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**BUREAU OF AIR REGULATION**

**PERMIT APPLICATION FOR  
RELIANT ENERGY INDIAN RIVER L.L.C.  
INDIAN RIVER PLANT**

**Prepared For:  
Reliant Energy Inc.  
P.O. Box 4567  
Houston, TX 77251**

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

**June 2000  
0037561Y/F1**

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# 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: <b>Reliant Energy Indian River, L.L.C.</b>	
2. Site Name: <b>Indian River Plant</b>	
3. Facility Identification Number: <b>0055318</b>	<input type="checkbox"/> Unknown
4. Facility Location: Street Address or Other Locator: <b>U.S. 1 and Kings Highway</b> City: <b>Titusville</b> County: <b>Brevard</b> Zip Code: <b>32780</b>	
5. Relocatable Facility? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6. Existing Permitted Facility? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

##### Application Contact

1. Name and Title of Application Contact: <b>Jason M. Goodwin, P.E., Senior Engineer</b>			
2. Application Contact Mailing Address: Organization/Firm: <b>Reliant Energy, Incorporated</b> Street Address: <b>P.O. Box 4567</b> City: <b>Houston</b> State: <b>TX</b> Zip Code: <b>77251-4567</b>			
3. Application Contact Telephone Numbers: Telephone: <b>( 713 ) 945 - 7167</b> Fax: <b>( 713 ) 945 - 7598</b>			

##### Application Processing Information (DEP Use)

1. Date of Receipt of Application:	<b>7-3-00</b>
2. Permit Number:	<b>0090196-001-AV</b>
3. PSD Number (if applicable):	
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: **0090008-001-AV**

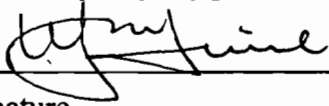
Reason for revision: **Change of Ownership**

**Air Construction Permit Application**

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

- 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: <b>W. Fred McGuire, P.E., Vice President Environment, Safety &amp; Health</b>
2. Owner/Authorized Representative or Responsible Official Mailing Address: Organization/Firm: <b>Reliant Energy, Inc.</b> Street Address: <b>P.O. Box 4567</b> City: <b>Houston</b> State: <b>TX</b> Zip Code: <b>77251-4567</b>
3. Owner/Authorized Representative or Responsible Official Telephone Numbers: Telephone: <b>( 713 ) 945 - 8331</b> Fax: <b>( 713 ) 945 - 7697</b>
4. Owner/Authorized Representative or Responsible Official Statement: <i>I, the undersigned, am the owner or authorized representative*(check here [ ], 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.</i>   _____ Signature  6/28/00 _____ Date

\* Attach letter of authorization if not currently on file.

**Professional Engineer Certification**

1. Professional Engineer Name: <b>Kennard F. Kosky</b> Registration Number: <b>14996</b>
2. Professional Engineer Mailing Address: Organization/Firm: <b>Golder Associates Inc.</b> Street Address: <b>6241 NW 23rd Street, Suite 500</b> City: <b>Gainesville</b> State: <b>FL</b> Zip Code: <b>32653-1500</b>
3. Professional Engineer Telephone Numbers: Telephone: <b>( 352 ) 336 - 5600</b> Fax: <b>( 352 ) 336 - 6603</b>

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 [, 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

6/27/2000  
\_\_\_\_\_  
Date

(seal) 

\* Attach any exception to certification statement.

**Scope of Application**

Emissions Unit ID	Description of Emissions Unit	Permit Type	Processing Fee
001	87 MW Unit No. 1 Boiler	ACM1	
002	188 MW Unit No. 2 Boiler	ACM1	
003	328 MW Unit No. 3 Boiler	ACM1	
008	Lime Storage Silo	ACM1	
009	Unregulated Emissions Units	ACM1	

**Application Processing Fee**

Check one:  Attached - Amount: \$: \_\_\_\_\_  Not Applicable

**Construction/Modification Information**

1. Description of Proposed Project or Alterations:

**Request for separate Title V Source designation for portions of the Orlando Utilities Commission (OUC) existing Indian River Electric Power Generating Facility.**

2. Projected or Actual Date of Commencement of Construction: **N/A**

3. Projected Date of Completion of Construction: **N/A**

**Application Comment**

**Reliant Energy Indian River L.L.C. (REIR) will own and control the facility except for the four (4) combustion turbines, which will remain the property of and controlled by the Orlando Utilities Commission (OUC).**

## II. FACILITY INFORMATION

### A. GENERAL FACILITY INFORMATION

#### Facility Location and Type

1. Facility UTM Coordinates: Zone: 17                                      East (km): 521.5                                      North (km): 3151.6			
2. Facility Latitude/Longitude: Latitude (DD/MM/SS): 28 / 29 / 32                                      Longitude (DD/MM/SS): 80 / 46 / 59			
3. Governmental Facility Code: 0	4. Facility Status Code: A	5. Facility Major Group SIC Code: 49	6. Facility SIC(s):  4911
7. Facility Comment (limit to 500 characters):  The revised Title V Permit will consist of the following emission units:  001 – 87 MW Unit No. 1 Boiler 002 – 188 MW Unit No. 2 Boiler 003 – 328 MW Unit No. 3 Boiler 008 – Lime Storage Silo 009 – Unregulated Emissions Units			

#### Facility Contact

1. Name and Title of Facility Contact: Ms. Amy Deese, Environmental Engineer			
2. Facility Contact Mailing Address: Organization/Firm: Reliant Energy Indian River, L.L.C. Street Address: 7800 South U.S. Highway 1 City: Titusville                                      State: FL                                      Zip Code: 32780			
3. Facility Contact Telephone Numbers: Telephone: ( 321 ) 267 - 2155                                      Fax: ( 321 ) 385 - 4685			



**Facility Regulatory Classifications**

Check all that apply:

1. <input type="checkbox"/> Small Business Stationary Source?	<input type="checkbox"/> Unknown
2. <input checked="" type="checkbox"/> Major Source of Pollutants Other than Hazardous Air Pollutants (HAPs)?	
3. <input type="checkbox"/> Synthetic Minor Source of Pollutants Other than HAPs?	
4. <input checked="" type="checkbox"/> Major Source of Hazardous Air Pollutants (HAPs)?	
5. <input type="checkbox"/> Synthetic Minor Source of HAPs?	
6. <input checked="" type="checkbox"/> One or More Emissions Units Subject to NSPS?	
7. <input type="checkbox"/> One or More Emission Units Subject to NESHAP?	
8. <input type="checkbox"/> Title V Source by EPA Designation?	
9. Facility Regulatory Classifications Comment (limit to 200 characters):	

**List of Applicable Regulations**

See Title V Permit # 0090008-001-AV	

## B. FACILITY POLLUTANTS

### List of Pollutants Emitted

1. Pollutant Emitted	2. Pollutant Classif.	3. Requested Emissions Cap		4. Basis for Emissions Cap	5. Pollutant Comment
		lb/hour	tons/year		
PM	A				Particulate Matter – Total
VOC	B				Volatile Organic Compounds
SO <sub>2</sub>	A				Sulfur Dioxide
NO <sub>x</sub>	A				Nitrogen Oxides
CO	A				Carbon Monoxide
PM <sub>10</sub>	A				Particulate Matter – PM <sub>10</sub>

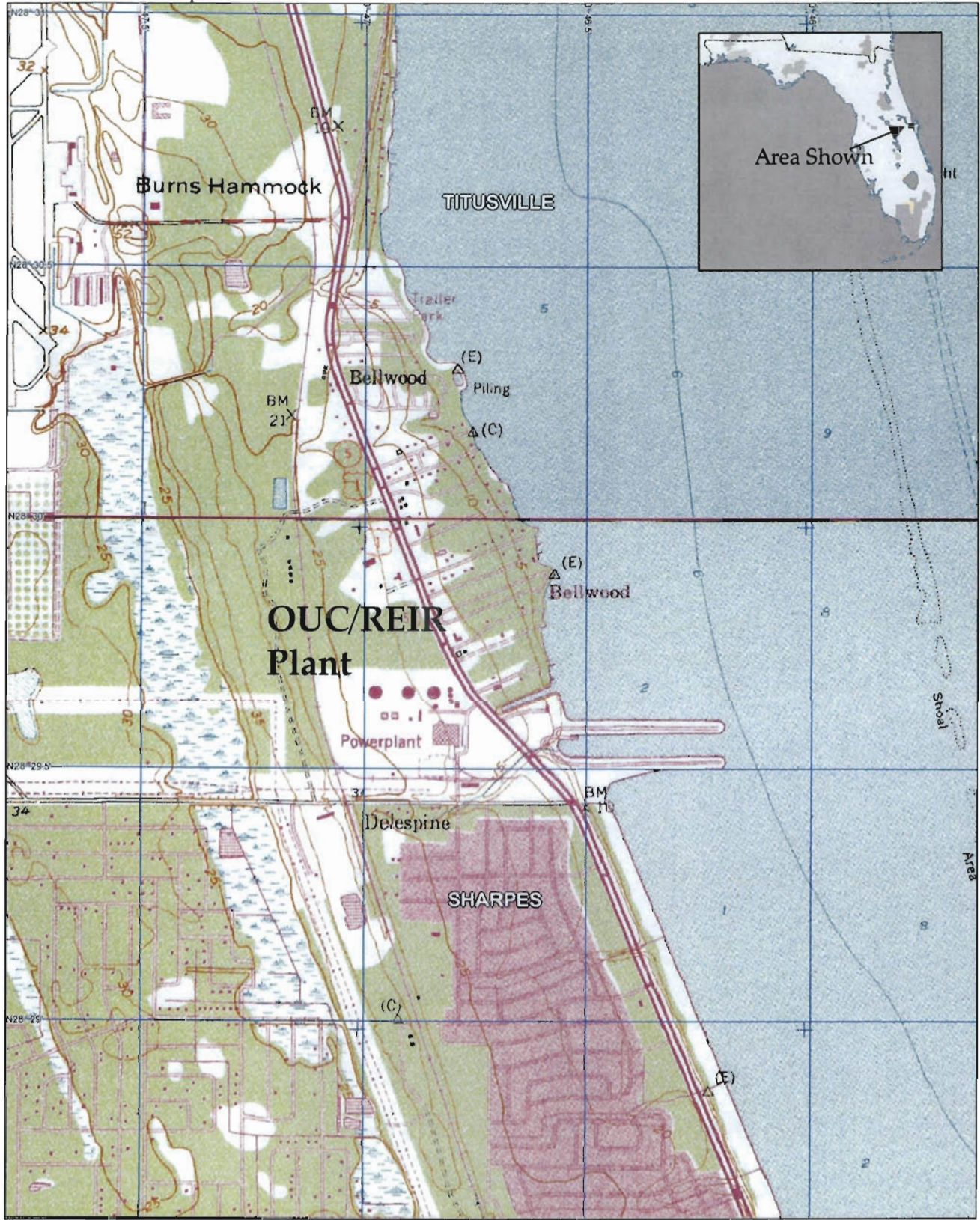


**Additional Supplemental Requirements for Title V Air Operation Permit Applications**


8. List of Proposed Insignificant Activities: <input type="checkbox"/> Attached, Document ID:_____ <input type="checkbox"/> Not Applicable
9. List of Equipment/Activities Regulated under Title VI: <input type="checkbox"/> Attached, Document ID:_____ <input type="checkbox"/> Equipment/Activities On site but Not Required to be Individually Listed <input type="checkbox"/> Not Applicable
10. Alternative Methods of Operation: <input type="checkbox"/> Attached, Document ID:_____ <input type="checkbox"/> Not Applicable
11. Alternative Modes of Operation (Emissions Trading): <input type="checkbox"/> Attached, Document ID:_____ <input type="checkbox"/> Not Applicable
12. Identification of Additional Applicable Requirements: <input type="checkbox"/> Attached, Document ID:_____ <input type="checkbox"/> Not Applicable
13. Risk Management Plan Verification: <input type="checkbox"/> 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:_____) <input type="checkbox"/> Plan to be submitted to CEPPO (Date required:_____) <input type="checkbox"/> Not Applicable
14. Compliance Report and Plan: <input type="checkbox"/> Attached, Document ID:_____ <input type="checkbox"/> Not Applicable
15. Compliance Certification (Hard-copy Required): <input type="checkbox"/> Attached, Document ID:_____ <input type="checkbox"/> Not Applicable

ATTACHMENT RE-FI-C1

AREA MAP



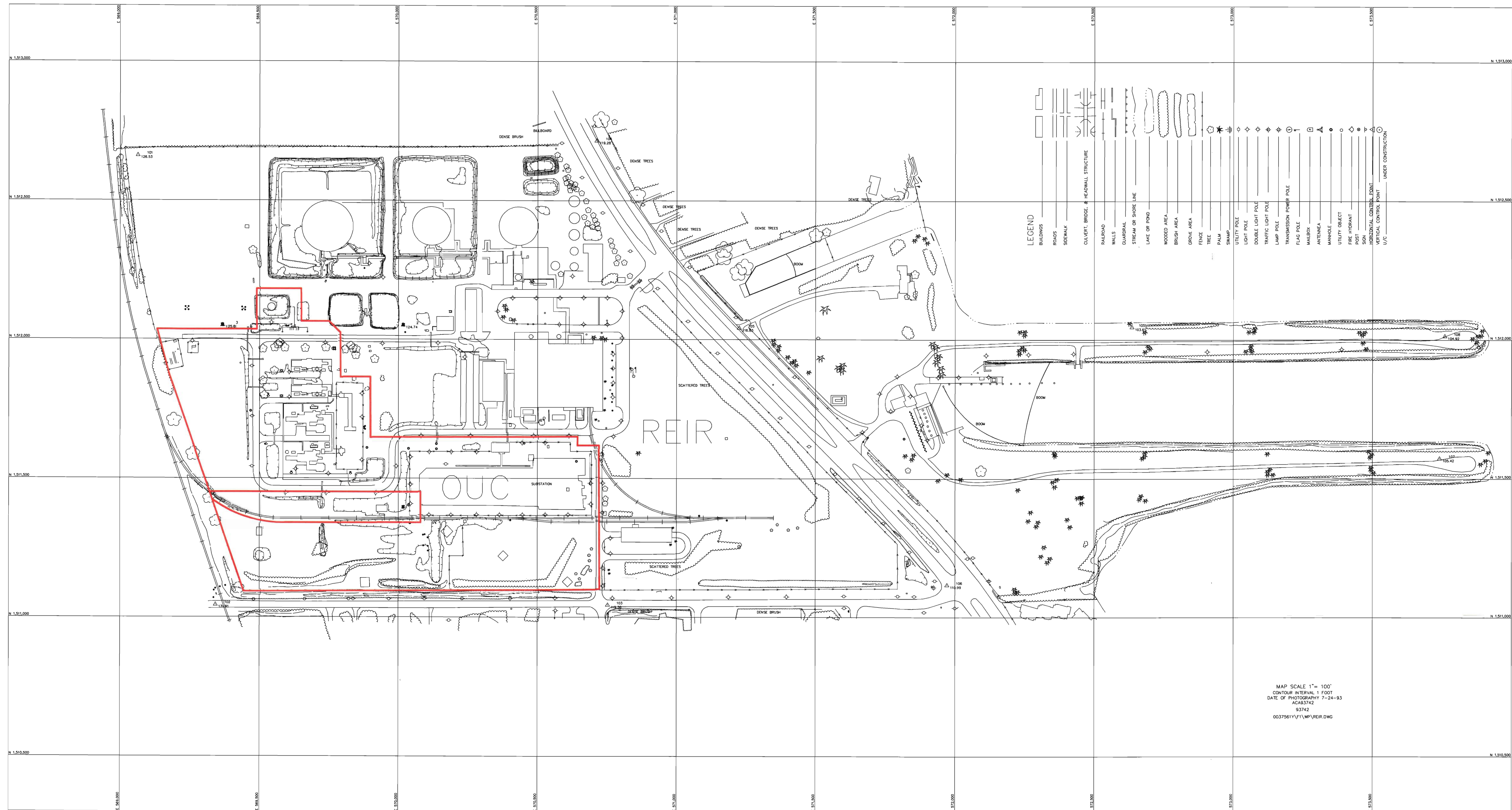
ATTACHMENT RE-FI-C1  
 AREA MAP  
 Reliant-Indian River Plant



The logo for Golder Associates, featuring a stylized green 'G' inside a circle, followed by the text 'Golder Associates' in a bold, sans-serif font.

**ATTACHMENT RE-FI-C2**

**FACILITY PLOT PLAN**



MAP SCALE 1" = 100'  
 CONTOUR INTERVAL 1 FOOT  
 DATE OF PHOTOGRAPHY 7-24-93  
 ACAS3742  
 93742  
 0037561\F1\MP\REIR.DWG



**ATTACHMENT RE-FI-C6**  
**SUPPLEMENTAL INFORMATION**

**Brief Description of Emissions Units and Activities**

1. Internal combustion engines in boats, aircraft and vehicles used for transportation of passengers or freight.
2. Cold storage refrigeration equipment, except for any such equipment located at a Title V source using an ozone-depleting substance regulated under 40 CFR Part 82.
3. Vacuum pumps in laboratory operations.
4. Equipment used for steam cleaning.
5. Belt or drum sanders having a total sanding surface of five square feet or less and other equipment used exclusively on wood or plastics or their products having a density of 20 pounds per cubic foot or more.
6. Equipment used exclusively for space heating, other than boilers.
7. Laboratory equipment used exclusively for chemical or physical analyses.
8. Brazing, soldering or welding equipment.
9. One or more emergency generators located within a single facility provided:
  - a. None of the emergency generators is subject to the Federal Acid Rain Program; and
  - b. Total fuel consumption by all such emergency generators within the facility is limited to 32,000 gallons per year of diesel fuel, 4,000 gallons per year of gasoline, 4.4 million standard cubic feet per year of natural gas or propane, or an equivalent prorated amount if multiple fuels are used.
10. One or more heating units and general purpose internal combustion engines located within a single facility provided:
  - a. None of the heating units or general purpose internal combustion engines is subject to the Federal Acid Rain Program; and
  - b. Total fuel consumption by all such heating units and general purpose internal fuel, 4,000 gallons per year of gasoljne, 4.4 million standard cubic feet per year of natural gas or propane, or an equivalent prorated amount if multiple fuels are used.
11. Fire and safety equipment.
12. Surface coating operations within a single facility if the total quantity of coatings containing greater than 5.0 percent VOCs, by volume, used is 6.0 gallons per day or less, averaged monthly, provided:
  - a. Such operations are not subject to a volatile organic compound Reasonably Available Control Technology (RACT) requirement of Chapter 62-296, F .A.C.; and
  - b. The amount of coatings used shall include any solvents and thinners used in the process including those used for cleanup.
13. Surface coating operations utilizing only coatings containing 5.0 percent or less VOCs, by volume.
14. Degreasing units using heavier-than-air vapors exclusively, except any such unit using or emitting any substance classified as a hazardous air pollutant.

Note: No exemption shall be granted to any emissions unit or activity if:

1. Such unit or activity would be subject to any unit-specific applicable requirement;
2. Such unit or activity, in combination with other units and activities

proposed for exemption, would cause the facility to exceed any major source threshold(s) as defined in Rule 62-213.420(3)(c)1., F.A.C., unless it is acknowledged in the permit application that such units or activities would cause the facility to exceed such threshold(s); or

3. Such unit or activity would emit or have the potential to emit:
  - a. 500 pounds per year or more of lead and lead compounds expressed as lead;
  - b. 1,000 pounds per year or more of any hazardous air pollutant;
  - c. 2,500 pounds per year or more of total hazardous air pollutants; or
  - d. 5.0 tons per year or more of any other regulated pollutant.

[Rule 62-213.430(6), F.A.C.]

**EMISSION UNIT INFORMATION**

General Title V permit emission unit information pursuant to Permit No. 0090008-001-AV follows. The emission units consist of:

Emission Unit ID	Brief Description
001	87 MW Unit No. 1 Boiler (EPA ID #1)
002	188 MW Unit No. 2 Boiler (EPA ID #2)
003	328 MW Unit No. 3 Boiler (EPA ID #3)
008	Lime Storage Silo
009	Unregulated Emissions Units

The specific emission unit information has not been modified since the issuance of the Title V permit and the following information is provided for completeness.

**Section III. Emissions Unit Conditions**

**Subsection A. Fossil Fuel Steam Boilers**

**E.U. ID**

<b><u>No.</u></b>	<b><u>Brief Description</u></b>
001	87 MW Unit No.1 Boiler (EPA ID # 1)
002	188 MW Unit No.2 Boiler (EPA ID # 2)
003	328 MW Unit No.3 Boiler (EPA ID # 3)

Emissions units 001, 002, and 003 consist of three Combustion Engineering Steam Generators. The boilers may burn a variable combination of natural gas, propane, No.6 and No.2 fuel oils, and on-specification used oil. Emissions units 001 and 002 share a common stack, with a height of 300 feet. Emissions unit 003 has a separate 300 foot stack. Unit 001 began operation February 1, 1960; Unit 002 September 1, 1964, and Unit 003 February 1, 1974.

{Permitting note: The emissions units are regulated under Acid Rain-Phase II, and Fossil Fuel Steam Generators with more than 250 million Btu per Hour Heat Input - Rule 62-296.405, F.A.C. and AO05-183384}

**The following conditions apply to the emissions units listed above:**

**Essential Potential to Emit (PTE) Parameters**

**A.1. Permitted Capacity.** The maximum operating heat input rate is as follows:

<b><u>Unit No.</u></b>	<b><u>Fuel Type</u></b>	<b><u>MMBtu/Hour</u></b>
1	Natural Gas	865.5
1	Oil	832.2
2	Natural Gas	2248.7
2	Oil	2016.5
3	Natural Gas	3208.5
3	Oil	3048.8

Additionally, on-specification used oil may be fired at the rate of the lesser of :

- a. Up to 1.5 million gallons per year; or
- b. the equivalent heat input of 10 percent or less of the permitted heat input of No. 6 Fuel Oil while combusting either No. 6 Fuel Oil or Natural Gas.

{Permitting note: See condition A.27.}

[Rules 62-4.160(2), 62-210.200 (PTE), and 62-296.405, F.A.C.]

**A.2. Emissions Unit Operating Rate Limitation After Testing.** See specific condition A.18.

[Rule 62-297.310(2), F.A.C.]

**A.3. Methods of Operation - Fuels.** The only fuels allowed to be burned are No.2 fuel oil, No.6 residual oil, natural gas, propane, and on-specification used oil. The used oil shall comply with the limits given in specific condition A.27. Off-specification used oil shall not be burned.

[Rules 62-4.160(2), 62-210.200, 62-213.440(1), F.A.C., and AO05-183384]

**A.4. Hours of Operation.** These emissions units may operate 8,400 hours per year. The facility is required to keep daily records of the operating hours and associated fuel use.

[Rules 62-210.200 and 62-213.440(1)(b)1.b., F.A.C., (PTE)]

**Emission Limitations and Standards**

{Permitting note: {PRIVATE }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.5. Visible Emissions - Steady State.** Visible emissions shall not exceed 40 percent opacity. Emissions units governed by this visible emissions standard shall compliance test for particulate matter emissions annually.

[Rule 62-296.405(1)(a), F.A.C. and Order OGC File Nos. 88-1257, 88-1258, and 88-1259 dated March 13, 1989.]

**A.6. Visible Emissions - Soot Blowing and Load Change.** Visible emissions shall not exceed 60 percent opacity during the 3 hours in any 24-hour period of excess emissions allowed for boiler cleaning (soot blowing) and load change.

A load change occurs when the operational capacity of a unit is in the 10 percent to 100 percent capacity range, other than startup or shutdown, which exceeds 10 percent of the unit's rated capacity and which occurs at a rate of 0.5 percent per minute or more.

Visible emissions above 60 percent opacity shall be allowed for not more than four, six-minute periods, during the three-hour period of excess emissions allowed by this subparagraph, for boiler cleaning and load changes, at units which have installed and are operating, or have committed to install or operate, continuous opacity monitors.

[Rule 62-210.700(3), F.A.C.]

**A.7. Particulate Matter - Steady State.** Particulate matter emissions shall not exceed 0.1 pound per million Btu heat input, as measured by applicable compliance methods. {Permitting note: The averaging time shall correspond to the cumulative sample time, as specified in the reference test method.}

[Rule 62-296.405(1)(b), F.A.C.]

**A.8. Particulate Matter - Soot Blowing and Load Change.** Particulate matter emissions shall not exceed an average of 0.3 pound per million Btu heat input during the 3-hours in any 24 hour period of excess emissions allowed for boiler cleaning (soot blowing) and load change. {Permitting note: The averaging time shall correspond to the cumulative sample time, as specified in the reference test method.}

[Rule 62-210.700(3), F.A.C.]

**A.9. Sulfur Dioxide.** Sulfur dioxide emissions when burning liquid fuel shall not exceed 2.75 pounds per million Btu heat input, as measured by applicable compliance methods.

[Rule 62-296.405(1)(c)1.j., F.A.C.]

**A.10. Sulfur Dioxide - Sulfur Content.** The as-fired sulfur content of the fuel(s) shall not exceed 2.5 percent, by weight. See conditions A.11., A.16., and A.17.

[Rule 62-296.405(1)(e)3., F.A.C.]

### **Monitoring Requirements**

**A.11. Sulfur Dioxide.** The permittee elected to demonstrate compliance by accepting a liquid fuel sulfur limit. OUC will perform a daily sulfur content analysis of the as-fired fuel. See condition A.22. for recordkeeping requirements. This protocol is allowed since the emissions unit has no operating flue gas desulfurization device. See specific conditions A.16., and A.17.  
[Rule 62-296.405(1)(f)1.b., F.A.C.]

### **A.12. Determination of Process Variables.**

(a) **Required Equipment.** The owner or operator of an emissions 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 emissions data to determine the compliance of the emissions 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.]

### **Test Methods and Procedures**

{Permitting Note: The attached 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.13. Visible Emissions.** The test method for visible emissions shall be DEP Method 9, incorporated in Chapter 62-297, F.A.C. A transmissometer may be used and calibrated according to Rule 62-297.520, F.A.C. See specific condition A.14.

[Rule 62-296.405(1)(e)1., F.A.C.]

**A.14. DEP Method 9.** The provisions of EPA Method 9 (40 CFR 60, Appendix A) are adopted by reference with the following exceptions:

1. EPA Method 9, Section 2.4, Recording Observations. Opacity observations shall be made and recorded by a certified observer at sequential fifteen second intervals during the required period of observation.

2. EPA Method 9, Section 2.5, Data Reduction. For a set of observations to be acceptable, the observer shall have made and recorded, or verified the recording of, at least 90 percent of the possible individual observations during the required observation period. For single-valued opacity standards (e.g., 20 percent opacity), the test result shall be the highest valid six-minute average for the set of observations taken. For multiple-valued opacity standards (e.g., 20 percent opacity, except that an opacity of 40 percent is permissible for not more than two minutes per hour) opacity shall be computed as follows:

- a. For the basic part of the standard (i.e., 20 percent opacity) the opacity shall be determined as specified above for a single-valued opacity standard.

- b. For the short-term average part of the standard, opacity shall be the highest valid short-term average (i.e., two-minute, three-minute average) for the set of observations taken.

In order to be valid, any required average (i.e., a six-minute or two-minute average) shall be based on all of the valid observations in the sequential subset of observations selected, and the selected subset shall contain at least 90 percent of the observations possible for the required averaging time. Each required average shall be calculated by summing the opacity value of each of the valid observations in the appropriate subset, dividing this sum by the number of valid observations in the subset, and rounding the result to the nearest whole number. The number of missing observations in the subset shall be indicated in parenthesis after the subset average value. [Rule 62-297.401, F.A.C.]

**A.15. Particulate Matter.** The test method for particulate emissions shall be EPA Method 17 incorporated by reference in Chapter 62-297, F.A.C. The minimum sample volume shall be 30 dry standard cubic feet. For EPA Method 17, stack temperature shall be less than 375 degrees Fahrenheit. OUC may use EPA Method 5 to demonstrate compliance. EPA Method 3 or 3A with Orsat analysis shall be used when the oxygen based F-factor, computed according to EPA Method 19, is used in lieu of heat input. Acetone wash shall be used with EPA Method 17. [Rule 62-296.405(1)(e)2., F.A.C.]

**A.16. Sulfur Dioxide.** The test methods for sulfur dioxide emissions shall be EPA Methods 6, 6A, 6B, or 6C, incorporated by reference in Chapter 62-297, F.A.C. Fuel sampling and analysis may be used as an alternate sampling procedure if such a procedure is incorporated into the operation permit for the emissions unit. If the emissions unit obtains an alternate procedure under the provisions of Rule 62-297.620, F.A.C., the procedure shall become a condition of the emissions unit's permit. The Department will retain the authority to require EPA Method 6 or 6C if it has reason to believe that exceedances of the sulfur dioxide emissions limiting standard are occurring. Results of an approved fuel sampling and analysis program shall have the same effect as EPA Method 6 test results for purposes of demonstrating compliance or noncompliance with sulfur dioxide standards. The permittee may use the EPA test methods referenced above to demonstrate compliance; **however, the permittee elected to demonstrate compliance by accepting a liquid fuel sulfur limit. OUC will perform a daily analysis of the as-fired fuel.** See specific condition A.17. [Rules 62-296.405(1)(e)3., 62-297.620, F.A.C.]

**A.17.** The following fuel sampling and analysis protocol shall be used as an alternate sampling procedure:

- a. Determine and record the **as-fired** fuel sulfur content, percent by weight, for liquid fuels using either ASTM D2622-94, ASTM D4294-90 (95), ASTM D1552-95, ASTM D1266-91, or both ASTM D4057-88 and ASTM D129-95 (or latest editions).
- b. Record daily the amount of each fuel fired, the density of each fuel, and the percent sulfur content by weight of the as-fired fuel.
- c. Utilize the information in a. and b., above, to calculate the SO<sub>2</sub> emission rate to ensure compliance at all times.

[Rules 62-297.440, and 62-297.620(2)(d), F.A.C.]

**A.18. Operating Rate During Testing.** Testing of emissions shall be conducted with each emissions unit operating at permitted capacity, which is defined as 90 to 100 percent of the maximum operation



rate allowed by the permit. If it is impracticable to test at permitted capacity, an emissions unit may be tested at less than the permitted capacity; in this case, subsequent emissions unit operation is limited to 110 percent of the test load until a new test is conducted. Once the emissions unit is so limited, operation at higher capacities is allowed for no more than 15 consecutive days for the purpose of additional compliance testing to regain the authority to operate at the permitted capacity. [Rules 62-297.310(2) & (2)(b), F.A.C.]

**A.19.** The particulate matter and visible emissions test shall be conducted concurrently. [Rule 62-4.070(3), F.A.C., and AO05-183384]

**A.20. Required Stack Sampling Facilities.** When a mass emissions stack test is required, the permittee shall comply with the requirements contained in Appendix SS-1, Stack Sampling Facilities. (See attachment.) [Rule 62-297.310(6), F.A.C.]

**A.21. Frequency of Compliance Tests.** The following provisions apply only to those emissions units that are subject to an emissions limiting standard for which compliance testing is required.

(a) General Compliance Testing.

1. (Not applicable)
2. For excess emission limitations for particulate matter specified in Rule 62-210.700, F.A.C., a compliance test shall be conducted annually while the emissions unit is operating under soot blowing conditions in each federal fiscal year during which soot blowing is part of normal emissions unit operation, except that such test shall not be required in any federal fiscal year in which a fossil fuel steam generator does not burn liquid fuel for more than 400 hours other than during startup.
3. The owner or operator of an emissions unit that is subject to any emission limiting standard shall conduct a compliance test that demonstrates compliance with the applicable emission limiting standard prior to obtaining a renewed operation permit. Emissions units that are required to conduct an annual compliance test may submit the most recent annual compliance test to satisfy the requirements of this provision. In renewing an air operation permit pursuant to Rule 62-210.300(2)(a)3.b., c., or d., F.A.C., the Department shall not require submission of emission compliance test results for any emissions unit that, during the year prior to renewal:
  - a. Did not operate; or
  - b. In the case of a fuel burning emissions unit, burned liquid fuel for a total of no more than 400 hours.
4. During each federal fiscal year (October 1 - September 30), a formal compliance test shall be conducted for:
  - a. Visible emissions;
  - b. Each of the following pollutants, if there is an applicable standard, and if the emissions unit emits or has the potential to emit: 5 tons per year or more of lead or lead compounds measured as elemental lead; 30 tons per year or more of acrylonitrile; or 100 tons per year or more of any other regulated air pollutant; and
  - c. Each NESHAP pollutant, if there is an applicable emission standard.
5. An annual compliance test for particulate matter emissions shall not be required for any fuel burning emissions unit that, in a federal fiscal year, does not burn liquid fuel, other than during startup, for a total of more than 400 hours.
6. (Not applicable)

7. (Not applicable)

8. (Not applicable)

9. (See Specific Condition A.26.)

10. An annual compliance test conducted for visible emissions shall not be required for units exempted from permitting at Rule 62-210.300(3)(a), F.A.C., or units permitted under the General Permit provisions at Rule 62-210.300(4), F.A.C.

[Rule 62-297.310(7)(a)2., 3., 4., 5., 9., 10., F.A.C.; SIP approved]

### **Reporting and Recordkeeping Requirements**

**A.22.** On a quarterly basis, OUC shall submit a report showing the types of fuels burned. Also, state the sulfur content of the as-fired fuel, recorded from the daily analysis required of specific condition A.16. The records shall be maintained for a minimum of five years and shall be made available to the Department upon request. The permittee shall submit a copy of the fuel oil analysis for the fuel oil burned during each compliance test with the results from the test.

[Rule 62-4.070(3), F.A.C., and AO05-183384]

**A.23. Malfunction Reporting.** In the case of excess emissions resulting from malfunctions, the permittee shall notify the Department in accordance with Rule 62-4.130, F.A.C. A full written report on the malfunctions shall be submitted in a quarterly report, if requested by the Department.

[Rule 62-210.700(6), F.A.C.]

**A.24. Quarterly Excess Emissions Reporting Requirements.** Submit to the Department a written report of emissions in excess of emission limiting standards as set forth in Rule 62-296.405(1), F.A.C., for each calendar quarter. The nature and cause of the excess emissions shall be explained. This report does not relieve the permittee of the legal liability for violations. All recorded data shall be maintained on file by the Source for a period of five years.

[Rule 62-296.405(1)(g), F.A.C.]

### **A.25. Test Reports - General Requirements.**

(a) The owner or operator an emissions unit for which a compliance test is required shall file a report with the Department's Central District Office on the results of each such test.

(b) The required test report shall be filed with the Department's Central District Office as soon as practical but no later than 45 days after the last sampling run of each test is completed.

(c) The test report shall provide sufficient detail on the emissions unit tested and the test procedures used to allow the Department to determine if the test was properly conducted and the test results properly computed. As a minimum, the test report, other than for an EPA or DEP Method 9 test, shall provide the following information:

1. The type, location, and designation of the emissions unit tested.

2. The facility at which the emissions unit is located.

3. The owner or operator of the emissions unit.

4. The normal type and amount of fuels used and materials processed, and the types and amounts of fuels used and material processed during each test run.

5. The means, raw data and computations used to determine the amount of fuels used and materials processed, if necessary to determine compliance with an applicable emission limiting standard.

6. The type of air pollution control devices installed on the emissions unit, their general condition, their normal operating parameters (pressure drops, total operating current and GPM scrubber water), and their operating parameters during each test run.
7. A sketch of the duct within 8 stack diameters upstream and 2 stack diameters downstream of the sampling ports, including the distance to any upstream and downstream bends or other flow disturbances.
8. The date, starting time and duration of each sampling run.
9. The test procedures used, including any alternative procedures authorized pursuant to Rule 62-297.620, F.A.C. Where optional procedures are authorized in this chapter, indicate which option was used.
10. The number of points sampled and configuration and location of the sampling plane.
11. For each sampling point for each run, the dry gas meter reading, velocity head, pressure drop across the stack, temperatures, average meter temperatures and sample time per point.
12. The type, manufacturer and configuration of the sampling equipment used.
13. Data related to the required calibration of the test equipment.
14. Data on the identification, processing and weights of all filters used.
15. Data on the types and amounts of any chemical solutions used.
16. Data on the amount of pollutant collected from each sampling probe, the filters, and the impingers, are reported separately for the compliance test.
17. The names of individuals who furnished the process variable data, conducted the test, analyzed the samples and prepared the report.
18. All measured and calculated data required to be determined by each applicable test procedure for each run.
19. The detailed calculations for one run that relate the collected data to the calculated emission rate.
20. The applicable emission standard, and the resulting maximum allowable emission rate for the emissions unit, plus the test result in the same form and unit of measure.
21. A certification that, to the knowledge of the owner or his authorized agent, all data submitted are true and correct. When a compliance test is conducted for the Department or its agent, the person who conducts the test shall provide the certification with respect to the test procedures used. The owner or his authorized agent shall certify that all data required and provided to the person conducting the test are true and correct to his knowledge.  
[Rule 62-297.310(8), F.A.C.]

**A.26. Notification.** OUC shall notify the Department, at least 15 days prior to the date on which each formal compliance test is to begin, of the date, time, and place of each such test, and the test contact person who will be responsible for coordinating and having such test conducted.  
[Rule 62-297.310(7)(a)9., F.A.C.]

#### **Miscellaneous Conditions**

**A.27. Used Oil.** Burning of on-specification used oil is allowed by these emissions units in accordance with all other conditions of this permit and the following conditions:

- a. **On-specification Used Oil Emissions Limitations:** This emissions unit is permitted to burn only on-specification used oil, which contains a PCB concentration of less than 50 ppm. "On-specification" used oil is defined as used oil that meets the specifications of 40 CFR

279.11, Table 1, Standards for the Management of Used Oil, as listed below. "Off-specification" used oil shall not be burned. Used oil which exceeds any of the allowable levels of the constituents and properties in the following table is considered off-specification used oil.

CONSTITUENT/PROPERTY	ALLOWABLE LEVEL
Arsenic	5 ppm maximum
Cadmium	2 ppm maximum
Chromium	10 ppm maximum
Lead	100 ppm maximum
Total Halogens	1000 ppm maximum
Flash point	100 degrees F minimum

- b. Quantity Limitation: No more than 1.5 million gallons of on-specification used oil may be burned during any federal fiscal year.
- c. PCB Limitation: Used oil containing a PCB concentration of 50 or more ppm shall not be burned at this facility. Used oil shall not be blended to meet this requirement.
- d. Operational Requirements: On-specification used oil with a PCB concentration of greater than or equal to 2, and less than 50 ppm shall be burned only at normal source operating temperatures. Used oil with a PCB concentration of greater than or equal to 2 ppm shall not be burned during periods of startup or shutdown.
- e. Testing Requirements: For used oil generated on-site, OUC shall sample and analyze each batch of used oil to be burned for the following parameters:
  - Arsenic, cadmium, chromium, lead, total halogens, flash point and PCBs.
  - Testing (sampling, extraction and analysis) shall be performed using approved methods specified in EPA Publication SW-846 (Test Methods for Evaluating Solid Waste, Physical/Chemical Methods).

For used oil obtained off-site, OUC shall receive from the marketer, for each load of used oil received, a *certification* that the used oil meets the criteria for on-specification used oil and contains a PCB concentration of no greater than 49 ppm. This certification shall also describe the basis for the certification, such as analytical results. Any claim that used oil does not contain quantifiable levels of PCBs (that is, the used oil contains less than 2 ppm of PCBs) must be documented by testing or other information. The first person making that claim is responsible for furnishing the documentation. The documentation can be tests, personal or special knowledge of the source and composition of the used oil, or a certification from the person generating the used oil claiming that it contains no detectable PCBs. If OUC does not receive certification from the marketer as described above, they must sample and test each load of used oil as outlined above for on-site testing. If OUC relies on the certification from the marketer, OUC shall, at a minimum, each calendar quarter, test one load of the used oil received, selected at random, for the above parameters. If the analytical results show that the used oil does not meet the "on-specification" criteria, or that it contains PCB's of 50 ppm or greater, OUC shall immediately notify and provide these results to the Department's Central District Office and immediately stop burning the used oil.

- f. Record Keeping Requirements: OUC shall obtain, make, and keep the following records for used oil in a form suitable for inspection by the Department:
- (1) The gallons of on-specification used oil generated and burned each month. (This record shall be completed no later than the fifteenth day of the succeeding month.)
  - (2) The total gallons of on-specification used oil burned in the preceding consecutive 12-month period. (This record shall be completed no later than the fifteenth day of the succeeding month.)
  - (3) The name and address of all marketers delivering used oil to the facility.
  - (4) Copies of the marketer certifications and any supporting information.
  - (5) Documentation that the used oil contains less than 2 ppm PCBs, if claimed, including the name and address of the person making the claim.
  - (6) Results of the analyses required above.
  - (7) A copy of the notice to EPA and a copy of the one-time written notice provided to each marketer.
  - (8) Total lead emissions as a result of burning on-specification used oil on a monthly basis.
- g. Reporting Requirements: OUC shall submit to the Department, within thirty days of the end of each calendar quarter, the analytical results and the total amount of on-specification used oil generated and burned during the quarter.
- OUC shall submit, with the Annual Operation Report form, the analytical results and the total amount of on-specification used oil burned during the previous calendar year.

[Rule 62-4.070(3), F.A.C., and 40 CFR 279 and 40 CFR 761]

**A.28.** The specific conditions in Subsection E (Common Conditions II) apply to these emissions units.