

Golder Associates Inc.

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



file w/ Title V app'n

June 5, 1997

Mr. Clair H. Fancy, P.E., Chief
Bureau of Air Regulation
Florida Department of Environmental Protection
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

*entered in ARMS 6/16/97
JK*

RE: Revision to Title V Application
File No. 1050223-003-AC (PSD-FL-190)
Tiger Bay Limited Partnership, Polk County

RECEIVED

AUG 29 1997

**BUREAU OF
AIR REGULATION**

ATTN: Title V Section - Mr. Scott Sheplak, P.E.

Dear Scott:

On January 8, 1997, the compliance date for the combustion turbine to achieve the NO_x emission limit of 97.2 lb/hr (equivalent to 15 ppmvd corrected to 15% O₂) was revised with Final Permit Amendment No. 1050223-003-AC (PSD-FL-190) to no later than December 31, 1998. This submittal provides information for the Title V application relative to the revised permit which allows for either appropriate combustion technology or the use of selective catalytic reduction (SCR) to achieve compliance. Information in the application form was updated and is presented in both paper and computerized versions. The Responsible Official's and the Professional Engineer's statements have been included.

Please call if you have any questions.

Sincerely,

Kennard F. Kosky, P.E.
Principal

KFK/lcb

cc: Jeffrey Keenan, DESTEC Energy
Jeffrey Fassett, DESTEC Energy
Ken Nash, Tiger Bay Limited Partnership
File (2)

RECEIVED

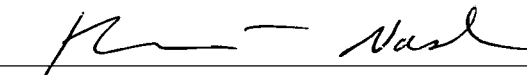
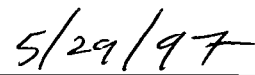
JUN 06 1997

**BUREAU OF
AIR REGULATION**

**RECEIVED
JUN 10 1997
D E P**

RECEIVED
JUN 10 1997
Department of Environmental Protection
BY SOUTHWEST DISTRICT

Owner/Authorized Representative or Responsible Official

1. Name and Title of Owner/Authorized Representative or Responsible Official: Ken Nash, President
2. Owner/Authorized Representative or Responsible Official Mailing Address: Organization/Firm: Tiger Bay Limited Partnership Street Address: 2500 City West Blvd Suite 150 City: Houston State: TX Zip Code: 77042
3. Owner/Authorized Representative or Responsible Official Telephone Numbers: Telephone: (713) 735-4124 Fax: (713) 735-4169
4. Owner/Authorized Representative or Responsible Official Statement: <i>I, the undersigned, am the owner or authorized representative* of the non-Title V source addressed in this Application for Air Permit or the responsible official, as defined in Rule 62-210.200, F.A.C., 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  _____ Date

* Attach letter of authorization if not currently on file.

4. Professional Engineer's 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.

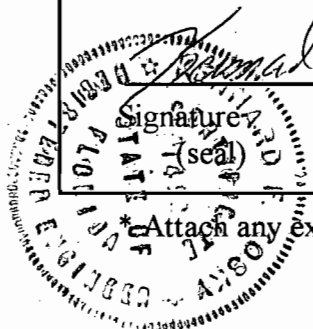
If the purpose of this application is to obtain an initial air operation permit or operation permit revision for one or more newly constructed or modified emissions units (check here [] if so), I further certify that, with the exception of any changes detailed as part of this application, each such emissions 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.

Richard J. Kirby

Signature

27 May 1997

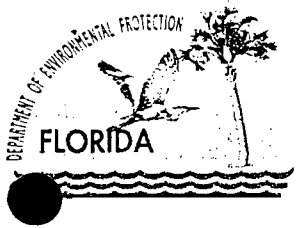
Date



*Attach any exception to certification statement.

ATTACHMENT TB-FE-2

FACILITY PLOT PLAN



Department of Environmental Protection

Lawton Chiles
Governor

Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Virginia B. Wetherell
Secretary

September 8, 1997

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. W. Jeffrey Pardue, C.E.P.
Director of Environmental Services
Florida Power Corporation
3201 Thirty-fourth Street South
Post Office Box 14042
St. Petersburg, Florida 33733

813-866-4387

Acad. Perm. Phase II

Re: Transfer of Permits
Project Nos. 1050223-004-AO and 1050223-005-AC
Title V Application Revision

Dear Mr. Pardue:

On August 14, 1997, the Department received your completed "Applications For Transfer Of Permits." Pursuant to Rule 62-4.120, F.A.C., Transfer of Permits, the Department hereby approves the transfer of permits numbered PSD-FL-190/AC53-214903 and AO53-261950 for the Tiger Bay Cogeneration Facility, located at 3219 State Road 630 West, Fort Meade, Polk County, Florida, from the Tiger Bay Limited Partnership to the Florida Power Corporation.

Included with your letter requesting the permit transfers were revised pages to this facility's Title V Operation Permit Application. However, the necessary Professional Engineer certification was not included with your submission. Please provide this document as soon as possible. Please note that Rule 62-4.050(3), F.A.C., requires that all applications for a Department permit must be certified by a professional engineer registered in the State of Florida. This requirement also applies to revisions to the application. Please complete and submit a new P.E. certification statement page from the new long application form, DEP Form No. 62-210.900, effective March 21, 1996 (enclosed).

The Department hereby transfers the permits as follows:

CHANGE PERMITTEE FROM:

Ms. Jeanne Benedetti
Vice President
Tiger Bay Limited Partnership

CHANGE PERMITTEE TO:

Mr. W. Jeffrey Pardue, C.E.P.
Director of Environmental Services
Florida Power Corporation

A person whose substantial interests are affected by these permit amendments may petition for an administrative hearing in accordance with Sections 120.569 and 120.57, F.S. The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department, 3900 Commonwealth Boulevard, Mail Station #35, Tallahassee, Florida 32399-3000, telephone: 850/488-9730, fax: 850/487-4938. Petitions must be filed within fourteen days of receipt of these permit amendments. A petitioner must mail a copy of the petition to the applicant at the address indicated above, at the time of filing. The failure of any person to file a petition within the appropriate time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under Sections 120.569 and 120.57, F.S., or to intervene in this proceeding and participate as a party to it. Any subsequent intervention will be only at the approval of the presiding officer upon the filing of a motion in compliance with Rule 28-5.207 of the Florida Administrative Code. Mediation is not available for this action.

A petitioner, the applicant's name and address, the Permit File Number and the county in which the project is proposed; (b) A statement of how and when each petitioner received notice of the Department's action or proposed action; (c) A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action; (d) A statement of the material facts disputed by the petitioner, if any; (e) A statement of facts which the petitioner contends warrant reversal or modification of the Department's action or proposed action; (f) A statement identifying the rules or statutes that the petitioner contends require reversal or modification of the Department's action or proposed action; and (g) A statement of the relief sought by the petitioner, stating precisely the action that the petitioner wants the Department to take with respect to the action or proposed action.

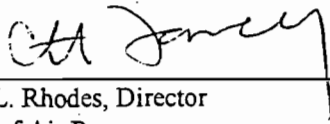
Because the administrative hearing process is designed to formulate final agency action, the filing of a petition means that the Department's final action may be different from the position taken by it in these permit amendments. Persons whose substantial interests will be affected by any such final decision of the Department on the application have the right to petition to become a party to the proceeding, in accordance with the requirements set forth above.

These permit amendments are final and effective on the date filed with the Clerk of the Department unless a petition is filed in accordance with the above paragraphs or unless a request for extension of time in which to file a petition is filed within the time specified for filing a petition and conforms to Rule 62-103.070, F.A.C. Upon timely filing of a petition or a request for an extension of time these permit amendments will not be effective until further order of the Department.

When the Orders (Permit Amendments) are final, any party to the Orders has the right to seek judicial review of the Orders pursuant to Section 120.68, Florida Statutes, by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the Department in the Legal Office; and by filing a copy of the Notice of Appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The Notice of appeal must be filed within 30 (thirty) days from the date this Notice is filed with the Clerk of the Department.

A copy of this letter shall be filed with the referenced permits and becomes a part of the permits.

**STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION**

for 
Howard L. Rhodes, Director
Division of Air Resources
Management

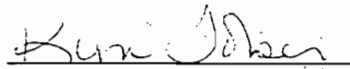
CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that these TRANSFER OF PERMITS were sent by certified mail (*) before the close of business on 9-9-97 to the person(s) listed:

Mr. W. Jeffery Pardue, Florida Power Corporation*
Ms. Jeanne Benedetti, Tiger Bay L. P.*
Mr. Jerry Kissel, Southwest District

Clerk Stamp

FILING AND ACKNOWLEDGMENT FILED, on this date, pursuant to Section 120.52(7), Florida Statutes, with the designated agency Clerk, receipt of which is hereby acknowledged.


(Clerk)

9-9-97
(Date)



STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION

APPLICATION FOR TRANSFER OF PERMIT

Permit No. PSD-FL-190 / AC53-219031, AO53-261950 Date Issued N/A Date Expires N/A

TRANSFER OF TITLE V APPLICATION, submitted 6/13/96, as amended 5/29/97

NOTIFICATION OF SALE OR LEGAL TRANSFER

Source Name: Tiger Bay Cogeneration Facility County: Polk
Source Location: 3219 State Road 630 City: Fort Meade, 33841
Permittee Name: Tiger Bay Limited Partnership / Jeanne Benedetti Title: V.P., Central FL DGE, Inc. A General Partner
Mailing Address: 2500 CityWest Blvd., Suite 150
Houston, TX 77042

The undersigned hereby notifies the department of the sale or legal transfer of this pollution source. He further agrees to assign his rights as permittee to the applicant in the event the department agrees to the transfer of permit.

Sworn to and subscribed before me at Pinellas
County, Florida
this 9th day of July 19 97.

Signature of Permittee
V.P., Central Florida DGE, Inc. A General Partner

Date: 7-15-97 Title

My Commission Expires: 5/17/98
NOTARY PUBLIC
BONDED BY SERVICE INS
No. CC473016

REQUEST FOR TRANSFER OF PERMIT

Source Name: Tiger Bay Cogeneration Facility
Applicant Name: Florida Power Corporation / W. Jeffrey Pardue, CEP Title: Director, Environmental Services
Mailing Address: 3201 34th Street South, MAC H2G
St. Petersburg, FL 33711 Telephone: (813) 866-4387

Project Engineer: Name: Robert W. Anderson
Mailing Address: 3201 34th Street South, MAC GV44
St. Petersburg, FL 33711 Telephone: (352) 337-6901

The undersigned hereby notifies the department of his having acquired title to this pollution source. He further states that he has examined the application and documents submitted by the current permittee the basis on which Permit No. PSD-FL-190 / AC53-219031, AO53-261950 was issued by the department, and states that they accurately and completely describe the permitted activity or project. He further states that he is familiar with the permit, agrees to comply with its terms and conditions, and agrees to assume the rights and liabilities contained therein. He also agrees to promptly notify the department of any future change in ownership of, or responsibility for, the permitted activity or project.

Sworn to and subscribed before me at Pinellas
County, Florida
this 12th day of August 19 97.

Signature of Applicant*
Director, Environmental Services

Date: 8/12/97 Title

My Commission Expires: 03-22-2000

* Attach letter of authorization if other than owner or corporate officer.

JENNIFER L. WAGGONER
My Comm Exp. 3/22/2000
BONDED BY SERVICE INS
No. CC605694
 Personally Known Other I.D.



RECEIVED

FEB 18 1998

BUREAU OF
AIR REGULATION

February 16, 1998

Facility ID No.
1050223-002-AV

Mr. Scott Sheplak
Title V Permit Section
Bureau of Air Regulation
Florida Department of Environmental Protection
2600 Blair Stone Road
Tallahassee, FL 32399

Dear Mr. Sheplak:

Re: Tiger Bay Cogen Facility

As you know, the Tiger Bay Cogeneration Facility was purchased by Florida Power Corporation (FPC) from DESTEC in 1997. FPC is in the process of obtaining a site certification for an additional 10.5 megawatts (MW) of steam electric capacity. This reflects the actual steam capacity of the unit, which is a nominal 85.5 MW.

This change necessitates a corresponding amendment to the Title V permit application in order to reflect the unit's actual capacity. A revised Title V application page describing the capacity of the steam turbine is enclosed as Attachment 1. Attachment 2 contains a P.E.-certified certification of the capacity of the steam turbine. In addition, Tiger Bay became an acid rain facility as a result of the FPC purchase. Attachment 3 contains copies of the acid rain permit application and certificate of representation for Tiger Bay.

Thank you for your processing of this request. Please contact Mr. Mike Kennedy at (813) 866-4344 if you have any questions or comments.

Sincerely,

A handwritten signature in black ink, appearing to read "W. Jeffrey Pardue".

W. Jeffrey Pardue, C.E.P.
Director

Attachments

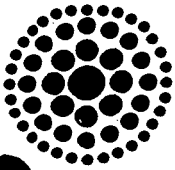
Attachment 1

**B. GENERAL EMISSIONS UNIT INFORMATION
(Regulated and Unregulated Emissions Units)**

Emissions Unit Description and Status

1. Description of Emissions Unit Addressed in This Section (limit to 60 characters): Combustion Turbine (CT) General Electric - MS70001FA		
2. Emissions Unit Identification Number: [] No Corresponding ID [] Unknown 001		
3. Emissions Unit Status Code: A	4. Acid Rain Unit? [<input checked="" type="checkbox"/>] Yes [] No	5. Emissions Unit Major Group SIC Code: 49
6. Emissions Unit Comment (limit to 500 characters): The CT exhausts through a HRSG. The nominal rating of the CT is 184MW. The steam turbine serves a separate generator with a nominal rating of 85.5MW. The unit was permitted (AC53-214903/PSD-FL-190; as amended) and is capable of accommodating fuel oil. Associated facilities (e.g., fuel oil tank) have not been installed and unit has not operated on distillate oil. This unit is an "Affected Unit" under EPA's Acid Rain Program, pursuant to 40CFR72.6(b)(5).		

Attachment 2



**Florida
Power**
CORPORATION

INTEROFFICE CORRESPONDENCE

Performance Services

OFFICE

MAC

MAC

231-5292

TELEPHONE

SUBJECT: **Tiger Bay Steam Turbine Capabilities**

TO: **Michael J. Kennedy**

DATE: **November 20, 1997**

Performance Services has reviewed the design specifications for the steam turbine at Tiger Bay and concluded that the steam turbine is capable of operating continuously at 105 percent of initial pressure (1537.5 psia) with control valves wide open. We expect to generate 87.4 gross megawatts at the following steam inlet conditions:

- steam flow of 549,675 lbs/hr
- Throttle steam pressure of 1537.5 psia
- Throttle steam temperature of 1000 deg F
- Exhausting to 1.62 psia

If you have any further questions concerning Tiger Bay, please call me at Ext. 231-5292.

Dario B. Zuloaga

Dario B. Zuloaga, P.E.
License # 0032729 (FL)
Lead Principal Engineer
Performance Services

cc: Bob Anderson

Attachment 3



Phase II Permit Application

For more information, see instructions and refer to 40 CFR 72.30 and 72.31

This submission is: New Revised

STEP 1
Identify the source by plant name, State, and ORIS code from NADB

Tiger Bay Facility	FL	7699
Plant Name	State	ORIS Code

Compliance Plan

STEP 2
Enter the boiler ID# from NADB for each affected unit, and indicate whether a repowering plan is being submitted for the unit by entering "yes" or "no" at column c. For new units, enter the requested information in columns d and e

a	b		c	d	e
Boiler ID#	Unit Will Hold Allowances in Accordance with 40 CFR 72.9(c)(1)		Repowering Plan	New Units Commence Operation Date	New Units Monitor Certification Deadline

1	Yes	No		
	Yes			
	Yes			
	Yes			
	Yes			
	Yes			
	Yes			
	Yes			
	Yes			
	Yes			
	Yes			
	Yes			
	Yes			
	Yes			
	Yes			
	Yes			

STEP 3
Check the box if the response in column c of Step 2 is "Yes" for any unit

For each unit that will be repowered, the Repowering Extension Plan form is included and the Repowering Technology Petition form has been submitted or will be submitted by June 1, 1997.

Tiger Bay Facility

Plant Name (from Step 1)

Phase II Permit - Page 2

STEP 4
Read the standard requirements and certification, enter the name of the designated representative, and sign and date

Standard Requirements

Permit Requirements.

- (1) The designated representative of each affected source and each affected unit at the source shall:
 - (i) Submit a complete Acid Rain permit application (including a compliance plan) under 40 CFR part 72 in accordance with the deadlines specified in 40 CFR 72.30; and
 - (ii) Submit in a timely manner any supplemental information that the permitting authority determines is necessary in order to review an Acid Rain permit application and issue or deny an Acid Rain permit;
- (2) The owners and operators of each affected source and each affected unit at the source shall:
 - (i) Operate the unit in compliance with a complete Acid Rain permit application or a superseding Acid Rain permit issued by the permitting authority; and
 - (ii) Have an Acid Rain Permit.

Monitoring Requirements.

- (1) The owners and operators and, to the extent applicable, designated representative of each affected source and each affected unit at the source shall comply with the monitoring requirements as provided in 40 CFR parts 74, 75, and 76.
- (2) The emissions measurements recorded and reported in accordance with 40 CFR part 75 shall be used to determine compliance by the unit with the Acid Rain emissions limitations and emissions reduction requirements for sulfur dioxide and nitrogen oxides under the Acid Rain Program.
- (3) The requirements of 40 CFR parts 74 and 75 shall not affect the responsibility of the owners and operators to monitor emissions of other pollutants or other emissions characteristics at the unit under other applicable requirements of the Act and other provisions of the operating permit for the source.

Sulfur Dioxide Requirements.

- (1) The owners and operators of each source and each affected unit at the source shall:
 - (i) Hold allowances, as of the allowance transfer deadline, in the unit's compliance subaccount (after deductions under 40 CFR 73.34(c)) not less than the total annual emissions of sulfur dioxide for the previous calendar year from the unit; and
 - (ii) Comply with the applicable Acid Rain emissions limitations for sulfur dioxide.
- (2) Each ton of sulfur dioxide emitted in excess of the Acid Rain emissions limitations for sulfur dioxide shall constitute a separate violation of the Act.
- (3) An affected unit shall be subject to the requirements under paragraph (1) of the sulfur dioxide requirements as follows:
 - (i) Starting January 1, 2000, an affected unit under 40 CFR 72.6(a)(2); or
 - (ii) Starting on the later of January 1, 2000 or the deadline for monitor certification under 40 CFR part 75, an affected unit under 40 CFR 72.6(a)(3).
- (4) Allowances shall be held in, deducted from, or transferred among Allowance Tracking System accounts in accordance with the Acid Rain Program.
- (5) An allowance shall not be deducted in order to comply with the requirements under paragraph (1)(i) of the sulfur dioxide requirements prior to the calendar year for which the allowance was allocated.
- (6) An allowance allocated by the Administrator under the Acid Rain Program is a limited authorization to emit sulfur dioxide in accordance with the Acid Rain Program. No provision of the Acid Rain Program, the Acid Rain permit application, the Acid Rain permit, or the written exemption under 40 CFR 72.7 and 72.8 and no provision of law shall be construed to limit the authority of the United States to terminate or limit such authorization.
- (7) An allowance allocated by the Administrator under the Acid Rain Program does not constitute a property right.

Nitrogen Oxides Requirements. The owners and operators of the source and each affected unit at the source shall comply with the applicable Acid Rain emissions limitation for nitrogen oxides.

Excess Emissions Requirements.

- (1) The designated representative of an affected unit that has excess emissions in any calendar year shall submit a proposed offset plan, as required under 40 CFR part 77.
- (2) The owners and operators of an affected unit that has excess emissions in any calendar year shall:
 - (i) Pay without demand the penalty required, and pay upon demand the interest on that penalty, as required by 40 CFR part 77; and
 - (ii) Comply with the terms of an approved offset plan, as required by 40 CFR part 77.

Recordkeeping and Reporting Requirements.

- (1) Unless otherwise provided, the owners and operators of the source and each affected unit at the source shall keep on site at the source each of the following documents for a period of 5 years from the date the document is created. This period may be extended for cause, at any time prior to the end of 5 years, in writing by the Administrator or permitting authority:
 - (i) The certificate of representation for the designated representative for the source and each affected unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation, in accordance with 40 CFR 72.24; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such documents are superseded because of the submission of a new certificate of representation changing the designated representative;
 - (ii) All emissions monitoring information, in accordance with 40 CFR part 75;
 - (iii) Copies of all reports, compliance certifications, and other submissions and all records made or required under the Acid Rain Program; and,

Tiger Bay Facility

Plant Name (from Step 1)

Recordkeeping and Reporting Requirements (cont.)

(iv) Copies of all documents used to complete an Acid Rain permit application and any other submission under the Acid Rain Program or to demonstrate compliance with the requirements of the Acid Rain Program.

(2) The designated representative of an affected source and each affected unit at the source shall submit the reports and compliance certifications required under the Acid Rain Program, including those under 40 CFR part 72 subpart I and 40 CFR part 75.

Liability.

(1) Any person who knowingly violates any requirement or prohibition of the Acid Rain Program, a complete Acid Rain permit application, an Acid Rain permit, or a written exemption under 40 CFR 72.7 or 72.8, including any requirement for the payment of any penalty owed to the United States, shall be subject to enforcement pursuant to section 113(c) of the Act.

(2) Any person who knowingly makes a false, material statement in any record, submission, or report under the Acid Rain Program shall be subject to criminal enforcement pursuant to section 113(c) of the Act and 18 U.S.C. 1001.

(3) No permit revision shall excuse any violation of the requirements of the Acid Rain Program that occurs prior to the date that the revision takes effect.

(4) Each affected source and each affected unit shall meet the requirements of the Acid Rain Program.

(5) Any provision of the Acid Rain Program that applies to an affected source (including a provision applicable to the designated representative of an affected source) shall also apply to the owners and operators of such source and of the affected units at the source.

(6) Any provision of the Acid Rain Program that applies to an affected unit (including a provision applicable to the designated representative of an affected unit) shall also apply to the owners and operators of such unit. Except as provided under 40 CFR 72.44 (Phase II repowering extension plans) and 40 CFR 76.11 (NO_x averaging plans), and except with regard to the requirements applicable to units with a common stack under 40 CFR part 75 (including 40 CFR 75.16, 75.17, and 75.18), the owners and operators and the designated representative of one affected unit shall not be liable for any violation by any other affected unit of which they are not owners or operators or the designated representative and that is located at a source of which they are not owners or operators or the designated representative.

(7) Each violation of a provision of 40 CFR parts 72, 73, 74, 75, 76, 77, and 78 by an affected source or affected unit, or by an owner or operator or designated representative of such source or unit, shall be a separate violation of the Act.

Effect on Other Authorities. No provision of the Acid Rain Program, an Acid Rain permit application, an Acid Rain permit, or a written exemption under 40 CFR 72.7 or 72.8 shall be construed as:

(1) Except as expressly provided in title IV of the Act, exempting or excluding the owners and operators and, to the extent applicable, the designated representative of an affected source or affected unit from compliance with any other provision of the Act, including the provisions of title I of the Act relating to applicable National Ambient Air Quality Standards or State Implementation Plans;

(2) Limiting the number of allowances a unit can hold; *provided*, that the number of allowances held by the unit shall not affect the source's obligation to comply with any other provisions of the Act;

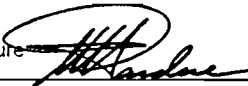
(3) Requiring a change of any kind in any State law regulating electric utility rates and charges, affecting any State law regarding such State regulation, or limiting such State regulation, including any prudence review requirements under such State law;

(4) Modifying the Federal Power Act or affecting the authority of the Federal Energy Regulatory Commission under the Federal Power Act; or,

(5) Interfering with or impairing any program for competitive bidding for power supply in a State in which such program is established.

Certification

I am authorized to make this submission on behalf of the owners and operators of the affected source or affected units for which the submission is made. I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment.

Name W. Jeffrey Pardue, C.E.P.	
Signature 	Date 12/23/97

STEP 5 (optional)
Enter the source AIRS
and FINDS identification
numbers, if known

AIRS
FINDS



Certificate of Representation

For more information, see instructions and refer to 40 CFR 72.24

This submission is: New Revised

This submission includes combustion or process sources under 40 CFR part 74

STEP 1

Identify the source by plant name, State, and, if applicable, ORIS code from NADB.

Plant Name	State	ORIS Code
Tiger Bay Cogeneration Facility	FL	

STEP 2

Enter requested information for the designated representative.

Name	W. Jeffrey Pardue, CEP		
Address	Florida Power Corporation 3201 34th Street South, MAC - H2G St. Petersburg, FL 33711		
Phone Number	(813) 866-4387	Fax Number	(813)866-4926

STEP 3

Enter requested information for the alternate designated representative, if applicable.

Name			
Address			
Phone Number		Fax Number	

STEP 4

Complete Step 5, read the certifications, and sign and date. For a designated representative of a combustion or process source under 40 CFR part 74, the references in the certifications to "affected unit" or "affected units" also apply to the combustion or process source under 40 CFR part 74 and the references to "affected source" also apply to the source at which the combustion or process source is located.

I certify that I was selected as the designated representative or alternate designated representative, as applicable, by an agreement binding on the owners and operators of the affected source and each affected unit at the source.

I certify that I have given notice of the agreement, selecting me as the designated representative or alternate designated representative, as applicable, for the affected source and each affected unit at the source identified in this certificate of representation, daily for a period of one week in a newspaper of general circulation in the area where the source is located or in a State publication designed to give general public notice.

I certify that I have all necessary authority to carry out my duties and responsibilities under the Acid Rain Program on behalf of the owners and operators of the affected source and of each affected unit at the source and that each such owner and operator shall be fully bound by my actions, inactions, or submissions.

I certify that I shall abide by any fiduciary responsibilities imposed by the agreement by which I was selected as designated representative or alternate designated representative, as applicable.

I certify that the owners and operators of the affected source and of each affected unit at the source shall be bound by any order issued to me by the Administrator, the permitting authority, or a court regarding the source or unit.

Where there are multiple holders of a legal or equitable title to, or a leasehold interest in, an affected unit, or where a utility or industrial customer purchases power from an affected unit under life-of-the-unit, firm power contractual arrangements, I certify that:


I have given a written notice of my selection as the designated representative or alternate designated representative, as applicable, and of the agreement by which I was selected to each owner and operator of the affected source and of each affected unit at the source; and

Allowances and the proceeds of transactions involving allowances will be deemed to be held or distributed in proportion to each holder's legal, equitable, leasehold, or contractual reservation or entitlement or, if such multiple holders have expressly provided for a different distribution of allowances by contract, that allowances and the proceeds of transactions involving allowances will be deemed to be held or distributed in accordance with the contract.

Tiger Bay Cogeneration Facility

The agreement by which I was selected as the alternate designated representative, if applicable, includes a procedure for the owners and operators of the source and affected units at the source to authorize the alternate designated representative to act in lieu of the designated representative.

I am authorized to make this submission on behalf of the owners and operators of the affected source or affected units for which the submission is made. I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment.

 Signature (designated representative)	Date 7/14/97
Signature (alternate designated representative)	Date

STEP 5

Provide the name of every owner and operator of the source and each affected unit (or combustion or process source) at the source. Identify the units they own and/or operate by boiler ID# from NADB, if applicable. For owners only, identify each state or local utility regulatory authority with ratemaking jurisdiction over each owner, if applicable.

Name Florida Power Corporation					<input checked="" type="checkbox"/> Owner	<input checked="" type="checkbox"/> Operator
ID# 1	ID#	ID#	ID#	ID#	ID#	ID#
ID#	ID#	ID#	ID#	ID#	ID#	ID#
Regulatory Authorities Florida Public Service Commission						

Name					<input type="checkbox"/> Owner	<input type="checkbox"/> Operator
ID#	ID#	ID#	ID#	ID#	ID#	ID#
ID#	ID#	ID#	ID#	ID#	ID#	ID#
Regulatory Authorities						

Name					<input type="checkbox"/> Owner	<input type="checkbox"/> Operator
ID#	ID#	ID#	ID#	ID#	ID#	ID#
ID#	ID#	ID#	ID#	ID#	ID#	ID#
Regulatory Authorities						



June 23, 2000

Mr. Jonathan Holtom, P.E.
Bureau of Air Regulation
Florida Department of Environmental Protection
2600 Blair Stone Road
Tallahassee, FL 32399-2400

Dear Mr. Holtom:

Re: Package Boiler Permit Application - FPC Tiger Bay Facility

As we discussed, enclosed are four originals of the appropriate pages of a modified construction permit application for the installation of a small, natural gas-fired package steam boiler at Florida Power Corporation's (FPC) Tiger Bay facility. The modification is a reduction in the proposed maximum annual hours of operation from 7,980 to 6,000. The pages affected by this change have been updated accordingly, including the potential annual pollutant emissions.

Please contact me at (727) 826-4334 if you have any questions.

Sincerely,

A handwritten signature in black ink, appearing to read "J. Michael Kennedy", is written in a cursive style.

J. Michael Kennedy, Q.E.P.
Manager, Air Programs

Department of
Environmental Protection

DIVISION OF AIR RESOURCES MANAGEMENT
APPLICATION FOR AIR PERMIT - LONG FORM

I. APPLICATION INFORMATION

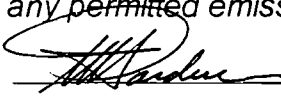
Identification of Facility Addressed in This Application

1. Facility Owner/Company Name : Florida Power Corporation	
2. Site Name : Tiger Bay Facility	
3. Facility Identification Number : 1050223 <input type="checkbox"/> Unknown	
4. Facility Location : Ft. Meade Street Address or Other Locator : 3219 State Road 630 East City : Ft. Meade County : Polk Zip Code : 33841	
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

I. Part 1 - 1

DEP Form No. 62-210.900(1) - Form
Effective : 3-21-96

Owner/Authorized Representative or Responsible Official

1. Name and Title of Owner/Authorized Representative or Responsible Official :	
Name :	W. Jeffrey Pardue, C.E.P.
Title :	Director, Environmental Services
2. Owner or Authorized Representative or Responsible Official Mailing Address :	
Organization/Firm :	Florida Power Corporation
Street Address :	P.O. Box 14042, MAC BB1A
City :	St. Petersburg
State :	FL
Zip Code :	33733
3. Owner/Authorized Representative or Responsible Official Telephone Numbers :	
Telephone :	(727)826-4301
Fax :	(727)826-4216
4. Owner/Authorized Representative or Responsible Official Statement :	
<p><i>I, the undersigned, am the owner or authorized representative* of the non-Title V source addressed in this Application for Air Permit or the responsible official, as defined in Rule 62-210.200, F.A.C., 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 units.</i></p>	
 Signature	<u>6/23/00</u> Date

* Attach letter of authorization if not currently on file.

Scope of Application

Emissions Unit ID	Description of Emissions Unit	Permit Type
004	Natural gas-fired package steam boiler	

**C. EMISSIONS UNIT DETAIL INFORMATION
(Regulated Emissions Units Only)**

Emissions Unit Information Section 1
Natural gas-fired package steam boiler

Emissions Unit Details

1. Initial Startup Date :		
2. Long-term Reserve Shutdown Date :		
3. Package Unit :		
Manufacturer : Cleaver-Brooks		Model Number : DL-94
4. Generator Nameplate Rating :	MW	
5. Incinerator Information :		
Dwell Temperature :		Degrees Fahrenheit
Dwell Time :		Seconds
Incinerator Afterburner Temperature :		Degrees Fahrenheit

Emissions Unit Operating Capacity

1. Maximum Heat Input Rate :	100	mmBtu/hr
2. Maximum Incinerator Rate :	lb/hr	tons/day
3. Maximum Process or Throughput Rate :		
4. Maximum Production Rate :	85000	lbs steam/hr
5. Operating Capacity Comment :		
Heat input capacity is 100 mmBtu/hr. Steam generating capacity is 85,000 lb/hr.		

Emissions Unit Operating Schedule

Requested Maximum Operating Schedule :		
24 hours/day		7 days/week
52 weeks/year		6,000 hours/year

Application Processing Fee

Check one :

Attached - Amount : \$0.00

Not Applicable.

Construction/Modification Information

1. Description of Proposed Project or Alterations :	
Addition of natural gas-fired package steam boiler for providing supplemental steam.	
2. Projected or Actual Date of Commencement of Construction :	01-Jul-2000
3. Projected Date of Completion of Construction :	30-Aug-2000

Professional Engineer Certification

1. Professional Engineer Name : Jennifer A. Stenger Registration Number : 0052125	
2. Professional Engineer Mailing Address :	
Organization/Firm : Florida Power Corporation	
Street Address : P.O. Box 14042, MAC BB1A	
City : St. Petersburg	State : FL Zip Code : 33733
3. Professional Engineer Telephone Numbers :	
Telephone : (727)826-4132	Fax : (727)826-4216

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 pollutant 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.

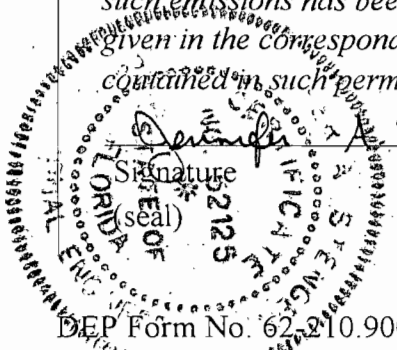
If the purpose of this application is to obtain a Title V source air operation permit (check here [] if so), I further certify that each emissions unit described in this Application for Air Permit, when properly operated and maintained, will comply with the applicable requirements identified in this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

_____ *6/23/00*
Date



Application Contact

1. Name and Title of Application Contact :
Name : J. Michael Kennedy, Q.E.P. Title : Manager, Air Programs
2. Application Contact Mailing Address :
Organization/Firm : Florida Power Corporation Street Address : P.O. Box 14042, MAC BB1A City : St. Petersburg State : FL Zip Code : 33733
3. Application Contact Telephone Numbers :
Telephone : (727)826-4334 Fax : (727)826-4216

Application Comment

This application is for the proposed addition of a natural gas-fired package steam boiler in order to provide a backup steam supply. The heat input capacity of the boiler is 100 mmBtu/hr, which subjects it to 40 CFR Part 60, Subpart Dc.

F. SEGMENT (PROCESS/FUEL) INFORMATION

Emissions Unit Information Section 1

Natural gas-fired package steam boiler

Segment Description and Rate : Segment 1

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) : Natural gas	
2. Source Classification Code (SCC) : 20100201	
3. SCC Units : Million Cubic Feet Burned (all gaseous fuels)	
4. Maximum Hourly Rate : 0.10	5. Maximum Annual Rate : 600.00
6. Estimated Annual Activity Factor :	
7. Maximum Percent Sulfur : 0.00	8. Maximum Percent Ash : 0.00
9. Million Btu per SCC Unit : 1,040	
10. Segment Comment :	

III. Part 8 - 1

G. EMISSIONS UNIT POLLUTANTS
(Regulated and Unregulated Emissions Units)

Emissions Unit Information Section 1
Natural gas-fired package steam boiler

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
1 - SO ₂			EL
2 - NO _X			EL
3 - PM			EL
4 - PM ₁₀			EL
5 - CO			EL
6 - VOC			EL
7 - SAM			EL

III. Part 9a - 1

DEP Form No. 62-210.900(1) - Form
Effective : 3-21-96

H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Emissions Unit Information Section 1

Natural gas-fired package steam boiler

Pollutant Potential/Estimated Emissions : Pollutant 1

1. Pollutant Emitted : SO2	
2. Total Percent Efficiency of Control :	%
3. Potential Emissions :	
0.1400000 lb/hour	0.4200000 tons/year
4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Range of Estimated Fugitive/Other Emissions:	
	to tons/year
6. Emissions Factor 1 Reference : Fuel analysis	Units : gr/100 CF
7. Emissions Method Code : 2	
8. Calculations of Emissions : Assumed max. S content of 1 gr/100 CF and 6000 hours of operation/year.	
9. Pollutant Potential/Estimated Emissions Comment :	

III. Part 9b - 1

H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Emissions Unit Information Section 1

Natural gas-fired package steam boiler

Pollutant Potential/Estimated Emissions : Pollutant 2

1. Pollutant Emitted : NOX		
2. Total Percent Efficiency of Control :	0.00	%
3. Potential Emissions :	10.0000000 lb/hour	30.0000000 tons/year
4. Synthetically Limited?		
<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
5. Range of Estimated Fugitive/Other Emissions:		
	to	tons/year
6. Emissions Factor	0	Units : lb/mmBtu
Reference :	Manufacturer data	
7. Emissions Method Code :	0	
8. Calculations of Emissions :		
	NOx emissions of 0.10 lb/mmBtu from manufacturer data. Annual max. tons of NOx from max. heat input of 100 mmBtu/hr and 6000 hours/year operation.	
9. Pollutant Potential/Estimated Emissions Comment :		

III. Part 9b - 2

DEP Form No. 62-210.900(1) - Form

Effective : 3-21-96

H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Emissions Unit Information Section 1

Natural gas-fired package steam boiler

Pollutant Potential/Estimated Emissions : Pollutant 4

1. Pollutant Emitted : PM10			
2. Total Percent Efficiency of Control :		%	
3. Potential Emissions :		0.8000000 lb/hour	2.4000000 tons/year
4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
5. Range of Estimated Fugitive/Other Emissions:		to	tons/year
6. Emissions Factor 8 Reference : AP-42, nat. gas fire		Units : lb/mmCF	
7. Emissions Method Code : 3			
8. Calculations of Emissions : AP-42 factor for PM (assume all PM is PM10) of 8 lb/mmCF and boiler capacity of 0.10 mmCF/hour. Annual emissions based on hourly rate times 6,000 hours/year.			
9. Pollutant Potential/Estimated Emissions Comment :			

III. Part 9b - 6

H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Emissions Unit Information Section 1

Natural gas-fired package steam boiler

Pollutant Potential/Estimated Emissions : Pollutant 5

1. Pollutant Emitted :	CO	
2. Total Percent Efficiency of Control :	%	
3. Potential Emissions :	8.4000000 lb/hour	25.2000000 tons/year
4. Synthetically Limited?	[] Yes [X] No	
5. Range of Estimated Fugitive/Other Emissions:	to	tons/year
6. Emissions Factor	84	Units : lb/mmCF
Reference :	AP-42	
7. Emissions Method Code :	3	
8. Calculations of Emissions :	AP-42 factor of 84 lb/mmCF and max. nat. gas firing capacity of 0.10 mmCF/hr. Annual emissions from hourly rate times 6,000 hours/year.	
9. Pollutant Potential/Estimated Emissions Comment :		

III. Part 9b - 8

DEP Form No. 62-210.900(1) - Form

Effective : 3-21-96

H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
 (Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Emissions Unit Information Section 1

Natural gas-fired package steam boiler

Pollutant Potential/Estimated Emissions : Pollutant 6

1. Pollutant Emitted : VOC		
2. Total Percent Efficiency of Control :	%	
3. Potential Emissions :	0.6000000 lb/hour	1.8000000 tons/year
4. Synthetically Limited?		
	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Range of Estimated Fugitive/Other Emissions:	to	tons/year
6. Emissions Factor 6	Units : lb/mmCF	
Reference : AP-42		
7. Emissions Method Code :	3	
8. Calculations of Emissions :		
AP-42 factor of 6 lb/mmCF and max. nat. gas firing capacity of 0.10 mmCF/hr. Annual emissions from hourly rate times 6,000 hours/year.		
9. Pollutant Potential/Estimated Emissions Comment :		

Emissions Unit Information Section
Natural gas-fired package steam boiler

1

Pollutant Information Section

1

Allowable Emissions

1

1. Basis for Allowable Emissions Code :	OTHER		
2. Future Effective Date of Allowable Emissions :			
3. Requested Allowable Emissions and Units :	1.00	grain S/100 CF	
4. Equivalent Allowable Emissions :	0.14	lb/hour	0.42 tons/year
5. Method of Compliance :	Fuel analysis		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :	Allowable based on max. sulfur content of 1 gr/100 CF of natural gas.		

Emissions Unit Information Section
Natural gas-fired package steam boiler

1

Pollutant Information Section

2

Allowable Emissions

1

1. Basis for Allowable Emissions Code :	ESCPSD		
2. Future Effective Date of Allowable Emissions :			
3. Requested Allowable Emissions and Units :	0.10	lb/mmBtu	
4. Equivalent Allowable Emissions :	10.00	lb/hour	30.00 tons/year
5. Method of Compliance :	Stack test, EPA Method 20		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :	Based on emission rate of 0.10 lb/mmBtu and 6000 hours/year.		

III. Part 9c - 2

Emissions Unit Information Section
Natural gas-fired package steam boiler

1

Pollutant Information Section

4

Allowable Emissions

1

1. Basis for Allowable Emissions Code :	OTHER		
2. Future Effective Date of Allowable Emissions :			
3. Requested Allowable Emissions and Units :	0.80	lb/hr	
4. Equivalent Allowable Emissions :	0.80	lb/hour	2.40 tons/year
5. Method of Compliance :	VE, EPA Method 9		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :	If VE < 10%, stack test not required.		

III. Part 9c - 5

Emissions Unit Information Section
Natural gas-fired package steam boiler

1

Pollutant Information Section

5

Allowable Emissions

1

1. Basis for Allowable Emissions Code :	OTHER		
2. Future Effective Date of Allowable Emissions :			
3. Requested Allowable Emissions and Units :	8.40	lb/hr	
4. Equivalent Allowable Emissions :	8.40	lb/hour	25.20 tons/year
5. Method of Compliance :	Good combustion practices		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :			

III. Part 9c - - 6

Emissions Unit Information Section
Natural gas-fired package steam boiler

1

Pollutant Information Section

6

Allowable Emissions

1

1. Basis for Allowable Emissions Code :	OTHER		
2. Future Effective Date of Allowable Emissions :			
3. Requested Allowable Emissions and Units :	0.60	lb/hr	
4. Equivalent Allowable Emissions :	0.60	lb/hour	1.80 tons/year
5. Method of Compliance :	Good combustion practices		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :			

III. Part 9c - 7

I. VISIBLE EMISSIONS INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Information Section 1

Natural gas-fired package steam boiler

Visible Emissions Limitation : Visible Emissions Limitation 1

1. Visible Emissions Subtype :	10
2. Basis for Allowable Opacity :	OTHER
3. Requested Allowable Opacity :	
	Normal Conditions : 10 %
	Exceptional Conditions : 0 %
Maximum Period of Excess Opacity Allowed :	min/hour
4. Method of Compliance :	
	Annual compliance test, EPA Method 9
5. Visible Emissions Comment :	
	VE limit under normal conditions at full load.

**I. VISIBLE EMISSIONS INFORMATION
(Regulated Emissions Units Only)**

Emissions Unit Information Section 1

Natural gas-fired package steam boiler

Visible Emissions Limitation : Visible Emissions Limitation 2

1. Visible Emissions Subtype :		
2. Basis for Allowable Opacity :	RULE	
3. Requested Allowable Opacity :		
	Normal Conditions :	%
	Exceptional Conditions :	100 %
	Maximum Period of Excess Opacity Allowed :	60 min/hour
4. Method of Compliance :		
EPA Method 9		
5. Visible Emissions Comment :		
1. Rule 62-210.700. 2. Max. period of excess opacity allowed - 2 hours/24 hours.		

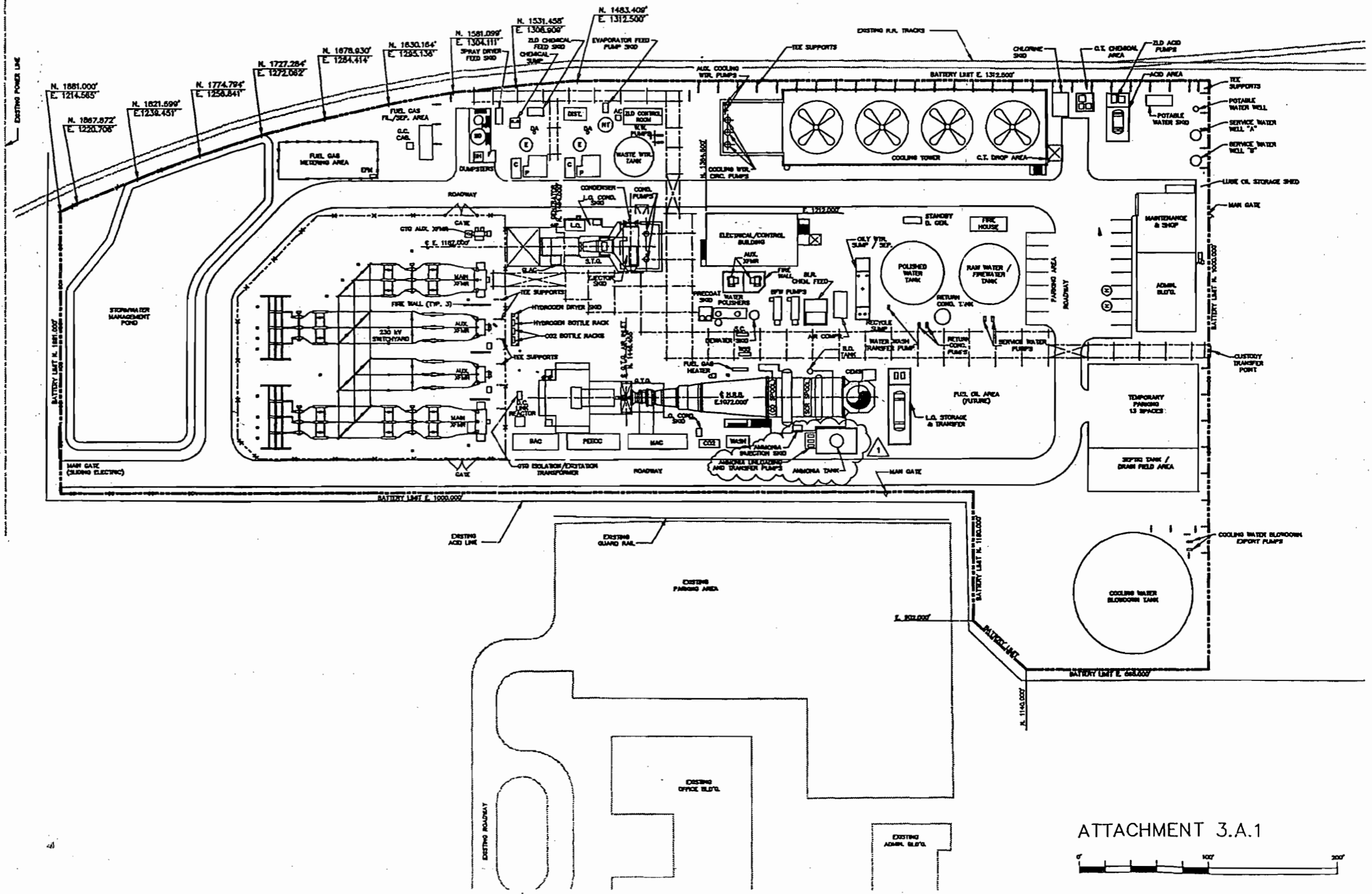
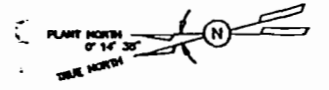


Figure TB-FE-2a

ATTACHMENT 3.A.1



DESIGN CONFIDENTIAL
 Not to be used in the preparation of any other drawings or specifications of any kind without the written consent of DESTEC Engineering, Inc. This plan is the property of DESTEC Engineering, Inc. It shall be, or may be, returned to DESTEC Engineering, Inc.

REFERENCE DRAWINGS	
1253-G-100.01	SITE PLAN
1253-G-104.01	MAJOR AREA KEY PLAN
1253-C-100.01	DETAILED AREA KEY PLAN

NO.	DATE	REVISION	BY	APPROVED	NO.	DATE	REVISION	BY	APPROVED
1	4-23-97	ISSUED FOR B3 FOR SCR ADDITION 1253.00.01	MAL						



TIGER BAY COGEN
 PLOT PLAN
 FOR SCR ADDITION

PROJECT NO.	1253
CUSTOMER	TIGER BAY, LP.
DWG. NO.	1253-G-101.02
REV.	1

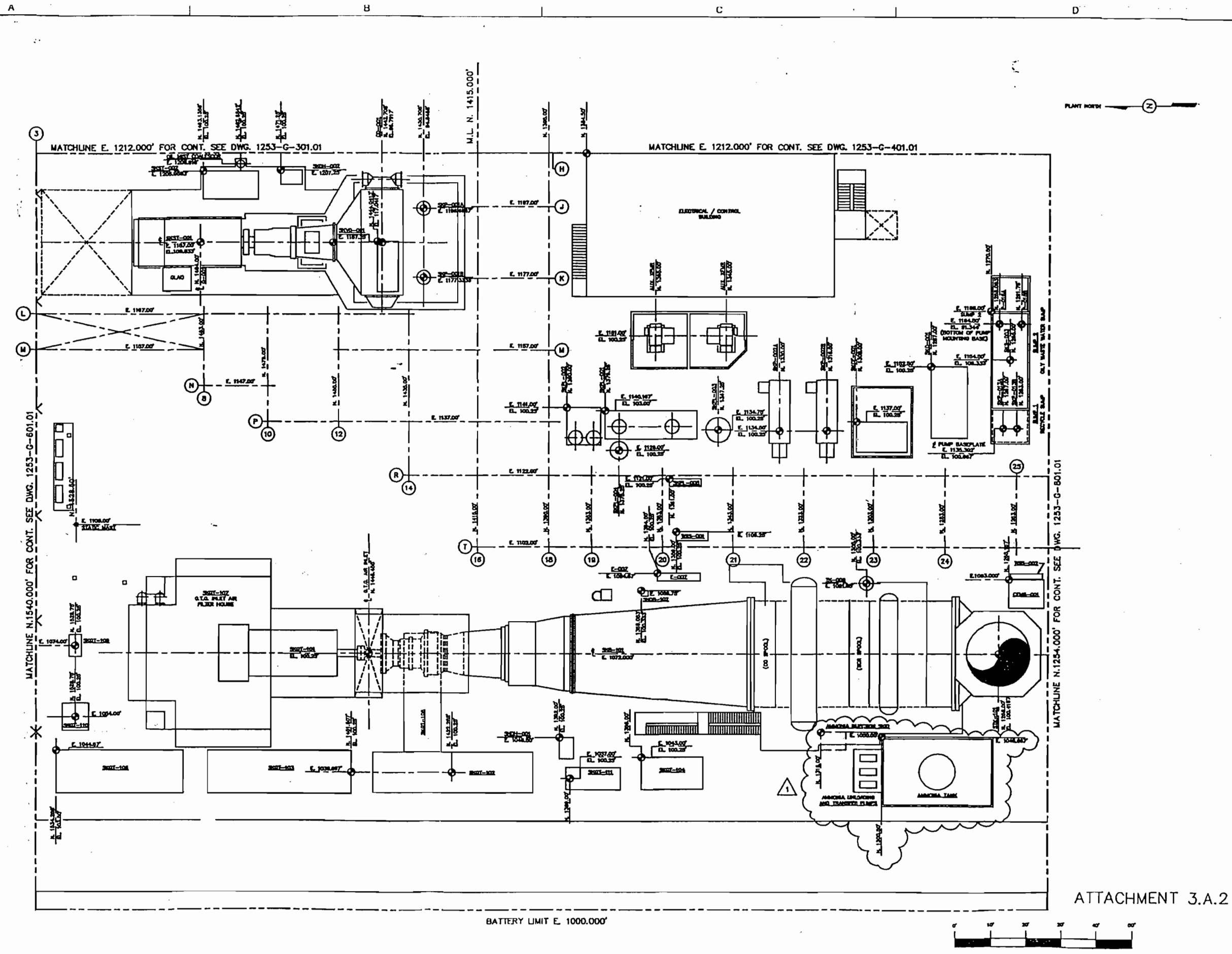


Figure TB-FE-2b

ATTACHMENT 3.A.2

DESIGN CONFIDENTIAL
 Not showing to the property of
 DESTEC Engineering, Inc. All other
 information and representation
 of its, any information derived
 there from, shall be given to others
 without the expressed written
 consent of DESTEC Engineering, Inc.
 No part of this drawing shall be
 used for any purpose other than
 that for which it was prepared
 by DESTEC Engineering, Inc.

REFERENCE DRAWINGS	
1253-G-101.01	PLOT PLAN
1253-G-104.01	MAJOR AREA KEY PLAN
1253-C-700.01	AREA 70 FOUNDATION LOCATION PLAN

NO.	DATE	REVISION	BY	APPROVED	NO.	DATE	REVISION	BY	APPROVED

DESTEC ENGINEERING

TIGER BAY COGEN
 EQUIPMENT LOCATION PLAN AREA 70
 FOR SSB MODIFICATION

PROJECT NO: 1253
 CLIENT: TIGER BAY, LP.
 DATE: 5-3-07

ATTACHMENT TB-FE-14
COMPLIANCE REPORT AND PLAN

ATTACHMENT TB-FE-14
COMPLIANCE PLAN

Tiger Bay Limited Partnership

This attachment presents information on the emission units in this application that provide certification that the emission units are in compliance with the applicable requirements as of the date of the application.

COMBUSTION TURBINE:

In accordance with Chapter 62 - 213, F.A.C., and Tiger Bay's FDEP Permit No. AC53-214903/PSD-FL-190 (as amended) compliance status and requirements are presented herein and listed in the table on the following page.

Initial Compliance Test

The initial compliance test was performed on October 19-23, 1994 to verify that the unit was in compliance. The results of the test is summarized in the submittal of the certificate of completion of construction and was submitted to FDEP in December 1994.

Initial compliance testing for oil-firing has not yet been performed. Such compliance tests will be performed in accordance with Specific Conditions 8, 9, and 10 of AC53-214903 and summarized in the attached table.

Annual Compliance Test

An annual compliance test must be performed to verify compliance with the NO_x and CO requirements while the CT is fired on natural gas.

Compliance with NO_x Emission Limits

The compliance date for the combustion turbine to achieve the NO_x emission limit of 97.2 lb/hr (equivalent to 15 ppmvd corrected to 15% O₂) was revised with Final Permit Amendment No. 1050223-003-AC (PSD-FL-190) to no later than December 31, 1998. Meeting this emission limit will be made with either appropriate combustion technology improvements or selective catalytic reduction (SCR). If SCR is used, the schedule for engineering, procurement, construction, and testing will be complete prior to December 31, 1998.

ZERO LIQUID DISCHARGE (ZLD) SYSTEM:

In accordance with Chapter 62-213 and Tiger Bay's FDEP Permit AC53-230744, the following is the compliance status of the ZLD system.

Initial Compliance Test

The initial compliance test for VE using EPA Method 9 was performed on 8/24/94. The results found zero visible emissions compared with the permitted limit of 5 percent opacity.

Annual Compliance Test

The ZLD is required to perform an annual VE test. In 1995 and during the period through June 15, 1996, the ZLD did not operate. In accordance with Rule 62-297.310(7)(a)3.a., an annual test was not required. A VE test will be performed within 30 days of continued operation of the ZLD.

Combustion Turbine Compliance Values, Reporting, and Test Methods

Compliance Parameter	Compliance Values ^a	Compliance Reporting	Compliance Test Method (EPA)
Run Hours	8760	Annual Operating Report (AOR)	None
Heat Input	1,710 MMBtu/hr	Quarterly and AOR	Fuel Analysis
NO _x	15 ppmvd @ 15% O ₂ ; 97.2 lb/hr ^b ; 425.7 TPY (gas)	Annual Compliance Test ^c ; Quarterly and AOR	20
	25 ppmvd @ 15% O ₂ ; 161.9 lb/hr; 709.1 TPY (gas)	Annual Compliance Test ^c ; Quarterly and AOR	20
	42 ppmvd @ 15% O ₂ ; 326 lb/hr; 48.9 TPY (oil)	Initial Compliance Test ^c and AOR	20
CO	15 ppmvd; 48.8 lb/hr; 213.7 TPY (gas)	Annual Compliance Test ^c and AOR	10
	30 ppmvd; 98.4 lb/hr; 14.8 TPY (oil)	Initial Compliance Test ^c	10
VOC	2.8 lb/hr; 12.3 TPY (gas)	Annual Compliance Test ^c and AOR	18/25A
	7.5 lb/hr; 1.1 TPY (oil)	Initial Compliance Test ^c	18/25A
Visible Emissions (VE)	10% (gas)	Annual Compliance Test ^c and AOR	
	20% (oil)		
PM10	9 lb/hr; 39.4 TPY (gas)	Only Initial Compliance Test required/AOR	5 or 17
	17 lb/hr; 2.6 TPY (oil)	Initial Compliance Test ^c and AOR	201A or 202
SO ₂	4.86 lb/hr; 21.3 TPY (gas)	Annual Compliance Test ^c	Fuel Analysis
	99.7 lb/hr; 15 TPY (oil)	Initial Compliance Test ^c	Fuel Analysis
H ₂ SO ₄	5.95x10 ⁻¹ lb/hr; 26 TPY (gas)	Annual Compliance Test ^c	Fuel Analysis
	1.22 lb/hr; 0.183 TPY (oil)	Initial Compliance Test ^c	Fuel Analysis

Note: Initial testing for Hg, and Be when oil is fired is requested to be deleted from permit per FDEP May 19, 1995 guidance (DARM-PER/GEN-18)

^a The above emission limits are based on baseload conditions @ 27°F.

^b The NO_x maximum limit will be lowered to 97.2 lb/hr (equivalent to 15 ppmv @ 15% O₂) on 12/31/98 using appropriate combustion improvements or SCR.

^c Baseload conditions.

**G. EMISSIONS UNIT POLLUTANTS
(Regulated and Unregulated Emissions Units)**

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
NOX	024	065	EL
SO2			EL
CO			EL
PM10			EL
VOC			EL
SAM			NS

**H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)**

Pollutant Detail Information:

1. Pollutant Emitted: NOX	
2. Total Percent Efficiency of Control:	90 %
3. Potential Emissions:	161.9 lb/hour 709.1 tons/year
4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Range of Estimated Fugitive/Other Emissions: <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 _____ to _____ tons/yr	
6. Emission Factor: 161.9 lb/hr Reference: See Comment	
7. Emissions Method Code: <input checked="" type="checkbox"/> 0 <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5	
8. Calculation of Emissions (limit to 600 characters): Potential-to-emit authorized by FDEP permit AC53-214903/ 1050223-003-AC/PSD-FL-190, as amended (equivalent to 25 ppmvd @ 15% O2).	
9. Pollutant Potential/Estimated Emissions Comment (limit to 200 characters): Emission Factor Ref.: AC53-214903/1050223-AC/PSD-FL-190 as amended. Potential Emissions based on oil (lb/hr) & gas (annual) firing. Maximum lb/hr when firing fuel oil is 326 lb/hr & 48.9 TPY.	

Emissions Unit Information Section 1 of 3
Allowable Emissions (Pollutant identified on front page)

A.

1. Basis for Allowable Emissions Code: OTHER		
2. Future Effective Date of Allowable Emissions:		
3. Requested Allowable Emissions and Units: 161.9 lb/hr*		
4. Equivalent Allowable Emissions:	161.9 lb/hour	709.1 tons/year
5. Method of Compliance (limit to 60 characters): Annual Compliance Test, EPA Method 20 Annual Fuel Usage- AFU		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): *709.1 TPY (equivalent to 25 ppmvd @ 15% O2). Natural gas firing (refer to FDEP Permit AC53-214903 and 1050223-003-AC)		

B.

1. Basis for Allowable Emissions Code: OTHER		
2. Future Effective Date of Allowable Emissions:		
3. Requested Allowable Emissions and Units: 326 lb/hr*		
4. Equivalent Allowable Emissions:	326 lb/hour	48.9 tons/year
5. Method of Compliance (limit to 60 characters): Initial Compliance Test		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): *48.9 TPY (42 ppmvd @ 15% O2) Distillate Fuel-Oil firing which the EU is capable of accommodating. Annual tons/year based on 300 hours/year operation.		

Emissions Unit Information Section 1 of 3
 Allowable Emissions (Pollutant identified on front page)

A.

1. Basis for Allowable Emissions Code: OTHER		
2. Future Effective Date of Allowable Emissions:		
3. Requested Allowable Emissions and Units: 97.2 lb/hr*		
4. Equivalent Allowable Emissions:	97.2 lb/hour	425.7 tons/year
5. Method of Compliance (limit to 60 characters): Annual Compliance Test, EPA Method 20; Annual Fuel Usage		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): *425.7 TPY (equivalent to 15 ppmvd @ 15% O2) FDEP Permit AC53-214903/1050223-003-AC/PSD190. Compliance on or before 12/31/98.		

B.

1. Basis for Allowable Emissions Code: RULE		
2. Future Effective Date of Allowable Emissions:		
3. Requested Allowable Emissions and Units:		
4. Equivalent Allowable Emissions:	lb/hour	tons/year
5. Method of Compliance (limit to 60 characters): Quarterly Report		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): Excess Emissions allowed by Rule 62-210.700(1) for startup, shutdown and malfunction up to 2 hrs/24 hrs.		

ATTACHMENT TB-EU1-L3

DETAILED DESCRIPTION OF CONTROL EQUIPMENT

ATTACHMENT TB-EU1-L3
DETAILED DESCRIPTION OF CONTROL EQUIPMENT

The General Electric (GE) PG 7221 FA uses dry low-NO_x combustion to control NO_x emissions resulting from the combustion of natural gas. The control of NO_x is accomplished by reducing the flame temperatures through the use of staged combustion techniques. At lower loads, the combustors operate in a diffusion mode with lean mixtures of air and gas. At higher loads, the combustors operate in a premix mode where gas and air are mixed prior to combustion. When fuel oil is fired, NO_x emissions are controlled by water injection. Although not yet operated with oil firing, the water to fuel ratio for this machine is 1.2 at 72°F, based on data provided in the original air construction application. The control systems for the machine when firing natural gas and oil are internal to GE's digital control systems (DCS).

To achieve the NO_x emissions of 97.2 lb/hr (equivalent to 15% O₂), selective catalytic reduction (SCR) may be used. SCR reduces NO_x emissions by injection of ammonia into turbine exhaust flow upstream of a catalyst operating in temperatures ranging from 600 to 750°F. The ammonia reacts with NO_x to form nitrogen and water. In a combined cycle plant this temperature range is achieved within the heat recovery steam generator (HRSG). During the construction of the HRSG and as required by Specific Condition 15a of the original FDEP construction permit, a module was added to the HRSG to install SCR if required to meet the lower NO_x limit. At this time the SCR vendor has not been determined from a bidding process. A representative design used in budgetary estimates is included with this attachment.

MESSRS. SARGENT & LUNDY
TECHNICAL SPECIFICATION
OF
DRY SELECTIVE CATALYTIC NOx REMOVAL SYSTEM
FOR
TIGER BAY/POLK COUNTY

SPEC. NO. LAK1080

Jun. 29, 1996



MITSUBISHI HEAVY INDUSTRIES, LTD.

27-103

07/01/98

12:15

714 640 6945

MBIA LOS ANGELES

004

4

S1. GENERAL DESCRIPTION

This specification covers the design specification and scope of supply for MITSUBISHI Ery Selective NOx Removal system(s).

1. NOx Removal Performance

Offered SCR system is designed to achieve the performance described in section 2 "TECHNICAL SPECIFICATION" and/or performance requirements of Buyer's data sheets as attached except where stated otherwise in this specification.

2. Scope of Supply

Any item which is not shown in this specification means Mitsubishi's Out of Scope.

S 2 TECHNICAL SPECIFICATION

1. SCR SYSTEM SPECIFICATION

- Type of Catalyst : HOMOGENEOUS HONEYCOMB TYPE
- Nos. of SCR System : 1
- Flue Gas Source : CTG/GE 7F
- Main Fuel Considered for SCR Design : NG
- Supplementary Firing : N/A
- Fuel of Supplementary Firing :

2. REACTOR INLET FLUE GAS CONDITION

- Performance Case : 1
- Flue Gas Flow Rate (Cb/Hr) : 3264000
- Flue Gas Temperature Low (°F) : 630
- Flue Gas Temperature High (°F) : 630
- Flue Gas Main Component (VOL%)
- N₂ : 73.74
- O₂ : 12.52
- H₂O : 2.14999
- CO₂ : 3.71
- Ar : .88

- Other Flue Gas Component
- Particulate (Lb/Hr) : 6
- SO₂ (ppmvd, @ 15%O₂) : 6
- SO₃ (ppmvd, @ 15%O₂) : 6
- NO_x (ppmvd, @ 15%O₂) : 25

3. SCR PERFORMANCE DATA

(items marked show warranty values)

- Catalyst life (Years) : 3
- NO_x Removal Performance
- NO_x Removal Efficiency (%) : 40
- SCR Outlet NO_x (ppmvd, @ 15%O₂) : 15
- Slip NH₃ (ppmvd, @ 15%O₂) : 10
- Gas Side Pressure Drop (Inches WC) : 2 ← 2" JP

4. PREDICTED OTHER DATA

- Ammonia Consumption (Lb/Hr) : 171.2
- (25 % AQUEOUS AMMONIA)

BEST AVAILABLE COPY

07/01/98 12:16

714 640 6945

MHIA LOS ANGELES

006

5. LIMITATION ON OPERATION

- Heat Resistance Temperature of Catalyst (°F) : 750
- Minimum Temperature to Inject Ammonia (°F) : 520

5. OVERALL HOUSING DIMENSION

- Interface Dimensions at Reactor Inlet and/or Outlet
(Housing or Duct Internal Dimension)
W × H = 27'-4 1/4" × 65'-7 1/4"
- Gas Pass Dimensions of Boiler Side at Upstream of Reactor (ASSUMED)
W × H = 27'-4 1/4" × 56'-9"

Reactor Internal Dimensions 6'-9 7/8"
W × H × L = 26'-9" × 55'-9" × ~~3'-0"~~

NOTE 1. Items marked "*" show(s) MHI's assumption value(s).
Please let us know these data immediately to design properly.

2. There shall be no warranty owing to any causes or circumstances beyond control of this system including improper plant operation over this specification, or fly of abnormal flammable, fragmental insulation or rust from upstream equipments.
3. Initial loading of catalyst modules shall be conducted after complete starting-up adjustment of plant.
4. Minimum temperature to inject ammonia is defined by SO3 concentration which is shown above.

5. Materials

- Catalyst Module Frame	Carbon Steel
- SCR Housing	
Casing & Structure	Carbon Steel
Inner Liner	12GA Carbon Steel
Insulation/Mineral Wool	3" t
Insulation/Ceramic Fiber	0" t
- AIG	Carbon Steel
- Ammonia Injection System	Carbon Steel

6. Shipping Condition

Module size for SCR Housing should be decided the largest one under following Transportation Limit.

Maximum Legal Load with permits not Regarding Escorts.
12'-0" wide × 15'-0" overall height.

1. NO2 in NOx
NO2/NOx ratio at SCR inlet shall be less than 50%.

S.3. SCOPE OF SUPPLY

SCOPE OF SUPPLY SHEET (1/3)

ITEM	BY MHI		BY OTHERS	OUT OF SCOPE
	BASE	OPTION		
1. DESIGN				
1.1 BASIC DESIGN	<input type="radio"/>			
1.2 DETAIL DESIGN FOR CATALYST MODULE	<input type="radio"/>			
1.3 DETAIL DESIGN FOR SCR HOUSING	<input type="radio"/>			
1.4 DETAIL DESIGN FOR NH3 INJECTION SYSTEM	<input type="radio"/>			
1.5 CONTROL LOGIC	<input type="radio"/>			
1.6 INSTRUCTION MANUAL (10 SETS)	<input type="radio"/>			
1.7 PE STAMP			<input type="radio"/>	
2. CATALYST				
2.1 CATALYST MODULES (TO BE INITIALLY INSTALLED)	<input type="radio"/>			
2.2 FUTURE CATALYST MODULES				<input type="radio"/>
3. SCR HOUSING				
3.1 SCR HOUSING w/INTERNAL INSULATIONS (INCLUDE SUPPORTS STRUCTURES FOR CATALYST MODULES & SCR HOUSING)	<input type="radio"/>			
3.2 INLET & OUTLET TRANSITIONS w/INTERNAL INSULATIONS	<input type="radio"/>			
3.3 AIG SUPPORT DUCT			<input type="radio"/>	
3.4 SPACE FOR FUTURE CATALYST MODULES				<input type="radio"/>
3.5 HOIST & MONORAIL w/SUPPORT STRUCTURES		<input type="radio"/>		
3.6 INTERNAL PLATFORM w/LADDERS				<input type="radio"/>
3.7 EXTERNAL PLATFORM FOR CATALYST LOADING HATCH			<input type="radio"/>	
3.8 ACCESS DOORS (2 SETS)	<input type="radio"/>			
3.9 INSTRUMENT OR SAMPLING TAPS (10 SETS)	<input type="radio"/>			
3.10 SLIDE PLATES FOR FOUNDATION			<input type="radio"/>	
3.11 FOUNDATION BOLTS			<input type="radio"/>	
3.12 THERMOCOUPLE (0 SETS)			<input type="radio"/>	
3.13 DIFFERENTIAL PRESSURE INDICATOR (0 SETS)				<input type="radio"/>
3.14 DRAINAGE (2 SETS)	<input type="radio"/>			
3.15 EXPANSION JOINT			<input type="radio"/>	
4. AMMONIA INJECTION GRID (AIG)				
4.1 AIG PIPES w/INJECTION NOZZLES	<input type="radio"/>			
5. AMMONIA ADJUSTMENT HEADER (2 SETS)				
5.1 HEADER w/CONNECTING PIPES	<input type="radio"/>			
5.2 FLOW CONTROL DAMPERS (MANUAL)	<input type="radio"/>			
5.3 FLOW ORIFICES	<input type="radio"/>			
5.4 MANOMETERS w/ISOLATION VALVES	<input type="radio"/>			
5.5 PRESSURE INDICATOR	<input type="radio"/>			
5.6 TEMPERATURE INDICATOR	<input type="radio"/>			
5.7 THERMOCOUPLE	<input type="radio"/>			
5.8 DRAIN VALVE	<input type="radio"/>			
5.9 INSULATION			<input type="radio"/>	
5.10 SUPPORT LEGS				<input type="radio"/>

BEST AVAILABLE COPY

07/01/95 12:17 0714 640 6945

MBIA LOS ANGELES

008

8

SCOPE OF SUPPLY SHEET (2/3)

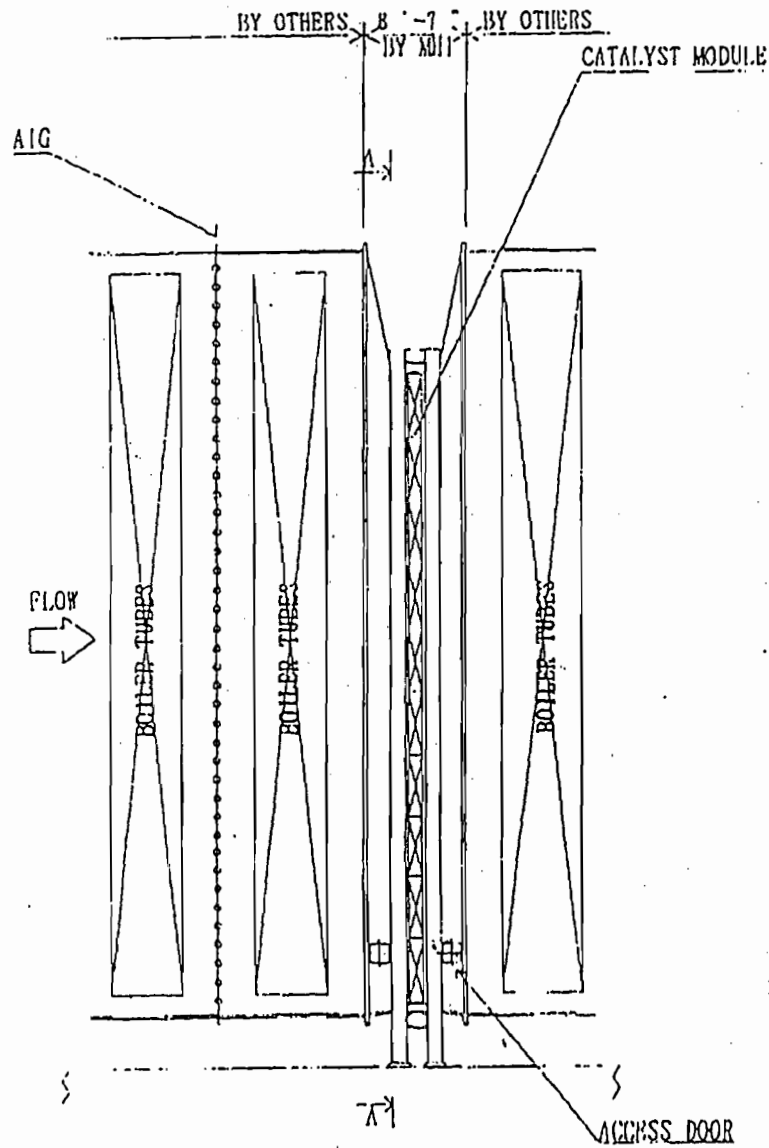
ITEM	BY MHI		BY OTHERS	OUT OF SCOPE
	BASE	OPTION		
6. AQUEOUS AMMONIA FLOW CONTROL SKID (ELECTRIC AIR HEATER TYPE)				
6.1 DILUTION AIR FANS w/MOTORS, FILTERS & SILENCERS (100% CAPACITY x 2 SETS)		<input type="radio"/>		
6.2 DILUTION AIR PIPING DAMPERS		<input type="radio"/>		
6.3 DILUTION AIR FLOW ORIFICE & TRANSMITTER		<input type="radio"/>		
6.4 ELECTRIC AIR HEATER w/HEATER CONTROL PANEL		<input type="radio"/>		
6.5 AMMONIA VAPORIZER w/AIR ATOMIZING NOZZLE		<input type="radio"/>		
6.6 AQUEOUS AMMONIA PIPING & VALVES		<input type="radio"/>		
6.7 AQUEOUS AMMONIA FLOW ORIFICE & TRANSMITTER		<input type="radio"/>		
6.8 AQUEOUS AMMONIA FLOW CONTROL VALVE		<input type="radio"/>		
6.9 AQUEOUS AMMONIA FLOW SHUT-OFF VALVE		<input type="radio"/>		
6.10 AQUEOUS AMMONIA STRAINER		<input type="radio"/>		
6.11 ATOMIZING AIR PIPING & VALVES		<input type="radio"/>		
6.12 ATOMIZING AIR FLOW SHUT-OFF VALVE		<input type="radio"/>		
6.13 ATOMIZING AIR PRESSURE CONTROL VALVE		<input type="radio"/>		
6.14 ATOMIZING AIR PRESSURE LOW SWITCH		<input type="radio"/>		
6.15 ATOMIZING AIR FILTER		<input type="radio"/>		
6.16 INSTRUMENT AIR PIPING & VALVES		<input type="radio"/>		
6.17 JUNCTION BOX		<input type="radio"/>		
6.18 INSULATIONS		<input type="radio"/>		
7. AQUEOUS AMMONIA STORAGE FACILITY				
7.1 AQUEOUS AMMONIA STORAGE TANK (10,000 Gallon)		<input type="radio"/>		
7.2 AQUEOUS AMMONIA PUMP SKID		<input type="radio"/>		
8. EXTERNAL PIPE				
8.1 DILUTED NH3 PIPING w/EXPANSION JOINT (SKID - HEADER) 50ft		<input type="radio"/>		
8.2 SUPPORTS FOR DILUTED NH3 PIPING		<input type="radio"/>		
8.3 INSULATIONS FOR DILUTED NH3 PIPING			<input type="radio"/>	
8.4 AMMONIA DISTRIBUTION PIPING w/EXPANSION JOINTS (HEADER - AIG) 400 ft		<input type="radio"/>		
8.5-SUPPORTS FOR AMMONIA DISTRIBUTION PIPING		<input type="radio"/>		
8.6 INSULATIONS FOR AMMONIA DISTRIBUTION PIPING			<input type="radio"/>	
8.7 AQUEOUS AMMONIA PIPING (PUMP - SKID)			<input type="radio"/>	
8.8 SUPPORTS FOR AQUEOUS AMMONIA PIPING			<input type="radio"/>	
9. CONTROL & ELECTRICAL SYSTEM				
9.1 MOTOR CONTROL CENTER			<input type="radio"/>	
9.2 POWER SUPPLY OF ELECTRICAL EQUIPMENT			<input type="radio"/>	

SCOPE OF SUPPLY SHEET (3/3)

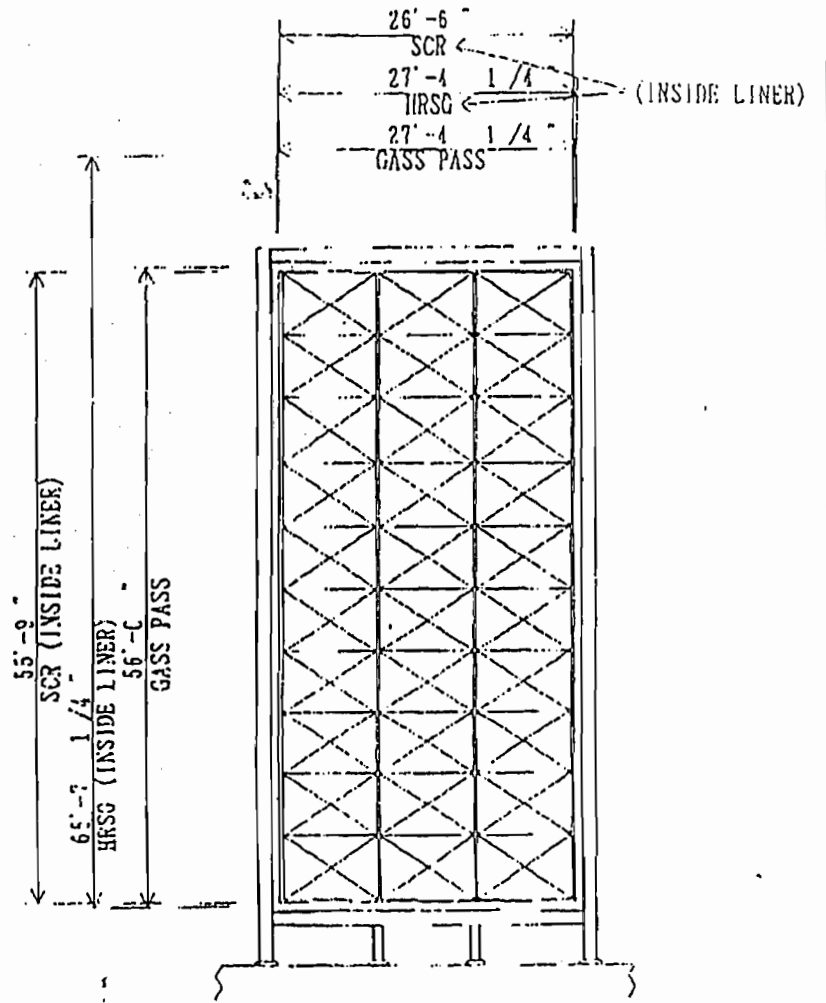
ITEM	BY MH1		BY OTHERS	OUT OF SCOPE
	BASE	OPTION		
10. SCR INLET NOx/O2 ANALYZER				
10.1 ANALYZER (NOIR TYPE)		<input type="radio"/>		
10.2 HEATED SAMPLING LINE (LENGTH: 80 FEET)		<input type="radio"/>		
10.3 CEM SYSTEM			<input type="radio"/>	
11. SCR OUTLET NOx/NH3 ANALYZER				
11.1 ANALYZER w/PROBE			<input type="radio"/>	
11.2 HEATED SAMPLING LINE (LENGTH: FEET)			<input type="radio"/>	
11.3 CEM SYSTEM			<input type="radio"/>	
12. SURFACE PREPARATION (ACCORDING TO SSPC - SP6)				
12.1 SCR HOUSING (OUTSIDE OF OUTER CASING ONLY)	<input type="radio"/>			
12.2 AIG PIPES	<input type="radio"/>			
12.3 AMMONIA ADJUSTMENT HEADER	<input type="radio"/>			
12.4 AMMONIA FLOW CONTROL SKID	<input type="radio"/>			
12.5 EXTERNAL PIPES			<input type="radio"/>	
13. PRIMER				
13.1 SCR HOUSING (OUTSIDE OF OUTER CASING ONLY)	<input type="radio"/>			
13.2 AIG PIPES				<input type="radio"/>
13.3 AMMONIA ADJUSTMENT HEADER	<input type="radio"/>			
13.4 AMMONIA FLOW CONTROL SKID	<input type="radio"/>			
13.5 EXTERNAL PIPES			<input type="radio"/>	
14. FINISH PAINTING				
14.1 SCR HOUSING (OUTSIDE OF OUTER CASING ONLY)			<input type="radio"/>	
14.2 AIG PIPES				<input type="radio"/>
14.3 AMMONIA ADJUSTMENT HEADER			<input type="radio"/>	
14.4 AMMONIA FLOW CONTROL SKID			<input type="radio"/>	
14.5 EXTERNAL PIPES			<input type="radio"/>	
15. FIELD WORK				
15.1 FOUNDATIONS			<input type="radio"/>	
15.2 ERECTION			<input type="radio"/>	
15.3 SETTING CATALYST MODULES			<input type="radio"/>	
15.4 START-UP SCR SYSTEM			<input type="radio"/>	
15.5 PERFORMANCE TEST			<input type="radio"/>	
15.6 FIELD PAINT & TOUCH-UP PAINTING			<input type="radio"/>	
16. SUPERVISORY SERVICE				
16.1 ERECTION		<input type="radio"/>		
16.2 SETTING CATALYST MODULES		<input type="radio"/>		
16.3 START-UP SCR SYSTEM		<input type="radio"/>		
16.4 PERFORMANCE TEST		<input type="radio"/>		

§ 3 ATTACHMENT

1. P & I DIAGRAM FOR SCR SYSTEM
(STANDARD DRAWING)
2. SUPPLEMENTARY P & I DIAGRAM
3. GENERAL VIEW OF REACTOR
4. SPECIFIED PERFORMANCE SHEET(S)
5. DATA SHEET(S)
6. EXCEPTION & CLARIFICATION



SIDE VIEW



SECTION A-A

GENERAL VIEW OF SCR HOUSING
LA10800

07.01/98 12:20 0714 610 6945

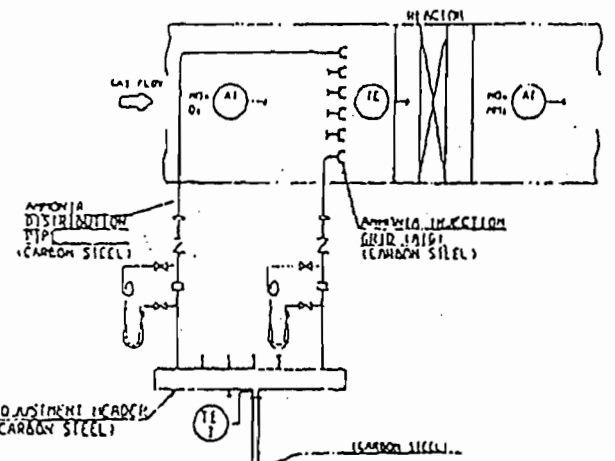
MPIA LOS ANGELES

N59-0004

012

1 2 3 4 5

A B C D



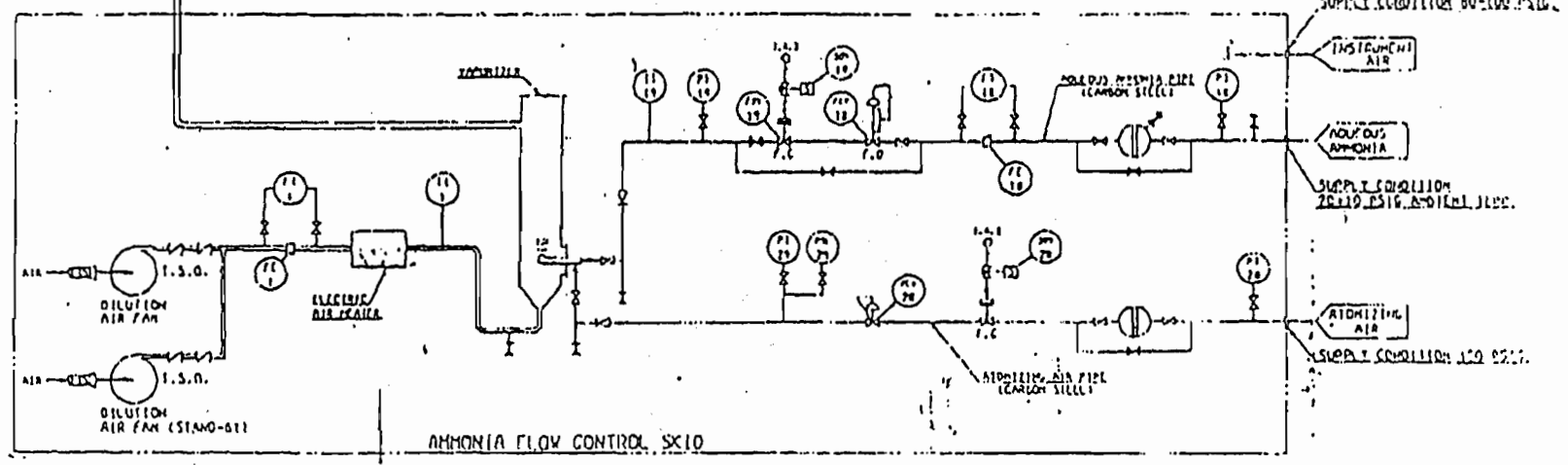
SYMBOL	EXPLANATION
FCV	FLOW CONTROL VALVE
FSV	FLOW SHUT OFF VALVE
PCV	PRESSURE CONTROL VALVE
SOV	SOLENOID VALVE
TE	TEMPERATURE
PI	PRESSURE INDICATOR
FE	FLOW ELEMENT (ORIFICE)
AI	ANALOG INDICATOR
PSL	PRESSURE SWITCH (LOW)
TI	TEMPERATURE INDICATOR
PI	PRESSURE INDICATOR
DPI	DIFF. PRESS. INDICATOR
I.A.S.	INSTRUMENT AIR SUPPLY
F.C.	FAILURE CLOSED
F.O.	FAILURE OPEN
F.S.O.	FIELD SHUT OFF

SYMBOL	EXPLANATION
FCV	FLOW CONTROL VALVE
FSV	FLOW SHUT OFF VALVE
PCV	PRESSURE CONTROL VALVE
SOV	SOLENOID VALVE
TE	TEMPERATURE
PI	PRESSURE INDICATOR
FE	FLOW ELEMENT (ORIFICE)
AI	ANALOG INDICATOR
PSL	PRESSURE SWITCH (LOW)
TI	TEMPERATURE INDICATOR
PI	PRESSURE INDICATOR
DPI	DIFF. PRESS. INDICATOR
I.A.S.	INSTRUMENT AIR SUPPLY
F.C.	FAILURE CLOSED
F.O.	FAILURE OPEN
F.S.O.	FIELD SHUT OFF

NO.	DESCRIPTION	DATE	BY	CHKD	APP'D
1	REVISION				
2	REVISION				
3	REVISION				
4	REVISION				
5	REVISION				
6	REVISION				
7	REVISION				
8	REVISION				
9	REVISION				
10	REVISION				
11	REVISION				
12	REVISION				
13	REVISION				
14	REVISION				
15	REVISION				
16	REVISION				
17	REVISION				
18	REVISION				
19	REVISION				
20	REVISION				

PLAN RECORD
 SO
 ELECTRIC SUPPLY THEORY

NOTES
 1. PIPE SIZE SCHEDULE
 2. OR. ICSS 80
 3. NONE THAN 2" STANDARD
 4. CONCERNING THIS SCOPE
 OF SUPPLY RELEASE REFER
 TO SCOPE OF SUPPLY
 SYSTEMS



PROJECT NO.	N59-0004	DESIGNING SECTION	STANDARD DRAWING
AT SITE		DESIGNED BY	P & I DIAGRAM FOR SCR SYSTEM
CHECKED BY		DRAWN BY	(ANODES AMMONIA ELECTRIC HEATER TYPE)
DATE		DATE	
DESK		INCH	
		SCALE	AS SHOWN (E.A.R.)
			N59-0004



BEST AVAILABLE COPY

Department of Environmental Protection

Lawton Chiles
Governor

Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Virginia B. Wetherell
Secretary

January 8, 1997

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. Jeffrey J. Fassett
Senior Plant Engineer
DESTEC / Tiger Bay Limited Partnership
3219 State Road 630 West
Fort Meade, Florida 33841

Re: FINAL Permit Amendment No. 1050223-003-AC (PSD-FL-190)
Tiger Bay Cogen, Combined Cycle Unit

Dear Mr. Fassett:

The Department has reviewed DESTEC / Tiger Bay's October 23 letter requesting an amendment to its permit to extend the compliance date for achievement of the 15 parts per million nitrogen oxides (15 ppm NOx) emission limit. This request is acceptable and the permit is hereby amended as follows:

Specific Condition 15(a)

FROM: For this turbine, if the 15 (gas)/42 (oil) ppmvd, corrected to 15% O₂ emission rates cannot be met by 12/31/97, SCR or other control technology will be installed. Hence the permittee shall install a duct module suitable for future installation of SCR equipment.

TO: The NOx maximum emission limit of 97.2 pounds per hour (equivalent to 15 ppm @ 15% O₂) firing gas/326 pounds per hour (equivalent to 42 ppm @ 15% O₂) firing distillate fuel oil will be achieved not later than 12/31/98 using appropriate combustion technology improvements or SCR.

Table 1, Footnote B

FROM: The NOx maximum limit will be lowered to 97.2 (lbs/hr) equivalent to 15 ppmvd @ 15% O₂ not later than 12/31/97 using appropriate combustion technology improvements or SCR.

TO: The NOx maximum emission limit of 97.2 pounds per hour (equivalent to 15 ppm @ 15% O₂) will be achieved not later than 12/31/98 using appropriate combustion technology improvements or SCR.

A copy of this letter shall be filed with the referenced permit and shall become part of the permit.

Sincerely,

Howard L. Rhodes, Director
Division of Air Resources Management

HLR/aal/hh

Enclosures
1253. Permit Book
1253. 2.2.5.1.1

"Protect, Conserve and Manage Florida's Environment and Natural Resources"

Printed on recycled paper.

1253.2.1.1.2.1.2

7B 201-112

BEST AVAILABLE COPY

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
NOTICE OF FINAL PERMIT AMENDMENT

In the Matter of an
Application for Permit Amendment

Mr. Jeffrey M. Keenan
DESTEC Energy, Inc.
Post Office Box 4411
Houston, Texas 77210-4411

DEP File No. 1050223-003-AC
PSD-FL-190

Enclosed is a letter that amends Permit Number PSD-FL-190. This letter amends Specific Condition No. 15(a) to extend the 15 ppm NOx compliance date from December 31, 1997 to December 31, 1998. This permit amendment is issued pursuant to Section 403, Florida Statutes.

Any party to this order (permit) has the right to seek judicial review of the permit pursuant to Section 120.68, F.S., by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the Department in the Legal Office; and by filing a copy of the Notice of Appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The Notice of Appeal must be filed within 14 (fourteen) days from the date this Notice is filed with the Clerk of the Department.

Executed in Tallahassee, Florida.


C.H. Fancy, P.E., Chief
Bureau of Air Regulation

CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this NOTICE OF FINAL PERMIT AMENDMENT (including the FINAL permit amendment) was sent by certified mail (*) and copies were mailed by U.S. Mail before the close of business on 1-8-97 to the person(s) listed:

Mr. Jeffrey M. Keenan, DESTEC *
Mr. Jeffrey J. Fassett, DESTEC *
Mr. Brian Beals, EPA
Mr. John Bunyak, NPS
Mr. Bill Thomas, SWD
Mr. Roy Harwood, Polk County

Clerk Stamp

FILING AND ACKNOWLEDGMENT FILED, on this date,
pursuant to §120.52(7), Florida Statutes, with the designated
Department Clerk, receipt of which is hereby acknowledged.


(Clerk) 1-8-97
(Date)

JAN 14 1997

FINAL DETERMINATION

DESTEC / Tiger Bay Cogen

Amendment of Permit No. 1050223-003-AC
Tiger Bay Cogen Combined Cycle Unit

An Intent to Issue an air construction permit amendment for DESTEC / Tiger Bay Limited Partnership, Tiger Bay Cogen Combined Cycle Unit located five miles west of Ft. Meade, Polk County was distributed on November 21, 1996. The Notice of Intent was published in the The Ledger of Lakeland, Polk County on December 2, 1996. Comments were not submitted in response to the public notice. DESTEC recommended a clarification in Specific Condition No. 15(a) as to the final NO_x limits while firing distillate fuel oil. It is consistent with limit of 42 ppm given elsewhere in the permit.

The final action of the Department will be to issue the permit amendment as proposed, except with the clarification cited by DESTEC.

ATTACHMENT TB-EU3-B6
EMISSIONS UNIT COMMENT

FUGITIVE/DEMINIMIS/TRIVIAL ACTIVITIES LIST

Title V Permitting, Tiger Bay Limited Partnership, Ft. Meade, Florida

Area	Emission Unit Description	Type/ Pollutant	Status (a)
CT Turbine Area	Condenser Pumps (2)	Fugitive	TR
	Condenser	Vent	TR
	Lube Oil Reservoir (700 gal) (Mist Eliminator)	Vent/VOC	UR
	Turbine/Generator Fire System (CO ₂ , 6 ton capacity)	Fugitive	ER
	Turbine Cooling Air	Vent	TR
	Various Pumps (sumps, condensate, etc.)	Fugitive	TR
	Miscellaneous Drains Tank	Vent	TR
	Generator H ₂ /CO ₂ System	Fugitive	TR
	Hydraulic Equipment	Fugitive	TR
	Natural Gas Release Valve	Vent	TR
	Ammonia Unloading (aqueous)	Fugitive	UR
	Ammonia Tank (aqueous)	Vent	UR
	Ammonia Slip (vaporizers)	Fugitive	UR
HRSG	Natural Gas Release Valve	Vent	TR
	Various Steam Vents & Pressure Relief Valves	Vents	TR
	Turbine Wash System	Vent	TR
	HP Steam Vent	Vent	TR
	Blowdown Quench Tank	Vent	TR
	Various Pumps (feedwater, and chemical feed)	Fugitive	TR
Boiler Chemical Feed Skid	Conquor 3583 Tank 1 @ 2755 lb	Vent	TR
	Burolock HP 06 Tank 1 @ 3200 lb	Vent	TR
	Conquor 3475 Tank 1 @ 2790 lb	Vent	TR

FUGITIVE/DEMINIMIS/TRIVIAL ACTIVITIES LIST

Title V Permitting, Tiger Bay Limited Partnership, Ft. Meade, Florida

Area	Emission Unit Description	Type/ Pollutant	Status (a)
General Site	Boiler Feed Water Pumps (2)	Fugitive	TR
	Brazing, Soldering or Welding	Fugitive	ER
	Plant Grounds Maintenance	Fugitive	TR
	Routine Maintenance	Fugitive	TR
	Oil/Water Separator	Fugitive	TR
	CEM Equipment & Calibration Gas Venting	Fugitive	TR
	Air Compressed System	Vent	TR
	Non-Halogenated Solvent	Fugitive	ER
	Portable Maintenance Equipment Diesel Engine	Stack	UR/ER
	Steam Line to customer(4 in Vent)	Vent	TR
Lube Oil storage tank (9,500 gal)(TK-010)	Vent	UR	
Substation	Transformers and Associated Equipment (5 transformers) (MT-001,MT-002, AT-001A & B, AT-003)	Fug./VOC	TR
Parking Lot	Vehicles	Exhausts	ER
	Vehicles	Fugitive	UR

(a) TR = Trivial (as provided by FDEP policy memorandum dated April 19, 1996 DARM-PER/V-15).

ER = Exempt by Rule 62-210.300(3)(a).

UR = Unregulated.