4	2935.37	423.73	-135.88	-92.95	164.6	236	1	3293	No
0250530	EVERGLADES RECYCLING COMPANY	2864.1	574.4	14.79	-164.22	164.9	175	18	3298	No
0710095	SW FL INTNAL AIRPORT INCINERATORS	2934.47	423.17	-136.44	-93.85	165.6	235	1.88	3312	No
0250539	DNS INDUSTRIES	2863.2	573.5	13.89	-165.12	165.7	175	4.709	3314	No

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0710130	TARTAN TEXTILE SERVICES, INC.	2947.08	415.17	-144.44	-81.24	165.7	241	2.29	3314	No
0710162	ROCK MINE	2925.73	429.4	-130.21	-102.59	165.8	232	1	3315	No
0250416	CENTRAL CONCRETE SUPERMIX, INC.	2862.1	564.6	4.99	-166.22	166.3	178	7.9	3326	No
0250502	RIOS CONCRETE PUMPING & RENTAL, INC.	2865.1	593	33.39	-163.22	166.6	168	9.2	3332	No
0250020	TARMAC-PENNSUCO CEMENT	2861.7	562.9	3.29	-166.62	166.7	179	1010.788	3333	No
0710106	COLLINS ENTERPRISES	2946	414.7	-144.91	-82.32	166.7	240	2.96	3333	No
0250659	RINKER (PREVIOUS.0250632) FEC QUARRY	2861.25	560.75	1.14	-167.07	167.1	180	3.7	3341	No
0710065	APAC FLORIDA (MACASPHALT)	2930.2	424.3	-135.31	-98.12	167.1	234	10.4	3343	No
0710039	PRODUCERS FERTILIZER	2944.68	414.88	-144.73	-83.64	167.2	240	1.75	3343	No
0710004	GULF PAVING CO	2944.1	415.2	-144.41	-84.22	167.2	240	74.74	3343	No
0250546	ARTISTIC READY MIX CORPORATION	2859.9	566.6	6.99	-168.42	168.6	178	5.3	3371	No
0250355	U S PRECAST CORP	2859.9	567.4	7.79	-168.42	168.6	177	3.1	3372	No
0250022	U S FOUNDRY MANUFACTURING CORP.	2859.8	567.3	7.69	-168.52	168.7	177	116.815	3374	No
0250394	REGAL KITCHENS, INC.	2859.5	568.3	8.69	-168.82	169.0	177	126	3381	No
0710075	FT MYERS CREMATORY SERVICE	2939.1	414.4	-145.21	-89.22	170.4	238	1.66	3409	No
0250361	MIAMI DADE ANIMAL SERVICES	2858.07	567.61	8	-170.25	170.4	177	1.1	3409	No
0250348	MIAMI DADE RRF/MONTENAY	2857.62	563.83	4.22	-170.7	170.8	179	116	3415	No
0710063	WATERWAY ESTATES WTP	2947.7	408.9	-150.71	-80.62	170.9	242	54.8376	3418	No
0710058	OLDCASTLE-OLSEN PRECAST, INC.	2949.4	407.4	-152.21	-78.92	171.5	243	17	3429	No
0250359	JOB MIX CONCRETE CO	2858.2	534.4	-25.21	-170.12	172.0	188	11	3440	No
0710059	CONCRETE SEAWALLS	2949	407	-152.61	-79.32	172.0	243	39	3440	No
0710012	CURRIER ROOFING CO., INC.	2935.3	414.6	-145.01	-93.02	172.3	237	11	3446	No
0710019	FLORIDA ROCK INDUSTRIES INC.	2930.6	417.7	-141.91	-97.72	172.3	235	107	3446	No
7775090	ASPHALT CRUSHING UNIT UNIT NO. 1	2934.56	414.65	-144.96	-93.76	172.6	237	4.4	3453	No
7775091	ASPHALT CRUSHING UNIT UNIT NO. 2	2934.56	414.65	-144.96	-93.76	172.6	237	5.05	3453	No
0710027	SCHWAB READY MIX	2930.1	417	-142.61	-98.22	173.2	235	62	3463	No
0710171	SUPERMIX INDUSTRIES, INC.	2930.95	416.38	-143.23	-97.37	173.2	236	26.44	3464	No
0710047	CAPE CORAL HOSPITAL	2946.7	406.2	-153.41	-81.62	173.8	242	6.57	3475	No
0710107	CONSTRUCTION BURNING, INC.	2931.5	414.7	-144.91	-96.82	174.3	236	213.744	3486	No
0210052	NAPLES QUARRY	2907	432.5	-127.11	-121.32	175.7	226	6.8	3514	No
0710077	BONITA SPRINGS UTILITIES INC	2913.9	424.5	-135.11	-114.42	177.0	230	2.04	3541	No
0710024	RINKER MATERIALS CORPORATION	2917.3	419.8	-139.81	-111.02	178.5	232	70	3571	No
0210023	APAC FLORIDA (MACASPHALT)	2898.8	429.2	-130.41	-129.52	183.8	225	40.41	3676	No
0210027	COLLIER COUNTY GOVERNMENT, UTILITIES DIV	2894.1	431.1	-128.51	-134.22	185.8	224	4.6428	3716	No
0210039	COLLIER COUNTY ANIMAL CONTROL	2901.34	422.89	-136.72	-126.98	186.6	227	4.42	3732	No

Table 6-6. Summary of PM-10 Facilities Considered for Inclusion in the AAQS Air Modeling Analyses for Tropicana Products, Inc. Fort Pierce Plant

Plant ID	Facility Name	UTM Coordinates North (km)	UTM Coordinates East (km)	Relative Location[a] X (km)	Relative Location[a] Y (km)	Distance (km)	Direction (deg.)	Maximum PM-10 Emissions (TPY)	(20 * Distance) (km)	Included in AAQS?[b]
0210047	RINKER MATERIALS CORPORATION	2890.1	432.1	-127.51	-138.22	188.1	223	12	3761	No
0210041	BETTER ROADS OF LAKE PLACID	2889.7	432.5	-127.11	-138.62	188.1	223	21.45	3762	No
0210007	SCHWAB READY MIX	2899.8	422	-137.61	-128.52	188.3	227	46	3766	No
0210056	FULLER FUNERAL HOME	2899.23	422.33	-137.28	-129.09	188.4	227	1.4	3769	No
0210024	FLORIDA ROCK INDUSTRIES, INC.	2893.9	424.5	-135.11	-134.42	190.6	225	50	3812	No
0210037	NAPLES CREMATORIUM	2896.6	420.1	-139.51	-131.72	191.9	227	1.4	3837	No
0210028	CITY OF NAPLES UTILITIES	2894.2	420.3	-139.31	-134.12	193.4	226	21.9	3868	No
0210026	KREHLING INDUSTRIES	2878.6	435.9	-123.71	-149.72	194.2	220	52	3884	No
0210017	JOHNSON-PITTMAN FUNERAL HOME	2888.08	424.7	-134.91	-140.24	194.6	224	1.66	3892	No
0210045	NAPLES COMMUNITY HOSPITAL	2892.5	420.2	-139.41	-135.82	194.6	226	1.104	3893	No
0210030	WATER TRTMT PLANT	2871.1	427.6	-132.01	-157.22	205.3	220	1.971	4106	No

[a] The Tropicana Ft. Pierce facility is located at UTM Coordinates: North 3028.32 km
East 559.61 km

[b] Source included in AAQS if (20 * Distance) < Emission Rate up to 100 km from Tropicana Fort Pierce

[c] Emission values taken from Title V Permit Application 6/15/1996

[d] Emission values taken from Title V Air Operation Permit 5/18/1998

Note: Sources with emission rates of <1 TPY, not included in modeling analysis

Table 6-7. Summary of PM_{10} Sources Included in the AAQS Air Modeling Analysis forTropicana Products, Inc. Fort Pierce Plant

Facility ID	Facility	Units	Modeling ID Name	Stack Parameters: Height (m)	Temper. (K)	Velocity (m/s)	Diameter (m)	Emission Rate (g/s)
1110018	INDIAN RIVER FOODS							
		60,000 LB/HR PEEL DRYER W/ TWO (2) WASTE HEAT EVAPORATORS	IRR07	28.96	333.2	10.1	1.46	1.39
		PELLET MILL COOLER	IRF11	6.10	310.9	31.3	0.52	0.98
1110003	FT PIERCE UTIL/H D KING PWR PLNT							
		2.75 MW West Diesel #1	FTPU1	7.01	783.2	11.9	0.91	0.96
		2.75 MW East Diesel #2	FTPU2	7.01	783.2	11.9	0.91	0.96
		23.4 MW Combined Cycle Gas Turbine with 8.2 MW HRSG-Unit # 9	FTPU3	20.73	492.0	18.2	3.41	2.52
		16.5 MW Boiler Unit #6	FTPU4	45.11	435.9	11.0	1.52	0.04
		33.0 MW Boiler Unit #7 (Phase II Acid Rain Unit)	FTPU7	44.81	426.5	18.6	2.16	0.06
		56.1 MW Boiler Unit #8 (Phase II Acid Rain Unit)	FTPU8	45.72	440.9	25.5	2.44	0.36
0610029	CITY OF VERO BEACH MUNICIPAL UTILITIES							
		Fossil Fuel Steam Generator Unit No.1	VERO1	60.96	415.9	32.2	1.07	1.75
		Fossil Fuel Steam Generator Unit No.2	VERO2	60.96	448.2	41.8	1.07	3.03
		Fossil Fuel Steam Generator Unit 3 (Phase II Acid Rain Unit)	VERO3	60.96	445.4	20.9	1.83	5.12
		Fossil Fuel Steam Generator Unit 4 (Phase II Acid Rain Unit)	VERO4	60.96	412.6	23.7	2.13	6.84
		Combined Cycle Gas Turbine Unit 5 (Phase II Acid Rain Unit)	VERO5	38.10	416.5	19.4	3.35	0.54
0850012	BAY STATE MILLING							
		16.5 TPH WHEAT CLEANING PLANT	BAY02	6.40	298.2	22.6	0.70	8.24
		PRECLEANING/HANDLING: PNEUMATIC CONVEYANCE SYSTEM	BAY03	7.92	298.2	8.2	1.10	8.24
		PRECLEANING/HANDLING: 31.25 TPH BULK FLOUR HNDLG/STORAGE FAC	BAY04	5.18	298.2	4.0	0.70	3.12
		PRECLEANING/HANDLING: FEED STOR&LOADOUT- 2 BINS(130,000 # EA	BAY07	20.12	298.2	3.0	0.30	0.00
		MILL HOUSE: 15 TPH FLOUR MILL W/PURIFIERS,DUSTERS &GEN.EXHAU	BAY08	6.40	298.2	10.7	0.70	1.50
		12.5 TPH Bran Grinding Hammermill with 8 Baghouses	BAY10	13.72	298.2	15.6	0.76	0.67
0850001	FPL MARTIN POWER PLANT							
		UNIT #1 STEAM GENERATOR-FRONT-FIRED - 863 MW MAX. CAPACITY	FPLM1	152.10	420.9	21.0	7.99	86.38
		UNIT #2 STEAM GENERATOR-FRONT-FIRED- 863 MW CAPACITY	FPLM2	152.10	420.9	21.3	7.92	86.38
		COMBINED CYCLE UNIT 3A,1 CT WITH 1 HT RCVY STEAM GENERATOR	FPLM3	64.92	410.9	18.6	6.10	2.28
		COMBINED CYCLE UNIT 3B, 1 CT & 1 HRSG	FPLM4	64.92	410.9	18.6	6.10	2.28
		COMBINED CYCLE UNIT 4A-1CT WITH 1 HT RCVY STEAM GENERATOR	FPLM5	64.92	410.9	18.6	6.10	2.28
		COMBINED CYCLE UNIT 4B-1 CT WITH 1 HT RCVY STEAM GENERATOR	FPLM6	64.92	410.9	18.6	6.10	2.28
0990042	FPL RIVIERA POWER PLANT							
		Fossil Fuel Steam Generator, Unit 3 -Phase II Acid Rain Unit	FPLR3	90.83	401.5	26.9	4.88	38.07
		Fossil Fuel Steam Generator, Unit 4 -Phase II Acid Rain Unit	FPLR4	90.83	401.5	26.6	4.88	38.07
0990026	SUGAR CANE GROWERS CO-OP[a]							
		BOILER #1 WITH A 2 SCRUBBERS AND 1 STACK	SCGC1	45.72	337.6	21.6	1.31	6.95
		BOILER #2 WITH 2 SCRUBBERS AND 1 STACK	SCGC2	45.72	336.5	23.2	1.31	6.95
		BOILER #3 WITH SCRUBBER	SCGC3	27.43	341.5	15.8	1.62	2.88
		BOILER #4 WITH CYCLONES AND 3 SCRUBBERS WITH ONE STACK	SCGC4	33.53	337.6	8.2	2.90	9.51
		BOILER #5 WITH CYCLONES, TWO SCRUBBERS, AND ONE STACK	SCGC5	45.72	341.5	12.3	2.13	9.13
		504 MMBTU/HR BOILER # 8 RESIDUE/BAGASSE/OIL P	SCGC8	47.24	344.8	9.1	2.90	6.29

[a] Facility operates only during the November 1 through May 31 crop season

Table 6-8. Structure Dimensions Used in the Tropicana Products, Inc. Fort Pierce Plant Modeling Analysis

Structure	Actual Building Dimensions					
	Height		Length		Width	
	ft	m	ft	m	ft	m
Concrete Tank Farm	29	8.8	308	93.9	272	82.9
Feed Warehouse Left	37	11.3	282	86.0	102	31.1
Feed Warehouse Right	37	11.3	190	57.9	102	31.1
WIP Warehouse	39	11.9	500	152.4	284	86.6
Boiler Room	29	8.8	128	39.0	74	22.6
Feed Mill	35	10.7	200	61.0	146	44.5
Extracting Building	43	13.1	240	73.2	164	50.0

Sources: LBFH, Inc., 2000; Golder, 2000.

Table 6-9. Property Boundary Receptors Used in the Tropicana Products, Inc. Fort Pierce Plant Modeling Analysis

Distance X (m)	Distance Y (m)	Distance X (m)	Distance Y (m)	Distance X (m)	Distance Y (m)
-1331.7	-399.9	252.4	-180.6	-672.6	329.8
-1231.7	-401.4	320.6	-107.5	-772.6	329.4
-1131.7	-402.9	388.8	-34.4	-872.6	328.9
-1031.7	-404.4	457	38.8	-972.6	328.5
-931.7	-405.9	488.1	106	-1072.6	328
-831.7	-407	428.3	180	-1172.6	327.6
-731.7	-405.1	386.6	270.9	-1272.6	327.1
-631.8	-403.3	327.4	334.2	-1318.1	266.8
-536.7	-415.1	227.4	333.8	-1347.6	171.2
-438.3	-406.1	127.4	333.3	-1377	75.7
-338.3	-404.6	27.4	332.9	-1406.5	-19.9
-242.8	-416.7	-72.6	332.5	-1425.5	-117.1
-142.8	-418.5	-172.6	332	-1427.2	-217.1
-42.8	-420.3	-272.6	331.6	-1425.5	-317.1
47.8	-400	-372.6	331.1	-1366.3	-389.7
116	-326.9	-472.6	330.7		
184.2	-253.8	-572.6	330.2		

Note: Distances are relative to the NW corner of the feed mill building. Receptors are placed at 100 meter spacing along the fenceline boundary of the property.

7.0 AIR MODELING ANALYSIS RESULTS

The maximum predicted SO_2 and PM_{10} concentrations from the screening analysis due to all future sources are presented in Table 7-1. The modeling results are added to a measured non-modeling background concentration to produce a cumulative total air quality concentration that can be compared with the AAQS. A summary of the maximum predicted total concentrations is presented in Table 7-2.

The maximum predicted total SO_2 concentrations are 38, 246, and 614 $\mu g/m^3$, respectively, for the annual, 24-hour, and 3-hour averaging times. These concentrations are all below the AAQS of 60, 260, and 1,300 $\mu g/m^3$, respectively, for these averaging times. These maximums are predicted to occur near the property boundary of the Fort Pierce Plant and are for fuel oil firing, which is limited to 120 days/yr. Impacts of the Fort Pierce Plant using the primary fuel of natural gas was less than the EPA significant impact levels (see Appendix B).

The maximum predicted total PM_{10} concentrations are 34 and 139 $\mu g/m^3$, respectively, for the annual and 24-hour averaging times. These concentrations are all below the AAQS of 50 and 150 $\mu g/m^3$, respectively, for these averaging times. These maximums are predicted to occur near the property boundary of the Fort Pierce Plant.

The maximum predicted total CO concentrations are 7,449 and 4,023 $\mu g/m^3$ for the 1- and 8-hour averaging times, respectively. These maximum predicted impacts are less than the AAQS of 40,000 and 10,000 $\mu g/m^3$ for the 1- and 8-hour averaging time, respectively.

The maximum predicted annual concentration for NO_2 is 31.8 $\mu g/m^3$, which is less than the AAQS of 100 $\mu g/m^3$.

Table 7-1. Maximum Predicted Pollutant Impacts Due to All Future Modeled Sources
AAQS Screening Analysis, Tropicana Fort Pierce

Averaging Time/ Pollutant	Concentration[a] (ug/m^3)	Receptor Location[b] Distance X (m)	Receptor Location[b] Distance Y (m)	Time Period (YYMMDDHH)
SO_2				
Annual	29.1	-573	330	87123124
	26.2	-573	330	88123124
	30.3	-473	331	89123124
	34.1	-573	330	90123124
	32.8	-573	330	91123124
HSH 24-Hour	208	-438	-406	87102324
	215	340	600	88112724
	184	310	600	89072124
	211	-632	-403	90042024
	224	-537	-415	91102924
HSH 3-Hour	484	-438	-406	87110124
	580	387	271	88041112
	523	-243	-417	89013115
	538	220	600	90061318
	571	-373	331	91072412
PM_{10}				
Annual	12.0	184	-254	87123124
	14.3	184	-254	88123124
	13.0	184	-254	89123124
	11.0	-473	331	90123124
	12.8	184	-254	91123124
HSH 24-Hour	86.9	184	-254	87112824
	95.3	184	-254	88070324
	79.7	-73	333	89123124
	94.9	184	-254	90110524
	102.0	252	-181	91122924
CO				
HSH 8-Hour	456	-243	-417	87050516
	507	-273	332	88123116
	489	-373	331	89060516
	505	-573	330	90031424
	515	389	-34	91060316
HSH 1-Hour	1270	110	400	87081112
	1364	170	400	88080710
	1358	327	334	89051712
	1411	320	800	90052417
	1370	100	400	91090110
NO_x				
Annual	6.7	-573	330	87123124
	5.9	-473	331	88123124
	7.0	-473	331	89123124
	7.8	-573	330	90123124
	7.5	-573	330	91123124

[a] Based on 5-year meteorological record, Palm Beach/Palm Beach, 1987-1991

[b] Relative to Northwest corner of Feed Mill Building

Note: YYMMDDHH = Year, Month, Day, Hour Ending
H2H = Highest, 2nd-Highest Concentration in 5 years

Table 7-2. Maximum Pollutant Impacts as Compared to AAQS, Tropicana Fort Pierce

Averaging Time/ Pollutant	Concentration (ug/m3)			Receptor Location		Period Ending (YYMMDDHH)	Florida AAQS (ug/m^3)
	Total	Contributed From: Modeled	Contributed From: Background	Distance X (m)	Distance Y (m)		
SO_2							
Annual	38.1	34.1	4	-573	330	90123124	60
HSH 24-Hour	246.3	224.3	22	-537	-415	91102924	260
HSH 3-Hour	614.2	580.2	34	387	271	88041112	1,300
PM_{10}							
Annual	34.3	14.3	20	184	-254	88123124	50
HSH 24-Hour	139	102	37	252	-181	91122924	150
CO							
HSH 8-Hour	4023.4	515.4	3,508	389	-34	91060316	10,000
HSH 1-Hour	7448.9	1,410.9	6,038	320	800	90052417	40,000
NO_x							
Annual	31.8	7.8	24	-573	330	90123124	100

8.0 IMPACT ANALYSES

The primary vegetation in the vicinity of the Fort Pierce Plant is pasture and citrus groves. Natural vegetation consists of South Florida slash pine and saw palmetto. As described in the air quality impact analysis (see Section 7.0), the maximum predicted SO_2, NO_2, CO, and PM_{10} concentrations in the vicinity of the site as a result of the facility are predicted to be below the AAQS. Since the AAQS are designed to protect the public welfare, including effects on soils and vegetation, no detrimental effects on soils or vegetation should occur in this area due to the facility.

9.0 REFERENCES

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APPENDIX A

EMISSION UNIT INFORMATION

(Information on each emission unit from the recently proposed Title V permit is provided for reference.)

Section III. Emission Units and Conditions.

Subsection A. This section addresses the following emission units.

E.U. ID No.	Brief Description
001	Peel Dryer / Waste Heat Evaporator (WHE) No. 1
004	Peel Dryer / Waste Heat Evaporator (WHE) No. 2

Each peel dryer is designed to evaporate a maximum of 60,000 lb/hour of water with a maximum heat input of 84.0 MMBtu/hour. Each peel dryer/WHE is capable of processing a maximum of 50 tons of pressed wet peel with a maximum production of 40,000 lb/hour of dried peel. Both emission units are fired with natural gas and No. 6 fuel oil. A medium efficiency wet scrubber control particulate emission.

The following specific conditions apply to the emission units listed above:

Essential Potential to Emit (PTE) Parameters

A.1. Permitted Capacity.

E.U. ID No.	Maximum Heat Input (MMBtu/hour)	Maximum Process Input Rate Wet Peel (Tons/hour)	Maximum Production Rate Dried Peel (Tons/hour)	Fuel Type
001 004	84.0	50	20	natural gas/ No. 6 fuel oil

A.2. Methods of Operation - (i.e., Fuels). The only fuels allowed to be burned are No. 6 fuel oil with a maximum sulfur content of 2.0 percent sulfur by weight and natural gas. Any change in fuels shall require a permit modification from the Department prior to use.
[Rule 62-213.410, F.A.C.]

A.3. Hours of Operation. These emission units are allowed to operate continuously, i.e., 8,760 hours/year.
[Rules 62-4.160(2) and 62-210.200(PTE), F.A.C.]

Emission Limitations and Standards

{Permitting note: Table 1-1, Summary of Air Pollutant Standards and Terms, summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.}

A.4. Visible Emission. Visible emission from the dryers/WHE shall not be equal to or greater than 20% opacity.
[Rule 62-296.320(4)(b)1., F.A.C.]

A.5. Particulate Matter (PM) Emission. PM emission from each dryer, shall not exceed 32.4 pounds per hour and 141.9 tons per any 12 consecutive months.
[Rule 62-296.320(4)(a)2., F.A.C.]

{Permitting note: For process weight rates in excess of 30 tons per hour, the respective allowable emission rates, E in pounds per hour is given by the following equation: $E=17.31\ P^{0.16}$}

Test Methods and Procedures

{Permitting note: Table 2-1, Summary of Compliance Requirements, summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.}

A.6. Each peel dryer shall be tested for visible emission for a 30-minute period. Each peel dryer shall be tested for particulate matter emission each federal fiscal year (Oct. 1- Sept 30).
[Rules 62-297.310(7)(a) and 62-4.070(3), F.A.C.]

A.7. Compliance with the emission limitations shall be determined each federal fiscal year (Oct. 1- Sept. 30) using EPA Methods 1, 2, 3, 4, 5, 9, contained in 40 CFR 60, Appendix A and adopted by reference in Rule 62-297, F.A.C. The minimum requirements for stationary point source emission test procedures and reporting shall be in accordance with Rule 62-297, F.A.C. and 40 CFR 60 Appendix A.
[Rule 62-297, F.A.C.]

A.8. The permittee shall demonstrate compliance with the liquid fuel sulfur content limit by the vendor providing a fuel analysis upon each fuel delivery or on analysis of as-received samples taken at the facility.
[Rules 62-213.440, F.A.C.]

A.9. The fuel sulfur content, percent by weight, for liquid fuels shall be evaluated using one of ASTM D2622-94, ASTM D4294-90(95), ASTM 1552-95, ASTM D1266-91, or both ASTM D4057-88 and ASTM D129-95 or latest editions.
[Rules 62-213.440, 62-296.406(3), and 62-297.440, F.A.C.]

Recordkeeping and Reporting Requirements

A.10. The following records shall be maintained:

Daily
- Operating hours for each dryer.
- No. 6 fuel oil usage by each dryer.
- Total pressed wet peel to each dryer in tons/day.
- Natural gas usage by each dryer.

Monthly
- Total operating hours for each dryer.
- Total No. 6 fuel oil usage by each dryer (gallons).
- Total combined pressed wet peel to the dryers in tons.
- Total natural gas usage by each dryer (cubic feet).

Daily records shall be completed by the end of the next business day; monthly logs shall be completed by the 10th day of the following month.
[Rule 62-213.440(1), F.A.C.]

Subsection B. This section addresses the following emission units.

E.U. ID No.	Brief Description
002	Steam Generator (boiler) No. 1
003	Steam Generator (boiler) No. 2
006	Steam Packaged boiler

Emission Units (EUs) 002 and 003 are process steam boilers fired with natural gas and No. 6 fuel oil. Emission unit 006 is a steam packaged firetube boiler fired only with natural gas. Unit 006 is used for normal operations and as a backup unit. Commercial operation for unit 006 began on March 27, 1996.

{Permitting note: The emission unit 006 is regulated under Rule 62-296.406, F.A.C. Fossil Fuel Steam Generators with less than 250 million Btu per hour heat input. BACT determination dated November 9, 1995}

The following conditions apply to the emission units listed above:

Essential Potential to Emit (PTE) Parameters

B.1. Methods of Operation - (i.e., Fuels). Fuel used by EUs 002 and 003 shall be limited to No. 6 fuel oil, with a sulfur content not to exceed 2.0 percent sulfur by weight, and natural gas. Fuel used by EU 006 shall be limited to natural gas.
[Rule 62-213.410, F.A.C.]

B.2. Hours of Operation. These emission units are allowed to operate continuously, i.e., 8,760 hours/year.
[Rules 62-4.160(2) and 62-210.200(PTE), F.A.C.]

{Permitting note: Table 1-1, Summary of Air Pollutant Standards and Terms, summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.}

B.3. Visible emission: Visible emission from the boilers shall not exceed 20 percent opacity except for one two-minute period per hour during which opacity shall not exceed 40 percent.
[Rule 62-296.406(1), F.A.C.]

B.4. Maximum Operation Heat Input. The maximum operational heat input rate for EUs 002 and 003 shall not exceed 63.4 MMBtu per hour per each boiler. For EU 006, the maximum heat input shall not exceed 17.0 MMBtu per hour.

Test Methods and Procedures

{Permitting note: Table 2-1, Summary of Compliance Requirements, summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.}

B.5. The boilers shall be tested for visible emission for a 60-minute period annually. Testing of emission must be conducted when the emission unit being tested is in operation and the test observation period shall include the period during which the highest opacity emission can reasonably be expected to occur. A statement of each unit's fuel type and heat input rate shall be included with all test reports.
[Rule 62-297.310(4)(a)2, F.A.C.]

B.6. Compliance with the visible emission limitation shall be determined using EPA Method 9 contained in 40 CFR 60, Appendix A and adopted by reference in Rule 62-297, F.A.C. The minimum requirements for stationary point source emission test procedures and reporting shall be in accordance with Rule 62-297, F.A.C. and 40 CFR 60 Appendix A.
[Rule 62-297.310(4)(a)2, F.A.C.]

B.7. The permittee shall demonstrate compliance with the liquid fuel sulfur content limit by the vendor providing a fuel analysis upon each fuel delivery or on analysis of as-received samples taken at the facility.
[Rules 62-213.440 and 62-296.406(3), F.A.C.]

B.8. The fuel sulfur content, percent by weight, for liquid fuels shall be evaluated using one of ASTM D2622-94, ASTM D4294-90 (95), ASTM 1552-95, ASTM D1266-91, or both ASTM D4057-88 and ASTM D129-95 or latest editions.
[Rules 62-213.440, 62-296.406(3) and 62-297.440, F.A.C.]

Monitoring of Operation

B.9. Determination of Process Variables.

(a) Required Equipment. The owner or operator of an emission unit for which compliance tests are required shall install, operate, and maintain equipment or instruments necessary to determine process variables, such as process weight input or heat input, when such data are needed in conjunction with emission data to determine the compliance of the emission unit with applicable emission limiting standards.
(b) Accuracy of Equipment. Equipment or instruments used to directly or indirectly determine process variables, including devices such as belt scales, weight hoppers, flow meters, and tank scales, shall be calibrated and adjusted to indicate the true value of the parameter being measured with sufficient accuracy to allow the applicable process variable to be determined within 10% of its true value.
[Rule 62-297.310(5), F.A.C.]

Recordkeeping and Reporting Requirements

B.10. The following records shall be maintained:

DAILY
- Operating hours of each boiler
- Natural gas usage (cubic feet)
- Fuel oil usage (gallons)
- Record of sulfur content

MONTHLY
- Total operating hours of each boiler
- Total natural gas usage by each boiler (cubic feet)
- Fuel oil usage by each boiler (gallons)

Daily records shall be completed by the end of the next business day; and monthly logs shall be completed by the10th day of the following month.
[Rule 62-213.440(1), F.A.C.]

Subsection C. This section addresses the following emission unit.

E.U. ID No.	Brief Description
007	Pellet Mill and Coolers

Dried citrus peel is processed in two pellet mills which can process a maximum of 40 tons per hour of dry peel to produce dry pellets or bulk feed. The dried pellets are cooled with ambient air and formed into animal feed. A common baghouse is used to control particulate matter emission.

The following conditions apply to the emission unit listed above:

Essential Potential to Emit (PTE) Parameters

C.1. Permitted Capacity. The maximum process rate, which include moisture, for the pellet coolers shall not exceed 40 tons per hour.
[Rule 62-4160(2), and 62-210.200, (PTE), F.A.C.]

C.2. Hours of Operation. This emission unit is allowed to operate continuously, i.e., 8,760 hours/year.
[Rules 62-4.160(2) and 62-210.200(PTE), F.A.C.]

Emission Limitations and Standards

{Permitting note: Table 1-1, Summary of Air Pollutant Standards and Terms, summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.}

C.3. Visible Emission. Visible emission from the Pellet Mill and Coolers shall not be equal to or greater than 20% opacity.
[Rule 62-296.320(b)1, F.A.C.]

C.4. The maximum process rate is 40 tons per hour, which equates to a particulate emission limit of 31.23 pounds per hour and 137.0 tons per twelve consecutive months.
[Rule 62-296.320(4)(a), F.A.C.]

Test Methods and Procedures

{Permitting note: Table 2-1, Summary of Compliance Requirements, summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.}

C.5. The pellet coolers shall be tested for visible emission for a 30 minute period each federal fiscal year (Oct. 1-Sept. 30). The pellet coolers shall be tested for particulate matter emission prior to permit renewal
[Rule 62-297.310(7)(a), F.A.C.]

C.6. A visible emission test indicating no visible emission (5 percent opacity) may be submitted in lieu of a particulate matter emission stack test.
[Rule 62-296.712(2)(c), F.A.C.]

Recordkeeping and Reporting Requirements

C.7. The following records shall be maintained:

Daily
- Operating hours of the coolers.
- Average dry peel input rate to the coolers in tons/hour.

Monthly
- Total hours of operation.
- Total peel to the coolers in tons/month.

Daily records shall be completed by the end of the next business date; Monthly logs shall be completed by the 10th day of the following month.
[Rule 62-213.440(1), F.A.C.]

Abbreviations and Acronyms:

°F: Degrees Fahrenheit
BACT: Best Available Control Technology
CFR: Code of Federal Regulations
DEP: State of Florida, Department of Environmental Protection
DARM: Division of Air Resource Management
EPA: United States Environmental Protection Agency
F.A.C.: Florida Administrative Code
F.S.: Florida Statutes
ISO: International Standards Organization
LAT: Latitude
LONG: Longitude
MMBtu: million British thermal units
MW: Megawatt
ORIS: Office of Regulatory Information Systems
SOA: Specific Operating Agreement
UTM: Universal Transverse Mercator

Citations:

The following examples illustrate the methods used in this permit to abbreviate and cite the references of rules, regulations, guidance memorandums, permit numbers, and ID numbers.

Code of Federal Regulations:

Example: **[40 CFR 60.334]**
Where 40 refers to Title 40, CFR refers to Code of Federal Regulations, 60 refers to Part 60, and 60.334 refers to Regulation 60.334

Florida Administrative Code (F.A.C.) Rules:

Example: **[Rule 62-213.205, F.A.C.] or [F.A.C. Rule 62-213.205]**
Where 62 refers to Title 62, 62-213 refers to Chapter 62-213, and 62-213.205 refers to Rule 62-213.205, F.A.C.

Guidance Memorandums from the Bureau of Air Regulation, Department of Environmental Protection:

Example: **[DARM-PER/GEN-12]** (Refers to a specific, numbered guidance memorandum.)

Identification Numbers:

Facility Identification (ID) Number:

Example: **Facility ID No.: 1119521**
Where 111 refers to the three digit county number code (111 is St. Lucie County) and 9521 refers to the four digit number assigned for the facility by DEP's database.

Permit Numbers:

Example: **1119521-002-AV or 1119521-001-AC**
Where AC refers to an Air Construction Permit, AV refers to a Title V Air Operation Permit, 1119521 refers to the facility ID number, and 001 or 002 refers to the three digit sequential project number assigned by DEP's permit tracking database

Example: **PSD-FL-185 or PA95-01 or AC56-299422**
Where PSD-FL refers to a Florida DEP Prevention of Significant Deterioration Permit, PA refers to a Florida Power Plant Siting Act Certification, and AC56-299422 refers to an older Air Construction Permit.

Facility: Tropicana Products, Inc.
Permit Number: 1110004-002-AV

Reporting Period

This report is for the period January 1 through December 31 of _____ (year)

Note: The reporting period for this report shall be the calendar year, January 1 through December 31, and is due no later than January 31st of the following year.

Compliance Statement (Please check one and submit the required information)

_____ This facility is in compliance with all conditions and requirements of the Title V Air Pollution Operation Permit. Please identify in an attachment to this report all methods used to demonstrate compliance with all conditions and requirements of this permit.

_____ This facility is in compliance with all conditions and requirements of the Title V Air Pollution Operation Permit, EXCEPT those identified in an attachment to this report. For each item of non-compliance, please include the following information:

1. Emission unit identification number;
2. Specific permit condition number;
3. Description of any deviations from this permit, including those attributable to upset conditions, including malfunctions;
4. The inclusive dates that the source was not in compliance;
5. Identification of the probable cause for non-compliance;
6. The actions taken to achieve compliance; and
7. The method used to demonstrate compliance.

Certification by Responsible Official

As the designated Responsible Official of this facility, I certify this report to be true, accurate, and complete based upon information and belief formed after reasonable inquiry.

Name: _____ Title: _____

Sign: _____ Date: _____

Appendix H-1, Permit History/ID Number Changes

Tropicana Products, Inc.
Ft. Pierce Citrus Processing Plant

Facility ID No.:1110004

Permit History (for tracking purposes):

EU	DESCRIPTION	PERMIT No.	Issue Date	Expiration Date
001	Dehydrator	AC-73030	02/08/73	2/08/74
		AO 56-4005	09/23/76	9/23/80
		AO 56-034878	10/16/80	
		AC 56-4006	10/01/76	5/01/77
		AO 56-52455	06/21/82	6/15/87
		AO 56-1815611	08/23/90	7/08/95
002	Boiler No. 1	AC 56-201A	10/07/74	3/31/76
		AO 56-4007	10/01/76	10/01/81
		AO 56-44286	08/10/81	8/10/86
		AO 56-47098	10/02/81	8/10/86
		AO 56-119718	06/27/86	6/27/91
003	Boiler No. 2	AO 56-44287	08/10/81	8/10/86
		AO 56-119720	06/27/86	6/27/91
002/003	Boilers No. 1 & No.2	AO 56-195346	06/26/91	6/27/96
		AC-2016	03/30/73	9/01/73
Inactive	Boiler No. 3	AO 56-034878	10/16/80	
		AO 56-112414	12/20/85	12/20/90
		AO 56-181565	08/23/90	12/20/95
	Boiler	AO 56-47099	10/02/81	8/10/86
	Boiler	AC 56-105492	09/06/85	1/31/86
004	Dehydrator No. 2	AO 56-132575	05/28/87	
		AO 56-211342	07/28/92	6/01/97
006	Boiler/Kewanee	1110004-001-AC	12/12/95	12/12/2000

[electronic file name: 1110004h.doc]

Appendix I-1, List of Insignificant Emission Units and/or Activities.

Tropicana Products, Inc. PROPOSED Permit No.: 1110004-002-AV
Ft. Pierce Citrus Processing Plant Facility ID No.: 1110004

The facilities, emission units, or pollutant-emitting activities listed in Rule 62-210.300(3)(a), F.A.C., Categorical Exemptions, are exempt from the permitting requirements of Chapters 62-210 and 62-4, F.A.C.; provided, however, that exempt emission units shall be subject to any applicable emission limiting standards and the emission from exempt emission units or activities shall be considered in determining the potential emission of the facility containing such emission units. Emission units and pollutant-emitting activities exempt from permitting under Rule 62-210.300(3)(a), F.A.C., shall not be exempt from the permitting requirements of Chapter 62-213, F.A.C., if they are contained within a Title V source; however, such emission units and activities shall be considered insignificant for Title V purposes provided they also meet the criteria of Rule 62-213.430(6)(b), F.A.C. No emission unit shall be entitled to an exemption from permitting under Rule 62.210.300(3)(a), F.A.C., if its emission, in combination with the emission of other units and activities at the facility, would cause the facility to emit or have the potential to emit any pollutant in such amount as to make the facility a Title V source.

The below listed emission units and/or activities are considered insignificant pursuant to Rule 62-213.430(6), F.A.C.

Brief Description of Emission Units and/or Activities

1. Feed Mill operations
2. Dried pellet handling
3. 6 Bunker C fuel oil tanks @ 25,000 gallons, each
4. 2 Diesel fuel tanks @ 300 gallons, each
5. 1 Recycled compressor oil tank @ 300 gallons
6. 1 Oil recovery unit @ 300 gallons
7. 1 Gasoline tank @ 5,000 gallons
8. 1 Diesel No. 2 tank @ 15,000 gallons
9. Maintenance shop
10. Chlorine Disinfection
11. Loading & unloading of trucks
12. Ammonia Refrigeration
13. Wastewater Treatments without cooling towers
14. Juice/Pulp Process
15. Fruit Processing
16. D'Limonene, Citrus Essences and Oils
17. Packaging

[electronic file name: 1110004g.doc]

APPENDIX B

AIR MODELING ANALYSIS
AND
DIRECTION-SPECIFIC BUILDING DATA

TROPICANA PRODUCTS, INC.

FORT PIERCE PLANT

SO_2 AAQS ANALYSIS

ISCST3 OUTPUT FILE NUMBER 1 :csiso2.o87
ISCST3 OUTPUT FILE NUMBER 2 :csiso2.o88
ISCST3 OUTPUT FILE NUMBER 3 :csiso2.o89
ISCST3 OUTPUT FILE NUMBER 4 :csiso2.o90
ISCST3 OUTPUT FILE NUMBER 5 :csiso2.o91
First title for last output file is: 1987 Tropicana Fort Pierce Plant, AAQS Analysis 9/7/00
Second title for last output file is: Palm Beach/Palm Beach Met Data, 1987-91, SO2 @1.5% S

AVERAGING TIME	YEAR	CONC (ug/m3)	DIR (deg) or X (m)	DIST (m) or Y (m)	PERIOD ENDING (YYMMDDHH)
SOURCE GROUP ID: ALL					
Annual					
	1987	29.1	-573.	330.	87123124
	1988	26.2	-573.	330.	88123124
	1989	30.3	-473.	331.	89123124
	1990	34.1	-573.	330.	90123124
	1991	32.8	-573.	330.	91123124
HIGH 24-Hour					
	1987	259.0	-473.	331.	87051824
	1988	247.1	340.	600.	88012024
	1989	228.4	-632.	-403.	89111224
	1990	257.6	-732.	-405.	90042024
	1991	242.1	-773.	329.	91052124
HSH 24-Hour					
	1987	208.1	-438.	-406.	87102324
	1988	215.4	340.	600.	88112724
	1989	183.5	310.	600.	89072124
	1990	211.2	-632.	-403.	90042024
	1991	224.3	-537.	-415.	91102924
HIGH 3-Hour					
	1987	654.4	-338.	-405.	87032215
	1988	661.6	20.	400.	88060815
	1989	580.5	327.	334.	89070312
	1990	577.3	327.	334.	90091612
	1991	651.3	100.	400.	91071215
HSH 3-Hour					
	1987	484.0	-438.	-406.	87110124
	1988	580.2	387.	271.	88041112
	1989	523.3	-243.	-417.	89013115
	1990	538.2	220.	600.	90061318
	1991	570.7	-373.	331.	91072412

All receptor computations reported with respect to a user-specified origin

GRID	0.00	0.00
DISCRETE	0.00	0.00

```
CO STARTINGTropFinal\CSISO2.I87
CO TITLEONE 1987 Tropicana Fort Pierce Plant, AAQS Analysis 9/7/00
CO TITLETWO Palm Beach/Palm Beach Met Data, 1987-91, SO2 @1.5% S
CO MODELOPT CONC   RURAL DFAULT NOCMPL
CO AVERTIME PERIOD 24 3
CO POLLUTID SO2
CO DCAYCOEF    .000000
CO RUNORNOT RUN
CO FINISHED

SO STARTING
** TROPICANA ORIGIN IS NW CORNER OF FEED MILL
SO LOCATION ORGN    POINT        0.0       0.0      .0
SO SRCPARAM ORGN    0.0      0.0     0.0     0.0     0.0
** TROPICANA SOURCES              #            MODEL ID NAME
** ------------------------------------------------------------
** Dryer No. 1                    1                 001
** Dryer No. 2                    4                 004
** Boiler No. 1                   2                 002
** Boiler No. 2                   3                 003
** Package Boiler                 6                 006
** Pellet Coolers                 7                 007
** Tropicana Stack Locations
SO LOCATION  001  POINT  22.6   -21.3       0.
SO LOCATION  004  POINT  31.1   -21.3       0.
SO LOCATION  002  POINT  64.0    15.8       0.
SO LOCATION  003  POINT  65.8    11.6       0.
SO LOCATION  006  POINT  67.7    17.1       0.
SO LOCATION  007  POINT  15.2     0.0       0.

** OTHER SOURCES                                                    #          MODEL ID NAME
** ------------------------------------------------------------------------------------------------------
** 1110040 RANGER/FT PIERCE/PLNT#129
** 250T/HR [RECYCLE(50%) ]DRUM MIX(S/N666-88A)                     2          FPP2
** 1110003 FT PIERCE UTIL/H D KING PWR PLNT
** 2.75 MW West Diesel #1                                          1          FPU1
** 2.75 MW East Diesel #2                                          2          FPU2
** 23.4 MW Combined Cycle Gas Turbine with 8.2 MW HRSG-Unit # 9    3          FPU3
** 16.5 MW Boiler Unit #6                                          4          FPU4
** 33.0 MW Boiler Unit #7 (Phase II Acid Rain Unit)                7          FPU7
** 56.1 MW Boiler Unit #8 (Phase II Acid Rain Unit)                8          FPU8
** 0610029 CITY OF VERO BEACH MUNICIPAL UTILITIES
** Fossil Fuel Steam Generator Unit No.1                           1          VERO1
** Fossil Fuel Steam Generator Unit No.2                           2          VERO2
** Fossil Fuel Steam Generator Unit 3 (Phase II Acid Rain Unit)    3          VERO3
** Fossil Fuel Steam Generator Unit 4 (Phase II Acid Rain Unit)    4          VERO4
** Combined Cycle Gas Turbine Unit 5 (Phase II Acid Rain Unit)     5          VERO5
** 0850102 INDIANTOWN COGENERATION PLANT
** Pulverized Coal Main Boiler                                     1          IND1
** (2) Auxiliary Boilers                                           3          IND3
** 0850001 FLORIDA POWER & LIGHT MARTIN PLANT
** UNIT #1 STEAM GENERATOR-FRONT-FIRED - 863 MW MAX. CAPACITY      1          FPLM1
** UNIT #2 STEAM GENERATOR-FRONT-FIRED- 863 MW CAPACITY            2          FPLM2
** COMBINED CYCLE UNIT 3A,1 CT WITH 1 HT RCVY STEAM GENERATOR      3          FPLM3
** COMBINED CYCLE UNIT 3B, 1 CT & 1 HRSG                           4          FPLM4
** COMBINED CYCLE UNIT 4A-1CT WITH 1 HT RCVY STEAM GENERATOR       5          FPLM5
** COMBINED CYCLE UNIT 4B-1 CT WITH 1 HT RCVY STEAM GENERATOR      6          FPLM6
** 0990061 U.S.SUGAR CORP. BRYANT MILL
** BOILER #1 WITH SCRUBBER                                         1          USSB1
** BOILER #2 WITH SCRUBBERS                                        2          USSB2
** BOILER #3 WITH SCRUBBER                                         3          USSB3
** BOILER #5 WITH TWO SCRUBBERS.                                   5          USSB5
** DIESEL ELECTRIC GENERATOR UNITS 1 + 2                           7          USSB7
** 0990042 FLORIDA POWER & LIGHT (PRV) RIVIERA
** Fossil Fuel Steam Generator, Unit 3 -Phase II Acid Rain Unit    3          FPLR3
** Fossil Fuel Steam Generator, Unit 4 -Phase II Acid Rain Unit    4          FPLR4
** 0990026 SUGAR CANE GROWERS CO-OP
** BOILER #1 WITH A 2 SCRUBBERS AND 1 STACK                        1          SCGC1
** BOILER #2 WITH 2 SCRUBBERS AND 1 STACK                          2          SCGC2
** BOILER #3 WITH SCRUBBER                                         3          SCGC3
** BOILER #4 WITH CYCLONES AND 3 SCRUBBERS WITH ONE STACK          4          SCGC4
** BOILER #5 WITH CYCLONES, TWO SCRUBBERS, AND ONE STACK           5          SCGC5
** 504 MMBTU/HR BOILER # 8 RESIDUE/BAGASSE/OIL                     8          SCGC8
** 0510003 U.S. SUGAR CLEWISTON MILL AND REFINERY
** Boiler #1 Crop Season                                           1          USSC1
** Boiler #2 Crop Season                                           2          USSC2
** Boiler #3Crop Season                                            3          USSC3
** Boiler #4 Crop Season                                           4          USSC4
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** Boiler #7 Crop Season                                          7          USSC7
** Boiler #1 Off Crop Season                                      1          USSCO1
** Boiler #2 Off Crop Season                                      2          USSCO2
** Boiler #3 Off Crop Season                                      3          USSCO3
** Boiler #7 Off Crop Season                                      7          USSCO7
** 0990045 LAKE WORTH UTILITIES AUTHORITY:TG SMITH PLANT
** 2000 KW DIESEL GENERATOR # 1 PEAKING UNIT                      1          LWU1
** 2000 KW DIESEL GENERATOR # 2 PEAKING UNIT                      2          LWU2
** 2000 KW DIESEL GENERATOR # 3 PEAKING UNIT                      3          LWU3
** 2000 KW DIESEL GENERATOR # 4 PEAKING UNIT                      4          LWU4
** 2000 KW DIESEL GENERATOR # 5 PEAKING UNIT                      5          LWU5
** GAS TURBINE # 1                                               6          LWU6
** 7.5 MW FOSSIL FUEL STEAM GENERATING UNIT I                    7          LWU7
** FOSSIL FUEL STEAM GENERATOR #3 (Phase II, Acid Rain Unit)     9          LWU9
** FOSSIL FUEL STEAM GENERATOR #4 (Phase II, Acid Rain Unit)     10         LWU10
** COMBINED CYCLE UNIT (GT-2/S-5)                                11         LWU11
** 0990005 OKEELANTA CORP
** BAGASSE BOILER #4 WITH DUCON MULTIVANE SCRUBBER               1          OKEE1
** BOILER #5 WITH SCRUBBERS                                      2          OKEE2
** BOILER # 6 FIRED BY BAGASSE AND NO. 6 FUEL OIL                3          OKEE3
** BOILER # 10, RATED @ 125000 #/HR STEAM WITH DUCON M/VANE SCR  4          OKEE4
** BOILER # 11 FIRED WITH BAGASSE AND NO. 6 FUEL OIL             5          OKEE5
** BOILER #12 WITH MECH COLLECTOR AND SCRUBBER                   6          OKEE6
** BOILER #14 RATED AT 150000 LBS/HR STEAM WITH SCRUBBER & DUST  7          OKEE7
** BOILER #15 125000 LBS/HR STEAM WITH SCRUBBER & DUST COLLECTO  8          OKEE8
** BOILER #16 150000 LBS/HR STEAM, 205 MMBTU/HR                  9          OKEE9
** 0990332 OKEELANTA COGENERATION PLANT
** 715 MMBTU/HR COGENERATION BOILER NO. 1                        1          OKEC1
** 715 MMBTU/HR COGENERATION BOILER NO. 2                        2          OKEC2
** 715 MMBTU/HR COGENERATION BOILER NO. 3                        3          OKEC3
** 0550018 TAMPA ELECTRIC CO.:PHILLIPS STATION
** SLOW SPEED DIESEL ELECTRIC GENERATOR UNIT 1                   1          TECO1
** SLOW SPEED DIESEL ELECTRIC GENERATOR UNIT 2                   2          TECO2

** Other Sources
SO LOCATION     FPP2     POINT   2060    1850    0.
SO LOCATION     FPU1     POINT   6510    8030    0.
SO LOCATION     FPU2     POINT   6510    8030    0.
SO LOCATION     FPU3     POINT   6510    8030    0.
SO LOCATION     FPU4     POINT   6510    8030    0.
SO LOCATION     FPU7     POINT   6510    8030    0.
SO LOCATION     FPU8     POINT   6510    8030    0.
SO LOCATION     VERO1    POINT   1790    28180   0.
SO LOCATION     VERO2    POINT   1790    28180   0.
SO LOCATION     VERO3    POINT   1790    28180   0.
SO LOCATION     VERO4    POINT   1790    28180   0.
SO LOCATION     VERO5    POINT   1790    28180   0.
SO LOCATION     IND1     POINT   -11960  -37620  0.
SO LOCATION     IND3     POINT   -11960  -37620  0.
SO LOCATION     FPLM1    POINT   -16930  -35670  0.
SO LOCATION     FPLM2    POINT   -16930  -35670  0.
SO LOCATION     FPLM3    POINT   -16930  -35670  0.
SO LOCATION     FPLM4    POINT   -16930  -35670  0.
SO LOCATION     FPLM5    POINT   -16930  -35670  0.
SO LOCATION     FPLM6    POINT   -16930  -35670  0.
SO LOCATION     USSB1    POINT   -21780  -59200  0.
SO LOCATION     USSB2    POINT   -21780  -59200  0.
SO LOCATION     USSB3    POINT   -21780  -59200  0.
SO LOCATION     USSB5    POINT   -21780  -59200  0.
SO LOCATION     USSB7    POINT   -21780  -59200  0.
SO LOCATION     FPLR3    POINT   34640   -67690  0.
SO LOCATION     FPLR4    POINT   34640   -67690  0.
SO LOCATION     SCGC1    POINT   -24710  -75020  0.
SO LOCATION     SCGC2    POINT   -24710  -75020  0.
SO LOCATION     SCGC3    POINT   -24710  -75020  0.
SO LOCATION     SCGC4    POINT   -24710  -75020  0.
SO LOCATION     SCGC5    POINT   -24710  -75020  0.
SO LOCATION     SCGC8    POINT   -24710  -75020  0.
SO LOCATION     USSC1    POINT   -53510  -71440  0.
SO LOCATION     USSC2    POINT   -53510  -71440  0.
SO LOCATION     USSC3    POINT   -53510  -71440  0.
SO LOCATION     USSC4    POINT   -53510  -71440  0.
SO LOCATION     USSC7    POINT   -53510  -71440  0.
SO LOCATION     USSCO1   POINT   -53510  -71440  0.
SO LOCATION     USSCO2   POINT   -53510  -71440  0.
SO LOCATION     USSCO3   POINT   -53510  -71440  0.
SO LOCATION     USSCO7   POINT   -53510  -71440  0.
SO LOCATION     LWU1     POINT   33190   -84620  0.
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SO LOCATION     LWU2    POINT   33190   -84620  0.
SO LOCATION     LWU3    POINT   33190   -84620  0.
SO LOCATION     LWU4    POINT   33190   -84620  0.
SO LOCATION     LWU5    POINT   33190   -84620  0.
SO LOCATION     LWU6    POINT   33190   -84620  0.
SO LOCATION     LWU7    POINT   33190   -84620  0.
SO LOCATION     LWU9    POINT   33190   -84620  0.
SO LOCATION     LWU10   POINT   33190   -84620  0.
SO LOCATION     LWU11   POINT   33190   -84620  0.
SO LOCATION     OKEE1   POINT   -34710  -88220  0.
SO LOCATION     OKEE2   POINT   -34710  -88220  0.
SO LOCATION     OKEE3   POINT   -34710  -88220  0.
SO LOCATION     OKEE4   POINT   -34710  -88220  0.
SO LOCATION     OKEE5   POINT   -34710  -88220  0.
SO LOCATION     OKEE6   POINT   -34710  -88220  0.
SO LOCATION     OKEE7   POINT   -34710  -88220  0.
SO LOCATION     OKEE8   POINT   -34710  -88220  0.
SO LOCATION     OKEE9   POINT   -34710  -88220  0.
SO LOCATION     OKEC1   POINT   -35520  -88310  0.
SO LOCATION     OKEC2   POINT   -35520  -88310  0.
SO LOCATION     OKEC3   POINT   -35520  -88310  0.
SO LOCATION     TECO1   POINT   -95310  7080    0.
SO LOCATION     TECO2   POINT   -95310  7080    0.

** Source Parameter Cards:
** POINT:   SRCID          QS      HS      TS      VS      DS
**                       (g/s)    (m)     (K)    (m/s)    (m)
** Tropicana Sources
SO SRCPARAM 001          15.87   28.96   333.2   19.29   0.97
SO SRCPARAM 004          15.87   28.96   333.2   19.29   0.97
SO SRCPARAM 002          11.98   18.29   584.3   41.24   0.61
SO SRCPARAM 003          11.98   18.29   584.3   41.24   0.61
SO SRCPARAM 006          0.01    18.29   505.4   12.77   0.61
SO SRCPARAM 007          0.00    6.10    305.4    0.01   1.22

** Other Sources
** 1110040      RANGER/FT PIERCE/PLNT#129
SO SRCPARAM FPP2    5.07    7.01    435.9   51.5    0.76
** 1110003      FT PIERCE UTIL/H D KING PWR PLNT
SO SRCPARAM FPU1    1.50    7.01    783.2   11.9    0.91
SO SRCPARAM FPU2    1.50    7.01    783.2   11.9    0.91
SO SRCPARAM FPU3    31.82   20.73   492.0   18.2    3.41
SO SRCPARAM FPU4    0.25    45.11   435.9   11.0    1.52
SO SRCPARAM FPU7    0.25    44.81   426.5   18.6    2.16
SO SRCPARAM FPU8    2.32    45.72   440.9   25.5    2.44
** 0610029      CITY OF VERO BEACH MUNICIPAL UTILITIES
SO SRCPARAM VERO1   28.77   60.96   437.0   32.4    1.07
SO SRCPARAM VERO2   84.21   60.96   434.3   37.6    1.07
SO SRCPARAM VERO3   142.07  60.96   440.4   19.9    1.83
SO SRCPARAM VERO4   69.05   60.96   425.4   24.4    2.13
SO SRCPARAM VERO5   15.50   38.10   416.5   19.6    3.35
** 0850102      INDIANTOWN COGENERATION PLANT
SO SRCPARAM IND1    58.12   150.88  333.2   28.4    4.88
SO SRCPARAM IND3    0.21    64.01   449.8   26.7    1.52
** 0850001      FLORIDA POWER & LIGHT MARTIN PLANT
SO SRCPARAM FPLM1   691.06  152.10  420.9   21.0    7.99
SO SRCPARAM FPLM2   691.06  152.10  420.9   21.3    7.92
SO SRCPARAM FPLM3   12.95   64.92   410.9   18.6    6.10
SO SRCPARAM FPLM4   12.95   64.92   410.9   18.6    6.10
SO SRCPARAM FPLM5   12.95   64.92   410.9   18.6    6.10
SO SRCPARAM FPLM6   12.95   64.92   410.9   18.6    6.10
** 0990061      U.S.SUGAR CORP. BRYANT MILL
SO SRCPARAM USSB1   13.47   19.81   338.7   37.6    1.65
SO SRCPARAM USSB2   13.47   19.81   338.7   36.9    1.65
SO SRCPARAM USSB3   13.47   19.81   338.7   36.4    1.65
SO SRCPARAM USSB5   5.24    45.72   338.7   18.0    2.90
SO SRCPARAM USSB7   0.11    8.53    519.3   13.0    0.37
** 0990042      FLORIDA POWER & LIGHT (PRV) RIVIERA
SO SRCPARAM FPLR3   837.61  90.83   401.5   26.9    4.88
SO SRCPARAM FPLR4   837.61  90.83   401.5   26.6    4.88
** 0990026      SUGAR CANE GROWERS CO-OP
SO SRCPARAM SCGC1   16.49   45.72   337.6   21.6    1.31
SO SRCPARAM SCGC2   16.49   45.72   336.5   23.2    1.31
SO SRCPARAM SCGC3   6.83    27.43   341.5   15.8    1.62
SO SRCPARAM SCGC4   28.21   33.53   337.6   8.2     2.90
SO SRCPARAM SCGC5   21.67   45.72   341.5   12.3    2.13
SO SRCPARAM SCGC8   24.87   47.24   344.8   9.1     2.90
** 0510003      U.S. SUGAR CLEWISTON MILL AND REFINERY
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SO SRCPARAM USSC1   78.79   64.92   347.0   15.4    2.44
SO SRCPARAM USSC2   78.49   64.92   338.7   13.9    2.44
SO SRCPARAM USSC3   47.08   64.92   333.2   6.8     2.44
SO SRCPARAM USSC4   21.53   45.72   344.3   20.3    2.51
SO SRCPARAM USSC7   13.91   68.58   405.4   20.8    2.59
SO SRCPARAM USSC01  51.64   64.92   347.0   14.1    2.44
SO SRCPARAM USSC02  51.27   64.92   338.7   12.7    2.44
SO SRCPARAM USSC03  30.74   64.92   333.2   6.2     2.44
SO SRCPARAM USSC07  17.39   68.58   405.4   23.6    2.59
** 0990045      LAKE WORTH UTILITIES AUTHORITY:TG SMITH PLANT
SO SRCPARAM LWU1    0.76    5.18    625.9   37.1    0.56
SO SRCPARAM LWU2    0.76    5.18    625.9   37.1    0.56
SO SRCPARAM LWU3    0.76    5.18    625.9   37.1    0.56
SO SRCPARAM LWU4    0.76    5.18    625.9   37.1    0.56
SO SRCPARAM LWU5    0.76    5.18    625.9   37.1    0.56
SO SRCPARAM LWU6    15.64   14.02   720.4   24.8    4.88
SO SRCPARAM LWU7    27.34   18.29   422.0   10.5    1.52
SO SRCPARAM LWU9    80.07   34.44   418.2   15.7    2.13
SO SRCPARAM LWU10   103.22  35.05   418.2   17.0    2.29
SO SRCPARAM LWU11   10.90   22.86   479.8   26.7    3.05
** 0990005      OKEELANTA CORP
SO SRCPARAM OKEE1   5.39    22.86   347.0   11.9    2.29
SO SRCPARAM OKEE2   15.73   22.86   344.3   13.2    2.29
SO SRCPARAM OKEE3   12.41   22.86   355.4   11.7    2.29
SO SRCPARAM OKEE4   15.81   22.86   338.7   16.8    2.29
SO SRCPARAM OKEE5   12.08   22.86   335.9   19.2    2.29
SO SRCPARAM OKEE6   37.74   22.86   341.5   13.9    2.29
SO SRCPARAM OKEE7   37.71   22.86   341.5   14.4    2.29
SO SRCPARAM OKEE8   12.48   22.86   333.2   19.5    2.29
SO SRCPARAM OKEE9   5.63    22.86   483.2   22.8    1.52
** 0990332      OKEELANTA COGENERATION PLANT
SO SRCPARAM OKEC1   24.35   60.66   419.3   15.9    3.05
SO SRCPARAM OKEC2   24.35   60.66   419.3   15.9    3.05
SO SRCPARAM OKEC3   24.35   60.66   419.3   15.9    3.05
** 0550018      TAMPA ELECTRIC CO.:PHILLIPS STATION
SO SRCPARAM TECO1   45.86   45.72   441.5   24.1    1.83
SO SRCPARAM TECO2   45.86   45.72   449.8   24.1    1.83


SO BUILDHGT 001     10.67   10.67   10.67   10.67   10.67   10.67
SO BUILDHGT 001     10.67   10.67   10.67   10.67   13.11   13.11
SO BUILDHGT 001     10.67   10.67   10.67   10.67   10.67   10.67
SO BUILDHGT 001     10.67   10.67   10.67   10.67   10.67   10.67
SO BUILDHGT 001     10.67   10.67   10.67   10.67   13.11   13.11
SO BUILDHGT 001     13.11   13.11   13.11   13.11   13.11   10.67
SO BUILDWID 001     66.49   70.00   71.39   70.60   67.67   62.68
SO BUILDWID 001     55.79   49.65   44.50   51.55   67.41   75.64
SO BUILDWID 001     67.67   70.60   71.39   70.00   66.49   60.96
SO BUILDWID 001     66.49   70.00   71.39   70.60   67.67   62.68
SO BUILDWID 001     55.79   49.65   44.50   51.55   67.41   75.64
SO BUILDWID 001     81.58   85.03   85.91   84.17   79.87   60.96


SO BUILDHGT 004     13.11   10.67   10.67   10.67   10.67   10.67
SO BUILDHGT 004     10.67   10.67   10.67   10.67   13.11   13.11
SO BUILDHGT 004     13.11   13.11   10.67   10.67   10.67   10.67
SO BUILDHGT 004     13.11   10.67   10.67   10.67   10.67   10.67
SO BUILDHGT 004     10.67   10.67   10.67   10.67   13.11   13.11
SO BUILDHGT 004     13.11   13.11   13.11   13.11   13.11   13.11
SO BUILDWID 004     73.31   70.00   71.39   70.60   67.67   62.68
SO BUILDWID 004     55.79   49.65   44.50   51.55   67.41   75.64
SO BUILDWID 004     81.58   85.03   71.39   70.00   66.49   60.96
SO BUILDWID 004     73.31   70.00   71.39   70.60   67.67   62.68
SO BUILDWID 004     55.79   49.65   44.50   51.55   67.41   75.64
SO BUILDWID 004     81.58   85.03   85.91   84.17   79.87   73.15


SO BUILDHGT 002     10.67   10.67   10.67   10.67   10.67   10.67
SO BUILDHGT 002     10.67   10.67    8.84    8.84   11.28   11.28
SO BUILDHGT 002     11.28   11.28   11.28   11.28   10.67   10.67
SO BUILDHGT 002     10.67   10.67   10.67   10.67   10.67   10.67
SO BUILDHGT 002     10.67   10.67    8.84    8.84    8.84    8.84
SO BUILDHGT 002      8.84    8.84   10.67   10.67   10.67   10.67
SO BUILDWID 002     66.49   70.00   71.39   70.60   67.67   62.68
SO BUILDWID 002     55.79   49.65   22.56   23.30   65.05   65.70
SO BUILDWID 002     64.35   61.04   55.88   49.02   99.20   60.96
SO BUILDWID 002     66.49   70.00   71.39   70.60   67.67   62.68
SO BUILDWID 002     55.79   49.65   22.56   23.30   27.61   31.12
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SO BUILDWID 002        35.35   38.51   85.91   91.75   99.20   60.96

SO BUILDHGT 003        13.11   13.11   13.11   10.67   10.67   10.67
SO BUILDHGT 003        10.67   10.67    8.84    8.84   11.28   11.28
SO BUILDHGT 003        11.28   11.28   11.28   11.28   10.67   10.67
SO BUILDHGT 003        10.67   10.67   10.67   10.67   10.67   10.67
SO BUILDHGT 003        10.67   10.67    8.84    8.84    8.84    8.84
SO BUILDHGT 003         8.84    8.84   13.11   13.11   13.11   13.11
SO BUILDWID 003        73.31   71.24   67.01   70.60   67.67   62.68
SO BUILDWID 003        55.79   49.65   22.56   23.30   65.05   65.70
SO BUILDWID 003        64.35   61.04   55.88   49.02   99.20   60.96
SO BUILDWID 003        66.49   70.00   71.39   70.60   67.67   62.68
SO BUILDWID 003        55.79   49.65   22.56   23.30   27.61   31.12
SO BUILDWID 003        35.35   38.51   85.91   84.17   79.87   73.15

SO BUILDHGT 006        10.67   10.67   10.67   10.67   10.67   10.67
SO BUILDHGT 006        10.67   10.67    8.84   11.28   11.28   11.28
SO BUILDHGT 006        11.28   11.28   11.28   11.28   10.67   10.67
SO BUILDHGT 006        10.67   10.67   10.67   10.67   10.67   10.67
SO BUILDHGT 006        10.67   10.67    8.84    8.84    8.84    8.84
SO BUILDHGT 006         8.84    8.84   10.67   10.67   10.67   10.67
SO BUILDWID 006        66.49   70.00   71.39   70.60   67.67   62.68
SO BUILDWID 006        55.79   49.65   22.56   90.05   65.05   65.70
SO BUILDWID 006        64.35   61.04   55.88   49.02   99.20  103.63
SO BUILDWID 006        66.49   70.00   71.39   70.60   67.67   62.68
SO BUILDWID 006        55.79   49.65   22.56   23.30   27.61   31.12
SO BUILDWID 006        35.35   38.51   85.91   91.75   99.20  103.63

SO BUILDHGT 007        10.67   11.28   11.28   10.67   10.67   10.67
SO BUILDHGT 007        10.67   10.67   10.67   10.67   10.67   10.67
SO BUILDHGT 007        11.28   11.28   11.28   11.28   11.28   11.28
SO BUILDHGT 007        11.28   11.28   11.28   10.67   10.67   10.67
SO BUILDHGT 007        10.67   10.67   10.67   10.67   10.67   13.11
SO BUILDHGT 007        13.11   13.11   13.11   13.11   13.11   10.67
SO BUILDWID 007        66.49   92.41  101.05   70.60   67.67   62.68
SO BUILDWID 007        55.79   49.65   44.50   51.55   57.04   62.68
SO BUILDWID 007        85.83   79.07   69.90   49.02   40.67   31.09
SO BUILDWID 007        40.67   49.02   55.88   70.60   67.67   62.68
SO BUILDWID 007        55.79   49.65   44.50   51.55   57.04   75.64
SO BUILDWID 007        81.58   85.03   85.91   84.17   79.87   60.96

SO EMISUNIT    .100000E+07 (GRAMS/SEC)          (MICROGRAMS/CUBIC-METER)
SO SRCGROUP ALL
SO FINISHED

RE STARTING
RE GRIDPOLR POL STA
RE GRIDPOLR POL ORIG     0.0     0.0
RE GRIDPOLR POL DIST    1500 2000 2500 3000 4000 5000
RE GRIDPOLR POL GDIR  36.   10    10.00
RE GRIDPOLR POL END

**  FENCELINE RECEPTORS AT 100-M INTERVALS
RE DISCCART    -1331.7    -399.9
RE DISCCART    -1231.7    -401.4
RE DISCCART    -1131.7    -402.9
RE DISCCART    -1031.7    -404.4
RE DISCCART     -931.7    -405.9
RE DISCCART     -831.7    -407.0
RE DISCCART     -731.7    -405.1
RE DISCCART     -631.8    -403.3
RE DISCCART     -536.7    -415.1
RE DISCCART     -438.3    -406.1
RE DISCCART     -338.3    -404.6
RE DISCCART     -242.8    -416.7
RE DISCCART     -142.8    -418.5
RE DISCCART      -42.8    -420.3
RE DISCCART       47.8    -400.0
RE DISCCART      116.0    -326.9
RE DISCCART      184.2    -253.8
RE DISCCART      252.4    -180.6
RE DISCCART      320.6    -107.5
RE DISCCART      388.8     -34.4
RE DISCCART      457.0      38.8
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RE DISCCART      488.1     106.0
RE DISCCART      428.3     180.0
RE DISCCART      386.6     270.9
RE DISCCART      327.4     334.2
RE DISCCART      227.4     333.8
RE DISCCART      127.4     333.3
RE DISCCART       27.4     332.9
RE DISCCART      -72.6     332.5
RE DISCCART     -172.6     332.0
RE DISCCART     -272.6     331.6
RE DISCCART     -372.6     331.1
RE DISCCART     -472.6     330.7
RE DISCCART     -572.6     330.2
RE DISCCART     -672.6     329.8
RE DISCCART     -772.6     329.4
RE DISCCART     -872.6     328.9
RE DISCCART     -972.6     328.5
RE DISCCART    -1072.6     328.0
RE DISCCART    -1172.6     327.6
RE DISCCART    -1272.6     327.1
RE DISCCART    -1318.1     266.8
RE DISCCART    -1347.6     171.2
RE DISCCART    -1377.0      75.7
RE DISCCART    -1406.5     -19.9
RE DISCCART    -1425.5    -117.1
RE DISCCART    -1427.2    -217.1
RE DISCCART    -1425.5    -317.1
RE DISCCART    -1366.3    -389.7

** PROPERTY BOUNDARY RECEPTORS WITH ADDITION OFF-SITE RECEPTORS AT
** 1500,2000,2500,3000,4000, AND 5000 M CENTERED ON ORGN
RE DISCPOLR ORGN      400.        10
RE DISCPOLR ORGN      600.        10
RE DISCPOLR ORGN      800.        10
RE DISCPOLR ORGN     1000.        10
RE DISCPOLR ORGN     1200.        10
RE DISCPOLR ORGN     1400.        10
RE DISCPOLR ORGN      400.        20
RE DISCPOLR ORGN      600.        20
RE DISCPOLR ORGN      800.        20
RE DISCPOLR ORGN     1000.        20
RE DISCPOLR ORGN     1200.        20
RE DISCPOLR ORGN     1400.        20
RE DISCPOLR ORGN      400.        30
RE DISCPOLR ORGN      600.        30
RE DISCPOLR ORGN      800.        30
RE DISCPOLR ORGN     1000.        30
RE DISCPOLR ORGN     1200.        30
RE DISCPOLR ORGN     1400.        30
RE DISCPOLR ORGN      600.        40
RE DISCPOLR ORGN      800.        40
RE DISCPOLR ORGN     1000.        40
RE DISCPOLR ORGN     1200.        40
RE DISCPOLR ORGN     1400.        40
RE DISCPOLR ORGN      600.        50
RE DISCPOLR ORGN      800.        50
RE DISCPOLR ORGN     1000.        50
RE DISCPOLR ORGN     1200.        50
RE DISCPOLR ORGN     1400.        50
RE DISCPOLR ORGN      600.        60
RE DISCPOLR ORGN      800.        60
RE DISCPOLR ORGN     1000.        60
RE DISCPOLR ORGN     1200.        60
RE DISCPOLR ORGN     1400.        60
RE DISCPOLR ORGN      600.        70
RE DISCPOLR ORGN      800.        70
RE DISCPOLR ORGN     1000.        70
RE DISCPOLR ORGN     1200.        70
RE DISCPOLR ORGN     1400.        70
RE DISCPOLR ORGN      600.        80
RE DISCPOLR ORGN      800.        80
RE DISCPOLR ORGN     1000.        80
RE DISCPOLR ORGN     1200.        80
RE DISCPOLR ORGN     1400.        80
RE DISCPOLR ORGN      600.        90
RE DISCPOLR ORGN      800.        90
RE DISCPOLR ORGN     1000.        90
RE DISCPOLR ORGN     1200.        90
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RE	DISCPOLR	ORGN	1400. 90
RE	DISCPOLR	ORGN	400. 100
RE	DISCPOLR	ORGN	600. 100
RE	DISCPOLR	ORGN	800. 100
RE	DISCPOLR	ORGN	1000. 100
RE	DISCPOLR	ORGN	1200. 100
RE	DISCPOLR	ORGN	1400. 100
RE	DISCPOLR	ORGN	400. 110
RE	DISCPOLR	ORGN	600. 110
RE	DISCPOLR	ORGN	800. 110
RE	DISCPOLR	ORGN	1000. 110
RE	DISCPOLR	ORGN	1200. 110
RE	DISCPOLR	ORGN	1400. 110
RE	DISCPOLR	ORGN	400. 120
RE	DISCPOLR	ORGN	600. 120
RE	DISCPOLR	ORGN	800. 120
RE	DISCPOLR	ORGN	1000. 120
RE	DISCPOLR	ORGN	1200. 120
RE	DISCPOLR	ORGN	1400. 120
RE	DISCPOLR	ORGN	400. 130
RE	DISCPOLR	ORGN	600. 130
RE	DISCPOLR	ORGN	800. 130
RE	DISCPOLR	ORGN	1000. 130
RE	DISCPOLR	ORGN	1200. 130
RE	DISCPOLR	ORGN	1400. 130
RE	DISCPOLR	ORGN	400. 140
RE	DISCPOLR	ORGN	600. 140
RE	DISCPOLR	ORGN	800. 140
RE	DISCPOLR	ORGN	1000. 140
RE	DISCPOLR	ORGN	1200. 140
RE	DISCPOLR	ORGN	1400. 140
RE	DISCPOLR	ORGN	400. 150
RE	DISCPOLR	ORGN	600. 150
RE	DISCPOLR	ORGN	800. 150
RE	DISCPOLR	ORGN	1000. 150
RE	DISCPOLR	ORGN	1200. 150
RE	DISCPOLR	ORGN	1400. 150
RE	DISCPOLR	ORGN	400. 160
RE	DISCPOLR	ORGN	600. 160
RE	DISCPOLR	ORGN	800. 160
RE	DISCPOLR	ORGN	1000. 160
RE	DISCPOLR	ORGN	1200. 160
RE	DISCPOLR	ORGN	1400. 160
RE	DISCPOLR	ORGN	400. 170
RE	DISCPOLR	ORGN	600. 170
RE	DISCPOLR	ORGN	800. 170
RE	DISCPOLR	ORGN	1000. 170
RE	DISCPOLR	ORGN	1200. 170
RE	DISCPOLR	ORGN	1400. 170
RE	DISCPOLR	ORGN	600. 180
RE	DISCPOLR	ORGN	800. 180
RE	DISCPOLR	ORGN	1000. 180
RE	DISCPOLR	ORGN	1200. 180
RE	DISCPOLR	ORGN	1400. 180
RE	DISCPOLR	ORGN	600. 190
RE	DISCPOLR	ORGN	800. 190
RE	DISCPOLR	ORGN	1000. 190
RE	DISCPOLR	ORGN	1200. 190
RE	DISCPOLR	ORGN	1400. 190
RE	DISCPOLR	ORGN	600. 200
RE	DISCPOLR	ORGN	800. 200
RE	DISCPOLR	ORGN	1000. 200
RE	DISCPOLR	ORGN	1200. 200
RE	DISCPOLR	ORGN	1400. 200
RE	DISCPOLR	ORGN	600. 210
RE	DISCPOLR	ORGN	800. 210
RE	DISCPOLR	ORGN	1000. 210
RE	DISCPOLR	ORGN	1200. 210
RE	DISCPOLR	ORGN	1400. 210
RE	DISCPOLR	ORGN	600. 220
RE	DISCPOLR	ORGN	800. 220
RE	DISCPOLR	ORGN	1000. 220
RE	DISCPOLR	ORGN	1200. 220
RE	DISCPOLR	ORGN	1400. 220
RE	DISCPOLR	ORGN	800. 230
RE	DISCPOLR	ORGN	1000. 230
RE	DISCPOLR	ORGN	1200. 230
RE	DISCPOLR	ORGN	1400. 230

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RE DISCPOLR ORGN     1000.       240
RE DISCPOLR ORGN     1200.       240
RE DISCPOLR ORGN     1400.       240
RE DISCPOLR ORGN     1200.       250
RE DISCPOLR ORGN     1400.       250
RE DISCPOLR ORGN     1400.       280
RE DISCPOLR ORGN     1000.       290
RE DISCPOLR ORGN     1200.       290
RE DISCPOLR ORGN     1400.       290
RE DISCPOLR ORGN      700.       300
RE DISCPOLR ORGN      800.       300
RE DISCPOLR ORGN     1000.       300
RE DISCPOLR ORGN     1200.       300
RE DISCPOLR ORGN     1400.       300
RE DISCPOLR ORGN      600.       310
RE DISCPOLR ORGN      700.       310
RE DISCPOLR ORGN      800.       310
RE DISCPOLR ORGN     1000.       310
RE DISCPOLR ORGN     1200.       310
RE DISCPOLR ORGN     1400.       310
RE DISCPOLR ORGN      600.       320
RE DISCPOLR ORGN      800.       320
RE DISCPOLR ORGN     1000.       320
RE DISCPOLR ORGN     1200.       320
RE DISCPOLR ORGN     1400.       320
RE DISCPOLR ORGN      400.       330
RE DISCPOLR ORGN      600.       330
RE DISCPOLR ORGN      800.       330
RE DISCPOLR ORGN     1000.       330
RE DISCPOLR ORGN     1200.       330
RE DISCPOLR ORGN     1400.       330
RE DISCPOLR ORGN      400.       340
RE DISCPOLR ORGN      600.       340
RE DISCPOLR ORGN      800.       340
RE DISCPOLR ORGN     1000.       340
RE DISCPOLR ORGN     1200.       340
RE DISCPOLR ORGN     1400.       340
RE DISCPOLR ORGN      400.       350
RE DISCPOLR ORGN      600.       350
RE DISCPOLR ORGN      800.       350
RE DISCPOLR ORGN     1000.       350
RE DISCPOLR ORGN     1200.       350
RE DISCPOLR ORGN     1400.       350
RE DISCPOLR ORGN      400.       360
RE DISCPOLR ORGN      600.       360
RE DISCPOLR ORGN      800.       360
RE DISCPOLR ORGN     1000.       360
RE DISCPOLR ORGN     1200.       360
RE DISCPOLR ORGN     1400.       360

RE FINISHED

ME STARTING
ME INPUTFIL P:\MET\PBIPBI87.MET
ME ANEMHGHT    33  FEET
ME SURFDATA  12844     1987     WEST-PALM-BCH
ME UAIRDATA  12844     1987     WEST-PALM-BCH
ME FINISHED

OU STARTING
OU RECTABLE ALLAVE FIRST SECOND
OU FINISHED
```

TROPICANA PRODUCTS, INC.

FORT PIERCE PLANT

PM_{10} AAQS ANALYSIS

ISCST3 OUTPUT FILE NUMBER 1 :CSIPM.087
ISCST3 OUTPUT FILE NUMBER 2 :CSIPM.088
ISCST3 OUTPUT FILE NUMBER 3 :CSIPM.089
ISCST3 OUTPUT FILE NUMBER 4 :CSIPM.090
ISCST3 OUTPUT FILE NUMBER 5 :CSIPM.091
First title for last output file is: 1987 Tropicana Fort Pierce Plant, AAQS Analysis 9/7/00
Second title for last output file is: Palm Beach/Palm Beach Met Data, 1987-91, PM.10 @1.5% S

AVERAGING TIME	YEAR	CONC (ug/m3)	DIR (deg) or X (m)	DIST (m) or Y (m)	PERIOD ENDING (YYMMDDHH)
SOURCE GROUP ID: ALL					
Annual					
	1987	12.0	184.	-254.	87123124
	1988	14.3	184.	-254.	88123124
	1989	13.0	184.	-254.	89123124
	1990	11.0	-473.	331.	90123124
	1991	12.8	184.	-254.	91123124
HIGH 24-Hour					
	1987	92.9	120.	400.	87091424
	1988	125.3	252.	-181.	88110724
	1989	100.9	140.	400.	89020824
	1990	122.6	184.	-254.	90030624
	1991	137.6	184.	-254.	91122224
HSH 24-Hour					
	1987	86.9	184.	-254.	87112824
	1988	95.3	184.	-254.	88070324
	1989	79.7	-73.	333.	89123124
	1990	94.9	184.	-254.	90110524
	1991	102.0	252.	-181.	91122924

All receptor computations reported with respect to a user-specified origin

GRID	0.00	0.00
DISCRETE	0.00	0.00

```
CO STARTINGTropFinal\CSIPM.I87
CO TITLEONE 1987 Tropicana Fort Pierce Plant, AAQS Analysis 9/7/00
CO TITLETWO Palm Beach/Palm Beach Met Data, 1987-91, PM.10 @1.5% S
CO MODELOPT CONC   RURAL DFAULT NOCMPL
CO AVERTIME PERIOD 24
CO POLLUTID PM.10
CO DCAYCOEF    .000000
CO RUNORNOT RUN
CO FINISHED

SO STARTING
** TROPICANA ORIGIN IS NW CORNER OF FEED MILL
SO LOCATION ORGN    POINT        0.0       0.0      .0
SO SRCPARAM ORGN    0.0      0.0     0.0     0.0     0.0
** TROPICANA SOURCES              #           MODEL ID NAME
** ------------------------------------------------------
** Dryer No. 1                    1                 001
** Dryer No. 2                    4                 004
** Boiler No. 1                   2                 002
** Boiler No. 2                   3                 003
** Package Boiler                 6                 006
** Pellet Coolers                 7                 007

** Tropicana Stack Locations
SO LOCATION  001  POINT  22.6   -21.3       0.
SO LOCATION  004  POINT  31.1   -21.3       0.
SO LOCATION  002  POINT  64.0    15.8       0.
SO LOCATION  003  POINT  65.8    11.6       0.
SO LOCATION  006  POINT  67.7    17.1       0.
SO LOCATION  007  POINT  15.2     0.0       0.

** OTHER SOURCES                                                    #           MODEL ID NAME
** ------------------------------------------------------------------------------------------
** 1110018 INDIAN RIVER FOODS
** 60,000 LB/HR PEEL DRYER W/ TWO (2) WASTE HEAT EVAPORATORS       7               IRF07
** PELLET MILL COOLER                                             11              IRF11
** 1110003 FT PIERCE UTIL/H D KING PWR PLNT
** 2.75 MW West Diesel #1                                         1               FTPU1
** 2.75 MW East Diesel #2                                         2               FTPU2
** 23.4 MW Combined Cycle Gas Turbine with 8.2 MW HRSG-Unit # 9   3               FTPU3
** 16.5 MW Boiler Unit #6                                         4               FTPU4
** 33.0 MW Boiler Unit #7 (Phase II Acid Rain Unit)               7               FTPU7
** 56.1 MW Boiler Unit #8 (Phase II Acid Rain Unit)               8               FTPU8
** 0610029 CITY OF VERO BEACH MUNICIPAL UTILITIES
** Fossil Fuel Steam Generator Unit No.1                          1               VERO1
** Fossil Fuel Steam Generator Unit No.2                          2               VERO2
** Fossil Fuel Steam Generator Unit 3 (Phase II Acid Rain Unit)   3               VERO3
** Fossil Fuel Steam Generator Unit 4 (Phase II Acid Rain Unit)   4               VERO4
** Combined Cycle Gas Turbine Unit 5 (Phase II Acid Rain Unit)    5               VERO5
** 0850012 BAY STATE MILLING
** 16.5 TPH WHEAT CLEANING PLANT                                  2               BAY02
** PRECLEANING/HANDLING: PNEUMATIC CONVEYANCE SYSTEM              3               BAY03
** PRECLEANING/HANDLING: 31.25 TPH BULK FLOUR HNDLG/STORAGE FAC   4               BAY04
** PRECLEANING/HANDLING: FEED STOR&LOADOUT- 2 BINS(130,000 # EA   7               BAY07
** MILL HOUSE: 15 TPH FLOUR MILL W/PURIFIERS,DUSTERS &GEN.EXHAU   8               BAY08
** 12.5 TPH Bran Grinding Hammermill with 8 Baghouses             10              BAY10
** 0850001 FPL MARTIN POWER PLANT
** UNIT #1 STEAM GENERATOR-FRONT-FIRED - 863 MW MAX. CAPACITY     1               FPLM1
** UNIT #2 STEAM GENERATOR-FRONT-FIRED- 863 MW CAPACITY           2               FPLM2
** COMBINED CYCLE UNIT 3A,1 CT WITH 1 HT RCVY STEAM GENERATOR     3               FPLM3
** COMBINED CYCLE UNIT 3B, 1 CT & 1 HRSG                          4               FPLM4
** COMBINED CYCLE UNIT 4A-1CT WITH 1 HT RCVY STEAM GENERATOR      5               FPLM5
** COMBINED CYCLE UNIT 4B-1 CT WITH 1 HT RCVY STEAM GENERATOR     6               FPLM6
** 0990042 FPL RIVIERA POWER PLANT
** Fossil Fuel Steam Generator, Unit 3 -Phase II Acid Rain Unit   3               FPLR3
** Fossil Fuel Steam Generator, Unit 4 -Phase II Acid Rain Unit   4               FPLR4
** 0990026 SUGAR CANE GROWERS CO-OP
** BOILER #1 WITH A 2 SCRUBBERS AND 1 STACK                       1               SCGC1
** BOILER #2 WITH 2 SCRUBBERS AND 1 STACK                         2               SCGC2
** BOILER #3 WITH SCRUBBER                                        3               SCGC3
** BOILER #4 WITH CYCLONES AND 3 SCRUBBERS WITH ONE STACK         4               SCGC4
** BOILER #5 WITH CYCLONES, TWO SCRUBBERS, AND ONE STACK          5               SCGC5
** 504 MMBTU/HR BOILER # 8 RESIDUE/BAGASSE/OIL                    8               SCGC8

** Other Sources
SO LOCATION     IRF07   POINT   2820    2160    0.
SO LOCATION     IRF11   POINT   2820    2160    0.
SO LOCATION     FTPU1   POINT   6510    8030    0.
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SO LOCATION     FTPU2   POINT   6510    8030    0.
SO LOCATION     FTPU3   POINT   6510    8030    0.
SO LOCATION     FTPU4   POINT   6510    8030    0.
SO LOCATION     FTPU7   POINT   6510    8030    0.
SO LOCATION     FTPU8   POINT   6510    8030    0.
SO LOCATION     VERO1   POINT   1790    28180   0.
SO LOCATION     VERO2   POINT   1790    28180   0.
SO LOCATION     VERO3   POINT   1790    28180   0.
SO LOCATION     VERO4   POINT   1790    28180   0.
SO LOCATION     VERO5   POINT   1790    28180   0.
SO LOCATION     BAY02   POINT   -12210  -36640  0.
SO LOCATION     BAY03   POINT   -12210  -36640  0.
SO LOCATION     BAY04   POINT   -12210  -36640  0.
SO LOCATION     BAY07   POINT   -12210  -36640  0.
SO LOCATION     BAY08   POINT   -12210  -36640  0.
SO LOCATION     BAY10   POINT   -12210  -36640  0.
SO LOCATION     FPLM1   POINT   -16930  -35670  0.
SO LOCATION     FPLM2   POINT   -16930  -35670  0.
SO LOCATION     FPLM3   POINT   -16930  -35670  0.
SO LOCATION     FPLM4   POINT   -16930  -35670  0.
SO LOCATION     FPLM5   POINT   -16930  -35670  0.
SO LOCATION     FPLM6   POINT   -16930  -35670  0.
SO LOCATION     FPLR3   POINT   34640   -67690  0.
SO LOCATION     FPLR4   POINT   34640   -67690  0.
SO LOCATION     SCGC1   POINT   -24710  -75020  0.
SO LOCATION     SCGC2   POINT   -24710  -75020  0.
SO LOCATION     SCGC3   POINT   -24710  -75020  0.
SO LOCATION     SCGC4   POINT   -24710  -75020  0.
SO LOCATION     SCGC5   POINT   -24710  -75020  0.
SO LOCATION     SCGC8   POINT   -24710  -75020  0.


** Source Parameter Cards:
** POINT:   SRCID          QS      HS      TS      VS      DS
**                       (g/s)    (m)     (K)    (m/s)    (m)
** Tropicana Sources
SO SRCPARAM 001          4.08    28.96   333.2   19.29   0.97
SO SRCPARAM 004          4.08    28.96   333.2   19.29   0.97
SO SRCPARAM 002          0.91    18.29   584.3   41.24   0.61
SO SRCPARAM 003          0.91    18.29   584.3   41.24   0.61
SO SRCPARAM 006          0.004   18.29   505.4   12.77   0.61
SO SRCPARAM 007          1.26    6.10    305.4   0.01    1.22

** Other Sources
** 1110018      INDIAN RIVER FOODS
SO SRCPARAM IRF07       1.39    28.96   333.2   10.1    1.46
SO SRCPARAM IRF11       0.98    6.10    310.9   31.3    0.52
** 1110003      FT PIERCE UTIL/H D KING PWR PLNT
SO SRCPARAM FTPU1       0.96    7.01    783.2   11.9    0.91
SO SRCPARAM FTPU2       0.96    7.01    783.2   11.9    0.91
SO SRCPARAM FTPU3       2.52    20.73   492.0   18.2    3.41
SO SRCPARAM FTPU4       0.04    45.11   435.9   11.0    1.52
SO SRCPARAM FTPU7       0.06    44.81   426.5   18.6    2.16
SO SRCPARAM FTPU8       0.36    45.72   440.9   25.5    2.44
** 0610029      CITY OF VERO BEACH MUNICIPAL UTILITIES
SO SRCPARAM VERO1       1.75    60.96   415.9   32.2    1.07
SO SRCPARAM VERO2       3.03    60.96   448.2   41.8    1.07
SO SRCPARAM VERO3       5.12    60.96   445.4   20.9    1.83
SO SRCPARAM VERO4       6.84    60.96   412.6   23.7    2.13
SO SRCPARAM VERO5       0.54    38.10   416.5   19.4    3.35
** 0850012      BAY STATE MILLING
SO SRCPARAM BAY02       8.24    6.40    298.2   22.6    0.70
SO SRCPARAM BAY03       8.24    7.92    298.2   8.2     1.10
SO SRCPARAM BAY04       3.12    5.18    298.2   4.0     0.70
SO SRCPARAM BAY07       0.00    20.12   298.2   3.0     0.30
SO SRCPARAM BAY08       1.50    6.40    298.2   10.7    0.70
SO SRCPARAM BAY10       0.67    13.72   298.2   15.6    0.76
** 0850001      FPL MARTIN POWER PLANT
SO SRCPARAM FPLM1       86.38   152.10  420.9   21.0    7.99
SO SRCPARAM FPLM2       86.38   152.10  420.9   21.3    7.92
SO SRCPARAM FPLM3       2.28    64.92   410.9   18.6    6.10
SO SRCPARAM FPLM4       2.28    64.92   410.9   18.6    6.10
SO SRCPARAM FPLM5       2.28    64.92   410.9   18.6    6.10
SO SRCPARAM FPLM6       2.28    64.92   410.9   18.6    6.10
** 0990042      FPL RIVIERA POWER PLANT
SO SRCPARAM FPLR3       38.07   90.83   401.5   26.9    4.88
SO SRCPARAM FPLR4       38.07   90.83   401.5   26.6    4.88
** 0990026      SUGAR CANE GROWERS CO-OP
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SO SRCPARAM SCGC1      6.95    45.72   337.6   21.6    1.31
SO SRCPARAM SCGC2      6.95    45.72   336.5   23.2    1.31
SO SRCPARAM SCGC3      2.88    27.43   341.5   15.8    1.62
SO SRCPARAM SCGC4      9.51    33.53   337.6   8.2     2.90
SO SRCPARAM SCGC5      9.13    45.72   341.5   12.3    2.13
SO SRCPARAM SCGC8      6.29    47.24   344.8   9.1     2.90


SO BUILDHGT 001      10.67   10.67   10.67   10.67   10.67   10.67
SO BUILDHGT 001      10.67   10.67   10.67   10.67   13.11   13.11
SO BUILDHGT 001      10.67   10.67   10.67   10.67   10.67   10.67
SO BUILDHGT 001      10.67   10.67   10.67   10.67   10.67   10.67
SO BUILDHGT 001      10.67   10.67   10.67   10.67   13.11   13.11
SO BUILDHGT 001      13.11   13.11   13.11   13.11   13.11   10.67
SO BUILDWID 001      66.49   70.00   71.39   70.60   67.67   62.68
SO BUILDWID 001      55.79   49.65   44.50   51.55   67.41   75.64
SO BUILDWID 001      67.67   70.60   71.39   70.00   66.49   60.96
SO BUILDWID 001      66.49   70.00   71.39   70.60   67.67   62.68
SO BUILDWID 001      55.79   49.65   44.50   51.55   67.41   75.64
SO BUILDWID 001      81.58   85.03   85.91   84.17   79.87   60.96


SO BUILDHGT 004      13.11   10.67   10.67   10.67   10.67   10.67
SO BUILDHGT 004      10.67   10.67   10.67   10.67   13.11   13.11
SO BUILDHGT 004      13.11   13.11   10.67   10.67   10.67   10.67
SO BUILDHGT 004      13.11   10.67   10.67   10.67   10.67   10.67
SO BUILDHGT 004      10.67   10.67   10.67   10.67   13.11   13.11
SO BUILDHGT 004      13.11   13.11   13.11   13.11   13.11   13.11
SO BUILDWID 004      73.31   70.00   71.39   70.60   67.67   62.68
SO BUILDWID 004      55.79   49.65   44.50   51.55   67.41   75.64
SO BUILDWID 004      81.58   85.03   71.39   70.00   66.49   60.96
SO BUILDWID 004      73.31   70.00   71.39   70.60   67.67   62.68
SO BUILDWID 004      55.79   49.65   44.50   51.55   67.41   75.64
SO BUILDWID 004      81.58   85.03   85.91   84.17   79.87   73.15


SO BUILDHGT 002      10.67   10.67   10.67   10.67   10.67   10.67
SO BUILDHGT 002      10.67   10.67    8.84    8.84   11.28   11.28
SO BUILDHGT 002      11.28   11.28   11.28   11.28   10.67   10.67
SO BUILDHGT 002      10.67   10.67   10.67   10.67   10.67   10.67
SO BUILDHGT 002      10.67   10.67    8.84    8.84    8.84    8.84
SO BUILDHGT 002       8.84    8.84   10.67   10.67   10.67   10.67
SO BUILDWID 002      66.49   70.00   71.39   70.60   67.67   62.68
SO BUILDWID 002      55.79   49.65   22.56   23.30   65.05   65.70
SO BUILDWID 002      64.35   61.04   55.88   49.02   99.20   60.96
SO BUILDWID 002      66.49   70.00   71.39   70.60   67.67   62.68
SO BUILDWID 002      55.79   49.65   22.56   23.30   27.61   31.12
SO BUILDWID 002      35.35   38.51   85.91   91.75   99.20   60.96


SO BUILDHGT 003      13.11   13.11   13.11   10.67   10.67   10.67
SO BUILDHGT 003      10.67   10.67    8.84    8.84   11.28   11.28
SO BUILDHGT 003      11.28   11.28   11.28   11.28   10.67   10.67
SO BUILDHGT 003      10.67   10.67   10.67   10.67   10.67   10.67
SO BUILDHGT 003      10.67   10.67    8.84    8.84    8.84    8.84
SO BUILDHGT 003       8.84    8.84   13.11   13.11   13.11   13.11
SO BUILDWID 003      73.31   71.24   67.01   70.60   67.67   62.68
SO BUILDWID 003      55.79   49.65   22.56   23.30   65.05   65.70
SO BUILDWID 003      64.35   61.04   55.88   49.02   99.20   60.96
SO BUILDWID 003      66.49   70.00   71.39   70.60   67.67   62.68
SO BUILDWID 003      55.79   49.65   22.56   23.30   27.61   31.12
SO BUILDWID 003      35.35   38.51   85.91   84.17   79.87   73.15


SO BUILDHGT 006      10.67   10.67   10.67   10.67   10.67   10.67
SO BUILDHGT 006      10.67   10.67    8.84   11.28   11.28   11.28
SO BUILDHGT 006      11.28   11.28   11.28   11.28   10.67   10.67
SO BUILDHGT 006      10.67   10.67   10.67   10.67   10.67   10.67
SO BUILDHGT 006      10.67   10.67    8.84    8.84    8.84    8.84
SO BUILDHGT 006       8.84    8.84   10.67   10.67   10.67   10.67
SO BUILDWID 006      66.49   70.00   71.39   70.60   67.67   62.68
SO BUILDWID 006      55.79   49.65   22.56   90.05   65.05   65.70
SO BUILDWID 006      64.35   61.04   55.88   49.02   99.20  103.63
SO BUILDWID 006      66.49   70.00   71.39   70.60   67.67   62.68
SO BUILDWID 006      55.79   49.65   22.56   23.30   27.61   31.12
SO BUILDWID 006      35.35   38.51   85.91   91.75   99.20  103.63
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SO BUILDHGT 007        10.67   11.28   11.28   10.67   10.67   10.67
SO BUILDHGT 007        10.67   10.67   10.67   10.67   10.67   10.67
SO BUILDHGT 007        11.28   11.28   11.28   11.28   11.28   11.28
SO BUILDHGT 007        11.28   11.28   11.28   10.67   10.67   10.67
SO BUILDHGT 007        10.67   10.67   10.67   10.67   10.67   13.11
SO BUILDHGT 007        13.11   13.11   13.11   13.11   13.11   10.67
SO BUILDWID 007        66.49   92.41  101.05   70.60   67.67   62.68
SO BUILDWID 007        55.79   49.65   44.50   51.55   57.04   62.68
SO BUILDWID 007        85.83   79.07   69.90   49.02   40.67   31.09
SO BUILDWID 007        40.67   49.02   55.88   70.60   67.67   62.68
SO BUILDWID 007        55.79   49.65   44.50   51.55   57.04   75.64
SO BUILDWID 007        81.58   85.03   85.91   84.17   79.87   60.96

SO EMISUNIT    .100000E+07 (GRAMS/SEC)          (MICROGRAMS/CUBIC-METER)
SO SRCGROUP ALL
SO FINISHED

RE STARTING
RE GRIDPOLR POL STA
RE GRIDPOLR POL ORIG     0.0    0.0
RE GRIDPOLR POL DIST   1500 2000 2500 3000 4000 5000
RE GRIDPOLR POL GDIR  36.  10   10.00
RE GRIDPOLR POL END

**  FENCELINE RECEPTORS AT 100-M INTERVALS
RE DISCCART    -1331.7    -399.9
RE DISCCART    -1231.7    -401.4
RE DISCCART    -1131.7    -402.9
RE DISCCART    -1031.7    -404.4
RE DISCCART     -931.7    -405.9
RE DISCCART     -831.7    -407.0
RE DISCCART     -731.7    -405.1
RE DISCCART     -631.8    -403.3
RE DISCCART     -536.7    -415.1
RE DISCCART     -438.3    -406.1
RE DISCCART     -338.3    -404.6
RE DISCCART     -242.8    -416.7
RE DISCCART     -142.8    -418.5
RE DISCCART      -42.8    -420.3
RE DISCCART       47.8    -400.0
RE DISCCART      116.0    -326.9
RE DISCCART      184.2    -253.8
RE DISCCART      252.4    -180.6
RE DISCCART      320.6    -107.5
RE DISCCART      388.8     -34.4
RE DISCCART      457.0      38.8
RE DISCCART      488.1     106.0
RE DISCCART      428.3     180.0
RE DISCCART      386.6     270.9
RE DISCCART      327.4     334.2
RE DISCCART      227.4     333.8
RE DISCCART      127.4     333.3
RE DISCCART       27.4     332.9
RE DISCCART      -72.6     332.5
RE DISCCART     -172.6     332.0
RE DISCCART     -272.6     331.6
RE DISCCART     -372.6     331.1
RE DISCCART     -472.6     330.7
RE DISCCART     -572.6     330.2
RE DISCCART     -672.6     329.8
RE DISCCART     -772.6     329.4
RE DISCCART     -872.6     328.9
RE DISCCART     -972.6     328.5
RE DISCCART    -1072.6     328.0
RE DISCCART    -1172.6     327.6
RE DISCCART    -1272.6     327.1
RE DISCCART    -1318.1     266.8
RE DISCCART    -1347.6     171.2
RE DISCCART    -1377.0      75.7
RE DISCCART    -1406.5     -19.9
RE DISCCART    -1425.5    -117.1
RE DISCCART    -1427.2    -217.1
RE DISCCART    -1425.5    -317.1
RE DISCCART    -1366.3    -389.7

** PROPERTY BOUNDARY RECEPTORS WITH ADDITION OFF-SITE RECEPTORS AT
** 400,600,800,1000,1200,AND 1400M CENTERED ON ORGN
```

RE	DISCPOLR ORGN	400.	10
RE	DISCPOLR ORGN	600.	10
RE	DISCPOLR ORGN	800.	10
RE	DISCPOLR ORGN	1000.	10
RE	DISCPOLR ORGN	1200.	10
RE	DISCPOLR ORGN	1400.	10
RE	DISCPOLR ORGN	400.	20
RE	DISCPOLR ORGN	600.	20
RE	DISCPOLR ORGN	800.	20
RE	DISCPOLR ORGN	1000.	20
RE	DISCPOLR ORGN	1200.	20
RE	DISCPOLR ORGN	1400.	20
RE	DISCPOLR ORGN	400.	30
RE	DISCPOLR ORGN	600.	30
RE	DISCPOLR ORGN	800.	30
RE	DISCPOLR ORGN	1000.	30
RE	DISCPOLR ORGN	1200.	30
RE	DISCPOLR ORGN	1400.	30
RE	DISCPOLR ORGN	600.	40
RE	DISCPOLR ORGN	800.	40
RE	DISCPOLR ORGN	1000.	40
RE	DISCPOLR ORGN	1200.	40
RE	DISCPOLR ORGN	1400.	40
RE	DISCPOLR ORGN	600.	50
RE	DISCPOLR ORGN	800.	50
RE	DISCPOLR ORGN	1000.	50
RE	DISCPOLR ORGN	1200.	50
RE	DISCPOLR ORGN	1400.	50
RE	DISCPOLR ORGN	600.	60
RE	DISCPOLR ORGN	800.	60
RE	DISCPOLR ORGN	1000.	60
RE	DISCPOLR ORGN	1200.	60
RE	DISCPOLR ORGN	1400.	60
RE	DISCPOLR ORGN	600.	70
RE	DISCPOLR ORGN	800.	70
RE	DISCPOLR ORGN	1000.	70
RE	DISCPOLR ORGN	1200.	70
RE	DISCPOLR ORGN	1400.	70
RE	DISCPOLR ORGN	600.	80
RE	DISCPOLR ORGN	800.	80
RE	DISCPOLR ORGN	1000.	80
RE	DISCPOLR ORGN	1200.	80
RE	DISCPOLR ORGN	1400.	80
RE	DISCPOLR ORGN	600.	90
RE	DISCPOLR ORGN	800.	90
RE	DISCPOLR ORGN	1000.	90
RE	DISCPOLR ORGN	1200.	90
RE	DISCPOLR ORGN	1400.	90
RE	DISCPOLR ORGN	400.	100
RE	DISCPOLR ORGN	600.	100
RE	DISCPOLR ORGN	800.	100
RE	DISCPOLR ORGN	1000.	100
RE	DISCPOLR ORGN	1200.	100
RE	DISCPOLR ORGN	1400.	100
RE	DISCPOLR ORGN	400.	110
RE	DISCPOLR ORGN	600.	110
RE	DISCPOLR ORGN	800.	110
RE	DISCPOLR ORGN	1000.	110
RE	DISCPOLR ORGN	1200.	110
RE	DISCPOLR ORGN	1400.	110
RE	DISCPOLR ORGN	400.	120
RE	DISCPOLR ORGN	600.	120
RE	DISCPOLR ORGN	800.	120
RE	DISCPOLR ORGN	1000.	120
RE	DISCPOLR ORGN	1200.	120
RE	DISCPOLR ORGN	1400.	120
RE	DISCPOLR ORGN	400.	130
RE	DISCPOLR ORGN	600.	130
RE	DISCPOLR ORGN	800.	130
RE	DISCPOLR ORGN	1000.	130
RE	DISCPOLR ORGN	1200.	130
RE	DISCPOLR ORGN	1400.	130
RE	DISCPOLR ORGN	400.	140
RE	DISCPOLR ORGN	600.	140
RE	DISCPOLR ORGN	800.	140
RE	DISCPOLR ORGN	1000.	140
RE	DISCPOLR ORGN	1200.	140
RE	DISCPOLR ORGN	1400.	140

RE	DISCPOLR	ORGN	400. 150
RE	DISCPOLR	ORGN	600. 150
RE	DISCPOLR	ORGN	800. 150
RE	DISCPOLR	ORGN	1000. 150
RE	DISCPOLR	ORGN	1200. 150
RE	DISCPOLR	ORGN	1400. 150
RE	DISCPOLR	ORGN	400. 160
RE	DISCPOLR	ORGN	600. 160
RE	DISCPOLR	ORGN	800. 160
RE	DISCPOLR	ORGN	1000. 160
RE	DISCPOLR	ORGN	1200. 160
RE	DISCPOLR	ORGN	1400. 160
RE	DISCPOLR	ORGN	400. 170
RE	DISCPOLR	ORGN	600. 170
RE	DISCPOLR	ORGN	800. 170
RE	DISCPOLR	ORGN	1000. 170
RE	DISCPOLR	ORGN	1200. 170
RE	DISCPOLR	ORGN	1400. 170
RE	DISCPOLR	ORGN	600. 180
RE	DISCPOLR	ORGN	800. 180
RE	DISCPOLR	ORGN	1000. 180
RE	DISCPOLR	ORGN	1200. 180
RE	DISCPOLR	ORGN	1400. 180
RE	DISCPOLR	ORGN	600. 190
RE	DISCPOLR	ORGN	800. 190
RE	DISCPOLR	ORGN	1000. 190
RE	DISCPOLR	ORGN	1200. 190
RE	DISCPOLR	ORGN	1400. 190
RE	DISCPOLR	ORGN	600. 200
RE	DISCPOLR	ORGN	800. 200
RE	DISCPOLR	ORGN	1000. 200
RE	DISCPOLR	ORGN	1200. 200
RE	DISCPOLR	ORGN	1400. 200
RE	DISCPOLR	ORGN	600. 210
RE	DISCPOLR	ORGN	800. 210
RE	DISCPOLR	ORGN	1000. 210
RE	DISCPOLR	ORGN	1200. 210
RE	DISCPOLR	ORGN	1400. 210
RE	DISCPOLR	ORGN	600. 220
RE	DISCPOLR	ORGN	800. 220
RE	DISCPOLR	ORGN	1000. 220
RE	DISCPOLR	ORGN	1200. 220
RE	DISCPOLR	ORGN	1400. 220
RE	DISCPOLR	ORGN	800. 230
RE	DISCPOLR	ORGN	1000. 230
RE	DISCPOLR	ORGN	1200. 230
RE	DISCPOLR	ORGN	1400. 230
RE	DISCPOLR	ORGN	1000. 240
RE	DISCPOLR	ORGN	1200. 240
RE	DISCPOLR	ORGN	1400. 240
RE	DISCPOLR	ORGN	1200. 250
RE	DISCPOLR	ORGN	1400. 250
RE	DISCPOLR	ORGN	1400. 280
RE	DISCPOLR	ORGN	1000. 290
RE	DISCPOLR	ORGN	1200. 290
RE	DISCPOLR	ORGN	1400. 290
RE	DISCPOLR	ORGN	800. 300
RE	DISCPOLR	ORGN	1000. 300
RE	DISCPOLR	ORGN	1200. 300
RE	DISCPOLR	ORGN	1400. 300
RE	DISCPOLR	ORGN	600. 310
RE	DISCPOLR	ORGN	800. 310
RE	DISCPOLR	ORGN	1000. 310
RE	DISCPOLR	ORGN	1200. 310
RE	DISCPOLR	ORGN	1400. 310
RE	DISCPOLR	ORGN	600. 320
RE	DISCPOLR	ORGN	800. 320
RE	DISCPOLR	ORGN	1000. 320
RE	DISCPOLR	ORGN	1200. 320
RE	DISCPOLR	ORGN	1400. 320
RE	DISCPOLR	ORGN	400. 330
RE	DISCPOLR	ORGN	600. 330
RE	DISCPOLR	ORGN	800. 330
RE	DISCPOLR	ORGN	1000. 330
RE	DISCPOLR	ORGN	1200. 330
RE	DISCPOLR	ORGN	1400. 330
RE	DISCPOLR	ORGN	400. 340
RE	DISCPOLR	ORGN	600. 340

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RE DISCPOLR ORGN      800.       340
RE DISCPOLR ORGN     1000.       340
RE DISCPOLR ORGN     1200.       340
RE DISCPOLR ORGN     1400.       340
RE DISCPOLR ORGN      400.       350
RE DISCPOLR ORGN      600.       350
RE DISCPOLR ORGN      800.       350
RE DISCPOLR ORGN     1000.       350
RE DISCPOLR ORGN     1200.       350
RE DISCPOLR ORGN     1400.       350
RE DISCPOLR ORGN      400.       360
RE DISCPOLR ORGN      600.       360
RE DISCPOLR ORGN      800.       360
RE DISCPOLR ORGN     1000.       360
RE DISCPOLR ORGN     1200.       360
RE DISCPOLR ORGN     1400.       360

RE FINISHED

ME STARTING
ME INPUTFIL P:\MET\PBIPBI87.MET
ME ANEMHGHT    33  FEET
ME SURFDATA  12844     1987     WEST-PALM-BCH
ME UAIRDATA  12844     1987     WEST-PALM-BCH
ME FINISHED

OU STARTING
OU RECTABLE ALLAVE FIRST SECOND
OU FINISHED
```

TROPICANA PRODUCTS, INC.

FORT PIERCE PLANT

SO_2 PLANT EMISSIONS AT 1.5% SULFUR

ISCST3 OUTPUT FILE NUMBER 1 :SO2R.087
ISCST3 OUTPUT FILE NUMBER 2 :SO2R.088
ISCST3 OUTPUT FILE NUMBER 3 :SO2R.089
ISCST3 OUTPUT FILE NUMBER 4 :SO2R.090
ISCST3 OUTPUT FILE NUMBER 5 :SO2R.091
First title for last output file is: 1987 Tropicana Fort Pierce Plant 9/7/00
Second title for last output file is: Palm Beach/Palm Beach Met Data, 1987-91, SO2, 1.5% S

AVERAGING TIME	YEAR	CONC (ug/m3)	DIR (deg) or X (m)	DIST (m) or Y (m)	PERIOD ENDING (YYMMDDHH)
SOURCE GROUP ID:	ALL				
Annual					
	1987	26.6	-573.	330.	87123124
	1988	23.2	-573.	330.	88123124
	1989	27.6	-473.	331.	89123124
	1990	31.1	-573.	330.	90123124
	1991	29.7	-573.	330.	91123124
HIGH 24-Hour					
	1987	259.0	-473.	331.	87051824
	1988	238.8	340.	600.	88012024
	1989	227.6	-632.	-403.	89111224
	1990	257.3	-732.	-405.	90042024
	1991	242.1	-773.	329.	91052124
HSH 24-Hour					
	1987	202.9	-438.	-406.	87102324
	1988	206.3	340.	600.	88112724
	1989	179.1	310.	600.	89072124
	1990	211.0	300.	800.	90031424
	1991	220.1	-537.	-415.	91102924
HIGH 3-Hour					
	1987	646.9	-338.	-405.	87032215
	1988	659.1	20.	400.	88060815
	1989	576.6	327.	334.	89070312
	1990	570.3	327.	334.	90091612
	1991	650.8	100.	400.	91071215
HSH 3-Hour					
	1987	476.4	-438.	-406.	87110124
	1988	580.2	387.	271.	88041112
	1989	520.5	50.	600.	89062909
	1990	524.1	220.	600.	90061318
	1991	570.7	-373.	331.	91072412

All receptor computations reported with respect to a user-specified origin

GRID	0.00	0.00
DISCRETE	0.00	0.00

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CO STARTINGTropFinal\SO2R.187
CO TITLEONE 1987 Tropicana Fort Pierce Plant, AAQS Analysis 9/7/00
CO TITLETWO Palm Beach/Palm Beach Met Data, 1987-91, SO2 @1.5% S
CO MODELOPT CONC   RURAL DFAULT NOCMPL
CO AVERTIME PERIOD 24 3
CO POLLUTID SO2
CO DCAYCOEF    .000000
CO RUNORNOT RUN
CO FINISHED

SO STARTING
** TROPICANA ORIGIN IS NW CORNER OF FEED MILL
SO LOCATION ORGN    POINT        0.0       0.0       .0
SO SRCPARAM ORGN    0.0      0.0     0.0     0.0     0.0
** SOURCE ID                    DESCRIPTION
** ------------------------------------------------------------
** 001                          Dryer No. 1
** 004                          Dryer No. 2
** 002                          Boiler No. 1
** 003                          Boiler No. 2
** 006                          Package Boiler
** 007                          Pellet Coolers
** Tropicana Stack Locations
SO LOCATION  001  POINT  22.6   -21.3       0.
SO LOCATION  004  POINT  31.1   -21.3       0.
SO LOCATION  002  POINT  64.0    15.8       0.
SO LOCATION  003  POINT  65.8    11.6       0.
SO LOCATION  006  POINT  67.7    17.1       0.
SO LOCATION  007  POINT  15.2     0.0       0.

** Other Sources
SO LOCATION      FPP2    POINT   2060    1850    0.
SO LOCATION      FPU1    POINT   6510    8030    0.
SO LOCATION      FPU2    POINT   6510    8030    0.
SO LOCATION      FPU3    POINT   6510    8030    0.
SO LOCATION      FPU4    POINT   6510    8030    0.
SO LOCATION      FPU7    POINT   6510    8030    0.
SO LOCATION      FPU8    POINT   6510    8030    0.
SO LOCATION      VERO1   POINT   1790    28180   0.
SO LOCATION      VERO2   POINT   1790    28180   0.
SO LOCATION      VERO3   POINT   1790    28180   0.
SO LOCATION      VERO4   POINT   1790    28180   0.
SO LOCATION      VERO5   POINT   1790    28180   0.
SO LOCATION      IND1    POINT   -11960  -37620  0.
SO LOCATION      IND3    POINT   -11960  -37620  0.
SO LOCATION      FPLM1   POINT   -16930  -35670  0.
SO LOCATION      FPLM2   POINT   -16930  -35670  0.
SO LOCATION      FPLM3   POINT   -16930  -35670  0.
SO LOCATION      FPLM4   POINT   -16930  -35670  0.
SO LOCATION      FPLM5   POINT   -16930  -35670  0.
SO LOCATION      FPLM6   POINT   -16930  -35670  0.
SO LOCATION      USSB1   POINT   -21780  -59200  0.
SO LOCATION      USSB2   POINT   -21780  -59200  0.
SO LOCATION      USSB3   POINT   -21780  -59200  0.
SO LOCATION      USSB5   POINT   -21780  -59200  0.
SO LOCATION      USSB7   POINT   -21780  -59200  0.
SO LOCATION      FPLR3   POINT   34640   -67690  0.
SO LOCATION      FPLR4   POINT   34640   -67690  0.
SO LOCATION      SCGC1   POINT   -24710  -75020  0.
SO LOCATION      SCGC2   POINT   -24710  -75020  0.
SO LOCATION      SCGC3   POINT   -24710  -75020  0.
SO LOCATION      SCGC4   POINT   -24710  -75020  0.
SO LOCATION      SCGC5   POINT   -24710  -75020  0.
SO LOCATION      SCGC8   POINT   -24710  -75020  0.
SO LOCATION      USSC1   POINT   -53510  -71440  0.
SO LOCATION      USSC2   POINT   -53510  -71440  0.
SO LOCATION      USSC3   POINT   -53510  -71440  0.
SO LOCATION      USSC4   POINT   -53510  -71440  0.
SO LOCATION      USSC7   POINT   -53510  -71440  0.
SO LOCATION      USSC1   POINT   -53510  -71440  0.
SO LOCATION      USSC2   POINT   -53510  -71440  0.
SO LOCATION      USSC3   POINT   -53510  -71440  0.
SO LOCATION      USSC7   POINT   -53510  -71440  0.
SO LOCATION      LWU1    POINT   33190   -84620  0.
SO LOCATION      LWU2    POINT   33190   -84620  0.
SO LOCATION      LWU3    POINT   33190   -84620  0.
SO LOCATION      LWU4    POINT   33190   -84620  0.
SO LOCATION      LWU5    POINT   33190   -84620  0.
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SO LOCATION     LWU6    POINT   33190   -84620  0.
SO LOCATION     LWU7    POINT   33190   -84620  0.
SO LOCATION     LWU9    POINT   33190   -84620  0.
SO LOCATION     LWU10   POINT   33190   -84620  0.
SO LOCATION     LWU11   POINT   33190   -84620  0.
SO LOCATION     OKEE1   POINT   -34710  -88220  0.
SO LOCATION     OKEE2   POINT   -34710  -88220  0.
SO LOCATION     OKEE3   POINT   -34710  -88220  0.
SO LOCATION     OKEE4   POINT   -34710  -88220  0.
SO LOCATION     OKEE5   POINT   -34710  -88220  0.
SO LOCATION     OKEE6   POINT   -34710  -88220  0.
SO LOCATION     OKEE7   POINT   -34710  -88220  0.
SO LOCATION     OKEE8   POINT   -34710  -88220  0.
SO LOCATION     OKEE9   POINT   -34710  -88220  0.
SO LOCATION     OKEC1   POINT   -35520  -88310  0.
SO LOCATION     OKEC2   POINT   -35520  -88310  0.
SO LOCATION     OKEC3   POINT   -35520  -88310  0.
SO LOCATION     TECO1   POINT   -95310  7080    0.
SO LOCATION     TECO2   POINT   -95310  7080    0.

** Source Parameter Cards:
** POINT:   SRCID            QS      HS      TS      VS      DS
**                         (g/s)    (m)     (K)    (m/s)    (m)
** Tropicana Sources
SO SRCPARAM 001           15.87   28.96   333.2   19.29   0.97
SO SRCPARAM 004           15.87   28.96   333.2   19.29   0.97
SO SRCPARAM 002           11.98   18.29   584.3   41.24   0.61
SO SRCPARAM 003           11.98   18.29   584.3   41.24   0.61
SO SRCPARAM 006           0.01    18.29   505.4   12.77   0.61
SO SRCPARAM 007           0.00    6.10    305.4    0.01   1.22

** Other Sources
** 1110040      RANGER/FT PIERCE/PLNT#129
SO SRCPARAM     FPP2    5.07    7.01    435.9   51.5    0.76
** 1110003      FT PIERCE UTIL/H D KING PWR PLNT
SO SRCPARAM     FPU1    1.50    7.01    783.2   11.9    0.91
SO SRCPARAM     FPU2    1.50    7.01    783.2   11.9    0.91
SO SRCPARAM     FPU3    31.82   20.73   492.0   18.2    3.41
SO SRCPARAM     FPU4    0.25    45.11   435.9   11.0    1.52
SO SRCPARAM     FPU7    0.25    44.81   426.5   18.6    2.16
SO SRCPARAM     FPU8    2.32    45.72   440.9   25.5    2.44
** 0610029      CITY OF VERO BEACH MUNICIPAL UTILITIES
SO SRCPARAM     VERO1   22.98   60.96   415.9   32.2    1.07
SO SRCPARAM     VERO2   39.90   60.96   448.2   41.8    1.07
SO SRCPARAM     VERO3   112.59  60.96   445.4   20.9    1.83
SO SRCPARAM     VERO4   54.72   60.96   412.6   23.7    2.13
SO SRCPARAM     VERO5   4.06    38.10   416.5   19.4    3.35
** 0850102      INDIANTOWN COGENERATION PLANT
SO SRCPARAM     IND1    58.12   150.88  333.2   28.4    4.88
SO SRCPARAM     IND3    0.21    64.01   449.8   26.7    1.52
** 0850001      FLORIDA POWER & LIGHT MARTIN PLANT
SO SRCPARAM     FPLM1   691.06  152.10  420.9   21.0    7.99
SO SRCPARAM     FPLM2   691.06  152.10  420.9   21.3    7.92
SO SRCPARAM     FPLM3   12.95   64.92   410.9   18.6    6.10
SO SRCPARAM     FPLM4   12.95   64.92   410.9   18.6    6.10
SO SRCPARAM     FPLM5   12.95   64.92   410.9   18.6    6.10
SO SRCPARAM     FPLM6   12.95   64.92   410.9   18.6    6.10
** 0990061      U.S.SUGAR CORP. BRYANT MILL
SO SRCPARAM     USSB1   13.47   19.81   338.7   37.6    1.65
SO SRCPARAM     USSB2   13.47   19.81   338.7   36.9    1.65
SO SRCPARAM     USSB3   13.47   19.81   338.7   36.4    1.65
SO SRCPARAM     USSB5   5.24    45.72   338.7   18.0    2.90
SO SRCPARAM     USSB7   0.11    8.53    519.3   13.0    0.37
** 0990042      FLORIDA POWER & LIGHT (PRV) RIVIERA
SO SRCPARAM     FPLR3   837.61  90.83   401.5   26.9    4.88
SO SRCPARAM     FPLR4   837.61  90.83   401.5   26.6    4.88
** 0990026      SUGAR CANE GROWERS CO-OP
SO SRCPARAM     SCGC1   16.49   45.72   337.6   21.6    1.31
SO SRCPARAM     SCGC2   16.49   45.72   336.5   23.2    1.31
SO SRCPARAM     SCGC3   6.83    27.43   341.5   15.8    1.62
SO SRCPARAM     SCGC4   28.21   33.53   337.6   8.2     2.90
SO SRCPARAM     SCGC5   21.67   45.72   341.5   12.3    2.13
SO SRCPARAM     SCGC8   24.87   47.24   344.8   9.1     2.90
** 0510003      U.S. SUGAR CLEWISTON MILL AND REFINERY
SO SRCPARAM     USSC1   78.79   64.92   347.0   15.4    2.44
SO SRCPARAM     USSC2   78.49   64.92   338.7   13.9    2.44
SO SRCPARAM     USSC3   47.08   64.92   333.2   6.8     2.44
SO SRCPARAM     USSC4   21.53   45.72   344.3   20.3    2.51
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SO SRCPARAM     USSC7   13.91   68.58   405.4   20.8    2.59
SO SRCPARAM     USSC1   51.64   64.92   347.0   14.1    2.44
SO SRCPARAM     USSC2   51.27   64.92   338.7   12.7    2.44
SO SRCPARAM     USSC3   30.74   64.92   333.2   6.2     2.44
SO SRCPARAM     USSC7   17.39   68.58   405.4   23.6    2.59
** 0990045      LAKE WORTH UTILITIES AUTHORITY:TG SMITH PLANT
SO SRCPARAM     LWU1    0.76    5.18    625.9   37.1    0.56
SO SRCPARAM     LWU2    0.76    5.18    625.9   37.1    0.56
SO SRCPARAM     LWU3    0.76    5.18    625.9   37.1    0.56
SO SRCPARAM     LWU4    0.76    5.18    625.9   37.1    0.56
SO SRCPARAM     LWU5    0.76    5.18    625.9   37.1    0.56
SO SRCPARAM     LWU6    15.64   14.02   720.4   24.8    4.88
SO SRCPARAM     LWU7    27.34   18.29   422.0   10.5    1.52
SO SRCPARAM     LWU9    80.07   34.44   418.2   15.7    2.13
SO SRCPARAM     LWU10   103.22  35.05   418.2   17.0    2.29
SO SRCPARAM     LWU11   10.90   22.86   479.8   26.7    3.05
** 0990005 OKEELANTA CORP

SO SRCPARAM     OKEE1   5.39    22.86   347.0   11.9    2.29
SO SRCPARAM     OKEE2   15.73   22.86   344.3   13.2    2.29
SO SRCPARAM     OKEE3   12.41   22.86   355.4   11.7    2.29
SO SRCPARAM     OKEE4   15.81   22.86   338.7   16.8    2.29
SO SRCPARAM     OKEE5   12.08   22.86   335.9   19.2    2.29
SO SRCPARAM     OKEE6   37.74   22.86   341.5   13.9    2.29
SO SRCPARAM     OKEE7   37.71   22.86   341.5   14.4    2.29
SO SRCPARAM     OKEE8   12.48   22.86   333.2   19.5    2.29
SO SRCPARAM     OKEE9   5.63    22.86   483.2   22.8    1.52
**              0990332 OKEELANTA COGENERATION PLANT

SO SRCPARAM     OKEC1   24.35   60.66   419.3   15.9    3.05
SO SRCPARAM     OKEC2   24.35   60.66   419.3   15.9    3.05
SO SRCPARAM     OKEC3   24.35   60.66   419.3   15.9    3.05
**              0550018 TAMPA ELECTRIC CO.:PHILLIPS STATION

SO SRCPARAM     TECO1   45.86   45.72   441.5   24.1    1.83
SO SRCPARAM     TECO2   45.86   45.72   449.8   24.1    1.83


SO BUILDHGT 001         10.67   10.67   10.67   10.67   10.67   10.67
SO BUILDHGT 001         10.67   10.67   10.67   10.67   13.11   13.11
SO BUILDHGT 001         10.67   10.67   10.67   10.67   10.67   10.67
SO BUILDHGT 001         10.67   10.67   10.67   10.67   10.67   10.67
SO BUILDHGT 001         10.67   10.67   10.67   10.67   13.11   13.11
SO BUILDHGT 001         13.11   13.11   13.11   13.11   13.11   10.67
SO BUILDWID 001         66.49   70.00   71.39   70.60   67.67   62.68
SO BUILDWID 001         55.79   49.65   44.50   51.55   67.41   75.64
SO BUILDWID 001         67.67   70.60   71.39   70.00   66.49   60.96
SO BUILDWID 001         66.49   70.00   71.39   70.60   67.67   62.68
SO BUILDWID 001         55.79   49.65   44.50   51.55   67.41   75.64
SO BUILDWID 001         81.58   85.03   85.91   84.17   79.87   60.96


SO BUILDHGT 004         13.11   10.67   10.67   10.67   10.67   10.67
SO BUILDHGT 004         10.67   10.67   10.67   10.67   13.11   13.11
SO BUILDHGT 004         13.11   13.11   10.67   10.67   10.67   10.67
SO BUILDHGT 004         13.11   10.67   10.67   10.67   10.67   10.67
SO BUILDHGT 004         10.67   10.67   10.67   10.67   13.11   13.11
SO BUILDHGT 004         13.11   13.11   13.11   13.11   13.11   13.11
SO BUILDWID 004         73.31   70.00   71.39   70.60   67.67   62.68
SO BUILDWID 004         55.79   49.65   44.50   51.55   67.41   75.64
SO BUILDWID 004         81.58   85.03   71.39   70.00   66.49   60.96
SO BUILDWID 004         73.31   70.00   71.39   70.60   67.67   62.68
SO BUILDWID 004         55.79   49.65   44.50   51.55   67.41   75.64
SO BUILDWID 004         81.58   85.03   85.91   84.17   79.87   73.15


SO BUILDHGT 002         10.67   10.67   10.67   10.67   10.67   10.67
SO BUILDHGT 002         10.67   10.67    8.84    8.84   11.28   11.28
SO BUILDHGT 002         11.28   11.28   11.28   11.28   10.67   10.67
SO BUILDHGT 002         10.67   10.67   10.67   10.67   10.67   10.67
SO BUILDHGT 002         10.67   10.67    8.84    8.84    8.84    8.84
SO BUILDHGT 002          8.84    8.84   10.67   10.67   10.67   10.67
SO BUILDWID 002         66.49   70.00   71.39   70.60   67.67   62.68
SO BUILDWID 002         55.79   49.65   22.56   23.30   65.05   65.70
SO BUILDWID 002         64.35   61.04   55.88   49.02   99.20   60.96
SO BUILDWID 002         66.49   70.00   71.39   70.60   67.67   62.68
SO BUILDWID 002         55.79   49.65   22.56   23.30   27.61   31.12
SO BUILDWID 002         35.35   38.51   85.91   91.75   99.20   60.96
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SO BUILDHGT 003        13.11   13.11   13.11   10.67   10.67   10.67
SO BUILDHGT 003        10.67   10.67    8.84    8.84   11.28   11.28
SO BUILDHGT 003        11.28   11.28   11.28   11.28   10.67   10.67
SO BUILDHGT 003        10.67   10.67   10.67   10.67   10.67   10.67
SO BUILDHGT 003        10.67   10.67    8.84    8.84    8.84    8.84
SO BUILDHGT 003         8.84    8.84   13.11   13.11   13.11   13.11
SO BUILDWID 003        73.31   71.24   67.01   70.60   67.67   62.68
SO BUILDWID 003        55.79   49.65   22.56   23.30   65.05   65.70
SO BUILDWID 003        64.35   61.04   55.88   49.02   99.20   60.96
SO BUILDWID 003        66.49   70.00   71.39   70.60   67.67   62.68
SO BUILDWID 003        55.79   49.65   22.56   23.30   27.61   31.12
SO BUILDWID 003        35.35   38.51   85.91   84.17   79.87   73.15

SO BUILDHGT 006        10.67   10.67   10.67   10.67   10.67   10.67
SO BUILDHGT 006        10.67   10.67    8.84   11.28   11.28   11.28
SO BUILDHGT 006        11.28   11.28   11.28   11.28   10.67   10.67
SO BUILDHGT 006        10.67   10.67   10.67   10.67   10.67   10.67
SO BUILDHGT 006        10.67   10.67    8.84    8.84    8.84    8.84
SO BUILDHGT 006         8.84    8.84   10.67   10.67   10.67   10.67
SO BUILDWID 006        66.49   70.00   71.39   70.60   67.67   62.68
SO BUILDWID 006        55.79   49.65   22.56   90.05   65.05   65.70
SO BUILDWID 006        64.35   61.04   55.88   49.02   99.20  103.63
SO BUILDWID 006        66.49   70.00   71.39   70.60   67.67   62.68
SO BUILDWID 006        55.79   49.65   22.56   23.30   27.61   31.12
SO BUILDWID 006        35.35   38.51   85.91   91.75   99.20  103.63

SO BUILDHGT 007        10.67   11.28   11.28   10.67   10.67   10.67
SO BUILDHGT 007        10.67   10.67   10.67   10.67   10.67   10.67
SO BUILDHGT 007        11.28   11.28   11.28   11.28   11.28   11.28
SO BUILDHGT 007        11.28   11.28   11.28   10.67   10.67   10.67
SO BUILDHGT 007        10.67   10.67   10.67   10.67   10.67   13.11
SO BUILDHGT 007        13.11   13.11   13.11   13.11   13.11   10.67
SO BUILDWID 007        66.49   92.41  101.05   70.60   67.67   62.68
SO BUILDWID 007        55.79   49.65   44.50   51.55   57.04   62.68
SO BUILDWID 007        85.83   79.07   69.90   49.02   40.67   31.09
SO BUILDWID 007        40.67   49.02   55.88   70.60   67.67   62.68
SO BUILDWID 007        55.79   49.65   44.50   51.55   57.04   75.64
SO BUILDWID 007        81.58   85.03   85.91   84.17   79.87   60.96

SO EMISUNIT    .100000E+07 (GRAMS/SEC)          (MICROGRAMS/CUBIC-METER)
SO SRCGROUP ALL
SO FINISHED

RE STARTING
RE GRIDPOLR POL STA
RE GRIDPOLR POL ORIG     0.0    0.0
RE GRIDPOLR POL DIST    1500 2000 2500 3000 4000 5000
RE GRIDPOLR POL GDIR  36.  10   10.00
RE GRIDPOLR POL END

**  FENCELINE RECEPTORS AT 100-M INTERVALS
RE DISCCART    -1331.7    -399.9
RE DISCCART    -1231.7    -401.4
RE DISCCART    -1131.7    -402.9
RE DISCCART    -1031.7    -404.4
RE DISCCART     -931.7    -405.9
RE DISCCART     -831.7    -407.0
RE DISCCART     -731.7    -405.1
RE DISCCART     -631.8    -403.3
RE DISCCART     -536.7    -415.1
RE DISCCART     -438.3    -406.1
RE DISCCART     -338.3    -404.6
RE DISCCART     -242.8    -416.7
RE DISCCART     -142.8    -418.5
RE DISCCART      -42.8    -420.3
RE DISCCART       47.8    -400.0
RE DISCCART      116.0    -326.9
RE DISCCART      184.2    -253.8
RE DISCCART      252.4    -180.6
RE DISCCART      320.6    -107.5
RE DISCCART      388.8     -34.4
RE DISCCART      457.0      38.8
RE DISCCART      488.1     106.0
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RE DISCCART      428.3     180.0
RE DISCCART      386.6     270.9
RE DISCCART      327.4     334.2
RE DISCCART      227.4     333.8
RE DISCCART      127.4     333.3
RE DISCCART       27.4     332.9
RE DISCCART      -72.6     332.5
RE DISCCART     -172.6     332.0
RE DISCCART     -272.6     331.6
RE DISCCART     -372.6     331.1
RE DISCCART     -472.6     330.7
RE DISCCART     -572.6     330.2
RE DISCCART     -672.6     329.8
RE DISCCART     -772.6     329.4
RE DISCCART     -872.6     328.9
RE DISCCART     -972.6     328.5
RE DISCCART    -1072.6     328.0
RE DISCCART    -1172.6     327.6
RE DISCCART    -1272.6     327.1
RE DISCCART    -1318.1     266.8
RE DISCCART    -1347.6     171.2
RE DISCCART    -1377.0      75.7
RE DISCCART    -1406.5     -19.9
RE DISCCART    -1425.5    -117.1
RE DISCCART    -1427.2    -217.1
RE DISCCART    -1425.5    -317.1
RE DISCCART    -1366.3    -389.7

** PROPERTY BOUNDARY RECEPTORS WITH ADDITION OFF-SITE RECEPTORS AT
** 1500,2000,2500,3000,4000, AND 5000 M CENTERED ON ORGN
RE DISCPOLR ORGN      400.        10
RE DISCPOLR ORGN      600.        10
RE DISCPOLR ORGN      800.        10
RE DISCPOLR ORGN     1000.        10
RE DISCPOLR ORGN     1200.        10
RE DISCPOLR ORGN     1400.        10
RE DISCPOLR ORGN      400.        20
RE DISCPOLR ORGN      600.        20
RE DISCPOLR ORGN      800.        20
RE DISCPOLR ORGN     1000.        20
RE DISCPOLR ORGN     1200.        20
RE DISCPOLR ORGN     1400.        20
RE DISCPOLR ORGN      400.        30
RE DISCPOLR ORGN      600.        30
RE DISCPOLR ORGN      800.        30
RE DISCPOLR ORGN     1000.        30
RE DISCPOLR ORGN     1200.        30
RE DISCPOLR ORGN     1400.        30
RE DISCPOLR ORGN      600.        40
RE DISCPOLR ORGN      800.        40
RE DISCPOLR ORGN     1000.        40
RE DISCPOLR ORGN     1200.        40
RE DISCPOLR ORGN     1400.        40
RE DISCPOLR ORGN      600.        50
RE DISCPOLR ORGN      800.        50
RE DISCPOLR ORGN     1000.        50
RE DISCPOLR ORGN     1200.        50
RE DISCPOLR ORGN     1400.        50
RE DISCPOLR ORGN      600.        60
RE DISCPOLR ORGN      800.        60
RE DISCPOLR ORGN     1000.        60
RE DISCPOLR ORGN     1200.        60
RE DISCPOLR ORGN     1400.        60
RE DISCPOLR ORGN      600.        70
RE DISCPOLR ORGN      800.        70
RE DISCPOLR ORGN     1000.        70
RE DISCPOLR ORGN     1200.        70
RE DISCPOLR ORGN     1400.        70
RE DISCPOLR ORGN      600.        80
RE DISCPOLR ORGN      800.        80
RE DISCPOLR ORGN     1000.        80
RE DISCPOLR ORGN     1200.        80
RE DISCPOLR ORGN     1400.        80
RE DISCPOLR ORGN      600.        90
RE DISCPOLR ORGN      800.        90
RE DISCPOLR ORGN     1000.        90
RE DISCPOLR ORGN     1200.        90
RE DISCPOLR ORGN     1400.        90
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RE	DISCPOLR	ORGN	400. 100
RE	DISCPOLR	ORGN	600. 100
RE	DISCPOLR	ORGN	800. 100
RE	DISCPOLR	ORGN	1000. 100
RE	DISCPOLR	ORGN	1200. 100
RE	DISCPOLR	ORGN	1400. 100
RE	DISCPOLR	ORGN	400. 110
RE	DISCPOLR	ORGN	600. 110
RE	DISCPOLR	ORGN	800. 110
RE	DISCPOLR	ORGN	1000. 110
RE	DISCPOLR	ORGN	1200. 110
RE	DISCPOLR	ORGN	1400. 110
RE	DISCPOLR	ORGN	400. 120
RE	DISCPOLR	ORGN	600. 120
RE	DISCPOLR	ORGN	800. 120
RE	DISCPOLR	ORGN	1000. 120
RE	DISCPOLR	ORGN	1200. 120
RE	DISCPOLR	ORGN	1400. 120
RE	DISCPOLR	ORGN	400. 130
RE	DISCPOLR	ORGN	600. 130
RE	DISCPOLR	ORGN	800. 130
RE	DISCPOLR	ORGN	1000. 130
RE	DISCPOLR	ORGN	1200. 130
RE	DISCPOLR	ORGN	1400. 130
RE	DISCPOLR	ORGN	400. 140
RE	DISCPOLR	ORGN	600. 140
RE	DISCPOLR	ORGN	800. 140
RE	DISCPOLR	ORGN	1000. 140
RE	DISCPOLR	ORGN	1200. 140
RE	DISCPOLR	ORGN	1400. 140
RE	DISCPOLR	ORGN	400. 150
RE	DISCPOLR	ORGN	600. 150
RE	DISCPOLR	ORGN	800. 150
RE	DISCPOLR	ORGN	1000. 150
RE	DISCPOLR	ORGN	1200. 150
RE	DISCPOLR	ORGN	1400. 150
RE	DISCPOLR	ORGN	400. 160
RE	DISCPOLR	ORGN	600. 160
RE	DISCPOLR	ORGN	800. 160
RE	DISCPOLR	ORGN	1000. 160
RE	DISCPOLR	ORGN	1200. 160
RE	DISCPOLR	ORGN	1400. 160
RE	DISCPOLR	ORGN	400. 170
RE	DISCPOLR	ORGN	600. 170
RE	DISCPOLR	ORGN	800. 170
RE	DISCPOLR	ORGN	1000. 170
RE	DISCPOLR	ORGN	1200. 170
RE	DISCPOLR	ORGN	1400. 170
RE	DISCPOLR	ORGN	600. 180
RE	DISCPOLR	ORGN	800. 180
RE	DISCPOLR	ORGN	1000. 180
RE	DISCPOLR	ORGN	1200. 180
RE	DISCPOLR	ORGN	1400. 180
RE	DISCPOLR	ORGN	600. 190
RE	DISCPOLR	ORGN	800. 190
RE	DISCPOLR	ORGN	1000. 190
RE	DISCPOLR	ORGN	1200. 190
RE	DISCPOLR	ORGN	1400. 190
RE	DISCPOLR	ORGN	600. 200
RE	DISCPOLR	ORGN	800. 200
RE	DISCPOLR	ORGN	1000. 200
RE	DISCPOLR	ORGN	1200. 200
RE	DISCPOLR	ORGN	1400. 200
RE	DISCPOLR	ORGN	600. 210
RE	DISCPOLR	ORGN	800. 210
RE	DISCPOLR	ORGN	1000. 210
RE	DISCPOLR	ORGN	1200. 210
RE	DISCPOLR	ORGN	1400. 210
RE	DISCPOLR	ORGN	600. 220
RE	DISCPOLR	ORGN	800. 220
RE	DISCPOLR	ORGN	1000. 220
RE	DISCPOLR	ORGN	1200. 220
RE	DISCPOLR	ORGN	1400. 220
RE	DISCPOLR	ORGN	800. 230
RE	DISCPOLR	ORGN	1000. 230
RE	DISCPOLR	ORGN	1200. 230
RE	DISCPOLR	ORGN	1400. 230
RE	DISCPOLR	ORGN	1000. 240

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RE DISCPOLR ORGN     1200.       240
RE DISCPOLR ORGN     1400.       240
RE DISCPOLR ORGN     1200.       250
RE DISCPOLR ORGN     1400.       250
RE DISCPOLR ORGN     1400.       280
RE DISCPOLR ORGN     1000.       290
RE DISCPOLR ORGN     1200.       290
RE DISCPOLR ORGN     1400.       290
RE DISCPOLR ORGN      700.       300
RE DISCPOLR ORGN      800.       300
RE DISCPOLR ORGN     1000.       300
RE DISCPOLR ORGN     1200.       300
RE DISCPOLR ORGN     1400.       300
RE DISCPOLR ORGN      600.       310
RE DISCPOLR ORGN      700.       310
RE DISCPOLR ORGN      800.       310
RE DISCPOLR ORGN     1000.       310
RE DISCPOLR ORGN     1200.       310
RE DISCPOLR ORGN     1400.       310
RE DISCPOLR ORGN      600.       320
RE DISCPOLR ORGN      800.       320
RE DISCPOLR ORGN     1000.       320
RE DISCPOLR ORGN     1200.       320
RE DISCPOLR ORGN     1400.       320
RE DISCPOLR ORGN      400.       330
RE DISCPOLR ORGN      600.       330
RE DISCPOLR ORGN      800.       330
RE DISCPOLR ORGN     1000.       330
RE DISCPOLR ORGN     1200.       330
RE DISCPOLR ORGN     1400.       330
RE DISCPOLR ORGN      400.       340
RE DISCPOLR ORGN      600.       340
RE DISCPOLR ORGN      800.       340
RE DISCPOLR ORGN     1000.       340
RE DISCPOLR ORGN     1200.       340
RE DISCPOLR ORGN     1400.       340
RE DISCPOLR ORGN      400.       350
RE DISCPOLR ORGN      600.       350
RE DISCPOLR ORGN      800.       350
RE DISCPOLR ORGN     1000.       350
RE DISCPOLR ORGN     1200.       350
RE DISCPOLR ORGN     1400.       350
RE DISCPOLR ORGN      400.       360
RE DISCPOLR ORGN      600.       360
RE DISCPOLR ORGN      800.       360
RE DISCPOLR ORGN     1000.       360
RE DISCPOLR ORGN     1200.       360
RE DISCPOLR ORGN     1400.       360

RE FINISHED

ME STARTING
ME INPUTFIL P:\MET\PBIPBI87.MET
ME ANEMHGHT    33  FEET
ME SURFDATA  12844     1987     WEST-PALM-BCH
ME UAIRDATA  12844     1987     WEST-PALM-BCH
ME FINISHED

OU STARTING
OU RECTABLE ALLAVE FIRST SECOND
OU FINISHED
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TROPICANA PRODUCTS, INC.

FORT PIERCE PLANT

PM_{10} PLANT EMISSIONS AT 1.5% SULFUR

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SO BUILDWID 002        64.35   61.04   55.88   49.02   99.20   60.96
SO BUILDWID 002        66.49   70.00   71.39   70.60   67.67   62.68
SO BUILDWID 002        55.79   49.65   22.56   23.30   27.61   31.12
SO BUILDWID 002        35.35   38.51   85.91   91.75   99.20   60.96

SO BUILDHGT 003        13.11   13.11   13.11   10.67   10.67   10.67
SO BUILDHGT 003        10.67   10.67    8.84    8.84   11.28   11.28
SO BUILDHGT 003        11.28   11.28   11.28   11.28   10.67   10.67
SO BUILDHGT 003        10.67   10.67   10.67   10.67   10.67   10.67
SO BUILDHGT 003        10.67   10.67    8.84    8.84    8.84    8.84
SO BUILDHGT 003         8.84    8.84   13.11   13.11   13.11   13.11
SO BUILDWID 003        73.31   71.24   67.01   70.60   67.67   62.68
SO BUILDWID 003        55.79   49.65   22.56   23.30   65.05   65.70
SO BUILDWID 003        64.35   61.04   55.88   49.02   99.20   60.96
SO BUILDWID 003        66.49   70.00   71.39   70.60   67.67   62.68
SO BUILDWID 003        55.79   49.65   22.56   23.30   27.61   31.12
SO BUILDWID 003        35.35   38.51   85.91   84.17   79.87   73.15

SO BUILDHGT 006        10.67   10.67   10.67   10.67   10.67   10.67
SO BUILDHGT 006        10.67   10.67    8.84   11.28   11.28   11.28
SO BUILDHGT 006        11.28   11.28   11.28   11.28   10.67   10.67
SO BUILDHGT 006        10.67   10.67   10.67   10.67   10.67   10.67
SO BUILDHGT 006        10.67   10.67    8.84    8.84    8.84    8.84
SO BUILDHGT 006         8.84    8.84   10.67   10.67   10.67   10.67
SO BUILDWID 006        66.49   70.00   71.39   70.60   67.67   62.68
SO BUILDWID 006        55.79   49.65   22.56   90.05   65.05   65.70
SO BUILDWID 006        64.35   61.04   55.88   49.02   99.20  103.63
SO BUILDWID 006        66.49   70.00   71.39   70.60   67.67   62.68
SO BUILDWID 006        55.79   49.65   22.56   23.30   27.61   31.12
SO BUILDWID 006        35.35   38.51   85.91   91.75   99.20  103.63

SO BUILDHGT 007        10.67   11.28   11.28   10.67   10.67   10.67
SO BUILDHGT 007        10.67   10.67   10.67   10.67   10.67   10.67
SO BUILDHGT 007        11.28   11.28   11.28   11.28   11.28   11.28
SO BUILDHGT 007        11.28   11.28   11.28   10.67   10.67   10.67
SO BUILDHGT 007        10.67   10.67   10.67   10.67   10.67   13.11
SO BUILDHGT 007        13.11   13.11   13.11   13.11   13.11   10.67
SO BUILDWID 007        66.49   92.41  101.05   70.60   67.67   62.68
SO BUILDWID 007        55.79   49.65   44.50   51.55   57.04   62.68
SO BUILDWID 007        85.83   79.07   69.90   49.02   40.67   31.09
SO BUILDWID 007        40.67   49.02   55.88   70.60   67.67   62.68
SO BUILDWID 007        55.79   49.65   44.50   51.55   57.04   75.64
SO BUILDWID 007        81.58   85.03   85.91   84.17   79.87   60.96

SO EMISUNIT    .100000E+07 (GRAMS/SEC)          (MICROGRAMS/CUBIC-METER)
SO SRCGROUP ALL
SO FINISHED

RE STARTING
RE GRIDPOLR POL STA
RE GRIDPOLR POL ORIG     0.0     0.0
RE GRIDPOLR POL DIST    1500 2000 2500 3000 4000 5000
RE GRIDPOLR POL GDIR  36.  10    10.00
RE GRIDPOLR POL END

**  FENCELINE RECEPTORS AT 100-M INTERVALS
RE DISCCART    -1331.7    -399.9
RE DISCCART    -1231.7    -401.4
RE DISCCART    -1131.7    -402.9
RE DISCCART    -1031.7    -404.4
RE DISCCART     -931.7    -405.9
RE DISCCART     -831.7    -407.0
RE DISCCART     -731.7    -405.1
RE DISCCART     -631.8    -403.3
RE DISCCART     -536.7    -415.1
RE DISCCART     -438.3    -406.1
RE DISCCART     -338.3    -404.6
RE DISCCART     -242.8    -416.7
RE DISCCART     -142.8    -418.5
RE DISCCART      -42.8    -420.3
RE DISCCART       47.8    -400.0
RE DISCCART      116.0    -326.9
RE DISCCART      184.2    -253.8
RE DISCCART      252.4    -180.6
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RE DISCCART      320.6    -107.5
RE DISCCART      388.8     -34.4
RE DISCCART      457.0      38.8
RE DISCCART      488.1     106.0
RE DISCCART      428.3     180.0
RE DISCCART      386.6     270.9
RE DISCCART      327.4     334.2
RE DISCCART      227.4     333.8
RE DISCCART      127.4     333.3
RE DISCCART       27.4     332.9
RE DISCCART      -72.6     332.5
RE DISCCART     -172.6     332.0
RE DISCCART     -272.6     331.6
RE DISCCART     -372.6     331.1
RE DISCCART     -472.6     330.7
RE DISCCART     -572.6     330.2
RE DISCCART     -672.6     329.8
RE DISCCART     -772.6     329.4
RE DISCCART     -872.6     328.9
RE DISCCART     -972.6     328.5
RE DISCCART    -1072.6     328.0
RE DISCCART    -1172.6     327.6
RE DISCCART    -1272.6     327.1
RE DISCCART    -1318.1     266.8
RE DISCCART    -1347.6     171.2
RE DISCCART    -1377.0      75.7
RE DISCCART    -1406.5     -19.9
RE DISCCART    -1425.5    -117.1
RE DISCCART    -1427.2    -217.1
RE DISCCART    -1425.5    -317.1
RE DISCCART    -1366.3    -389.7

** PROPERTY BOUNDARY RECEPTORS WITH ADDITION OFF-SITE RECEPTORS AT
** 1500,2000,2500,3000,4000, AND 5000 M CENTERED ON ORGN
RE DISCPOLR ORGN      400.        10
RE DISCPOLR ORGN      600.        10
RE DISCPOLR ORGN      800.        10
RE DISCPOLR ORGN     1000.        10
RE DISCPOLR ORGN     1200.        10
RE DISCPOLR ORGN     1400.        10
RE DISCPOLR ORGN      400.        20
RE DISCPOLR ORGN      600.        20
RE DISCPOLR ORGN      800.        20
RE DISCPOLR ORGN     1000.        20
RE DISCPOLR ORGN     1200.        20
RE DISCPOLR ORGN     1400.        20
RE DISCPOLR ORGN      400.        30
RE DISCPOLR ORGN      600.        30
RE DISCPOLR ORGN      800.        30
RE DISCPOLR ORGN     1000.        30
RE DISCPOLR ORGN     1200.        30
RE DISCPOLR ORGN     1400.        30
RE DISCPOLR ORGN      600.        40
RE DISCPOLR ORGN      800.        40
RE DISCPOLR ORGN     1000.        40
RE DISCPOLR ORGN     1200.        40
RE DISCPOLR ORGN     1400.        40
RE DISCPOLR ORGN      600.        50
RE DISCPOLR ORGN      800.        50
RE DISCPOLR ORGN     1000.        50
RE DISCPOLR ORGN     1200.        50
RE DISCPOLR ORGN     1400.        50
RE DISCPOLR ORGN      600.        60
RE DISCPOLR ORGN      800.        60
RE DISCPOLR ORGN     1000.        60
RE DISCPOLR ORGN     1200.        60
RE DISCPOLR ORGN     1400.        60
RE DISCPOLR ORGN      600.        70
RE DISCPOLR ORGN      800.        70
RE DISCPOLR ORGN     1000.        70
RE DISCPOLR ORGN     1200.        70
RE DISCPOLR ORGN     1400.        70
RE DISCPOLR ORGN      600.        80
RE DISCPOLR ORGN      800.        80
RE DISCPOLR ORGN     1000.        80
RE DISCPOLR ORGN     1200.        80
RE DISCPOLR ORGN     1400.        80
RE DISCPOLR ORGN      600.        90
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RE	DISCPOLR	ORGN	800. 90
RE	DISCPOLR	ORGN	1000. 90
RE	DISCPOLR	ORGN	1200. 90
RE	DISCPOLR	ORGN	1400. 90
RE	DISCPOLR	ORGN	400. 100
RE	DISCPOLR	ORGN	600. 100
RE	DISCPOLR	ORGN	800. 100
RE	DISCPOLR	ORGN	1000. 100
RE	DISCPOLR	ORGN	1200. 100
RE	DISCPOLR	ORGN	1400. 100
RE	DISCPOLR	ORGN	400. 110
RE	DISCPOLR	ORGN	600. 110
RE	DISCPOLR	ORGN	800. 110
RE	DISCPOLR	ORGN	1000. 110
RE	DISCPOLR	ORGN	1200. 110
RE	DISCPOLR	ORGN	1400. 110
RE	DISCPOLR	ORGN	400. 120
RE	DISCPOLR	ORGN	600. 120
RE	DISCPOLR	ORGN	800. 120
RE	DISCPOLR	ORGN	1000. 120
RE	DISCPOLR	ORGN	1200. 120
RE	DISCPOLR	ORGN	1400. 120
RE	DISCPOLR	ORGN	400. 130
RE	DISCPOLR	ORGN	600. 130
RE	DISCPOLR	ORGN	800. 130
RE	DISCPOLR	ORGN	1000. 130
RE	DISCPOLR	ORGN	1200. 130
RE	DISCPOLR	ORGN	1400. 130
RE	DISCPOLR	ORGN	400. 140
RE	DISCPOLR	ORGN	600. 140
RE	DISCPOLR	ORGN	800. 140
RE	DISCPOLR	ORGN	1000. 140
RE	DISCPOLR	ORGN	1200. 140
RE	DISCPOLR	ORGN	1400. 140
RE	DISCPOLR	ORGN	400. 150
RE	DISCPOLR	ORGN	600. 150
RE	DISCPOLR	ORGN	800. 150
RE	DISCPOLR	ORGN	1000. 150
RE	DISCPOLR	ORGN	1200. 150
RE	DISCPOLR	ORGN	1400. 150
RE	DISCPOLR	ORGN	400. 160
RE	DISCPOLR	ORGN	600. 160
RE	DISCPOLR	ORGN	800. 160
RE	DISCPOLR	ORGN	1000. 160
RE	DISCPOLR	ORGN	1200. 160
RE	DISCPOLR	ORGN	1400. 160
RE	DISCPOLR	ORGN	400. 170
RE	DISCPOLR	ORGN	600. 170
RE	DISCPOLR	ORGN	800. 170
RE	DISCPOLR	ORGN	1000. 170
RE	DISCPOLR	ORGN	1200. 170
RE	DISCPOLR	ORGN	1400. 170
RE	DISCPOLR	ORGN	600. 180
RE	DISCPOLR	ORGN	800. 180
RE	DISCPOLR	ORGN	1000. 180
RE	DISCPOLR	ORGN	1200. 180
RE	DISCPOLR	ORGN	1400. 180
RE	DISCPOLR	ORGN	600. 190
RE	DISCPOLR	ORGN	800. 190
RE	DISCPOLR	ORGN	1000. 190
RE	DISCPOLR	ORGN	1200. 190
RE	DISCPOLR	ORGN	1400. 190
RE	DISCPOLR	ORGN	600. 200
RE	DISCPOLR	ORGN	800. 200
RE	DISCPOLR	ORGN	1000. 200
RE	DISCPOLR	ORGN	1200. 200
RE	DISCPOLR	ORGN	1400. 200
RE	DISCPOLR	ORGN	600. 210
RE	DISCPOLR	ORGN	800. 210
RE	DISCPOLR	ORGN	1000. 210
RE	DISCPOLR	ORGN	1200. 210
RE	DISCPOLR	ORGN	1400. 210
RE	DISCPOLR	ORGN	600. 220
RE	DISCPOLR	ORGN	800. 220
RE	DISCPOLR	ORGN	1000. 220
RE	DISCPOLR	ORGN	1200. 220
RE	DISCPOLR	ORGN	1400. 220
RE	DISCPOLR	ORGN	800. 230

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RE DISCPOLR ORGN     1000.       230
RE DISCPOLR ORGN     1200.       230
RE DISCPOLR ORGN     1400.       230
RE DISCPOLR ORGN     1000.       240
RE DISCPOLR ORGN     1200.       240
RE DISCPOLR ORGN     1400.       240
RE DISCPOLR ORGN     1200.       250
RE DISCPOLR ORGN     1400.       250
RE DISCPOLR ORGN     1400.       280
RE DISCPOLR ORGN     1000.       290
RE DISCPOLR ORGN     1200.       290
RE DISCPOLR ORGN     1400.       290
RE DISCPOLR ORGN      800.       300
RE DISCPOLR ORGN     1000.       300
RE DISCPOLR ORGN     1200.       300
RE DISCPOLR ORGN     1400.       300
RE DISCPOLR ORGN      600.       310
RE DISCPOLR ORGN      800.       310
RE DISCPOLR ORGN     1000.       310
RE DISCPOLR ORGN     1200.       310
RE DISCPOLR ORGN     1400.       310
RE DISCPOLR ORGN      600.       320
RE DISCPOLR ORGN      800.       320
RE DISCPOLR ORGN     1000.       320
RE DISCPOLR ORGN     1200.       320
RE DISCPOLR ORGN     1400.       320
RE DISCPOLR ORGN      400.       330
RE DISCPOLR ORGN      600.       330
RE DISCPOLR ORGN      800.       330
RE DISCPOLR ORGN     1000.       330
RE DISCPOLR ORGN     1200.       330
RE DISCPOLR ORGN     1400.       330
RE DISCPOLR ORGN      400.       340
RE DISCPOLR ORGN      600.       340
RE DISCPOLR ORGN      800.       340
RE DISCPOLR ORGN     1000.       340
RE DISCPOLR ORGN     1200.       340
RE DISCPOLR ORGN     1400.       340
RE DISCPOLR ORGN      400.       350
RE DISCPOLR ORGN      600.       350
RE DISCPOLR ORGN      800.       350
RE DISCPOLR ORGN     1000.       350
RE DISCPOLR ORGN     1200.       350
RE DISCPOLR ORGN     1400.       350
RE DISCPOLR ORGN      400.       360
RE DISCPOLR ORGN      600.       360
RE DISCPOLR ORGN      800.       360
RE DISCPOLR ORGN     1000.       360
RE DISCPOLR ORGN     1200.       360
RE DISCPOLR ORGN  .  1400.       360

RE FINISHED

ME STARTING
ME INPUTFIL P:\MET\PBIPBI87.MET
ME ANEMHGHT    33  FEET
ME SURFDATA  12844     1987     WEST-PALM-BCH
ME UAIRDATA  12844     1987     WEST-PALM-BCH
ME FINISHED

OU STARTING
OU RECTABLE ALLAVE FIRST SECOND
OU FINISHED
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TROPICANA PRODUCTS, INC.

FORT PIERCE PLANT

NO_x PLANT EMISSIONS AT 1.5% SULFUR

ISCST3 OUTPUT FILE NUMBER 1 :NOX1.087
ISCST3 OUTPUT FILE NUMBER 2 :NOX1.088
ISCST3 OUTPUT FILE NUMBER 3 :NOX1.089
ISCST3 OUTPUT FILE NUMBER 4 :NOX1.090
ISCST3 OUTPUT FILE NUMBER 5 :NOX1.091
First title for last output file is: 1987 Tropicana Fort Pierce Plant 9/7/00
Second title for last output file is: Palm Beach/Palm Beach Met Data, 1987-91, NOX, 1.5% S

AVERAGING TIME	YEAR	CONC (ug/m3)	DIR (deg) or X (m)	DIST (m) or Y (m)	PERIOD ENDING (YYMMDDHH)
SOURCE GROUP ID: ALL					
Annual					
	1987	6.7	-573.	330.	87123124
	1988	5.9	-473.	331.	88123124
	1989	7.0	-473.	331.	89123124
	1990	7.8	-573.	330.	90123124
	1991	7.5	-573.	330.	91123124

All receptor computations reported with respect to a user-specified origin

GRID	0.00	0.00
DISCRETE	0.00	0.00

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CO STARTINGTropFinal\NOX1.191
CO TITLEONE 1991 Tropicana Fort Pierce Plant 9/7/00
CO TITLETWO Palm Beach/Palm Beach Met Data, 1987-91, NOX, 1.5% S
CO MODELOPT CONC   RURAL DFAULT NOCMPL
CO AVERTIME PERIOD
CO POLLUTID NOX
CO DCAYCOEF    .000000
CO RUNORNOT RUN
CO FINISHED

SO STARTING
** TROPICANA ORIGIN IS NW CORNER OF FEED MILL
SO LOCATION ORGN    POINT        0.0       0.0      .0
SO SRCPARAM ORGN    0.0      0.0     0.0     0.0     0.0
** SOURCE ID                    DESCRIPTION
** ----------------------------------------------------------
** 001                          Dryer No. 1
** 004                          Dryer No. 2
** 002                          Boiler No. 1
** 003                          Boiler No. 2
** 006                          Package Boiler
** 007                          Pellet Coolers


** STACK LOCATIONS
SO LOCATION  001  POINT  22.6   -21.3       0.
SO LOCATION  004  POINT  31.1   -21.3       0.
SO LOCATION  002  POINT  64.0    15.8       0.
SO LOCATION  003  POINT  65.8    11.6       0.
SO LOCATION  006  POINT  67.7    17.1       0.
SO LOCATION  007  POINT  15.2     0.0       0.


SO SRCPARAM 001  3.88  28.96   333.2   19.29   0.97
SO SRCPARAM 004  3.88  28.96   333.2   19.29   0.97
SO SRCPARAM 002  2.93  18.29   584.3   41.24   0.61
SO SRCPARAM 003  2.93  18.29   584.3   41.24   0.61
SO SRCPARAM 006  0.21  18.29   505.4   12.77   0.61
SO SRCPARAM 007  0.00  6.10    305.4   0.01    1.22


SO BUILDHGT 001        10.67   10.67   10.67   10.67   10.67   10.67
SO BUILDHGT 001        10.67   10.67   10.67   10.67   13.11   13.11
SO BUILDHGT 001        10.67   10.67   10.67   10.67   10.67   10.67
SO BUILDHGT 001        10.67   10.67   10.67   10.67   10.67   10.67
SO BUILDHGT 001        10.67   10.67   10.67   10.67   13.11   13.11
SO BUILDHGT 001        13.11   13.11   13.11   13.11   13.11   10.67
SO BUILDWID 001        66.49   70.00   71.39   70.60   67.67   62.68
SO BUILDWID 001        55.79   49.65   44.50   51.55   67.41   75.64
SO BUILDWID 001        67.67   70.60   71.39   70.00   66.49   60.96
SO BUILDWID 001        66.49   70.00   71.39   70.60   67.67   62.68
SO BUILDWID 001        55.79   49.65   44.50   51.55   67.41   75.64
SO BUILDWID 001        81.58   85.03   85.91   84.17   79.87   60.96


SO BUILDHGT 004        13.11   10.67   10.67   10.67   10.67   10.67
SO BUILDHGT 004        10.67   10.67   10.67   10.67   13.11   13.11
SO BUILDHGT 004        13.11   13.11   10.67   10.67   10.67   10.67
SO BUILDHGT 004        13.11   10.67   10.67   10.67   10.67   10.67
SO BUILDHGT 004        10.67   10.67   10.67   10.67   13.11   13.11
SO BUILDHGT 004        13.11   13.11   13.11   13.11   13.11   13.11
SO BUILDWID 004        73.31   70.00   71.39   70.60   67.67   62.68
SO BUILDWID 004        55.79   49.65   44.50   51.55   67.41   75.64
SO BUILDWID 004        81.58   85.03   71.39   70.00   66.49   60.96
SO BUILDWID 004        73.31   70.00   71.39   70.60   67.67   62.68
SO BUILDWID 004        55.79   49.65   44.50   51.55   67.41   75.64
SO BUILDWID 004        81.58   85.03   85.91   84.17   79.87   73.15


SO BUILDHGT 002        10.67   10.67   10.67   10.67   10.67   10.67
SO BUILDHGT 002        10.67   10.67    8.84    8.84   11.28   11.28
SO BUILDHGT 002        11.28   11.28   11.28   11.28   10.67   10.67
SO BUILDHGT 002        10.67   10.67   10.67   10.67   10.67   10.67
SO BUILDHGT 002        10.67   10.67    8.84    8.84    8.84    8.84
SO BUILDHGT 002         8.84    8.84   10.67   10.67   10.67   10.67
SO BUILDWID 002        66.49   70.00   71.39   70.60   67.67   62.68
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SO BUILDWID 002        55.79   49.65   22.56   23.30   65.05   65.70
SO BUILDWID 002        64.35   61.04   55.88   49.02   99.20   60.96
SO BUILDWID 002        66.49   70.00   71.39   70.60   67.67   62.68
SO BUILDWID 002        55.79   49.65   22.56   23.30   27.61   31.12
SO BUILDWID 002        35.35   38.51   85.91   91.75   99.20   60.96

SO BUILDHGT 003        13.11   13.11   13.11   10.67   10.67   10.67
SO BUILDHGT 003        10.67   10.67    8.84    8.84   11.28   11.28
SO BUILDHGT 003        11.28   11.28   11.28   11.28   10.67   10.67
SO BUILDHGT 003        10.67   10.67   10.67   10.67   10.67   10.67
SO BUILDHGT 003        10.67   10.67    8.84    8.84    8.84    8.84
SO BUILDHGT 003         8.84    8.84   13.11   13.11   13.11   13.11
SO BUILDWID 003        73.31   71.24   67.01   70.60   67.67   62.68
SO BUILDWID 003        55.79   49.65   22.56   23.30   65.05   65.70
SO BUILDWID 003        64.35   61.04   55.88   49.02   99.20   60.96
SO BUILDWID 003        66.49   70.00   71.39   70.60   67.67   62.68
SO BUILDWID 003        55.79   49.65   22.56   23.30   27.61   31.12
SO BUILDWID 003        35.35   38.51   85.91   84.17   79.87   73.15

SO BUILDHGT 006        10.67   10.67   10.67   10.67   10.67   10.67
SO BUILDHGT 006        10.67   10.67    8.84   11.28   11.28   11.28
SO BUILDHGT 006        11.28   11.28   11.28   11.28   10.67   10.67
SO BUILDHGT 006        10.67   10.67   10.67   10.67   10.67   10.67
SO BUILDHGT 006        10.67   10.67    8.84    8.84    8.84    8.84
SO BUILDHGT 006         8.84    8.84   10.67   10.67   10.67   10.67
SO BUILDWID 006        66.49   70.00   71.39   70.60   67.67   62.68
SO BUILDWID 006        55.79   49.65   22.56   90.05   65.05   65.70
SO BUILDWID 006        64.35   61.04   55.88   49.02   99.20  103.63
SO BUILDWID 006        66.49   70.00   71.39   70.60   67.67   62.68
SO BUILDWID 006        55.79   49.65   22.56   23.30   27.61   31.12
SO BUILDWID 006        35.35   38.51   85.91   91.75   99.20  103.63

SO BUILDHGT 007        10.67   11.28   11.28   10.67   10.67   10.67
SO BUILDHGT 007        10.67   10.67   10.67   10.67   10.67   10.67
SO BUILDHGT 007        11.28   11.28   11.28   11.28   11.28   11.28
SO BUILDHGT 007        11.28   11.28   11.28   10.67   10.67   10.67
SO BUILDHGT 007        10.67   10.67   10.67   10.67   10.67   13.11
SO BUILDHGT 007        13.11   13.11   13.11   13.11   13.11   10.67
SO BUILDWID 007        66.49   92.41  101.05   70.60   67.67   62.68
SO BUILDWID 007        55.79   49.65   44.50   51.55   57.04   62.68
SO BUILDWID 007        85.83   79.07   69.90   49.02   40.67   31.09
SO BUILDWID 007        40.67   49.02   55.88   70.60   67.67   62.68
SO BUILDWID 007        55.79   49.65   44.50   51.55   57.04   75.64
SO BUILDWID 007        81.58   85.03   85.91   84.17   79.87   60.96

SO EMISUNIT    .100000E+07 (GRAMS/SEC)          (MICROGRAMS/CUBIC-METER)
SO SRCGROUP ALL
SO FINISHED

RE STARTING
RE GRIDPOLR POL STA
RE GRIDPOLR POL ORIG     0.0     0.0
RE GRIDPOLR POL DIST    1500 2000 2500 3000
RE GRIDPOLR POL GDIR  36.   10    10.00
RE GRIDPOLR POL END

**  FENCELINE RECEPTORS AT 100-M INTERVALS
RE DISCCART    -1331.7    -399.9
RE DISCCART    -1231.7    -401.4
RE DISCCART    -1131.7    -402.9
RE DISCCART    -1031.7    -404.4
RE DISCCART     -931.7    -405.9
RE DISCCART     -831.7    -407.0
RE DISCCART     -731.7    -405.1
RE DISCCART     -631.8    -403.3
RE DISCCART     -536.7    -415.1
RE DISCCART     -438.3    -406.1
RE DISCCART     -338.3    -404.6
RE DISCCART     -242.8    -416.7
RE DISCCART     -142.8    -418.5
RE DISCCART      -42.8    -420.3
RE DISCCART       47.8    -400.0
RE DISCCART      116.0    -326.9
RE DISCCART      184.2    -253.8
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RE DISCCART      252.4    -180.6
RE DISCCART      320.6    -107.5
RE DISCCART      388.8     -34.4
RE DISCCART      457.0      38.8
RE DISCCART      488.1     106.0
RE DISCCART      428.3     180.0
RE DISCCART      386.6     270.9
RE DISCCART      327.4     334.2
RE DISCCART      227.4     333.8
RE DISCCART      127.4     333.3
RE DISCCART       27.4     332.9
RE DISCCART      -72.6     332.5
RE DISCCART     -172.6     332.0
RE DISCCART     -272.6     331.6
RE DISCCART     -372.6     331.1
RE DISCCART     -472.6     330.7
RE DISCCART     -572.6     330.2
RE DISCCART     -672.6     329.8
RE DISCCART     -772.6     329.4
RE DISCCART     -872.6     328.9
RE DISCCART     -972.6     328.5
RE DISCCART    -1072.6     328.0
RE DISCCART    -1172.6     327.6
RE DISCCART    -1272.6     327.1
RE DISCCART    -1318.1     266.8
RE DISCCART    -1347.6     171.2
RE DISCCART    -1377.0      75.7
RE DISCCART    -1406.5     -19.9
RE DISCCART    -1425.5    -117.1
RE DISCCART    -1427.2    -217.1
RE DISCCART    -1425.5    -317.1
RE DISCCART    -1366.3    -389.7

** PROPERTY BOUNDARY RECEPTORS WITH ADDITION OFF-SITE RECEPTORS AT
** 1500,2000,2500,and 3000 M, CENTERED ON ORGN
RE DISCPOLR ORGN      400.        10
RE DISCPOLR ORGN      600.        10
RE DISCPOLR ORGN      800.        10
RE DISCPOLR ORGN     1000.        10
RE DISCPOLR ORGN     1200.        10
RE DISCPOLR ORGN     1400.        10
RE DISCPOLR ORGN      400.        20
RE DISCPOLR ORGN      600.        20
RE DISCPOLR ORGN      800.        20
RE DISCPOLR ORGN     1000.        20
RE DISCPOLR ORGN     1200.        20
RE DISCPOLR ORGN     1400.        20
RE DISCPOLR ORGN      400.        30
RE DISCPOLR ORGN      600.        30
RE DISCPOLR ORGN      800.        30
RE DISCPOLR ORGN     1000.        30
RE DISCPOLR ORGN     1200.        30
RE DISCPOLR ORGN     1400.        30
RE DISCPOLR ORGN      600.        40
RE DISCPOLR ORGN      800.        40
RE DISCPOLR ORGN     1000.        40
RE DISCPOLR ORGN     1200.        40
RE DISCPOLR ORGN     1400.        40
RE DISCPOLR ORGN      600.        50
RE DISCPOLR ORGN      800.        50
RE DISCPOLR ORGN     1000.        50
RE DISCPOLR ORGN     1200.        50
RE DISCPOLR ORGN     1400.        50
RE DISCPOLR ORGN      600.        60
RE DISCPOLR ORGN      800.        60
RE DISCPOLR ORGN     1000.        60
RE DISCPOLR ORGN     1200.        60
RE DISCPOLR ORGN     1400.        60
RE DISCPOLR ORGN      600.        70
RE DISCPOLR ORGN      800.        70
RE DISCPOLR ORGN     1000.        70
RE DISCPOLR ORGN     1200.        70
RE DISCPOLR ORGN     1400.        70
RE DISCPOLR ORGN      600.        80
RE DISCPOLR ORGN      800.        80
RE DISCPOLR ORGN     1000.        80
RE DISCPOLR ORGN     1200.        80
RE DISCPOLR ORGN     1400.        80
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RE	DISCPOLR	ORGN	600. 90
RE	DISCPOLR	ORGN	800. 90
RE	DISCPOLR	ORGN	1000. 90
RE	DISCPOLR	ORGN	1200. 90
RE	DISCPOLR	ORGN	1400. 90
RE	DISCPOLR	ORGN	400. 100
RE	DISCPOLR	ORGN	600. 100
RE	DISCPOLR	ORGN	800. 100
RE	DISCPOLR	ORGN	1000. 100
RE	DISCPOLR	ORGN	1200. 100
RE	DISCPOLR	ORGN	1400. 100
RE	DISCPOLR	ORGN	400. 110
RE	DISCPOLR	ORGN	600. 110
RE	DISCPOLR	ORGN	800. 110
RE	DISCPOLR	ORGN	1000. 110
RE	DISCPOLR	ORGN	1200. 110
RE	DISCPOLR	ORGN	1400. 110
RE	DISCPOLR	ORGN	400. 120
RE	DISCPOLR	ORGN	600. 120
RE	DISCPOLR	ORGN	800. 120
RE	DISCPOLR	ORGN	1000. 120
RE	DISCPOLR	ORGN	1200. 120
RE	DISCPOLR	ORGN	1400. 120
RE	DISCPOLR	ORGN	400. 130
RE	DISCPOLR	ORGN	600. 130
RE	DISCPOLR	ORGN	800. 130
RE	DISCPOLR	ORGN	1000. 130
RE	DISCPOLR	ORGN	1200. 130
RE	DISCPOLR	ORGN	1400. 130
RE	DISCPOLR	ORGN	400. 140
RE	DISCPOLR	ORGN	600. 140
RE	DISCPOLR	ORGN	800. 140
RE	DISCPOLR	ORGN	1000. 140
RE	DISCPOLR	ORGN	1200. 140
RE	DISCPOLR	ORGN	1400. 140
RE	DISCPOLR	ORGN	400. 150
RE	DISCPOLR	ORGN	600. 150
RE	DISCPOLR	ORGN	800. 150
RE	DISCPOLR	ORGN	1000. 150
RE	DISCPOLR	ORGN	1200. 150
RE	DISCPOLR	ORGN	1400. 150
RE	DISCPOLR	ORGN	400. 160
RE	DISCPOLR	ORGN	600. 160
RE	DISCPOLR	ORGN	800. 160
RE	DISCPOLR	ORGN	1000. 160
RE	DISCPOLR	ORGN	1200. 160
RE	DISCPOLR	ORGN	1400. 160
RE	DISCPOLR	ORGN	400. 170
RE	DISCPOLR	ORGN	600. 170
RE	DISCPOLR	ORGN	800. 170
RE	DISCPOLR	ORGN	1000. 170
RE	DISCPOLR	ORGN	1200. 170
RE	DISCPOLR	ORGN	1400. 170
RE	DISCPOLR	ORGN	600. 180
RE	DISCPOLR	ORGN	800. 180
RE	DISCPOLR	ORGN	1000. 180
RE	DISCPOLR	ORGN	1200. 180
RE	DISCPOLR	ORGN	1400. 180
RE	DISCPOLR	ORGN	600. 190
RE	DISCPOLR	ORGN	800. 190
RE	DISCPOLR	ORGN	1000. 190
RE	DISCPOLR	ORGN	1200. 190
RE	DISCPOLR	ORGN	1400. 190
RE	DISCPOLR	ORGN	600. 200
RE	DISCPOLR	ORGN	800. 200
RE	DISCPOLR	ORGN	1000. 200
RE	DISCPOLR	ORGN	1200. 200
RE	DISCPOLR	ORGN	1400. 200
RE	DISCPOLR	ORGN	600. 210
RE	DISCPOLR	ORGN	800. 210
RE	DISCPOLR	ORGN	1000. 210
RE	DISCPOLR	ORGN	1200. 210
RE	DISCPOLR	ORGN	1400. 210
RE	DISCPOLR	ORGN	600. 220
RE	DISCPOLR	ORGN	800. 220
RE	DISCPOLR	ORGN	1000. 220
RE	DISCPOLR	ORGN	1200. 220
RE	DISCPOLR	ORGN	1400. 220

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RE DISCPOLR ORGN      800.       230
RE DISCPOLR ORGN     1000.       230
RE DISCPOLR ORGN     1200.       230
RE DISCPOLR ORGN     1400.       230
RE DISCPOLR ORGN     1000.       240
RE DISCPOLR ORGN     1200.       240
RE DISCPOLR ORGN     1400.       240
RE DISCPOLR ORGN     1200.       250
RE DISCPOLR ORGN     1400.       250
RE DISCPOLR ORGN     1400.       280
RE DISCPOLR ORGN     1000.       290
RE DISCPOLR ORGN     1200.       290
RE DISCPOLR ORGN     1400.       290
RE DISCPOLR ORGN      800.       300
RE DISCPOLR ORGN     1000.       300
RE DISCPOLR ORGN     1200.       300
RE DISCPOLR ORGN     1400.       300
RE DISCPOLR ORGN      600.       310
RE DISCPOLR ORGN      800.       310
RE DISCPOLR ORGN     1000.       310
RE DISCPOLR ORGN     1200.       310
RE DISCPOLR ORGN     1400.       310
RE DISCPOLR ORGN      600.       320
RE DISCPOLR ORGN      800.       320
RE DISCPOLR ORGN     1000.       320
RE DISCPOLR ORGN     1200.       320
RE DISCPOLR ORGN     1400.       320
RE DISCPOLR ORGN      400.       330
RE DISCPOLR ORGN      600.       330
RE DISCPOLR ORGN      800.       330
RE DISCPOLR ORGN     1000.       330
RE DISCPOLR ORGN     1200.       330
RE DISCPOLR ORGN     1400.       330
RE DISCPOLR ORGN      400.       340
RE DISCPOLR ORGN      600.       340
RE DISCPOLR ORGN      800.       340
RE DISCPOLR ORGN     1000.       340
RE DISCPOLR ORGN     1200.       340
RE DISCPOLR ORGN     1400.       340
RE DISCPOLR ORGN      400.       350
RE DISCPOLR ORGN      600.       350
RE DISCPOLR ORGN      800.       350
RE DISCPOLR ORGN     1000.       350
RE DISCPOLR ORGN     1200.       350
RE DISCPOLR ORGN     1400.       350
RE DISCPOLR ORGN      400.       360
RE DISCPOLR ORGN      600.       360
RE DISCPOLR ORGN      800.       360
RE DISCPOLR ORGN     1000.       360
RE DISCPOLR ORGN     1200.       360
RE DISCPOLR ORGN     1400.       360

RE FINISHED

ME STARTING
ME INPUTFIL P:\MET\PBIPBI91.MET
ME ANEMHGHT    33  FEET
ME SURFDATA  12844     1991     WEST-PALM-BCH
ME UAIRDATA  12844     1991     WEST-PALM-BCH
ME FINISHED

OU STARTING
OU RECTABLE ALLAVE FIRST
OU FINISHED
```

TROPICANA PRODUCTS, INC.

FORT PIERCE PLANT

CO PLANT EMISSIONS AT 1.5% SULFUR

ISCST3 OUTPUT FILE NUMBER 1 :CO1.087
ISCST3 OUTPUT FILE NUMBER 2 :CO1.088
ISCST3 OUTPUT FILE NUMBER 3 :CO1.089
ISCST3 OUTPUT FILE NUMBER 4 :CO1.090
ISCST3 OUTPUT FILE NUMBER 5 :CO1.091
First title for last output file is: 1987 Tropicana Fort Pierce Plant 9/7/00
Second title for last output file is: Palm Beach/Palm Beach Met Data, 1987-91, CO, 1.5% S

AVERAGING TIME	YEAR	CONC (ug/m3)	DIR (deg) or X (m)	DIST (m) or Y (m)	PERIOD ENDING (YYMMDDHH)
SOURCE GROUP ID: ALL					
HIGH 8-Hour					
	1987	626.7	-338.	-405.	87032216
	1988	570.2	-273.	332.	88071016
	1989	579.8	320.	800.	89091424
	1990	572.7	327.	334.	90091616
	1991	726.1	100.	400.	91071216
HSH 8-Hour					
	1987	455.5	-243.	-417.	87050516
	1988	506.7	-273.	332.	88123116
	1989	488.9	-373.	331.	89060516
	1990	505.2	-573.	330.	90031424
	1991	515.4	389.	-34.	91060316
HIGH 1-Hour					
	1987	1383.1	457.	39.	87072810
	1988	1919.5	60.	1000.	88081408
	1989	1412.8	327.	334.	89101812
	1990	1502.9	320.	800.	90071414
	1991	1405.6	428.	180.	91080510
HSH 1-Hour					
	1987	1270.2	110.	400.	87081112
	1988	1364.3	170.	400.	88080710
	1989	1358.3	327.	334.	89051712
	1990	1410.9	320.	800.	90052417
	1991	1369.7	100.	400.	91090110

All receptor computations reported with respect to a user-specified origin

GRID	0.00	0.00
DISCRETE	0.00	0.00

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CO STARTINGTropFinal\CO1.I87
CO TITLEONE 1987 Tropicana Fort Pierce Plant 9/7/00
CO TITLETWO Palm Beach/Palm Beach Met Data, 1987-91, CO, 1.5% S
CO MODELOPT CONC   RURAL DFAULT NOCMPL
CO AVERTIME 8 1
CO POLLUTID CO
CO DCAYCOEF    .000000
CO RUNORNOT RUN
CO FINISHED

SO STARTING
** TROPICANA ORIGIN IS NW CORNER OF FEED MILL
SO LOCATION ORGN    POINT        0.0       0.0      .0
SO SRCPARAM ORGN    0.0      0.0     0.0     0.0     0.0
** SOURCE ID                    DESCRIPTION
** ------------------------------------------------------------
** 001                          Dryer No. 1
** 004                          Dryer No. 2
** 002                          Boiler No. 1
** 003                          Boiler No. 2
** 006                          Package Boiler
** 007                          Pellet Coolers


** STACK LOCATIONS
SO LOCATION  001  POINT  22.6   -21.3       0.
SO LOCATION  004  POINT  31.1   -21.3       0.
SO LOCATION  002  POINT  64.0    15.8       0.
SO LOCATION  003  POINT  65.8    11.6       0.
SO LOCATION  006  POINT  67.7    17.1       0.
SO LOCATION  007  POINT  15.2     0.0       0.


SO SRCPARAM 001 34.02  28.96   333.2   19.29   0.97
SO SRCPARAM 004 34.02  28.96   333.2   19.29   0.97
SO SRCPARAM 002  0.27  18.29   584.3   41.24   0.61
SO SRCPARAM 003  0.27  18.29   584.3   41.24   0.61
SO SRCPARAM 006  0.18  18.29   505.4   12.77   0.61
SO SRCPARAM 007  0.00   6.10   305.4    0.01   1.22


SO BUILDHGT 001        10.67   10.67   10.67   10.67   10.67   10.67
SO BUILDHGT 001        10.67   10.67   10.67   10.67   13.11   13.11
SO BUILDHGT 001        10.67   10.67   10.67   10.67   10.67   10.67
SO BUILDHGT 001        10.67   10.67   10.67   10.67   10.67   10.67
SO BUILDHGT 001        10.67   10.67   10.67   10.67   13.11   13.11
SO BUILDHGT 001        13.11   13.11   13.11   13.11   13.11   10.67
SO BUILDWID 001        66.49   70.00   71.39   70.60   67.67   62.68
SO BUILDWID 001        55.79   49.65   44.50   51.55   67.41   75.64
SO BUILDWID 001        67.67   70.60   71.39   70.00   66.49   60.96
SO BUILDWID 001        66.49   70.00   71.39   70.60   67.67   62.68
SO BUILDWID 001        55.79   49.65   44.50   51.55   67.41   75.64
SO BUILDWID 001        81.58   85.03   85.91   84.17   79.87   60.96


SO BUILDHGT 004        13.11   10.67   10.67   10.67   10.67   10.67
SO BUILDHGT 004        10.67   10.67   10.67   10.67   13.11   13.11
SO BUILDHGT 004        13.11   13.11   10.67   10.67   10.67   10.67
SO BUILDHGT 004        13.11   10.67   10.67   10.67   10.67   10.67
SO BUILDHGT 004        10.67   10.67   10.67   10.67   13.11   13.11
SO BUILDHGT 004        13.11   13.11   13.11   13.11   13.11   13.11
SO BUILDWID 004        73.31   70.00   71.39   70.60   67.67   62.68
SO BUILDWID 004        55.79   49.65   44.50   51.55   67.41   75.64
SO BUILDWID 004        81.58   85.03   71.39   70.00   66.49   60.96
SO BUILDWID 004        73.31   70.00   71.39   70.60   67.67   62.68
SO BUILDWID 004        55.79   49.65   44.50   51.55   67.41   75.64
SO BUILDWID 004        81.58   85.03   85.91   84.17   79.87   73.15


SO BUILDHGT 002        10.67   10.67   10.67   10.67   10.67   10.67
SO BUILDHGT 002        10.67   10.67    8.84    8.84   11.28   11.28
SO BUILDHGT 002        11.28   11.28   11.28   11.28   10.67   10.67
SO BUILDHGT 002        10.67   10.67   10.67   10.67   10.67   10.67
SO BUILDHGT 002        10.67   10.67    8.84    8.84    8.84    8.84
SO BUILDHGT 002         8.84    8.84   10.67   10.67   10.67   10.67
SO BUILDWID 002        66.49   70.00   71.39   70.60   67.67   62.68
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SO BUILDWID 002        55.79   49.65   22.56   23.30   65.05   65.70
SO BUILDWID 002        64.35   61.04   55.88   49.02   99.20   60.96
SO BUILDWID 002        66.49   70.00   71.39   70.60   67.67   62.68
SO BUILDWID 002        55.79   49.65   22.56   23.30   27.61   31.12
SO BUILDWID 002        35.35   38.51   85.91   91.75   99.20   60.96

SO BUILDHGT 003        13.11   13.11   13.11   10.67   10.67   10.67
SO BUILDHGT 003        10.67   10.67    8.84    8.84   11.28   11.28
SO BUILDHGT 003        11.28   11.28   11.28   11.28   10.67   10.67
SO BUILDHGT 003        10.67   10.67   10.67   10.67   10.67   10.67
SO BUILDHGT 003        10.67   10.67    8.84    8.84    8.84    8.84
SO BUILDHGT 003         8.84    8.84   13.11   13.11   13.11   13.11
SO BUILDWID 003        73.31   71.24   67.01   70.60   67.67   62.68
SO BUILDWID 003        55.79   49.65   22.56   23.30   65.05   65.70
SO BUILDWID 003        64.35   61.04   55.88   49.02   99.20   60.96
SO BUILDWID 003        66.49   70.00   71.39   70.60   67.67   62.68
SO BUILDWID 003        55.79   49.65   22.56   23.30   27.61   31.12
SO BUILDWID 003        35.35   38.51   85.91   84.17   79.87   73.15

SO BUILDHGT 006        10.67   10.67   10.67   10.67   10.67   10.67
SO BUILDHGT 006        10.67   10.67    8.84   11.28   11.28   11.28
SO BUILDHGT 006        11.28   11.28   11.28   11.28   10.67   10.67
SO BUILDHGT 006        10.67   10.67   10.67   10.67   10.67   10.67
SO BUILDHGT 006        10.67   10.67    8.84    8.84    8.84    8.84
SO BUILDHGT 006         8.84    8.84   10.67   10.67   10.67   10.67
SO BUILDWID 006        66.49   70.00   71.39   70.60   67.67   62.68
SO BUILDWID 006        55.79   49.65   22.56   90.05   65.05   65.70
SO BUILDWID 006        64.35   61.04   55.88   49.02   99.20  103.63
SO BUILDWID 006        66.49   70.00   71.39   70.60   67.67   62.68
SO BUILDWID 006        55.79   49.65   22.56   23.30   27.61   31.12
SO BUILDWID 006        35.35   38.51   85.91   91.75   99.20  103.63

SO BUILDHGT 007        10.67   11.28   11.28   10.67   10.67   10.67
SO BUILDHGT 007        10.67   10.67   10.67   10.67   10.67   10.67
SO BUILDHGT 007        11.28   11.28   11.28   11.28   11.28   11.28
SO BUILDHGT 007        11.28   11.28   11.28   10.67   10.67   10.67
SO BUILDHGT 007        10.67   10.67   10.67   10.67   10.67   13.11
SO BUILDHGT 007        13.11   13.11   13.11   13.11   13.11   10.67
SO BUILDWID 007        66.49   92.41  101.05   70.60   67.67   62.68
SO BUILDWID 007        55.79   49.65   44.50   51.55   57.04   62.68
SO BUILDWID 007        85.83   79.07   69.90   49.02   40.67   31.09
SO BUILDWID 007        40.67   49.02   55.88   70.60   67.67   62.68
SO BUILDWID 007        55.79   49.65   44.50   51.55   57.04   75.64
SO BUILDWID 007        81.58   85.03   85.91   84.17   79.87   60.96

SO EMISUNIT    .100000E+07 (GRAMS/SEC)          (MICROGRAMS/CUBIC-METER)
SO SRCGROUP ALL
SO FINISHED

RE STARTING
RE GRIDPOLR POL STA
RE GRIDPOLR POL ORIG     0.0    0.0
RE GRIDPOLR POL DIST   1500 2000 2500 3000 4000 5000
RE GRIDPOLR POL GDIR  36.  10   10.00
RE GRIDPOLR POL END

**  FENCELINE RECEPTORS AT 100-M INTERVALS
RE DISCCART    -1331.7    -399.9
RE DISCCART    -1231.7    -401.4
RE DISCCART    -1131.7    -402.9
RE DISCCART    -1031.7    -404.4
RE DISCCART     -931.7    -405.9
RE DISCCART     -831.7    -407.0
RE DISCCART     -731.7    -405.1
RE DISCCART     -631.8    -403.3
RE DISCCART     -536.7    -415.1
RE DISCCART     -438.3    -406.1
RE DISCCART     -338.3    -404.6
RE DISCCART     -242.8    -416.7
RE DISCCART     -142.8    -418.5
RE DISCCART      -42.8    -420.3
RE DISCCART       47.8    -400.0
RE DISCCART      116.0    -326.9
RE DISCCART      184.2    -253.8
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RE DISCCART      252.4    -180.6
RE DISCCART      320.6    -107.5
RE DISCCART      388.8     -34.4
RE DISCCART      457.0      38.8
RE DISCCART      488.1     106.0
RE DISCCART      428.3     180.0
RE DISCCART      386.6     270.9
RE DISCCART      327.4     334.2
RE DISCCART      227.4     333.8
RE DISCCART      127.4     333.3
RE DISCCART       27.4     332.9
RE DISCCART      -72.6     332.5
RE DISCCART     -172.6     332.0
RE DISCCART     -272.6     331.6
RE DISCCART     -372.6     331.1
RE DISCCART     -472.6     330.7
RE DISCCART     -572.6     330.2
RE DISCCART     -672.6     329.8
RE DISCCART     -772.6     329.4
RE DISCCART     -872.6     328.9
RE DISCCART     -972.6     328.5
RE DISCCART    -1072.6     328.0
RE DISCCART    -1172.6     327.6
RE DISCCART    -1272.6     327.1
RE DISCCART    -1318.1     266.8
RE DISCCART    -1347.6     171.2
RE DISCCART    -1377.0      75.7
RE DISCCART    -1406.5     -19.9
RE DISCCART    -1425.5    -117.1
RE DISCCART    -1427.2    -217.1
RE DISCCART    -1425.5    -317.1
RE DISCCART    -1366.3    -389.7

** PROPERTY BOUNDARY RECEPTORS WITH ADDITION OFF-SITE RECEPTORS AT
** 1500,2000,2500,3000,4000, AND 5000 M CENTERED ON ORGN
RE DISCPOLR ORGN      400.        10
RE DISCPOLR ORGN      600.        10
RE DISCPOLR ORGN      800.        10
RE DISCPOLR ORGN     1000.        10
RE DISCPOLR ORGN     1200.        10
RE DISCPOLR ORGN     1400.        10
RE DISCPOLR ORGN      400.        20
RE DISCPOLR ORGN      600.        20
RE DISCPOLR ORGN      800.        20
RE DISCPOLR ORGN     1000.        20
RE DISCPOLR ORGN     1200.        20
RE DISCPOLR ORGN     1400.        20
RE DISCPOLR ORGN      400.        30
RE DISCPOLR ORGN      600.        30
RE DISCPOLR ORGN      800.        30
RE DISCPOLR ORGN     1000.        30
RE DISCPOLR ORGN     1200.        30
RE DISCPOLR ORGN     1400.        30
RE DISCPOLR ORGN      600.        40
RE DISCPOLR ORGN      800.        40
RE DISCPOLR ORGN     1000.        40
RE DISCPOLR ORGN     1200.        40
RE DISCPOLR ORGN     1400.        40
RE DISCPOLR ORGN      600.        50
RE DISCPOLR ORGN      800.        50
RE DISCPOLR ORGN     1000.        50
RE DISCPOLR ORGN     1200.        50
RE DISCPOLR ORGN     1400.        50
RE DISCPOLR ORGN      600.        60
RE DISCPOLR ORGN      800.        60
RE DISCPOLR ORGN     1000.        60
RE DISCPOLR ORGN     1200.        60
RE DISCPOLR ORGN     1400.        60
RE DISCPOLR ORGN      600.        70
RE DISCPOLR ORGN      800.        70
RE DISCPOLR ORGN     1000.        70
RE DISCPOLR ORGN     1200.        70
RE DISCPOLR ORGN     1400.        70
RE DISCPOLR ORGN      600.        80
RE DISCPOLR ORGN      800.        80
RE DISCPOLR ORGN     1000.        80
RE DISCPOLR ORGN     1200.        80
RE DISCPOLR ORGN     1400.        80
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RE	DISCPOLR	ORGN	600. 90
RE	DISCPOLR	ORGN	800. 90
RE	DISCPOLR	ORGN	1000. 90
RE	DISCPOLR	ORGN	1200. 90
RE	DISCPOLR	ORGN	1400. 90
RE	DISCPOLR	ORGN	400. 100
RE	DISCPOLR	ORGN	600. 100
RE	DISCPOLR	ORGN	800. 100
RE	DISCPOLR	ORGN	1000. 100
RE	DISCPOLR	ORGN	1200. 100
RE	DISCPOLR	ORGN	1400. 100
RE	DISCPOLR	ORGN	400. 110
RE	DISCPOLR	ORGN	600. 110
RE	DISCPOLR	ORGN	800. 110
RE	DISCPOLR	ORGN	1000. 110
RE	DISCPOLR	ORGN	1200. 110
RE	DISCPOLR	ORGN	1400. 110
RE	DISCPOLR	ORGN	400. 120
RE	DISCPOLR	ORGN	600. 120
RE	DISCPOLR	ORGN	800. 120
RE	DISCPOLR	ORGN	1000. 120
RE	DISCPOLR	ORGN	1200. 120
RE	DISCPOLR	ORGN	1400. 120
RE	DISCPOLR	ORGN	400. 130
RE	DISCPOLR	ORGN	600. 130
RE	DISCPOLR	ORGN	800. 130
RE	DISCPOLR	ORGN	1000. 130
RE	DISCPOLR	ORGN	1200. 130
RE	DISCPOLR	ORGN	1400. 130
RE	DISCPOLR	ORGN	400. 140
RE	DISCPOLR	ORGN	600. 140
RE	DISCPOLR	ORGN	800. 140
RE	DISCPOLR	ORGN	1000. 140
RE	DISCPOLR	ORGN	1200. 140
RE	DISCPOLR	ORGN	1400. 140
RE	DISCPOLR	ORGN	400. 150
RE	DISCPOLR	ORGN	600. 150
RE	DISCPOLR	ORGN	800. 150
RE	DISCPOLR	ORGN	1000. 150
RE	DISCPOLR	ORGN	1200. 150
RE	DISCPOLR	ORGN	1400. 150
RE	DISCPOLR	ORGN	400. 160
RE	DISCPOLR	ORGN	600. 160
RE	DISCPOLR	ORGN	800. 160
RE	DISCPOLR	ORGN	1000. 160
RE	DISCPOLR	ORGN	1200. 160
RE	DISCPOLR	ORGN	1400. 160
RE	DISCPOLR	ORGN	400. 170
RE	DISCPOLR	ORGN	600. 170
RE	DISCPOLR	ORGN	800. 170
RE	DISCPOLR	ORGN	1000. 170
RE	DISCPOLR	ORGN	1200. 170
RE	DISCPOLR	ORGN	1400. 170
RE	DISCPOLR	ORGN	600. 180
RE	DISCPOLR	ORGN	800. 180
RE	DISCPOLR	ORGN	1000. 180
RE	DISCPOLR	ORGN	1200. 180
RE	DISCPOLR	ORGN	1400. 180
RE	DISCPOLR	ORGN	600. 190
RE	DISCPOLR	ORGN	800. 190
RE	DISCPOLR	ORGN	1000. 190
RE	DISCPOLR	ORGN	1200. 190
RE	DISCPOLR	ORGN	1400. 190
RE	DISCPOLR	ORGN	600. 200
RE	DISCPOLR	ORGN	800. 200
RE	DISCPOLR	ORGN	1000. 200
RE	DISCPOLR	ORGN	1200. 200
RE	DISCPOLR	ORGN	1400. 200
RE	DISCPOLR	ORGN	600. 210
RE	DISCPOLR	ORGN	800. 210
RE	DISCPOLR	ORGN	1000. 210
RE	DISCPOLR	ORGN	1200. 210
RE	DISCPOLR	ORGN	1400. 210
RE	DISCPOLR	ORGN	600. 220
RE	DISCPOLR	ORGN	800. 220
RE	DISCPOLR	ORGN	1000. 220
RE	DISCPOLR	ORGN	1200. 220
RE	DISCPOLR	ORGN	1400. 220

```
RE DISCPOLR ORGN      800.       230
RE DISCPOLR ORGN     1000.       230
RE DISCPOLR ORGN     1200.       230
RE DISCPOLR ORGN     1400.       230
RE DISCPOLR ORGN     1000.       240
RE DISCPOLR ORGN     1200.       240
RE DISCPOLR ORGN     1400.       240
RE DISCPOLR ORGN     1200.       250
RE DISCPOLR ORGN     1400.       250
RE DISCPOLR ORGN     1400.       280
RE DISCPOLR ORGN     1000.       290
RE DISCPOLR ORGN     1200.       290
RE DISCPOLR ORGN     1400.       290
RE DISCPOLR ORGN      800.       300
RE DISCPOLR ORGN     1000.       300
RE DISCPOLR ORGN     1200.       300
RE DISCPOLR ORGN     1400.       300
RE DISCPOLR ORGN      600.       310
RE DISCPOLR ORGN      800.       310
RE DISCPOLR ORGN     1000.       310
RE DISCPOLR ORGN     1200.       310
RE DISCPOLR ORGN     1400.       310
RE DISCPOLR ORGN      600.       320
RE DISCPOLR ORGN      800.       320
RE DISCPOLR ORGN     1000.       320
RE DISCPOLR ORGN     1200.       320
RE DISCPOLR ORGN     1400.       320
RE DISCPOLR ORGN      400.       330
RE DISCPOLR ORGN      600.       330
RE DISCPOLR ORGN      800.       330
RE DISCPOLR ORGN     1000.       330
RE DISCPOLR ORGN     1200.       330
RE DISCPOLR ORGN     1400.       330
RE DISCPOLR ORGN      400.       340
RE DISCPOLR ORGN      600.       340
RE DISCPOLR ORGN      800.       340
RE DISCPOLR ORGN     1000.       340
RE DISCPOLR ORGN     1200.       340
RE DISCPOLR ORGN     1400.       340
RE DISCPOLR ORGN      400.       350
RE DISCPOLR ORGN      600.       350
RE DISCPOLR ORGN      800.       350
RE DISCPOLR ORGN     1000.       350
RE DISCPOLR ORGN     1200.       350
RE DISCPOLR ORGN     1400.       350
RE DISCPOLR ORGN      400.       360
RE DISCPOLR ORGN      600.       360
RE DISCPOLR ORGN      800.       360
RE DISCPOLR ORGN     1000.       360
RE DISCPOLR ORGN     1200.       360
RE DISCPOLR ORGN     1400.       360

RE FINISHED

ME STARTING
ME INPUTFIL P:\MET\PBIPB187.MET
ME ANEMHGHT    33  FEET
ME SURFDATA  12844     1987     WEST-PALM-BCH
ME UAIRDATA  12844     1987     WEST-PALM-BCH
ME FINISHED

OU STARTING
OU RECTABLE ALLAVE FIRST SECOND
OU FINISHED
```

TROPICANA PRODUCTS, INC.

FORT PIERCE PLANT

SO_2 PLANT EMISSIONS WITH NATURAL GAS

ISCST3 OUTPUT FILE NUMBER 1 :NGSO2.087
ISCST3 OUTPUT FILE NUMBER 2 :NGSO2.088
ISCST3 OUTPUT FILE NUMBER 3 :NGSO2.089
ISCST3 OUTPUT FILE NUMBER 4 :NGSO2.090
ISCST3 OUTPUT FILE NUMBER 5 :NGSO2.091
First title for last output file is: 1987 Tropicana Fort Pierce Plant 9/7/00
Second title for last output file is: Palm Beach/Palm Beach Met Data, 1987-91, SO2, Natural Gas

AVERAGING TIME	YEAR	CONC (ug/m3)	DIR (deg) or X (m)	DIST (m) or Y (m)	PERIOD ENDING (YYMMDDHH)
SOURCE GROUP ID: ALL					
Annual					
	1987	0.1	-473.	331.	87123124
	1988	0.1	-473.	331.	88123124
	1989	0.1	-473.	331.	89123124
	1990	0.1	-473.	331.	90123124
	1991	0.1	-473.	331.	91123124
HIGH 24-Hour					
	1987	0.6	-473.	331.	87051824
	1988	0.5	340.	600.	88012024
	1989	0.5	-632.	-403.	89111224
	1990	0.5	-732.	-405.	90042024
	1991	0.5	350.	400.	91030224
HSH 24-Hour					
	1987	0.4	310.	600.	87051824
	1988	0.4	340.	600.	88112724
	1989	0.4	310.	600.	89072124
	1990	0.4	-573.	330.	90012024
	1991	0.5	-537.	-415.	91102924
HIGH 3-Hour					
	1987	1.4	116.	-327.	87102612
	1988	1.4	20.	400.	88060815
	1989	1.2	327.	334.	89070312
	1990	1.2	327.	334.	90091612
	1991	1.4	100.	400.	91071215
HSH 3-Hour					
	1987	1.0	327.	334.	87062612
	1988	1.3	387.	271.	88041112
	1989	1.2	50.	600.	89101912
	1990	1.1	220.	600.	90061318
	1991	1.2	-373.	331.	91070615

All receptor computations reported with respect to a user-specified origin

GRID	0.00	0.00
DISCRETE	0.00	0.00

```
CO STARTINGTropFinal\NGSO2.I88
CO TITLEONE 1988 Tropicana Fort Pierce Plant 9/7/00
CO TITLETWO Palm Beach/Palm Beach Met Data, 1987-91, SO2, Natural Gas
CO MODELOPT CONC   RURAL DFAULT NOCMPL
CO AVERTIME PERIOD 24 3
CO POLLUTID SO2
CO DCAYCOEF    .000000
CO RUNORNOT RUN
CO FINISHED

SO STARTING
** TROPICANA ORIGIN IS NW CORNER OF FEED MILL
SO LOCATION ORGN    POINT        0.0       0.0      .0
SO SRCPARAM ORGN    0.0      0.0     0.0     0.0     0.0
** SOURCE ID                    DESCRIPTION
** ------------------------------------------------------------
** 001                          Dryer No. 1
** 004                          Dryer No. 2
** 002                          Boiler No. 1
** 003                          Boiler No. 2
** 006                          Package Boiler
** 007                          Pellet Coolers


** STACK LOCATIONS
SO LOCATION  001  POINT  22.6   -21.3       0.
SO LOCATION  004  POINT  31.1   -21.3       0.
SO LOCATION  002  POINT  64.0    15.8       0.
SO LOCATION  003  POINT  65.8    11.6       0.
SO LOCATION  006  POINT  67.7    17.1       0.
SO LOCATION  007  POINT  15.2     0.0       0.


SO SRCPARAM 001  0.03  28.96   333.2   19.29   0.97
SO SRCPARAM 004  0.03  28.96   333.2   19.29   0.97
SO SRCPARAM 002  0.02  18.29   584.3   41.24   0.61
SO SRCPARAM 003  0.02  18.29   584.3   41.24   0.61
SO SRCPARAM 006  0.01  18.29   505.4   12.77   0.61
SO SRCPARAM 007  0.00   6.10   305.4    0.01   1.22


SO BUILDHGT 001        10.67   10.67   10.67   10.67   10.67   10.67
SO BUILDHGT 001        10.67   10.67   10.67   10.67   13.11   13.11
SO BUILDHGT 001        10.67   10.67   10.67   10.67   10.67   10.67
SO BUILDHGT 001        10.67   10.67   10.67   10.67   10.67   10.67
SO BUILDHGT 001        10.67   10.67   10.67   10.67   13.11   13.11
SO BUILDHGT 001        13.11   13.11   13.11   13.11   13.11   10.67
SO BUILDWID 001        66.49   70.00   71.39   70.60   67.67   62.68
SO BUILDWID 001        55.79   49.65   44.50   51.55   67.41   75.64
SO BUILDWID 001        67.67   70.60   71.39   70.00   66.49   60.96
SO BUILDWID 001        66.49   70.00   71.39   70.60   67.67   62.68
SO BUILDWID 001        55.79   49.65   44.50   51.55   67.41   75.64
SO BUILDWID 001        81.58   85.03   85.91   84.17   79.87   60.96


SO BUILDHGT 004        13.11   10.67   10.67   10.67   10.67   10.67
SO BUILDHGT 004        10.67   10.67   10.67   10.67   13.11   13.11
SO BUILDHGT 004        13.11   13.11   10.67   10.67   10.67   10.67
SO BUILDHGT 004        13.11   10.67   10.67   10.67   10.67   10.67
SO BUILDHGT 004        10.67   10.67   10.67   10.67   13.11   13.11
SO BUILDHGT 004        13.11   13.11   13.11   13.11   13.11   13.11
SO BUILDWID 004        73.31   70.00   71.39   70.60   67.67   62.68
SO BUILDWID 004        55.79   49.65   44.50   51.55   67.41   75.64
SO BUILDWID 004        81.58   85.03   71.39   70.00   66.49   60.96
SO BUILDWID 004        73.31   70.00   71.39   70.60   67.67   62.68
SO BUILDWID 004        55.79   49.65   44.50   51.55   67.41   75.64
SO BUILDWID 004        81.58   85.03   85.91   84.17   79.87   73.15


SO BUILDHGT 002        10.67   10.67   10.67   10.67   10.67   10.67
SO BUILDHGT 002        10.67   10.67    8.84    8.84   11.28   11.28
SO BUILDHGT 002        11.28   11.28   11.28   11.28   10.67   10.67
SO BUILDHGT 002        10.67   10.67   10.67   10.67   10.67   10.67
SO BUILDHGT 002        10.67   10.67    8.84    8.84    8.84    8.84
SO BUILDHGT 002         8.84    8.84   10.67   10.67   10.67   10.67
SO BUILDWID 002        66.49   70.00   71.39   70.60   67.67   62.68
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SO BUILDWID 002        55.79   49.65   22.56   23.30   65.05   65.70
SO BUILDWID 002        64.35   61.04   55.88   49.02   99.20   60.96
SO BUILDWID 002        66.49   70.00   71.39   70.60   67.67   62.68
SO BUILDWID 002        55.79   49.65   22.56   23.30   27.61   31.12
SO BUILDWID 002        35.35   38.51   85.91   91.75   99.20   60.96

SO BUILDHGT 003        13.11   13.11   13.11   10.67   10.67   10.67
SO BUILDHGT 003        10.67   10.67    8.84    8.84   11.28   11.28
SO BUILDHGT 003        11.28   11.28   11.28   11.28   10.67   10.67
SO BUILDHGT 003        10.67   10.67   10.67   10.67   10.67   10.67
SO BUILDHGT 003        10.67   10.67    8.84    8.84    8.84    8.84
SO BUILDHGT 003         8.84    8.84   13.11   13.11   13.11   13.11
SO BUILDWID 003        73.31   71.24   67.01   70.60   67.67   62.68
SO BUILDWID 003        55.79   49.65   22.56   23.30   65.05   65.70
SO BUILDWID 003        64.35   61.04   55.88   49.02   99.20   60.96
SO BUILDWID 003        66.49   70.00   71.39   70.60   67.67   62.68
SO BUILDWID 003        55.79   49.65   22.56   23.30   27.61   31.12
SO BUILDWID 003        35.35   38.51   85.91   84.17   79.87   73.15

SO BUILDHGT 006        10.67   10.67   10.67   10.67   10.67   10.67
SO BUILDHGT 006        10.67   10.67    8.84   11.28   11.28   11.28
SO BUILDHGT 006        11.28   11.28   11.28   11.28   10.67   10.67
SO BUILDHGT 006        10.67   10.67   10.67   10.67   10.67   10.67
SO BUILDHGT 006        10.67   10.67    8.84    8.84    8.84    8.84
SO BUILDHGT 006         8.84    8.84   10.67   10.67   10.67   10.67
SO BUILDWID 006        66.49   70.00   71.39   70.60   67.67   62.68
SO BUILDWID 006        55.79   49.65   22.56   90.05   65.05   65.70
SO BUILDWID 006        64.35   61.04   55.88   49.02   99.20  103.63
SO BUILDWID 006        66.49   70.00   71.39   70.60   67.67   62.68
SO BUILDWID 006        55.79   49.65   22.56   23.30   27.61   31.12
SO BUILDWID 006        35.35   38.51   85.91   91.75   99.20  103.63

SO BUILDHGT 007        10.67   11.28   11.28   10.67   10.67   10.67
SO BUILDHGT 007        10.67   10.67   10.67   10.67   10.67   10.67
SO BUILDHGT 007        11.28   11.28   11.28   11.28   11.28   11.28
SO BUILDHGT 007        11.28   11.28   11.28   10.67   10.67   10.67
SO BUILDHGT 007        10.67   10.67   10.67   10.67   10.67   13.11
SO BUILDHGT 007        13.11   13.11   13.11   13.11   13.11   10.67
SO BUILDWID 007        66.49   92.41  101.05   70.60   67.67   62.68
SO BUILDWID 007        55.79   49.65   44.50   51.55   57.04   62.68
SO BUILDWID 007        85.83   79.07   69.90   49.02   40.67   31.09
SO BUILDWID 007        40.67   49.02   55.88   70.60   67.67   62.68
SO BUILDWID 007        55.79   49.65   44.50   51.55   57.04   75.64
SO BUILDWID 007        81.58   85.03   85.91   84.17   79.87   60.96

SO EMISUNIT    .100000E+07 (GRAMS/SEC)          (MICROGRAMS/CUBIC-METER)
SO SRCGROUP ALL
SO FINISHED

RE STARTING
RE GRIDPOLR POL STA
RE GRIDPOLR POL ORIG     0.0     0.0
RE GRIDPOLR POL DIST    1500 2000 2500 3000 4000 5000
RE GRIDPOLR POL GDIR  36.   10    10.00
RE GRIDPOLR POL END

**  FENCELINE RECEPTORS AT 100-M INTERVALS
RE DISCCART    -1331.7    -399.9
RE DISCCART    -1231.7    -401.4
RE DISCCART    -1131.7    -402.9
RE DISCCART    -1031.7    -404.4
RE DISCCART     -931.7    -405.9
RE DISCCART     -831.7    -407.0
RE DISCCART     -731.7    -405.1
RE DISCCART     -631.8    -403.3
RE DISCCART     -536.7    -415.1
RE DISCCART     -438.3    -406.1
RE DISCCART     -338.3    -404.6
RE DISCCART     -242.8    -416.7
RE DISCCART     -142.8    -418.5
RE DISCCART      -42.8    -420.3
RE DISCCART       47.8    -400.0
RE DISCCART      116.0    -326.9
RE DISCCART      184.2    -253.8
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RE DISCCART      252.4    -180.6
RE DISCCART      320.6    -107.5
RE DISCCART      388.8     -34.4
RE DISCCART      457.0      38.8
RE DISCCART      488.1     106.0
RE DISCCART      428.3     180.0
RE DISCCART      386.6     270.9
RE DISCCART      327.4     334.2
RE DISCCART      227.4     333.8
RE DISCCART      127.4     333.3
RE DISCCART       27.4     332.9
RE DISCCART      -72.6     332.5
RE DISCCART     -172.6     332.0
RE DISCCART     -272.6     331.6
RE DISCCART     -372.6     331.1
RE DISCCART     -472.6     330.7
RE DISCCART     -572.6     330.2
RE DISCCART     -672.6     329.8
RE DISCCART     -772.6     329.4
RE DISCCART     -872.6     328.9
RE DISCCART     -972.6     328.5
RE DISCCART    -1072.6     328.0
RE DISCCART    -1172.6     327.6
RE DISCCART    -1272.6     327.1
RE DISCCART    -1318.1     266.8
RE DISCCART    -1347.6     171.2
RE DISCCART    -1377.0      75.7
RE DISCCART    -1406.5     -19.9
RE DISCCART    -1425.5    -117.1
RE DISCCART    -1427.2    -217.1
RE DISCCART    -1425.5    -317.1
RE DISCCART    -1366.3    -389.7

** PROPERTY BOUNDARY RECEPTORS WITH ADDITION OFF-SITE RECEPTORS AT
** 1500,2000,2500,3000,4000, AND 5000 M CENTERED ON ORGN
RE DISCPOLR ORGN      400.        10
RE DISCPOLR ORGN      600.        10
RE DISCPOLR ORGN      800.        10
RE DISCPOLR ORGN     1000.        10
RE DISCPOLR ORGN     1200.        10
RE DISCPOLR ORGN     1400.        10
RE DISCPOLR ORGN      400.        20
RE DISCPOLR ORGN      600.        20
RE DISCPOLR ORGN      800.        20
RE DISCPOLR ORGN     1000.        20
RE DISCPOLR ORGN     1200.        20
RE DISCPOLR ORGN     1400.        20
RE DISCPOLR ORGN      400.        30
RE DISCPOLR ORGN      600.        30
RE DISCPOLR ORGN      800.        30
RE DISCPOLR ORGN     1000.        30
RE DISCPOLR ORGN     1200.        30
RE DISCPOLR ORGN     1400.        30
RE DISCPOLR ORGN      600.        40
RE DISCPOLR ORGN      800.        40
RE DISCPOLR ORGN     1000.        40
RE DISCPOLR ORGN     1200.        40
RE DISCPOLR ORGN     1400.        40
RE DISCPOLR ORGN      600.        50
RE DISCPOLR ORGN      800.        50
RE DISCPOLR ORGN     1000.        50
RE DISCPOLR ORGN     1200.        50
RE DISCPOLR ORGN     1400.        50
RE DISCPOLR ORGN      600.        60
RE DISCPOLR ORGN      800.        60
RE DISCPOLR ORGN     1000.        60
RE DISCPOLR ORGN     1200.        60
RE DISCPOLR ORGN     1400.        60
RE DISCPOLR ORGN      600.        70
RE DISCPOLR ORGN      800.        70
RE DISCPOLR ORGN     1000.        70
RE DISCPOLR ORGN     1200.        70
RE DISCPOLR ORGN     1400.        70
RE DISCPOLR ORGN      600.        80
RE DISCPOLR ORGN      800.        80
RE DISCPOLR ORGN     1000.        80
RE DISCPOLR ORGN     1200.        80
RE DISCPOLR ORGN     1400.        80
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RE	DISCPOLR	ORGN	600. 90
RE	DISCPOLR	ORGN	800. 90
RE	DISCPOLR	ORGN	1000. 90
RE	DISCPOLR	ORGN	1200. 90
RE	DISCPOLR	ORGN	1400. 90
RE	DISCPOLR	ORGN	400. 100
RE	DISCPOLR	ORGN	600. 100
RE	DISCPOLR	ORGN	800. 100
RE	DISCPOLR	ORGN	1000. 100
RE	DISCPOLR	ORGN	1200. 100
RE	DISCPOLR	ORGN	1400. 100
RE	DISCPOLR	ORGN	400. 110
RE	DISCPOLR	ORGN	600. 110
RE	DISCPOLR	ORGN	800. 110
RE	DISCPOLR	ORGN	1000. 110
RE	DISCPOLR	ORGN	1200. 110
RE	DISCPOLR	ORGN	1400. 110
RE	DISCPOLR	ORGN	400. 120
RE	DISCPOLR	ORGN	600. 120
RE	DISCPOLR	ORGN	800. 120
RE	DISCPOLR	ORGN	1000. 120
RE	DISCPOLR	ORGN	1200. 120
RE	DISCPOLR	ORGN	1400. 120
RE	DISCPOLR	ORGN	400. 130
RE	DISCPOLR	ORGN	600. 130
RE	DISCPOLR	ORGN	800. 130
RE	DISCPOLR	ORGN	1000. 130
RE	DISCPOLR	ORGN	1200. 130
RE	DISCPOLR	ORGN	1400. 130
RE	DISCPOLR	ORGN	400. 140
RE	DISCPOLR	ORGN	600. 140
RE	DISCPOLR	ORGN	800. 140
RE	DISCPOLR	ORGN	1000. 140
RE	DISCPOLR	ORGN	1200. 140
RE	DISCPOLR	ORGN	1400. 140
RE	DISCPOLR	ORGN	400. 150
RE	DISCPOLR	ORGN	600. 150
RE	DISCPOLR	ORGN	800. 150
RE	DISCPOLR	ORGN	1000. 150
RE	DISCPOLR	ORGN	1200. 150
RE	DISCPOLR	ORGN	1400. 150
RE	DISCPOLR	ORGN	400. 160
RE	DISCPOLR	ORGN	600. 160
RE	DISCPOLR	ORGN	800. 160
RE	DISCPOLR	ORGN	1000. 160
RE	DISCPOLR	ORGN	1200. 160
RE	DISCPOLR	ORGN	1400. 160
RE	DISCPOLR	ORGN	400. 170
RE	DISCPOLR	ORGN	600. 170
RE	DISCPOLR	ORGN	800. 170
RE	DISCPOLR	ORGN	1000. 170
RE	DISCPOLR	ORGN	1200. 170
RE	DISCPOLR	ORGN	1400. 170
RE	DISCPOLR	ORGN	600. 180
RE	DISCPOLR	ORGN	800. 180
RE	DISCPOLR	ORGN	1000. 180
RE	DISCPOLR	ORGN	1200. 180
RE	DISCPOLR	ORGN	1400. 180
RE	DISCPOLR	ORGN	600. 190
RE	DISCPOLR	ORGN	800. 190
RE	DISCPOLR	ORGN	1000. 190
RE	DISCPOLR	ORGN	1200. 190
RE	DISCPOLR	ORGN	1400. 190
RE	DISCPOLR	ORGN	600. 200
RE	DISCPOLR	ORGN	800. 200
RE	DISCPOLR	ORGN	1000. 200
RE	DISCPOLR	ORGN	1200. 200
RE	DISCPOLR	ORGN	1400. 200
RE	DISCPOLR	ORGN	600. 210
RE	DISCPOLR	ORGN	800. 210
RE	DISCPOLR	ORGN	1000. 210
RE	DISCPOLR	ORGN	1200. 210
RE	DISCPOLR	ORGN	1400. 210
RE	DISCPOLR	ORGN	600. 220
RE	DISCPOLR	ORGN	800. 220
RE	DISCPOLR	ORGN	1000. 220
RE	DISCPOLR	ORGN	1200. 220
RE	DISCPOLR	ORGN	1400. 220

```
RE DISCPOLR ORGN      800.       230
RE DISCPOLR ORGN     1000.       230
RE DISCPOLR ORGN     1200.       230
RE DISCPOLR ORGN     1400.       230
RE DISCPOLR ORGN     1000.       240
RE DISCPOLR ORGN     1200.       240
RE DISCPOLR ORGN     1400.       240
RE DISCPOLR ORGN     1200.       250
RE DISCPOLR ORGN     1400.       250
RE DISCPOLR ORGN     1400.       280
RE DISCPOLR ORGN     1000.       290
RE DISCPOLR ORGN     1200.       290
RE DISCPOLR ORGN     1400.       290
RE DISCPOLR ORGN      800.       300
RE DISCPOLR ORGN     1000.       300
RE DISCPOLR ORGN     1200.       300
RE DISCPOLR ORGN     1400.       300
RE DISCPOLR ORGN      600.       310
RE DISCPOLR ORGN      800.       310
RE DISCPOLR ORGN     1000.       310
RE DISCPOLR ORGN     1200.       310
RE DISCPOLR ORGN     1400.       310
RE DISCPOLR ORGN      600.       320
RE DISCPOLR ORGN      800.       320
RE DISCPOLR ORGN     1000.       320
RE DISCPOLR ORGN     1200.       320
RE DISCPOLR ORGN     1400.       320
RE DISCPOLR ORGN      400.       330
RE DISCPOLR ORGN      600.       330
RE DISCPOLR ORGN      800.       330
RE DISCPOLR ORGN     1000.       330
RE DISCPOLR ORGN     1200.       330
RE DISCPOLR ORGN     1400.       330
RE DISCPOLR ORGN      400.       340
RE DISCPOLR ORGN      600.       340
RE DISCPOLR ORGN      800.       340
RE DISCPOLR ORGN     1000.       340
RE DISCPOLR ORGN     1200.       340
RE DISCPOLR ORGN     1400.       340
RE DISCPOLR ORGN      400.       350
RE DISCPOLR ORGN      600.       350
RE DISCPOLR ORGN      800.       350
RE DISCPOLR ORGN     1000.       350
RE DISCPOLR ORGN     1200.       350
RE DISCPOLR ORGN     1400.       350
RE DISCPOLR ORGN      400.       360
RE DISCPOLR ORGN      600.       360
RE DISCPOLR ORGN      800.       360
RE DISCPOLR ORGN     1000.       360
RE DISCPOLR ORGN     1200.       360
RE DISCPOLR ORGN     1400.       360

RE FINISHED

ME STARTING
ME INPUTFIL P:\MET\PBIPBI88.MET
ME ANEMHGHT    33  FEET
ME SURFDATA  12844     1988     WEST-PALM-BCH
ME UAIRDATA  12844     1988     WEST-PALM-BCH
ME FINISHED

OU STARTING
OU RECTABLE ALLAVE FIRST SECOND
OU FINISHED
```

TROPICANA PRODUCTS, INC.

FORT PIERCE PLANT

PM_{10} PLANT EMISSIONS WITH NATURAL GAS

ISCST3 OUTPUT FILE NUMBER 1 :NGPM.087
ISCST3 OUTPUT FILE NUMBER 2 :NGPM.088
ISCST3 OUTPUT FILE NUMBER 3 :NGPM.089
ISCST3 OUTPUT FILE NUMBER 4 :NGPM.090
ISCST3 OUTPUT FILE NUMBER 5 :NGPM.091
First title for last output file is: 1987 Tropicana Fort Pierce Plant 9/7/00
Second title for last output file is: Palm Beach/Palm Beach Met Data, 1987-91, PM.10, Natural Gas

AVERAGING TIME	YEAR	CONC (ug/m3)	DIR (deg) or X (m)	DIST (m) or Y (m)	PERIOD ENDING (YYMMDDHH)
SOURCE GROUP ID:	ALL				
Annual					
	1987	11.4	184.	-254.	87123124
	1988	13.6	184.	-254.	88123124
	1989	12.3	184.	-254.	89123124
	1990	10.3	184.	-254.	90123124
	1991	12.1	184.	-254.	91123124
HIGH 24-Hour					
	1987	92.6	120.	400.	87091424
	1988	121.8	252.	-181.	88110724
	1989	100.7	140.	400.	89020824
	1990	122.1	184.	-254.	90030624
	1991	136.9	184.	-254.	91122224
HSH 24-Hour					
	1987	86.4	184.	-254.	87112824
	1988	94.5	184.	-254.	88070324
	1989	76.0	-73.	333.	89123124
	1990	94.6	184.	-254.	90110524
	1991	100.9	252.	-181.	91122924

All receptor computations reported with respect to a user-specified origin

GRID	0.00	0.00
DISCRETE	0.00	0.00

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CO STARTINGTropFinal\NGPM.I90
CO TITLEONE 1990 Tropicana Fort Pierce Plant 9/7/00
CO TITLETWO Palm Beach/Palm Beach Met Data, 1987-91, PM.10, Natural Gas
CO MODELOPT CONC   RURAL DFAULT NOCMPL
CO AVERTIME PERIOD 24
CO POLLUTID PM.10
CO DCAYCOEF    .000000
CO RUNORNOT RUN
CO FINISHED

SO STARTING
** TROPICANA ORIGIN IS NW CORNER OF FEED MILL
SO LOCATION ORGN    POINT        0.0       0.0      .0
SO SRCPARAM ORGN    0.0      0.0     0.0     0.0     0.0
** SOURCE ID                    DESCRIPTION
** ------------------------------------------------------------
** 001                          Dryer No. 1
** 004                          Dryer No. 2
** 002                          Boiler No. 1
** 003                          Boiler No. 2
** 006                          Package Boiler
** 007                          Pellet Coolers


** STACK LOCATIONS
SO LOCATION  001  POINT  22.6   -21.3       0.
SO LOCATION  004  POINT  31.1   -21.3       0.
SO LOCATION  002  POINT  64.0    15.8       0.
SO LOCATION  003  POINT  65.8    11.6       0.
SO LOCATION  006  POINT  67.7    17.1       0.
SO LOCATION  007  POINT  15.2     0.0       0.


SO SRCPARAM 001  4.08  28.96  333.2  19.29  0.97
SO SRCPARAM 004  4.08  28.96  333.2  19.29  0.97
SO SRCPARAM 002  0.01  18.29  584.3  41.24  0.61
SO SRCPARAM 003  0.01  18.29  584.3  41.24  0.61
SO SRCPARAM 006  0.00  18.29  505.4  12.77  0.61
SO SRCPARAM 007  1.26   6.10  305.4   0.01  1.22


SO BUILDHGT 001        10.67  10.67  10.67  10.67  10.67  10.67
SO BUILDHGT 001        10.67  10.67  10.67  10.67  13.11  13.11
SO BUILDHGT 001        10.67  10.67  10.67  10.67  10.67  10.67
SO BUILDHGT 001        10.67  10.67  10.67  10.67  10.67  10.67
SO BUILDHGT 001        10.67  10.67  10.67  10.67  13.11  13.11
SO BUILDHGT 001        13.11  13.11  13.11  13.11  13.11  10.67
SO BUILDWID 001        66.49  70.00  71.39  70.60  67.67  62.68
SO BUILDWID 001        55.79  49.65  44.50  51.55  67.41  75.64
SO BUILDWID 001        67.67  70.60  71.39  70.00  66.49  60.96
SO BUILDWID 001        66.49  70.00  71.39  70.60  67.67  62.68
SO BUILDWID 001        55.79  49.65  44.50  51.55  67.41  75.64
SO BUILDWID 001        81.58  85.03  85.91  84.17  79.87  60.96


SO BUILDHGT 004        13.11  10.67  10.67  10.67  10.67  10.67
SO BUILDHGT 004        10.67  10.67  10.67  10.67  13.11  13.11
SO BUILDHGT 004        13.11  13.11  10.67  10.67  10.67  10.67
SO BUILDHGT 004        13.11  10.67  10.67  10.67  10.67  10.67
SO BUILDHGT 004        10.67  10.67  10.67  10.67  13.11  13.11
SO BUILDHGT 004        13.11  13.11  13.11  13.11  13.11  13.11
SO BUILDWID 004        73.31  70.00  71.39  70.60  67.67  62.68
SO BUILDWID 004        55.79  49.65  44.50  51.55  67.41  75.64
SO BUILDWID 004        81.58  85.03  71.39  70.00  66.49  60.96
SO BUILDWID 004        73.31  70.00  71.39  70.60  67.67  62.68
SO BUILDWID 004        55.79  49.65  44.50  51.55  67.41  75.64
SO BUILDWID 004        81.58  85.03  85.91  84.17  79.87  73.15


SO BUILDHGT 002        10.67  10.67  10.67  10.67  10.67  10.67
SO BUILDHGT 002        10.67  10.67   8.84   8.84  11.28  11.28
SO BUILDHGT 002        11.28  11.28  11.28  11.28  10.67  10.67
SO BUILDHGT 002        10.67  10.67  10.67  10.67  10.67  10.67
SO BUILDHGT 002        10.67  10.67   8.84   8.84   8.84   8.84
SO BUILDHGT 002         8.84   8.84  10.67  10.67  10.67  10.67
SO BUILDWID 002        66.49  70.00  71.39  70.60  67.67  62.68
SO BUILDWID 002        55.79  49.65  22.56  23.30  65.05  65.70
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SO BUILDWID 002        64.35   61.04   55.88   49.02   99.20   60.96
SO BUILDWID 002        66.49   70.00   71.39   70.60   67.67   62.68
SO BUILDWID 002        55.79   49.65   22.56   23.30   27.61   31.12
SO BUILDWID 002        35.35   38.51   85.91   91.75   99.20   60.96

SO BUILDHGT 003        13.11   13.11   13.11   10.67   10.67   10.67
SO BUILDHGT 003        10.67   10.67    8.84    8.84   11.28   11.28
SO BUILDHGT 003        11.28   11.28   11.28   11.28   10.67   10.67
SO BUILDHGT 003        10.67   10.67   10.67   10.67   10.67   10.67
SO BUILDHGT 003        10.67   10.67    8.84    8.84    8.84    8.84
SO BUILDHGT 003         8.84    8.84   13.11   13.11   13.11   13.11
SO BUILDWID 003        73.31   71.24   67.01   70.60   67.67   62.68
SO BUILDWID 003        55.79   49.65   22.56   23.30   65.05   65.70
SO BUILDWID 003        64.35   61.04   55.88   49.02   99.20   60.96
SO BUILDWID 003        66.49   70.00   71.39   70.60   67.67   62.68
SO BUILDWID 003        55.79   49.65   22.56   23.30   27.61   31.12
SO BUILDWID 003        35.35   38.51   85.91   84.17   79.87   73.15

SO BUILDHGT 006        10.67   10.67   10.67   10.67   10.67   10.67
SO BUILDHGT 006        10.67   10.67    8.84   11.28   11.28   11.28
SO BUILDHGT 006        11.28   11.28   11.28   11.28   10.67   10.67
SO BUILDHGT 006        10.67   10.67   10.67   10.67   10.67   10.67
SO BUILDHGT 006        10.67   10.67    8.84    8.84    8.84    8.84
SO BUILDHGT 006         8.84    8.84   10.67   10.67   10.67   10.67
SO BUILDWID 006        66.49   70.00   71.39   70.60   67.67   62.68
SO BUILDWID 006        55.79   49.65   22.56   90.05   65.05   65.70
SO BUILDWID 006        64.35   61.04   55.88   49.02   99.20  103.63
SO BUILDWID 006        66.49   70.00   71.39   70.60   67.67   62.68
SO BUILDWID 006        55.79   49.65   22.56   23.30   27.61   31.12
SO BUILDWID 006        35.35   38.51   85.91   91.75   99.20  103.63

SO BUILDHGT 007        10.67   11.28   11.28   10.67   10.67   10.67
SO BUILDHGT 007        10.67   10.67   10.67   10.67   10.67   10.67
SO BUILDHGT 007        11.28   11.28   11.28   11.28   11.28   11.28
SO BUILDHGT 007        11.28   11.28   11.28   10.67   10.67   10.67
SO BUILDHGT 007        10.67   10.67   10.67   10.67   10.67   13.11
SO BUILDHGT 007        13.11   13.11   13.11   13.11   13.11   10.67
SO BUILDWID 007        66.49   92.41  101.05   70.60   67.67   62.68
SO BUILDWID 007        55.79   49.65   44.50   51.55   57.04   62.68
SO BUILDWID 007        85.83   79.07   69.90   49.02   40.67   31.09
SO BUILDWID 007        40.67   49.02   55.88   70.60   67.67   62.68
SO BUILDWID 007        55.79   49.65   44.50   51.55   57.04   75.64
SO BUILDWID 007        81.58   85.03   85.91   84.17   79.87   60.96

SO EMISUNIT    .100000E+07 (GRAMS/SEC)          (MICROGRAMS/CUBIC-METER)
SO SRCGROUP ALL
SO FINISHED

RE STARTING
RE GRIDPOLR POL STA
RE GRIDPOLR POL ORIG     0.0     0.0
RE GRIDPOLR POL DIST    1500 2000 2500 3000 4000 5000
RE GRIDPOLR POL GDIR  36.  10    10.00
RE GRIDPOLR POL END

**  FENCELINE RECEPTORS AT 100-M INTERVALS
RE DISCCART    -1331.7    -399.9
RE DISCCART    -1231.7    -401.4
RE DISCCART    -1131.7    -402.9
RE DISCCART    -1031.7    -404.4
RE DISCCART     -931.7    -405.9
RE DISCCART     -831.7    -407.0
RE DISCCART     -731.7    -405.1
RE DISCCART     -631.8    -403.3
RE DISCCART     -536.7    -415.1
RE DISCCART     -438.3    -406.1
RE DISCCART     -338.3    -404.6
RE DISCCART     -242.8    -416.7
RE DISCCART     -142.8    -418.5
RE DISCCART      -42.8    -420.3
RE DISCCART       47.8    -400.0
RE DISCCART      116.0    -326.9
RE DISCCART      184.2    -253.8
RE DISCCART      252.4    -180.6
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RE DISCCART      320.6    -107.5
RE DISCCART      388.8     -34.4
RE DISCCART      457.0      38.8
RE DISCCART      488.1     106.0
RE DISCCART      428.3     180.0
RE DISCCART      386.6     270.9
RE DISCCART      327.4     334.2
RE DISCCART      227.4     333.8
RE DISCCART      127.4     333.3
RE DISCCART       27.4     332.9
RE DISCCART      -72.6     332.5
RE DISCCART     -172.6     332.0
RE DISCCART     -272.6     331.6
RE DISCCART     -372.6     331.1
RE DISCCART     -472.6     330.7
RE DISCCART     -572.6     330.2
RE DISCCART     -672.6     329.8
RE DISCCART     -772.6     329.4
RE DISCCART     -872.6     328.9
RE DISCCART     -972.6     328.5
RE DISCCART    -1072.6     328.0
RE DISCCART    -1172.6     327.6
RE DISCCART    -1272.6     327.1
RE DISCCART    -1318.1     266.8
RE DISCCART    -1347.6     171.2
RE DISCCART    -1377.0      75.7
RE DISCCART    -1406.5     -19.9
RE DISCCART    -1425.5    -117.1
RE DISCCART    -1427.2    -217.1
RE DISCCART    -1425.5    -317.1
RE DISCCART    -1366.3    -389.7

** PROPERTY BOUNDARY RECEPTORS WITH ADDITION OFF-SITE RECEPTORS AT
** 1500,2000,2500,3000,4000, AND 5000 M CENTERED ON ORGN
RE DISCPOLR ORGN      400.        10
RE DISCPOLR ORGN      600.        10
RE DISCPOLR ORGN      800.        10
RE DISCPOLR ORGN     1000.        10
RE DISCPOLR ORGN     1200.        10
RE DISCPOLR ORGN     1400.        10
RE DISCPOLR ORGN      400.        20
RE DISCPOLR ORGN      600.        20
RE DISCPOLR ORGN      800.        20
RE DISCPOLR ORGN     1000.        20
RE DISCPOLR ORGN     1200.        20
RE DISCPOLR ORGN     1400.        20
RE DISCPOLR ORGN      400.        30
RE DISCPOLR ORGN      600.        30
RE DISCPOLR ORGN      800.        30
RE DISCPOLR ORGN     1000.        30
RE DISCPOLR ORGN     1200.        30
RE DISCPOLR ORGN     1400.        30
RE DISCPOLR ORGN      600.        40
RE DISCPOLR ORGN      800.        40
RE DISCPOLR ORGN     1000.        40
RE DISCPOLR ORGN     1200.        40
RE DISCPOLR ORGN     1400.        40
RE DISCPOLR ORGN      600.        50
RE DISCPOLR ORGN      800.        50
RE DISCPOLR ORGN     1000.        50
RE DISCPOLR ORGN     1200.        50
RE DISCPOLR ORGN     1400.        50
RE DISCPOLR ORGN      600.        60
RE DISCPOLR ORGN      800.        60
RE DISCPOLR ORGN     1000.        60
RE DISCPOLR ORGN     1200.        60
RE DISCPOLR ORGN     1400.        60
RE DISCPOLR ORGN      600.        70
RE DISCPOLR ORGN      800.        70
RE DISCPOLR ORGN     1000.        70
RE DISCPOLR ORGN     1200.        70
RE DISCPOLR ORGN     1400.        70
RE DISCPOLR ORGN      600.        80
RE DISCPOLR ORGN      800.        80
RE DISCPOLR ORGN     1000.        80
RE DISCPOLR ORGN     1200.        80
RE DISCPOLR ORGN     1400.        80
RE DISCPOLR ORGN      600.        90
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RE DISCPOLR ORGN	800.	90
RE DISCPOLR ORGN	1000.	90
RE DISCPOLR ORGN	1200.	90
RE DISCPOLR ORGN	1400.	90
RE DISCPOLR ORGN	400.	100
RE DISCPOLR ORGN	600.	100
RE DISCPOLR ORGN	800.	100
RE DISCPOLR ORGN	1000.	100
RE DISCPOLR ORGN	1200.	100
RE DISCPOLR ORGN	1400.	100
RE DISCPOLR ORGN	400.	110
RE DISCPOLR ORGN	600.	110
RE DISCPOLR ORGN	800.	110
RE DISCPOLR ORGN	1000.	110
RE DISCPOLR ORGN	1200.	110
RE DISCPOLR ORGN	1400.	110
RE DISCPOLR ORGN	400.	120
RE DISCPOLR ORGN	600.	120
RE DISCPOLR ORGN	800.	120
RE DISCPOLR ORGN	1000.	120
RE DISCPOLR ORGN	1200.	120
RE DISCPOLR ORGN	1400.	120
RE DISCPOLR ORGN	400.	130
RE DISCPOLR ORGN	600.	130
RE DISCPOLR ORGN	800.	130
RE DISCPOLR ORGN	1000.	130
RE DISCPOLR ORGN	1200.	130
RE DISCPOLR ORGN	1400.	130
RE DISCPOLR ORGN	400.	140
RE DISCPOLR ORGN	600.	140
RE DISCPOLR ORGN	800.	140
RE DISCPOLR ORGN	1000.	140
RE DISCPOLR ORGN	1200.	140
RE DISCPOLR ORGN	1400.	140
RE DISCPOLR ORGN	400.	150
RE DISCPOLR ORGN	600.	150
RE DISCPOLR ORGN	800.	150
RE DISCPOLR ORGN	1000.	150
RE DISCPOLR ORGN	1200.	150
RE DISCPOLR ORGN	1400.	150
RE DISCPOLR ORGN	400.	160
RE DISCPOLR ORGN	600.	160
RE DISCPOLR ORGN	800.	160
RE DISCPOLR ORGN	1000.	160
RE DISCPOLR ORGN	1200.	160
RE DISCPOLR ORGN	1400.	160
RE DISCPOLR ORGN	400.	170
RE DISCPOLR ORGN	600.	170
RE DISCPOLR ORGN	800.	170
RE DISCPOLR ORGN	1000.	170
RE DISCPOLR ORGN	1200.	170
RE DISCPOLR ORGN	1400.	170
RE DISCPOLR ORGN	600.	180
RE DISCPOLR ORGN	800.	180
RE DISCPOLR ORGN	1000.	180
RE DISCPOLR ORGN	1200.	180
RE DISCPOLR ORGN	1400.	180
RE DISCPOLR ORGN	600.	190
RE DISCPOLR ORGN	800.	190
RE DISCPOLR ORGN	1000.	190
RE DISCPOLR ORGN	1200.	190
RE DISCPOLR ORGN	1400.	190
RE DISCPOLR ORGN	600.	200
RE DISCPOLR ORGN	800.	200
RE DISCPOLR ORGN	1000.	200
RE DISCPOLR ORGN	1200.	200
RE DISCPOLR ORGN	1400.	200
RE DISCPOLR ORGN	600.	210
RE DISCPOLR ORGN	800.	210
RE DISCPOLR ORGN	1000.	210
RE DISCPOLR ORGN	1200.	210
RE DISCPOLR ORGN	1400.	210
RE DISCPOLR ORGN	600.	220
RE DISCPOLR ORGN	800.	220
RE DISCPOLR ORGN	1000.	220
RE DISCPOLR ORGN	1200.	220
RE DISCPOLR ORGN	1400.	220
RE DISCPOLR ORGN	800.	230

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RE DISCPOLR ORGN     1000.       230
RE DISCPOLR ORGN     1200.       230
RE DISCPOLR ORGN     1400.       230
RE DISCPOLR ORGN     1000.       240
RE DISCPOLR ORGN     1200.       240
RE DISCPOLR ORGN     1400.       240
RE DISCPOLR ORGN     1200.       250
RE DISCPOLR ORGN     1400.       250
RE DISCPOLR ORGN     1400.       280
RE DISCPOLR ORGN     1000.       290
RE DISCPOLR ORGN     1200.       290
RE DISCPOLR ORGN     1400.       290
RE DISCPOLR ORGN      800.       300
RE DISCPOLR ORGN     1000.       300
RE DISCPOLR ORGN     1200.       300
RE DISCPOLR ORGN     1400.       300
RE DISCPOLR ORGN      600.       310
RE DISCPOLR ORGN      800.       310
RE DISCPOLR ORGN     1000.       310
RE DISCPOLR ORGN     1200.       310
RE DISCPOLR ORGN     1400.       310
RE DISCPOLR ORGN      600.       320
RE DISCPOLR ORGN      800.       320
RE DISCPOLR ORGN     1000.       320
RE DISCPOLR ORGN     1200.       320
RE DISCPOLR ORGN     1400.       320
RE DISCPOLR ORGN      400.       330
RE DISCPOLR ORGN      600.       330
RE DISCPOLR ORGN      800.       330
RE DISCPOLR ORGN     1000.       330
RE DISCPOLR ORGN     1200.       330
RE DISCPOLR ORGN     1400.       330
RE DISCPOLR ORGN      400.       340
RE DISCPOLR ORGN      600.       340
RE DISCPOLR ORGN      800.       340
RE DISCPOLR ORGN     1000.       340
RE DISCPOLR ORGN     1200.       340
RE DISCPOLR ORGN     1400.       340
RE DISCPOLR ORGN      400.       350
RE DISCPOLR ORGN      600.       350
RE DISCPOLR ORGN      800.       350
RE DISCPOLR ORGN     1000.       350
RE DISCPOLR ORGN     1200.       350
RE DISCPOLR ORGN     1400.       350
RE DISCPOLR ORGN      400.       360
RE DISCPOLR ORGN      600.       360
RE DISCPOLR ORGN      800.       360
RE DISCPOLR ORGN     1000.       360
RE DISCPOLR ORGN     1200.       360
RE DISCPOLR ORGN     1400.       360

RE FINISHED

ME STARTING
ME INPUTFIL P:\MET\PBIPBI90.MET
ME ANEMHGHT    33  FEET
ME SURFDATA  12844     1990     WEST-PALM-BCH
ME UAIRDATA  12844     1990     WEST-PALM-BCH
ME FINISHED

OU STARTING
OU RECTABLE ALLAVE FIRST SECOND
OU FINISHED
```

TROPICANA PRODUCTS, INC.

FORT PIERCE PLANT

NO_x PLANT EMISSIONS WITH NATURAL GAS

ISCST3 OUTPUT FILE NUMBER 1 :NGNOX.087
ISCST3 OUTPUT FILE NUMBER 2 :NGNOX.088
ISCST3 OUTPUT FILE NUMBER 3 :NGNOX.089
ISCST3 OUTPUT FILE NUMBER 4 :NGNOX.090
ISCST3 OUTPUT FILE NUMBER 5 :NGNOX.091
First title for last output file is: 1987 Tropicana Fort Pierce Plant 9/7/00
Second title for last output file is: Palm Beach/Palm Beach Met Data, 1987-91, NOX, Natural Gas

AVERAGING TIME	YEAR	CONC (ug/m3)	DIR (deg) or X (m)	DIST (m) or Y (m)	PERIOD ENDING (YYMMDDHH)
SOURCE GROUP ID: ALL					
Annual					
	1987	1.9	-573.	330.	87123124
	1988	1.7	-473.	331.	88123124
	1989	2.0	-473.	331.	89123124
	1990	2.3	-473.	331.	90123124
	1991	2.2	-573.	330.	91123124

All receptor computations reported with respect to a user-specified origin
GRID 0.00 0.00
DISCRETE 0.00 0.00

```
CO STARTINGTropFinal\NGNOX.I88
CO TITLEONE 1988 Tropicana Fort Pierce Plant 9/7/00
CO TITLETWO Palm Beach/Palm Beach Met Data, 1987-91, NOX, Natural Gas
CO MODELOPT CONC   RURAL DFAULT NOCMPL
CO AVERTIME PERIOD
CO POLLUTID NOX
CO DCAYCOEF    .000000
CO RUNORNOT RUN
CO FINISHED

SO STARTING
** TROPICANA ORIGIN IS NW CORNER OF FEED MILL
SO LOCATION ORGN    POINT        0.0       0.0       .0
SO SRCPARAM ORGN    0.0      0.0     0.0     0.0     0.0
** SOURCE ID                    DESCRIPTION
** ------------------------------------------------------------
** 001                          Dryer No. 1
** 004                          Dryer No. 2
** 002                          Boiler No. 1
** 003                          Boiler No. 2
** 006                          Package Boiler
** 007                          Pellet Coolers


** STACK LOCATIONS
SO LOCATION  001  POINT  22.6   -21.3       0.
SO LOCATION  004  POINT  31.1   -21.3       0.
SO LOCATION  002  POINT  64.0    15.8       0.
SO LOCATION  003  POINT  65.8    11.6       0.
SO LOCATION  006  POINT  67.7    17.1       0.
SO LOCATION  007  POINT  15.2     0.0       0.


SO SRCPARAM 001  1.04  28.96  333.2   19.29   0.97
SO SRCPARAM 004  1.04  28.96  333.2   19.29   0.97
SO SRCPARAM 002  0.78  18.29  584.3   41.24   0.61
SO SRCPARAM 003  0.78  18.29  584.3   41.24   0.61
SO SRCPARAM 006  0.21  18.29  505.4   12.77   0.61
SO SRCPARAM 007  0.00  6.10   305.4   0.01    1.22


SO BUILDHGT 001        10.67   10.67   10.67   10.67   10.67   10.67
SO BUILDHGT 001        10.67   10.67   10.67   10.67   13.11   13.11
SO BUILDHGT 001        10.67   10.67   10.67   10.67   10.67   10.67
SO BUILDHGT 001        10.67   10.67   10.67   10.67   10.67   10.67
SO BUILDHGT 001        10.67   10.67   10.67   10.67   13.11   13.11
SO BUILDHGT 001        13.11   13.11   13.11   13.11   13.11   10.67
SO BUILDWID 001        66.49   70.00   71.39   70.60   67.67   62.68
SO BUILDWID 001        55.79   49.65   44.50   51.55   67.41   75.64
SO BUILDWID 001        67.67   70.60   71.39   70.00   66.49   60.96
SO BUILDWID 001        66.49   70.00   71.39   70.60   67.67   62.68
SO BUILDWID 001        55.79   49.65   44.50   51.55   67.41   75.64
SO BUILDWID 001        81.58   85.03   85.91   84.17   79.87   60.96


SO BUILDHGT 004        13.11   10.67   10.67   10.67   10.67   10.67
SO BUILDHGT 004        10.67   10.67   10.67   10.67   13.11   13.11
SO BUILDHGT 004        13.11   13.11   10.67   10.67   10.67   10.67
SO BUILDHGT 004        13.11   10.67   10.67   10.67   10.67   10.67
SO BUILDHGT 004        10.67   10.67   10.67   10.67   13.11   13.11
SO BUILDHGT 004        13.11   13.11   13.11   13.11   13.11   13.11
SO BUILDWID 004        73.31   70.00   71.39   70.60   67.67   62.68
SO BUILDWID 004        55.79   49.65   44.50   51.55   67.41   75.64
SO BUILDWID 004        81.58   85.03   71.39   70.00   66.49   60.96
SO BUILDWID 004        73.31   70.00   71.39   70.60   67.67   62.68
SO BUILDWID 004        55.79   49.65   44.50   51.55   67.41   75.64
SO BUILDWID 004        81.58   85.03   85.91   84.17   79.87   73.15


SO BUILDHGT 002        10.67   10.67   10.67   10.67   10.67   10.67
SO BUILDHGT 002        10.67   10.67    8.84    8.84   11.28   11.28
SO BUILDHGT 002        11.28   11.28   11.28   11.28   10.67   10.67
SO BUILDHGT 002        10.67   10.67   10.67   10.67   10.67   10.67
SO BUILDHGT 002        10.67   10.67    8.84    8.84    8.84    8.84
SO BUILDHGT 002         8.84    8.84   10.67   10.67   10.67   10.67
SO BUILDWID 002        66.49   70.00   71.39   70.60   67.67   62.68
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SO BUILDWID 002        55.79   49.65   22.56   23.30   65.05   65.70
SO BUILDWID 002        64.35   61.04   55.88   49.02   99.20   60.96
SO BUILDWID 002        66.49   70.00   71.39   70.60   67.67   62.68
SO BUILDWID 002        55.79   49.65   22.56   23.30   27.61   31.12
SO BUILDWID 002        35.35   38.51   85.91   91.75   99.20   60.96

SO BUILDHGT 003        13.11   13.11   13.11   10.67   10.67   10.67
SO BUILDHGT 003        10.67   10.67    8.84    8.84   11.28   11.28
SO BUILDHGT 003        11.28   11.28   11.28   11.28   10.67   10.67
SO BUILDHGT 003        10.67   10.67   10.67   10.67   10.67   10.67
SO BUILDHGT 003        10.67   10.67    8.84    8.84    8.84    8.84
SO BUILDHGT 003         8.84    8.84   13.11   13.11   13.11   13.11
SO BUILDWID 003        73.31   71.24   67.01   70.60   67.67   62.68
SO BUILDWID 003        55.79   49.65   22.56   23.30   65.05   65.70
SO BUILDWID 003        64.35   61.04   55.88   49.02   99.20   60.96
SO BUILDWID 003        66.49   70.00   71.39   70.60   67.67   62.68
SO BUILDWID 003        55.79   49.65   22.56   23.30   27.61   31.12
SO BUILDWID 003        35.35   38.51   85.91   84.17   79.87   73.15

SO BUILDHGT 006        10.67   10.67   10.67   10.67   10.67   10.67
SO BUILDHGT 006        10.67   10.67    8.84   11.28   11.28   11.28
SO BUILDHGT 006        11.28   11.28   11.28   11.28   10.67   10.67
SO BUILDHGT 006        10.67   10.67   10.67   10.67   10.67   10.67
SO BUILDHGT 006        10.67   10.67    8.84    8.84    8.84    8.84
SO BUILDHGT 006         8.84    8.84   10.67   10.67   10.67   10.67
SO BUILDWID 006        66.49   70.00   71.39   70.60   67.67   62.68
SO BUILDWID 006        55.79   49.65   22.56   90.05   65.05   65.70
SO BUILDWID 006        64.35   61.04   55.88   49.02   99.20  103.63
SO BUILDWID 006        66.49   70.00   71.39   70.60   67.67   62.68
SO BUILDWID 006        55.79   49.65   22.56   23.30   27.61   31.12
SO BUILDWID 006        35.35   38.51   85.91   91.75   99.20  103.63

SO BUILDHGT 007        10.67   11.28   11.28   10.67   10.67   10.67
SO BUILDHGT 007        10.67   10.67   10.67   10.67   10.67   10.67
SO BUILDHGT 007        11.28   11.28   11.28   11.28   11.28   11.28
SO BUILDHGT 007        11.28   11.28   11.28   10.67   10.67   10.67
SO BUILDHGT 007        10.67   10.67   10.67   10.67   10.67   13.11
SO BUILDHGT 007        13.11   13.11   13.11   13.11   13.11   10.67
SO BUILDWID 007        66.49   92.41  101.05   70.60   67.67   62.68
SO BUILDWID 007        55.79   49.65   44.50   51.55   57.04   62.68
SO BUILDWID 007        85.83   79.07   69.90   49.02   40.67   31.09
SO BUILDWID 007        40.67   49.02   55.88   70.60   67.67   62.68
SO BUILDWID 007        55.79   49.65   44.50   51.55   57.04   75.64
SO BUILDWID 007        81.58   85.03   85.91   84.17   79.87   60.96

SO EMISUNIT    .100000E+07 (GRAMS/SEC)          (MICROGRAMS/CUBIC-METER)
SO SRCGROUP ALL
SO FINISHED

RE STARTING
RE GRIDPOLR POL STA
RE GRIDPOLR POL ORIG     0.0     0.0
RE GRIDPOLR POL DIST    1500 2000 2500 3000
RE GRIDPOLR POL GDIR  36.   10    10.00
RE GRIDPOLR POL END

**  FENCELINE RECEPTORS AT 100-M INTERVALS
RE DISCCART    -1331.7    -399.9
RE DISCCART    -1231.7    -401.4
RE DISCCART    -1131.7    -402.9
RE DISCCART    -1031.7    -404.4
RE DISCCART     -931.7    -405.9
RE DISCCART     -831.7    -407.0
RE DISCCART     -731.7    -405.1
RE DISCCART     -631.8    -403.3
RE DISCCART     -536.7    -415.1
RE DISCCART     -438.3    -406.1
RE DISCCART     -338.3    -404.6
RE DISCCART     -242.8    -416.7
RE DISCCART     -142.8    -418.5
RE DISCCART      -42.8    -420.3
RE DISCCART       47.8    -400.0
RE DISCCART      116.0    -326.9
RE DISCCART      184.2    -253.8
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RE DISCCART      252.4    -180.6
RE DISCCART      320.6    -107.5
RE DISCCART      388.8     -34.4
RE DISCCART      457.0      38.8
RE DISCCART      488.1     106.0
RE DISCCART      428.3     180.0
RE DISCCART      386.6     270.9
RE DISCCART      327.4     334.2
RE DISCCART      227.4     333.8
RE DISCCART      127.4     333.3
RE DISCCART       27.4     332.9
RE DISCCART      -72.6     332.5
RE DISCCART     -172.6     332.0
RE DISCCART     -272.6     331.6
RE DISCCART     -372.6     331.1
RE DISCCART     -472.6     330.7
RE DISCCART     -572.6     330.2
RE DISCCART     -672.6     329.8
RE DISCCART     -772.6     329.4
RE DISCCART     -872.6     328.9
RE DISCCART     -972.6     328.5
RE DISCCART    -1072.6     328.0
RE DISCCART    -1172.6     327.6
RE DISCCART    -1272.6     327.1
RE DISCCART    -1318.1     266.8
RE DISCCART    -1347.6     171.2
RE DISCCART    -1377.0      75.7
RE DISCCART    -1406.5     -19.9
RE DISCCART    -1425.5    -117.1
RE DISCCART    -1427.2    -217.1
RE DISCCART    -1425.5    -317.1
RE DISCCART    -1366.3    -389.7

** PROPERTY BOUNDARY RECEPTORS WITH ADDITION OFF-SITE RECEPTORS AT
** 1500,2000,2500,and 3000 M, CENTERED ON ORGN
RE DISCPOLR ORGN      400.        10
RE DISCPOLR ORGN      600.        10
RE DISCPOLR ORGN      800.        10
RE DISCPOLR ORGN     1000.        10
RE DISCPOLR ORGN     1200.        10
RE DISCPOLR ORGN     1400.        10
RE DISCPOLR ORGN      400.        20
RE DISCPOLR ORGN      600.        20
RE DISCPOLR ORGN      800.        20
RE DISCPOLR ORGN     1000.        20
RE DISCPOLR ORGN     1200.        20
RE DISCPOLR ORGN     1400.        20
RE DISCPOLR ORGN      400.        30
RE DISCPOLR ORGN      600.        30
RE DISCPOLR ORGN      800.        30
RE DISCPOLR ORGN     1000.        30
RE DISCPOLR ORGN     1200.        30
RE DISCPOLR ORGN     1400.        30
RE DISCPOLR ORGN      600.        40
RE DISCPOLR ORGN      800.        40
RE DISCPOLR ORGN     1000.        40
RE DISCPOLR ORGN     1200.        40
RE DISCPOLR ORGN     1400.        40
RE DISCPOLR ORGN      600.        50
RE DISCPOLR ORGN      800.        50
RE DISCPOLR ORGN     1000.        50
RE DISCPOLR ORGN     1200.        50
RE DISCPOLR ORGN     1400.        50
RE DISCPOLR ORGN      600.        60
RE DISCPOLR ORGN      800.        60
RE DISCPOLR ORGN     1000.        60
RE DISCPOLR ORGN     1200.        60
RE DISCPOLR ORGN     1400.        60
RE DISCPOLR ORGN      600.        70
RE DISCPOLR ORGN      800.        70
RE DISCPOLR ORGN     1000.        70
RE DISCPOLR ORGN     1200.        70
RE DISCPOLR ORGN     1400.        70
RE DISCPOLR ORGN      600.        80
RE DISCPOLR ORGN      800.        80
RE DISCPOLR ORGN     1000.        80
RE DISCPOLR ORGN     1200.        80
RE DISCPOLR ORGN     1400.        80
```

RE	DISCPOLR	ORGN	600. 90
RE	DISCPOLR	ORGN	800. 90
RE	DISCPOLR	ORGN	1000. 90
RE	DISCPOLR	ORGN	1200. 90
RE	DISCPOLR	ORGN	1400. 90
RE	DISCPOLR	ORGN	400. 100
RE	DISCPOLR	ORGN	600. 100
RE	DISCPOLR	ORGN	800. 100
RE	DISCPOLR	ORGN	1000. 100
RE	DISCPOLR	ORGN	1200. 100
RE	DISCPOLR	ORGN	1400. 100
RE	DISCPOLR	ORGN	400. 110
RE	DISCPOLR	ORGN	600. 110
RE	DISCPOLR	ORGN	800. 110
RE	DISCPOLR	ORGN	1000. 110
RE	DISCPOLR	ORGN	1200. 110
RE	DISCPOLR	ORGN	1400. 110
RE	DISCPOLR	ORGN	400. 120
RE	DISCPOLR	ORGN	600. 120
RE	DISCPOLR	ORGN	800. 120
RE	DISCPOLR	ORGN	1000. 120
RE	DISCPOLR	ORGN	1200. 120
RE	DISCPOLR	ORGN	1400. 120
RE	DISCPOLR	ORGN	400. 130
RE	DISCPOLR	ORGN	600. 130
RE	DISCPOLR	ORGN	800. 130
RE	DISCPOLR	ORGN	1000. 130
RE	DISCPOLR	ORGN	1200. 130
RE	DISCPOLR	ORGN	1400. 130
RE	DISCPOLR	ORGN	400. 140
RE	DISCPOLR	ORGN	600. 140
RE	DISCPOLR	ORGN	800. 140
RE	DISCPOLR	ORGN	1000. 140
RE	DISCPOLR	ORGN	1200. 140
RE	DISCPOLR	ORGN	1400. 140
RE	DISCPOLR	ORGN	400. 150
RE	DISCPOLR	ORGN	600. 150
RE	DISCPOLR	ORGN	800. 150
RE	DISCPOLR	ORGN	1000. 150
RE	DISCPOLR	ORGN	1200. 150
RE	DISCPOLR	ORGN	1400. 150
RE	DISCPOLR	ORGN	400. 160
RE	DISCPOLR	ORGN	600. 160
RE	DISCPOLR	ORGN	800. 160
RE	DISCPOLR	ORGN	1000. 160
RE	DISCPOLR	ORGN	1200. 160
RE	DISCPOLR	ORGN	1400. 160
RE	DISCPOLR	ORGN	400. 170
RE	DISCPOLR	ORGN	600. 170
RE	DISCPOLR	ORGN	800. 170
RE	DISCPOLR	ORGN	1000. 170
RE	DISCPOLR	ORGN	1200. 170
RE	DISCPOLR	ORGN	1400. 170
RE	DISCPOLR	ORGN	600. 180
RE	DISCPOLR	ORGN	800. 180
RE	DISCPOLR	ORGN	1000. 180
RE	DISCPOLR	ORGN	1200. 180
RE	DISCPOLR	ORGN	1400. 180
RE	DISCPOLR	ORGN	600. 190
RE	DISCPOLR	ORGN	800. 190
RE	DISCPOLR	ORGN	1000. 190
RE	DISCPOLR	ORGN	1200. 190
RE	DISCPOLR	ORGN	1400. 190
RE	DISCPOLR	ORGN	600. 200
RE	DISCPOLR	ORGN	800. 200
RE	DISCPOLR	ORGN	1000. 200
RE	DISCPOLR	ORGN	1200. 200
RE	DISCPOLR	ORGN	1400. 200
RE	DISCPOLR	ORGN	600. 210
RE	DISCPOLR	ORGN	800. 210
RE	DISCPOLR	ORGN	1000. 210
RE	DISCPOLR	ORGN	1200. 210
RE	DISCPOLR	ORGN	1400. 210
RE	DISCPOLR	ORGN	600. 220
RE	DISCPOLR	ORGN	800. 220
RE	DISCPOLR	ORGN	1000. 220
RE	DISCPOLR	ORGN	1200. 220
RE	DISCPOLR	ORGN	1400. 220

```
RE DISCPOLR ORGN      800.       230
RE DISCPOLR ORGN     1000.       230
RE DISCPOLR ORGN     1200.       230
RE DISCPOLR ORGN     1400.       230
RE DISCPOLR ORGN     1000.       240
RE DISCPOLR ORGN     1200.       240
RE DISCPOLR ORGN     1400.       240
RE DISCPOLR ORGN     1200.       250
RE DISCPOLR ORGN     1400.       250
RE DISCPOLR ORGN     1400.       280
RE DISCPOLR ORGN     1000.       290
RE DISCPOLR ORGN     1200.       290
RE DISCPOLR ORGN     1400.       290
RE DISCPOLR ORGN      800.       300
RE DISCPOLR ORGN     1000.       300
RE DISCPOLR ORGN     1200.       300
RE DISCPOLR ORGN     1400.       300
RE DISCPOLR ORGN      600.       310
RE DISCPOLR ORGN      800.       310
RE DISCPOLR ORGN     1000.       310
RE DISCPOLR ORGN     1200.       310
RE DISCPOLR ORGN     1400.       310
RE DISCPOLR ORGN      600.       320
RE DISCPOLR ORGN      800.       320
RE DISCPOLR ORGN     1000.       320
RE DISCPOLR ORGN     1200.       320
RE DISCPOLR ORGN     1400.       320
RE DISCPOLR ORGN      400.       330
RE DISCPOLR ORGN      600.       330
RE DISCPOLR ORGN      800.       330
RE DISCPOLR ORGN     1000.       330
RE DISCPOLR ORGN     1200.       330
RE DISCPOLR ORGN     1400.       330
RE DISCPOLR ORGN      400.       340
RE DISCPOLR ORGN      600.       340
RE DISCPOLR ORGN      800.       340
RE DISCPOLR ORGN     1000.       340
RE DISCPOLR ORGN     1200.       340
RE DISCPOLR ORGN     1400.       340
RE DISCPOLR ORGN      400.       350
RE DISCPOLR ORGN      600.       350
RE DISCPOLR ORGN      800.       350
RE DISCPOLR ORGN     1000.       350
RE DISCPOLR ORGN     1200.       350
RE DISCPOLR ORGN     1400.       350
RE DISCPOLR ORGN      400.       360
RE DISCPOLR ORGN      600.       360
RE DISCPOLR ORGN      800.       360
RE DISCPOLR ORGN     1000.       360
RE DISCPOLR ORGN     1200.       360
RE DISCPOLR ORGN     1400.       360

RE FINISHED

ME STARTING
ME INPUTFIL P:\MET\PBIPBI88.MET
ME ANEMHGHT    33  FEET
ME SURFDATA  12844     1988     WEST-PALM-BCH
ME UAIRDATA  12844     1988     WEST-PALM-BCH
ME FINISHED

OU STARTING
OU RECTABLE ALLAVE FIRST
OU FINISHED
```

ISCST3 OUTPUT FILE NUMBER 1 :NGPM.087
ISCST3 OUTPUT FILE NUMBER 2 :NGPM.088
ISCST3 OUTPUT FILE NUMBER 3 :NGPM.089
ISCST3 OUTPUT FILE NUMBER 4 :NGPM.090
ISCST3 OUTPUT FILE NUMBER 5 :NGPM.091
First title for last output file is: 1987 Tropicana Fort Pierce Plant 9/7/00
Second title for last output file is: Palm Beach/Palm Beach Met Data, 1987-91, PM.10, Natural Gas

AVERAGING TIME	YEAR	CONC (ug/m3)	DIR (deg) or X (m)	DIST (m) or Y (m)	PERIOD ENDING (YYMMDDHH)
SOURCE GROUP ID:	ALL				
Annual					
	1987	11.4	184.	-254.	87123124
	1988	13.6	184.	-254.	88123124
	1989	12.3	184.	-254.	89123124
	1990	10.3	184.	-254.	90123124
	1991	12.1	184.	-254.	91123124
HIGH 24-Hour					
	1987	92.6	120.	400.	87091424
	1988	121.8	252.	-181.	88110724
	1989	100.7	140.	400.	89020824
	1990	122.1	184.	-254.	90030624
	1991	136.9	184.	-254.	91122224
HSH 24-Hour					
	1987	86.4	184.	-254.	87112824
	1988	94.5	184.	-254.	88070324
	1989	76.0	-73.	333.	89123124
	1990	94.6	184.	-254.	90110524
	1991	100.9	252.	-181.	91122924

All receptor computations reported with respect to a user-specified origin

GRID	0.00	0.00
DISCRETE	0.00	0.00

TROPICANA PRODUCTS, INC.

FORT PIERCE PLANT

CO PLANT EMISSIONS WITH NATURAL GAS

ISCST3 OUTPUT FILE NUMBER 1 :NGCO.087
ISCST3 OUTPUT FILE NUMBER 2 :NGCO.088
ISCST3 OUTPUT FILE NUMBER 3 :NGCO.089
ISCST3 OUTPUT FILE NUMBER 4 :NGCO.090
ISCST3 OUTPUT FILE NUMBER 5 :NGCO.091
First title for last output file is: 1987 Tropicana Fort Pierce Plant 9/7/00
Second title for last output file is: Palm Beach/Palm Beach Met Data, 1987-91, CO, Natural Gas

AVERAGING TIME	YEAR	CONC (ug/m3)	DIR (deg) or X (m)	DIST (m) or Y (m)	PERIOD ENDING (YYMMDDHH)
SOURCE GROUP ID: ALL					
HIGH 8-Hour					
	1987	631.2	-338.	-405.	87032216
	1988	572.8	-273.	332.	88071016
	1989	582.3	320.	800.	89091424
	1990	575.3	327.	334.	90091616
	1991	728.2	100.	400.	91071216
HSH 8-Hour					
	1987	459.2	-243.	-417.	87050516
	1988	509.4	-273.	332.	88123116
	1989	491.3	-373.	331.	89060516
	1990	509.3	-573.	330.	90031424
	1991	519.8	-373.	331.	91072416
HIGH 1-Hour					
	1987	1385.4	457.	39.	87072810
	1988	1919.5	60.	1000.	88081408
	1989	1414.3	327.	334.	89101812
	1990	1502.9	320.	800.	90071414
	1991	1406.9	428.	180.	91080510
HSH 1-Hour					
	1987	1273.0	110.	400.	87081112
	1988	1366.8	170.	400.	88080710
	1989	1361.3	327.	334.	89051712
	1990	1410.9	320.	800.	90052417
	1991	1371.1	100.	400.	91090110

All receptor computations reported with respect to a user-specified origin

GRID	0.00	0.00
DISCRETE	0.00	0.00

```
CO STARTINGTropFinal\NGCO.I87
CO TITLEONE 1987 Tropicana Fort Pierce Plant 9/7/00
CO TITLETWO Palm Beach/Palm Beach Met Data, 1987-91, CO, Natural Gas
CO MODELOPT CONC   RURAL DFAULT NOCMPL
CO AVERTIME 8 1
CO POLLUTID CO
CO DCAYCOEF    .000000
CO RUNORNOT RUN
CO FINISHED

SO STARTING
** TROPICANA ORIGIN IS NW CORNER OF FEED MILL
SO LOCATION ORGN    POINT        0.0       0.0      .0
SO SRCPARAM ORGN    0.0      0.0     0.0     0.0     0.0
** SOURCE ID                    DESCRIPTION
** ------------------------------------------------------------
** 001                          Dryer No. 1
** 004                          Dryer No. 2
** 002                          Boiler No. 1
** 003                          Boiler No. 2
** 006                          Package Boiler
** 007                          Pellet Coolers


** STACK LOCATIONS
SO LOCATION  001  POINT  22.6   -21.3       0.
SO LOCATION  004  POINT  31.1   -21.3       0.
SO LOCATION  002  POINT  64.0    15.8       0.
SO LOCATION  003  POINT  65.8    11.6       0.
SO LOCATION  006  POINT  67.7    17.1       0.
SO LOCATION  007  POINT  15.2     0.0       0.


SO SRCPARAM 001  34.02  28.96  333.2   19.29   0.97
SO SRCPARAM 004  34.02  28.96  333.2   19.29   0.97
SO SRCPARAM 002   0.66  18.29  584.3   41.24   0.61
SO SRCPARAM 003   0.66  18.29  584.3   41.24   0.61
SO SRCPARAM 006   0.18  18.29  505.4   12.77   0.61
SO SRCPARAM 007   0.00   6.10  305.4    0.01   1.22


SO BUILDHGT 001        10.67  10.67  10.67  10.67  10.67  10.67
SO BUILDHGT 001        10.67  10.67  10.67  10.67  13.11  13.11
SO BUILDHGT 001        10.67  10.67  10.67  10.67  10.67  10.67
SO BUILDHGT 001        10.67  10.67  10.67  10.67  10.67  10.67
SO BUILDHGT 001        10.67  10.67  10.67  10.67  13.11  13.11
SO BUILDHGT 001        13.11  13.11  13.11  13.11  13.11  10.67
SO BUILDWID 001        66.49  70.00  71.39  70.60  67.67  62.68
SO BUILDWID 001        55.79  49.65  44.50  51.55  67.41  75.64
SO BUILDWID 001        67.67  70.60  71.39  70.00  66.49  60.96
SO BUILDWID 001        66.49  70.00  71.39  70.60  67.67  62.68
SO BUILDWID 001        55.79  49.65  44.50  51.55  67.41  75.64
SO BUILDWID 001        81.58  85.03  85.91  84.17  79.87  60.96


SO BUILDHGT 004        13.11  10.67  10.67  10.67  10.67  10.67
SO BUILDHGT 004        10.67  10.67  10.67  10.67  13.11  13.11
SO BUILDHGT 004        13.11  13.11  10.67  10.67  10.67  10.67
SO BUILDHGT 004        13.11  10.67  10.67  10.67  10.67  10.67
SO BUILDHGT 004        10.67  10.67  10.67  10.67  13.11  13.11
SO BUILDHGT 004        13.11  13.11  13.11  13.11  13.11  13.11
SO BUILDWID 004        73.31  70.00  71.39  70.60  67.67  62.68
SO BUILDWID 004        55.79  49.65  44.50  51.55  67.41  75.64
SO BUILDWID 004        81.58  85.03  71.39  70.00  66.49  60.96
SO BUILDWID 004        73.31  70.00  71.39  70.60  67.67  62.68
SO BUILDWID 004        55.79  49.65  44.50  51.55  67.41  75.64
SO BUILDWID 004        81.58  85.03  85.91  84.17  79.87  73.15


SO BUILDHGT 002        10.67  10.67  10.67  10.67  10.67  10.67
SO BUILDHGT 002        10.67  10.67   8.84   8.84  11.28  11.28
SO BUILDHGT 002        11.28  11.28  11.28  11.28  10.67  10.67
SO BUILDHGT 002        10.67  10.67  10.67  10.67  10.67  10.67
SO BUILDHGT 002        10.67  10.67   8.84   8.84   8.84   8.84
SO BUILDHGT 002         8.84   8.84  10.67  10.67  10.67  10.67
SO BUILDWID 002        66.49  70.00  71.39  70.60  67.67  62.68
```

```
SO BUILDWID 002        55.79   49.65   22.56   23.30   65.05   65.70
SO BUILDWID 002        64.35   61.04   55.88   49.02   99.20   60.96
SO BUILDWID 002        66.49   70.00   71.39   70.60   67.67   62.68
SO BUILDWID 002        55.79   49.65   22.56   23.30   27.61   31.12
SO BUILDWID 002        35.35   38.51   85.91   91.75   99.20   60.96

SO BUILDHGT 003        13.11   13.11   13.11   10.67   10.67   10.67
SO BUILDHGT 003        10.67   10.67    8.84    8.84   11.28   11.28
SO BUILDHGT 003        11.28   11.28   11.28   11.28   10.67   10.67
SO BUILDHGT 003        10.67   10.67   10.67   10.67   10.67   10.67
SO BUILDHGT 003        10.67   10.67    8.84    8.84    8.84    8.84
SO BUILDHGT 003         8.84    8.84   13.11   13.11   13.11   13.11
SO BUILDWID 003        73.31   71.24   67.01   70.60   67.67   62.68
SO BUILDWID 003        55.79   49.65   22.56   23.30   65.05   65.70
SO BUILDWID 003        64.35   61.04   55.88   49.02   99.20   60.96
SO BUILDWID 003        66.49   70.00   71.39   70.60   67.67   62.68
SO BUILDWID 003        55.79   49.65   22.56   23.30   27.61   31.12
SO BUILDWID 003        35.35   38.51   85.91   84.17   79.87   73.15

SO BUILDHGT 006        10.67   10.67   10.67   10.67   10.67   10.67
SO BUILDHGT 006        10.67   10.67    8.84   11.28   11.28   11.28
SO BUILDHGT 006        11.28   11.28   11.28   11.28   10.67   10.67
SO BUILDHGT 006        10.67   10.67   10.67   10.67   10.67   10.67
SO BUILDHGT 006        10.67   10.67    8.84    8.84    8.84    8.84
SO BUILDHGT 006         8.84    8.84   10.67   10.67   10.67   10.67
SO BUILDWID 006        66.49   70.00   71.39   70.60   67.67   62.68
SO BUILDWID 006        55.79   49.65   22.56   90.05   65.05   65.70
SO BUILDWID 006        64.35   61.04   55.88   49.02   99.20  103.63
SO BUILDWID 006        66.49   70.00   71.39   70.60   67.67   62.68
SO BUILDWID 006        55.79   49.65   22.56   23.30   27.61   31.12
SO BUILDWID 006        35.35   38.51   85.91   91.75   99.20  103.63

SO BUILDHGT 007        10.67   11.28   11.28   10.67   10.67   10.67
SO BUILDHGT 007        10.67   10.67   10.67   10.67   10.67   10.67
SO BUILDHGT 007        11.28   11.28   11.28   11.28   11.28   11.28
SO BUILDHGT 007        11.28   11.28   11.28   10.67   10.67   10.67
SO BUILDHGT 007        10.67   10.67   10.67   10.67   10.67   13.11
SO BUILDHGT 007        13.11   13.11   13.11   13.11   13.11   10.67
SO BUILDWID 007        66.49   92.41  101.05   70.60   67.67   62.68
SO BUILDWID 007        55.79   49.65   44.50   51.55   57.04   62.68
SO BUILDWID 007        85.83   79.07   69.90   49.02   40.67   31.09
SO BUILDWID 007        40.67   49.02   55.88   70.60   67.67   62.68
SO BUILDWID 007        55.79   49.65   44.50   51.55   57.04   75.64
SO BUILDWID 007        81.58   85.03   85.91   84.17   79.87   60.96

SO EMISUNIT    .100000E+07 (GRAMS/SEC)          (MICROGRAMS/CUBIC-METER)
SO SRCGROUP ALL
SO FINISHED

RE STARTING
RE GRIDPOLR POL STA
RE GRIDPOLR POL ORIG     0.0     0.0
RE GRIDPOLR POL DIST   1500 2000 2500 3000 4000 5000
RE GRIDPOLR POL GDIR  36.  10   10.00
RE GRIDPOLR POL END

**  FENCELINE RECEPTORS AT 100-M INTERVALS
RE DISCCART    -1331.7    -399.9
RE DISCCART    -1231.7    -401.4
RE DISCCART    -1131.7    -402.9
RE DISCCART    -1031.7    -404.4
RE DISCCART     -931.7    -405.9
RE DISCCART     -831.7    -407.0
RE DISCCART     -731.7    -405.1
RE DISCCART     -631.8    -403.3
RE DISCCART     -536.7    -415.1
RE DISCCART     -438.3    -406.1
RE DISCCART     -338.3    -404.6
RE DISCCART     -242.8    -416.7
RE DISCCART     -142.8    -418.5
RE DISCCART      -42.8    -420.3
RE DISCCART       47.8    -400.0
RE DISCCART      116.0    -326.9
RE DISCCART      184.2    -253.8
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RE DISCCART      252.4    -180.6
RE DISCCART      320.6    -107.5
RE DISCCART      388.8     -34.4
RE DISCCART      457.0      38.8
RE DISCCART      488.1     106.0
RE DISCCART      428.3     180.0
RE DISCCART      386.6     270.9
RE DISCCART      327.4     334.2
RE DISCCART      227.4     333.8
RE DISCCART      127.4     333.3
RE DISCCART       27.4     332.9
RE DISCCART      -72.6     332.5
RE DISCCART     -172.6     332.0
RE DISCCART     -272.6     331.6
RE DISCCART     -372.6     331.1
RE DISCCART     -472.6     330.7
RE DISCCART     -572.6     330.2
RE DISCCART     -672.6     329.8
RE DISCCART     -772.6     329.4
RE DISCCART     -872.6     328.9
RE DISCCART     -972.6     328.5
RE DISCCART    -1072.6     328.0
RE DISCCART    -1172.6     327.6
RE DISCCART    -1272.6     327.1
RE DISCCART    -1318.1     266.8
RE DISCCART    -1347.6     171.2
RE DISCCART    -1377.0      75.7
RE DISCCART    -1406.5     -19.9
RE DISCCART    -1425.5    -117.1
RE DISCCART    -1427.2    -217.1
RE DISCCART    -1425.5    -317.1
RE DISCCART    -1366.3    -389.7

** PROPERTY BOUNDARY RECEPTORS WITH ADDITION OFF-SITE RECEPTORS AT
** 1500,2000,2500,3000,4000, AND 5000 M CENTERED ON ORGN
RE DISCPOLR ORGN      400.        10
RE DISCPOLR ORGN      600.        10
RE DISCPOLR ORGN      800.        10
RE DISCPOLR ORGN     1000.        10
RE DISCPOLR ORGN     1200.        10
RE DISCPOLR ORGN     1400.        10
RE DISCPOLR ORGN      400.        20
RE DISCPOLR ORGN      600.        20
RE DISCPOLR ORGN      800.        20
RE DISCPOLR ORGN     1000.        20
RE DISCPOLR ORGN     1200.        20
RE DISCPOLR ORGN     1400.        20
RE DISCPOLR ORGN      400.        30
RE DISCPOLR ORGN      600.        30
RE DISCPOLR ORGN      800.        30
RE DISCPOLR ORGN     1000.        30
RE DISCPOLR ORGN     1200.        30
RE DISCPOLR ORGN     1400.        30
RE DISCPOLR ORGN      600.        40
RE DISCPOLR ORGN      800.        40
RE DISCPOLR ORGN     1000.        40
RE DISCPOLR ORGN     1200.        40
RE DISCPOLR ORGN     1400.        40
RE DISCPOLR ORGN      600.        50
RE DISCPOLR ORGN      800.        50
RE DISCPOLR ORGN     1000.        50
RE DISCPOLR ORGN     1200.        50
RE DISCPOLR ORGN     1400.        50
RE DISCPOLR ORGN      600.        60
RE DISCPOLR ORGN      800.        60
RE DISCPOLR ORGN     1000.        60
RE DISCPOLR ORGN     1200.        60
RE DISCPOLR ORGN     1400.        60
RE DISCPOLR ORGN      600.        70
RE DISCPOLR ORGN      800.        70
RE DISCPOLR ORGN     1000.        70
RE DISCPOLR ORGN     1200.        70
RE DISCPOLR ORGN     1400.        70
RE DISCPOLR ORGN      600.        80
RE DISCPOLR ORGN      800.        80
RE DISCPOLR ORGN     1000.        80
RE DISCPOLR ORGN     1200.        80
RE DISCPOLR ORGN     1400.        80
```

RE	DISCPOLR	ORGN	600. 90
RE	DISCPOLR	ORGN	800. 90
RE	DISCPOLR	ORGN	1000. 90
RE	DISCPOLR	ORGN	1200. 90
RE	DISCPOLR	ORGN	1400. 90
RE	DISCPOLR	ORGN	400. 100
RE	DISCPOLR	ORGN	600. 100
RE	DISCPOLR	ORGN	800. 100
RE	DISCPOLR	ORGN	1000. 100
RE	DISCPOLR	ORGN	1200. 100
RE	DISCPOLR	ORGN	1400. 100
RE	DISCPOLR	ORGN	400. 110
RE	DISCPOLR	ORGN	600. 110
RE	DISCPOLR	ORGN	800. 110
RE	DISCPOLR	ORGN	1000. 110
RE	DISCPOLR	ORGN	1200. 110
RE	DISCPOLR	ORGN	1400. 110
RE	DISCPOLR	ORGN	400. 120
RE	DISCPOLR	ORGN	600. 120
RE	DISCPOLR	ORGN	800. 120
RE	DISCPOLR	ORGN	1000. 120
RE	DISCPOLR	ORGN	1200. 120
RE	DISCPOLR	ORGN	1400. 120
RE	DISCPOLR	ORGN	400. 130
RE	DISCPOLR	ORGN	600. 130
RE	DISCPOLR	ORGN	800. 130
RE	DISCPOLR	ORGN	1000. 130
RE	DISCPOLR	ORGN	1200. 130
RE	DISCPOLR	ORGN	1400. 130
RE	DISCPOLR	ORGN	400. 140
RE	DISCPOLR	ORGN	600. 140
RE	DISCPOLR	ORGN	800. 140
RE	DISCPOLR	ORGN	1000. 140
RE	DISCPOLR	ORGN	1200. 140
RE	DISCPOLR	ORGN	1400. 140
RE	DISCPOLR	ORGN	400. 150
RE	DISCPOLR	ORGN	600. 150
RE	DISCPOLR	ORGN	800. 150
RE	DISCPOLR	ORGN	1000. 150
RE	DISCPOLR	ORGN	1200. 150
RE	DISCPOLR	ORGN	1400. 150
RE	DISCPOLR	ORGN	400. 160
RE	DISCPOLR	ORGN	600. 160
RE	DISCPOLR	ORGN	800. 160
RE	DISCPOLR	ORGN	1000. 160
RE	DISCPOLR	ORGN	1200. 160
RE	DISCPOLR	ORGN	1400. 160
RE	DISCPOLR	ORGN	400. 170
RE	DISCPOLR	ORGN	600. 170
RE	DISCPOLR	ORGN	800. 170
RE	DISCPOLR	ORGN	1000. 170
RE	DISCPOLR	ORGN	1200. 170
RE	DISCPOLR	ORGN	1400. 170
RE	DISCPOLR	ORGN	600. 180
RE	DISCPOLR	ORGN	800. 180
RE	DISCPOLR	ORGN	1000. 180
RE	DISCPOLR	ORGN	1200. 180
RE	DISCPOLR	ORGN	1400. 180
RE	DISCPOLR	ORGN	600. 190
RE	DISCPOLR	ORGN	800. 190
RE	DISCPOLR	ORGN	1000. 190
RE	DISCPOLR	ORGN	1200. 190
RE	DISCPOLR	ORGN	1400. 190
RE	DISCPOLR	ORGN	600. 200
RE	DISCPOLR	ORGN	800. 200
RE	DISCPOLR	ORGN	1000. 200
RE	DISCPOLR	ORGN	1200. 200
RE	DISCPOLR	ORGN	1400. 200
RE	DISCPOLR	ORGN	600. 210
RE	DISCPOLR	ORGN	800. 210
RE	DISCPOLR	ORGN	1000. 210
RE	DISCPOLR	ORGN	1200. 210
RE	DISCPOLR	ORGN	1400. 210
RE	DISCPOLR	ORGN	600. 220
RE	DISCPOLR	ORGN	800. 220
RE	DISCPOLR	ORGN	1000. 220
RE	DISCPOLR	ORGN	1200. 220
RE	DISCPOLR	ORGN	1400. 220

```
RE DISCPOLR ORGN      800.       230
RE DISCPOLR ORGN     1000.       230
RE DISCPOLR ORGN     1200.       230
RE DISCPOLR ORGN     1400.       230
RE DISCPOLR ORGN     1000.       240
RE DISCPOLR ORGN     1200.       240
RE DISCPOLR ORGN     1400.       240
RE DISCPOLR ORGN     1200.       250
RE DISCPOLR ORGN     1400.       250
RE DISCPOLR ORGN     1400.       280
RE DISCPOLR ORGN     1000.       290
RE DISCPOLR ORGN     1200.       290
RE DISCPOLR ORGN     1400.       290
RE DISCPOLR ORGN      800.       300
RE DISCPOLR ORGN     1000.       300
RE DISCPOLR ORGN     1200.       300
RE DISCPOLR ORGN     1400.       300
RE DISCPOLR ORGN      600.       310
RE DISCPOLR ORGN      800.       310
RE DISCPOLR ORGN     1000.       310
RE DISCPOLR ORGN     1200.       310
RE DISCPOLR ORGN     1400.       310
RE DISCPOLR ORGN      600.       320
RE DISCPOLR ORGN      800.       320
RE DISCPOLR ORGN     1000.       320
RE DISCPOLR ORGN     1200.       320
RE DISCPOLR ORGN     1400.       320
RE DISCPOLR ORGN      400.       330
RE DISCPOLR ORGN      600.       330
RE DISCPOLR ORGN      800.       330
RE DISCPOLR ORGN     1000.       330
RE DISCPOLR ORGN     1200.       330
RE DISCPOLR ORGN     1400.       330
RE DISCPOLR ORGN      400.       340
RE DISCPOLR ORGN      600.       340
RE DISCPOLR ORGN      800.       340
RE DISCPOLR ORGN     1000.       340
RE DISCPOLR ORGN     1200.       340
RE DISCPOLR ORGN     1400.       340
RE DISCPOLR ORGN      400.       350
RE DISCPOLR ORGN      600.       350
RE DISCPOLR ORGN      800.       350
RE DISCPOLR ORGN     1000.       350
RE DISCPOLR ORGN     1200.       350
RE DISCPOLR ORGN     1400.       350
RE DISCPOLR ORGN      400.       360
RE DISCPOLR ORGN      600.       360
RE DISCPOLR ORGN      800.       360
RE DISCPOLR ORGN     1000.       360
RE DISCPOLR ORGN     1200.       360
RE DISCPOLR ORGN     1400.       360

RE FINISHED

ME STARTING
ME INPUTFIL P:\MET\PBIPB187.MET
ME ANEMHGHT    33  FEET
ME SURFDATA  12844     1987     WEST-PALM-BCH
ME UAIRDATA  12844     1987     WEST-PALM-BCH
ME FINISHED

OU STARTING
OU RECTABLE ALLAVE FIRST SECOND
OU FINISHED
```

TROPICANA PRODUCTS, INC.

FORT PIERCE PLANT

BPIP OUTPUT FILE

DATE : 09/07/00
TIME : 11:38:24
BPIP-Fort Pierce: Tropicana 9/7/2000

==========
BPIP PROCESSING INFORMATION:
==========

The ST flag has been set for processing for an ISCST2 run.

Inputs entered in FEET will be converted to meters using a conversion factor of 0.3048. Output will be in meters.

UTMP is set to UTMN. The input is assumed to be in a local X-Y coordinate system as opposed to a UTM coordinate system. True North is in the positive Y direction.

Plant north is set to 0.00 degrees with respect to True North.

BPIP-Fort Pierce: Tropicana 9/7/2000

PRELIMINARY* GEP STACK HEIGHT RESULTS TABLE
(Output Units: meters)

Stack Name	Stack Height	Stack-Building Base Elevation Differences	GEP** EQN1	Preliminary* GEP Stack Height Value
001	28.96	0.00	32.77	65.00
004	28.96	0.00	32.77	65.00
002	18.29	0.00	28.19	65.00
003	18.29	0.00	32.77	65.00
006	18.29	0.00	28.19	65.00
007	16.76	0.00	32.77	65.00

* Results are based on Determinants 1 & 2 on pages 1 & 2 of the GEP Technical Support Document. Determinant 3 may be investigated for additional stack height credit. Final values result after Determinant 3 has been taken into consideration.
** Results were derived from Equation 1 on page 6 of GEP Technical Support Document. Values have been adjusted for any stack-building base elevation differences.

Note: Criteria for determining stack heights for modeling emission limitations for a source can be found in Table 3.1 of the GEP Technical Support Document.

BPIP (Dated: 95086)
DATE : 09/07/00
TIME : 11:38:24

BPIP-Fort Pierce: Tropicana 9/7/2000

BPIP output is in meters

```
   SO BUILDHGT 001      10.67  10.67  10.67  10.67  10.67  10.67
   SO BUILDHGT 001      10.67  10.67  10.67  10.67  13.11  13.11
   SO BUILDHGT 001      10.67  10.67  10.67  10.67  10.67  10.67
   SO BUILDHGT 001      10.67  10.67  10.67  10.67  10.67  10.67
   SO BUILDHGT 001      10.67  10.67  10.67  10.67  13.11  13.11
   SO BUILDHGT 001      13.11  13.11  13.11  13.11  13.11  10.67
   SO BUILDWID 001      66.49  70.00  71.39  70.60  67.67  62.68
   SO BUILDWID 001      55.79  49.65  44.50  51.55  67.41  75.64
   SO BUILDWID 001      67.67  70.60  71.39  70.00  66.49  60.96
   SO BUILDWID 001      66.49  70.00  71.39  70.60  67.67  62.68
   SO BUILDWID 001      55.79  49.65  44.50  51.55  67.41  75.64
   SO BUILDWID 001      81.58  85.03  85.91  84.17  79.87  60.96
```

SO BUILDHGT 004	13.11	10.67	10.67	10.67	10.67	10.67
SO BUILDHGT 004	10.67	10.67	10.67	10.67	13.11	13.11
SO BUILDHGT 004	13.11	13.11	10.67	10.67	10.67	10.67
SO BUILDHGT 004	13.11	10.67	10.67	10.67	10.67	10.67
SO BUILDHGT 004	10.67	10.67	10.67	10.67	13.11	13.11
SO BUILDHGT 004	13.11	13.11	13.11	13.11	13.11	13.11
SO BUILDWID 004	73.31	70.00	71.39	70.60	67.67	62.68
SO BUILDWID 004	55.79	49.65	44.50	51.55	67.41	75.64
SO BUILDWID 004	81.58	85.03	71.39	70.00	66.49	60.96
SO BUILDWID 004	73.31	70.00	71.39	70.60	67.67	62.68
SO BUILDWID 004	55.79	49.65	44.50	51.55	67.41	75.64
SO BUILDWID 004	81.58	85.03	85.91	84.17	79.87	73.15
SO BUILDHGT 002	10.67	10.67	10.67	10.67	10.67	10.67
SO BUILDHGT 002	10.67	10.67	8.84	8.84	11.28	11.28
SO BUILDHGT 002	11.28	11.28	11.28	11.28	10.67	10.67
SO BUILDHGT 002	10.67	10.67	10.67	10.67	10.67	10.67
SO BUILDHGT 002	10.67	10.67	8.84	8.84	8.84	8.84
SO BUILDHGT 002	8.84	8.84	10.67	10.67	10.67	10.67
SO BUILDWID 002	66.49	70.00	71.39	70.60	67.67	62.68
SO BUILDWID 002	55.79	49.65	22.56	23.30	65.05	65.70
SO BUILDWID 002	64.35	61.04	55.88	49.02	99.20	60.96
SO BUILDWID 002	66.49	70.00	71.39	70.60	67.67	62.68
SO BUILDWID 002	55.79	49.65	22.56	23.30	27.61	31.12
SO BUILDWID 002	35.35	38.51	85.91	91.75	99.20	60.96
SO BUILDHGT 003	13.11	13.11	13.11	10.67	10.67	10.67
SO BUILDHGT 003	10.67	10.67	8.84	8.84	11.28	11.28
SO BUILDHGT 003	11.28	11.28	11.28	11.28	10.67	10.67
SO BUILDHGT 003	10.67	10.67	10.67	10.67	10.67	10.67
SO BUILDHGT 003	10.67	10.67	8.84	8.84	8.84	8.84
SO BUILDHGT 003	8.84	8.84	13.11	13.11	13.11	13.11
SO BUILDWID 003	73.31	71.24	67.01	70.60	67.67	62.68
SO BUILDWID 003	55.79	49.65	22.56	23.30	65.05	65.70
SO BUILDWID 003	64.35	61.04	55.88	49.02	99.20	60.96
SO BUILDWID 003	66.49	70.00	71.39	70.60	67.67	62.68
SO BUILDWID 003	55.79	49.65	22.56	23.30	27.61	31.12
SO BUILDWID 003	35.35	38.51	85.91	84.17	79.87	73.15
SO BUILDHGT 006	10.67	10.67	10.67	10.67	10.67	10.67
SO BUILDHGT 006	10.67	10.67	8.84	11.28	11.28	11.28
SO BUILDHGT 006	11.28	11.28	11.28	11.28	10.67	10.67
SO BUILDHGT 006	10.67	10.67	10.67	10.67	10.67	10.67
SO BUILDHGT 006	10.67	10.67	8.84	8.84	8.84	8.84
SO BUILDHGT Q06	8.84	8.84	10.67	10.67	10.67	10.67
SO BUILDWID 006	66.49	70.00	71.39	70.60	67.67	62.68
SO BUILDWID 006	55.79	49.65	22.56	90.05	65.05	65.70
SO BUILDWID 006	64.35	61.04	55.88	49.02	99.20	103.63
SO BUILDWID 006	66.49	70.00	71.39	70.60	67.67	62.68
SO BUILDWID 006	55.79	49.65	22.56	23.30	27.61	31.12
SO BUILDWID 006	35.35	38.51	85.91	91.75	99.20	103.63
SO BUILDHGT 007	10.67	11.28	11.28	10.67	10.67	10.67
SO BUILDHGT 007	10.67	10.67	10.67	10.67	10.67	10.67
SO BUILDHGT 007	11.28	11.28	11.28	11.28	11.28	11.28
SO BUILDHGT 007	11.28	11.28	11.28	10.67	10.67	10.67
SO BUILDHGT 007	10.67	10.67	10.67	10.67	10.67	13.11
SO BUILDHGT 007	13.11	13.11	13.11	13.11	13.11	10.67
SO BUILDWID 007	66.49	92.41	101.05	70.60	67.67	62.68
SO BUILDWID 007	55.79	49.65	44.50	51.55	57.04	62.68
SO BUILDWID 007	85.83	79.07	69.90	49.02	40.67	31.09
SO BUILDWID 007	40.67	49.02	55.88	70.60	67.67	62.68
SO BUILDWID 007	55.79	49.65	44.50	51.55	57.04	75.64
SO BUILDWID 007	81.58	85.03	85.91	84.17	79.87	60.96

TROPICANA PRODUCTS, INC.

FORT PIERCE PLANT

TROPICANA FACILITY PLOT

WITH FENCELINE AND OFFSITE RECEPTORS

Figure 1: Tropicana Facility Plot With Fenceline and Off-Site Receptors