

Department of Environmental Protection

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

Virginia B. Wetherell Secretary

August 18, 1994

Mr. Robert S. Chatham, P.E. Destec Energy, Inc. P.O. Box 4411 Houston, Texas 77210-4411

RE: Custom Fuel Monitoring Schedule Request Tiger Bay Cogeneration Facility AC 53-214903 [PSD-FL-190]

Dear Mr. Chatham:

Thank you for your letter dated August 3, 1994 and the attached documents. Comments concerning the letter and attached documents are as follows:

- 1) Pursuant to Rules 17-4.050(4) and (5), F.A.C., the Department must receive the proper processing fee before action is taken on an applicant's request. The Department will begin processing the subject request once a fee of \$250.00 has been received.
- 2) Please clarify that the data submitted on the sulfur content of the fuel were for the pipeline that supplies the turbine at Tiger Bay, without intermediate bulk storage.
- 3) Please provide the test(s) or analysis method(s) used to determine the sulfur content of the fuel referenced in your letter and in Table 1. Also, provide supporting documentation from the vendor. In addition, please provide any additional sulfur analysis data that is available for the past two years with supporting documentation and method(s) of determining sulfur content.
- 4) EPA has delegated authority for implementation of 40 CFR 60, Subpart GG, to the Department. The Department and EPA agree that all future requests be submitted to the Department and not EPA. The Department will then coordinate with EPA for approval of custom fuel monitoring schedules.
- 5) If available, please provide any information to substantiate that the fuel sampling location for the sulfur

Mr. Robert Chatham Permit Amendment Request AC 53-214903 [PSD-FL-190] August 18, 1994 Page 2 of 2

content will clearly be representative of the fuel that is delivered to Tiger Bay.

If you have any questions concerning the above, please call Mr. Charles Logan at (904) 488-1344 or write to me at the above address.

Respectfully,

Bureau of Air Regulation

CHF/csl/bjb

B. Thomas, SWD

D. Zell, SWD

J. Harper, U.S. EPA B. Beals, U.S. EPA J. Brown, DEP



August 15, 1994

Mr. Bill Thomas
Florida Department of Environmental Protection
Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619

RE: CEMS Certification Date

Permit No. AC53-214903 and PSD-FL-190

Tiger Bay Limited Partnership
Tiger Bay Cogeneration Facility

Dear Mr. Thomas,

On behalf of Tiger Bay Limited Partnership, the proposed date for the certification of the NO_x continuous emission monitoring system is September 4, 1994. The parameters for which sampling is proposed are listed below:

Oxides of Nitrogen (NO.) EPA Method 7E;

Performance Specification 2

Oxygen (O₂)

EPA Methods 3A;

Performance Specification 3

Should you have any questions, please feel free to contact me at (713) 735-4087.

Sincerely,

Roll Chatham

Robert S. Chatham, P.E. Senior Environmental Engineer

RSC:kro

cc: Chuck Cook

Vern Staub

David Zell - FDEP

File 1253

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TO Bill Thomas	From R Chatham
CO. FDEP	CO. Dastec
Dept. Pic	Phone 7/3 T 735 4087
Fox #813 744 6083	Fex " 713 735 4571





August 9, 1993

Mr. Phil McLemore Polk County Board County Commissioners Director, Division of Development Services 330 West Church St. Bartow, Florida 33830

RE: Conditional Use Permit CUP-92-17 & Commercial Site Plan Approval SA-92-01 Tiger Bay cogeneration facility

Dear Mr. McLemore:

Please be advised that the ownership name for the Tiger Bay cogeneration facility has been changed from Central Florida Power Limited Partnership to Tiger Bay Limited Partnership. The name change has been made to distinguish the project for marketing purposes and has no effect on the ownership structure.

Should you or your department have questions or comments about this letter please contact me at (713) 735-4087.

Sincerely,

Robert S. Chatham, P.E.

Senior Environmental Engineer

RSC:tk

cc: Mr. B. Thomas - SW District

Department of Environmental protection

AUG 23 1993

By SOUTHWEST DISTRICT

P:\PROJECTS\ENVIRON\1253\MCLEMORE.WPR



August 9, 1993

Mr. G. Preston Lewis, P.E. Bureau of Air Regulation Florida Department of Environmental Regulation Twin Towers Office Building 2600 Blair Stone Road Tallahassee, Florida 32399-2400

RE: Tiger Bay Limited Partnership (formerly Central Florida Power Limited Partnership) Tiger Bay cogeneration plant PSD-FL-190
AC 53-214903

Dear Mr. Lewis:

Please be advised that the ownership name for the Tiger Bay cogeneration facility has been changed from Central Florida Power Limited Partnership to Tiger Bay Limited Partnership. The name change has been made to distinguish the project for marketing purposes and has no effect on the ownership structure.

Should you or your department have questions or comments about this letter please contact me at (713) 735-4087.

Sincerely,

Robert S. Chatham, P.E.

Senior Environmental Engineer

RSC:tk

cc: Mr. B. Thomas - SW District

Dow



August 9, 1993

Mr. P. Scott Laidlaw, P.G. Bartow Permitting Department Southwest Florida Water Management District 170 Century Boulevard Bartow, Florida 33830

RE: Individual Water Use Permit 2010840.00 Tiger Bay cogeneration facility

Dear Mr. Laidlaw:

Please be advised that the ownership name for the Tiger Bay cogeneration facility has been changed from Central Florida Power Limited Partnership to Tiger Bay Limited Partnership. The name change has been made to distinguish the project for marketing purposes and has no effect on the ownership structure. Please revise your records accordingly.

Should you or your department have questions or comments about this letter please contact me at (713) 735-4087.

Sincerely,

Robert S. Chatham, P.E.

Senior Environmental Engineer

RSC:tk

cc: Mr. B. Thomas - SW District

Dow



August 9, 1993

Mr. George W. Sharrock Florida Department of Environmental Regulation 3804 Coconut Palm Drive Tampa, Florida 33619

RE: Permit No. IC53-221795 & RC53-221796

Tiger Bay cogeneration facility

Dear Mr. Sharrock:

Please be advised that the ownership name for the Tiger Bay cogeneration facility has been changed from Central Florida Power Limited Partnership to Tiger Bay Limited Partnership. The name change has been made to distinguish the project for marketing purposes and has no effect on the ownership structure. Please revise your records accordingly.

Should you or your department have questions or comments about this letter please contact me at (713) 735-4087.

Sincerely,

Robert S. Chatham, P.E.

Senior Environmental Engineer

RSC:tk

cc: Mr. B. Thomas - SW District

DOW



July 25, 1994

Mr. Bill Thomas
Florida Department of Environmental Protection
Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619

RE: Actual Initial Firing Date

Permit No. AC53-214903, PSD-FL-190 & AC53-230744

Tiger Bay Limited Partnership Tiger Bay Cogeneration Facility

Dear Mr. Thomas,

On July 20, 1994, the initial firing of the gas turbine/heat recovery boiler occurred. Presently, the initial firing date for the zero liquid discharge system is August 1, 1994.

Should you have any questions, please feel free to contact me at (713) 735-4087.

Sincerely,

Robert S. Chatham, P.E.

Senior Environmental Engineer

RSC:kro

cc: Chuck Cook

David Zell File 1253

BEST AVAILABLE COPY



DESTEC ENERGY, INC. 2500 CITYWEST BLVD., SUITE 150 P.O. BOX 4411 HOUSTON, TEXAS 77210-4411 (713) 735-4000

September 22, 1994

Mr. Charles Logan
Bureau of Air Regulation
Florida Department of Environmental Protection
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Post-It" brand tax transmittal memo 7871 # of pages > 4

To Charles Loyan From Robert Chather
Co. FDEP

Dept. Air Phone 1:3 735 4087

Fex# 904 922-6979

RE: NSPS Custom Fuel Monitoring Schedule

Tiger Bay Limited Partnership Tiger Bay Cogeneration Facility AC 53-214903 (PSD-FL-190)

Dear Mr. Logan:

This correspondence is submitted on behalf of Tiger Bay Limited Partnership (TBLP) to request approval of a natural gas custom fuel monitoring schedule and to supplement our September 9, 1994 correspondence. This request is made necessary by TBLP's Specific Permit Condition No. 18 of AC 53-214903 and 40 CFR Part 60.334(b)(2). It is our understanding that this schedule should address sulfur content of the natural gas; the nitrogen content in natural gas is not required. Please amend TBLP's Specific Condition No. 18 as per the attached custom fuel monitoring schedule.

Should you or your department have questions or comments about this letter, please contact me at (713) 735-4087.

Sincerely,

Robert S. Chatham, P.E.

Senior Environmental Engineer

RSC:kro Attachment

cc: Mr. Bill Thomas - FDEP, SW District

CUSTOM FUEL MONITORING SCHEDULE

Specific Condition No. 18

From

Sulfur and nitrogen content and lower heating value of the fuel being fired in the combustion nurbines shall be determined as specified in 40 CFR 60.334(b). Any request for a future custom monitoring schedule shall be made in writing and directed to the Southwest District office. Any custom schedule approved by DER pursuant to 40 CFR 60.334(b) will be recognized as enforceable provisions of the permit, provided that the holder of this permit demonstrates that the provisions of the schedule will be adequate to assure continuous compliance. The records of distillate fuel oil usage shall be kept by the company for a two-year period for regulatory agency inspection purposes. For sulfur dioxide, periods of excess emissions shall be reported if the fuel being fired in the gas turbine exceeds 0.05 percent sulfur by weight.

<u>To</u>

This source shall comply with all requirements of 40 CFR 60, Subparts GG and Dc and F.A.C. Rule 17-296.800(2)(a), Standard of Performance for Stationary Gas Turbines and Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units. 40 CFR 60.334(b)(2) requires that a custom fuel monitoring schedule shall be followed for natural gas fired at this facility, as follows:

Custom Fuel Monitoring Schedule for Natural Gas

1. Monitoring of fuel nitrogen content shall not be required since natural gas is the only fuel being fired in the gas turbine.

2. Sulfur Monitoring

- a. Analysis for fuel sulfur content of the natural gas shall be conducted using one of the approved ASTM reference methods for the measurement of sulfur in gaseous fuels, or an approved alternative method. The reference methods are ASTM D1072-80, ASTM D3031-81, ASTM D3246-81, and ASTM D4084-82 as referenced in 40 CFR 60.335(b)(2).
- b. This custom fuel monitoring schedule shall become effective on the date this permit becomes valid. Effective the date of this custom schedule, sulfur monitoring shall be conducted twice monthly for six months. If this monitoring shows little variability in the fuel sulfur content, and indicates consistent compliance with 40 CFR 60.333, then sulfur monitoring shall be conducted once per quarter for six quarters. If monitoring data is provided by the applicant which demonstrates consistent compliance with the requirements herein, the applicant may begin monitoring as per the requirements of 2(c).

- c. If after the monitoring required in item 2(b) above, or herein, the sulfur content of the fuel shows little variability and, calculated as sulfur dioxide emission limits specified under 40 CFR 60.333, sample analysis shall be conducted twice per annum. This monitoring shall be conducted during the first and third quarters of each calendar year.
- d. Should any sulfur analysis as required in items 2(b) or 2(c) above indicate noncompliance with 40 CFR 60.333, the owner or operator shall notify the Department of such excess emissions and the custom schedule shall be reexamined by the Environmental Protection Agency. Sulfur monitoring shall be conducted weekly during the interim period when this custom schedule is being re-examined.
- 3. If there is a change in fuel supply, the owner or operator must notify the Department of such change for re-examination of this custom schedule. A substantial change in fuel quality shall be considered as a change in fuel supply. Sulfur monitoring shall be conducted weekly during the interim period when this custom schedule is being re-examined.
- 4. Records of sample analysis and fuel supply pertinent to this custom schedule shall be retained for a period of three years, and be available for inspection by personnel of federal, state and local air pollution control agencies.

The records of distillate fuel oil usage shall be kept by the company for a two-year period for regulatory agency inspection purposes. For sulfur dioxide, periods of excess emissions shall be reported if the distillate fuel oil being fired in the gas turbine exceeds 0.05 percent sulfur by weight.

Mr. Charles Logan
Bureau of Air Regulation
Florida Department of Environmental Protection
September 22, 1994

bcc: S. A. Kicker J. D. Sellers S. E. Stevens File 1253



Department of Environmental Protection

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

Virginia B. Wetherell Secretary

September 21, 1994

Ms. Jewell Harper, Chief Air Enforcement Branch U.S. EPA., Region IV 345 Courtland Street, N.E. Atlanta, Georgia 30365

RE: NSPS Custom Fuel Monitoring Schedule Tiger Bay Limited Partnership Tiger Bay Cogeneration Facility AC 53-214903 [PSD-FL-190]

Dear Ms. Harper:

This letter serves to follow up a telephone conversation with Mr. Mirza Baig regarding a request by Tiger Bay Limited Partnership Corporation (JSC) to amend the Tiger Bay Cogeneration Facility construction permit. The amendment is requested pursuant to 40 CFR 60.334(b)(2), which would allow the applicant to use a custom fuel monitoring schedule for determining the sulfur and nitrogen content of natural gas being fired in combustion turbines at the facility.

Pursuant to 40 CFR 60.334(b)(2), the U.S. EPA Administrator must approve the custom fuel monitoring schedule. The supporting data needed for approval of the request has been enclosed for your review. We would appreciate a response as soon as possible. If you have any questions please call Charles Logan at (904)488-1344.

Sincerely,

H. Fancy, P.E

Chief

Bureau of Air Regulation

Attachment CHF/csl

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

Printed an recycled paper.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION IV

345 COURTLAND STREET, N.E. ATLANTA, GEORGIA 30365

OCT 0 6 1994

4APT-AEB

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

SUBJ:

Approval of NSPS Custom Fuel Monitoring Schedule for Tiger Bay Limited Partnership, Gas Turbine Cogeneration Facility, Permit Nos. AC53-214903 and PSD-FL-190

Air Regulation

Dear Mr. Fancy:

This is to acknowledge a letter from Mr. Robert S. Chatham of Destec Energy (DE) dated August 3, 1994, requesting approval of a customized fuel monitoring schedule for the above referenced project. This letter was jointly transmitted to the U.S. Environmental Protection Agency (EPA), and to you.

Since the authority for approving a custom fuel monitoring plan under 40 CFR Part 60, Subpart GG has not been delegated to the State of Florida, we have reviewed DE's custom fuel monitoring schedule including the additional information submitted on September 22, 1994. Based on our review, we have determined that the proposed schedule is acceptable, as long as this source complies with all items of the attachment to the custom fuel monitoring guidance memo issued by EPA Headquarters on August 14, 1987. A copy of this memo was included with DE's request as an enclosure.

If you have any questions regarding this letter, please contact Mr. Mirza P. Baig of my staff at (404) 347-3555, voice mail extension 4147.

/h . // Tll w

Chief

Sincerely

Air Enforcement Branch
Air, Pesticides, & Toxics
Management Division



September 9, 1994

DESTEC ENERGY, INC. 2500 CITYWEST BLVD., SUITE 150 P.O. BOX 4411 HOUSTON, TEXAS 77210-4411 (713) 735-4000

RECEIVED

Mr. Charles Logan
Bureau of Air Regulation
Florida Department of Environmental Regulation
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Bureau of Air Regulation

RE: Tiger Bay Limited Partnership
Tiger Bay Cogeneration Facility
AC 53-214903 (PSD-FL-190)

Dear Mr. Logan:

The Florida Gas Transmission Company (FGT) is routing the natural gas to the facility's combustion turbine via a recently installed pipe line. The facility has no natural gas bulk storage capability.

On behalf of Tiger Bay Limited Partnership, I have attached the following documents in response to the Florida Department of Environmental Regulation letter dated August 18, 1994.

Item 1: Enclosed is the \$250 processing fee.

Item 2: Enclosed are several FGT natural gas analysis reports dated December 1993 to August 1994. According to FGT, the analysis method used to determine total sulfur is ASTM 4468. The natural gas that is fired by the combustion turbine will be sampled on the six-acre Tiger Bay site.

Please note that this is being submitted only to the Florida Department of Environmental Regulation. Should you or your department have questions or comments about this letter, please contact me at (713) 735-4087.

Sincerely,

Robert S. Chatham, P.E.

Senior Environmental Engineer

RSC:kro

Attachments (2)

cc:

Mr. Bill Thomas - FDEP, SW District (w/o att.)

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SUBSIDIARY OF THE DOW CHELLON CONDENS

TIGER BAY LIMITED PARTNERSHIP September 8, 1994

Total Sulfur (GR/CCF) ASTM 4468	Date
0.10	08/17/94
0.08	08/08/94
0.09	08/01/94
0.09	07/26/94
0.06	07/19/94
0.07	07/12/94
0.07	07/06/94
0.08	06/29/94
0.07	06/22/94
0.09	06/14/94
0.05	06/07/94
0.07	05/31/94
0.08	05/24/94
0.08	05/24/94
0.14	05/17/94
0.05	05/11/94
0.03	05/03/94
0.07	04/26/94
0.10	04/19/94
0.05	04/12/94
0.06	04/06/94
0.05	03/29/94
0.08	03/23/94
0.05	03/15/94
0.05	03/08/94

0.07	03/02/94
0.07	02/21/94
0.09	02/15/94
0.04	02/09/94
0.18	01/31/94
0.22	01/26/94
0.28	01/18/94
0.18	01/11/94
0.30	01/05/94
0.18	12/21/93
0.42	12/14/93
0.31	12/07/93
0.48	12/01/93

Source: Florida Gas Transmission Company, Maitland, Florida

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460

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SPIRCE OF A 12 AND BAUGATIO

MEMORANDUM

Authority for Approval of Custom Fuel Monitoring Schedules Under NSPS Subpart GC SUBJECT:

FROM:

John B. Rasnid, Chief >

compliance Monitoring branch

TO1 -

Air Compliance Branch Chiefs Regions II, III, IV, V, VI and IX

Air Programs Branch Chiefs Regions I-X

The NSPS for Stationary Gas Turbines (Subpart GG) at 40 CFR 60.334(b)(2) allows for the development of custom fuel monitoring echedules as an alternative to daily monitoring of the sulfur and nitrogen content of fuel fired in the turbines. Regional Offices have been forwarding custom fuel monitoring schedules to the Stationary Source Compliance Division (55CD) for consideration since it was understood that authority for approval of these conclude was not delegated to the Regions. However, in consultation with the Emission Standards and Engineering Division, it has been determined that the Regional Offices do have the authority to approve Subpart 56 custom fuel monitoring schodules. Therefore if is no longer necessary to forward these requests to Handquarters for approval,

Over the past few years, SSCD has issued over twenty custom schedules for sources using pipeline quality natural gas. order to maintain national consistency, we recommend that any schedules Regional Offices issue for natural gas be no loss stringent than the following: sulfur monitoring should

P.02

DADPS, ESD, CPB/15B RTP NC

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05 07-92 11:45AM FROM EPA FFS/SSCD

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be bimonthly, followed by quarterly, then semiannual, given at least six months of data demonstrating little variability in sulfur content and compliance with \$60.333 at each monitoring fraquency; nitrogen nonitoring can be waived for pipeline quality natural gas, since there is no fuel-bound nitrogen and since the free nitrogen does not contribute appreciably to NOx emissions. Please see the attached sample custom schoolulo for details. Given the increasing trend in the use of pipeline quality natural gos, we are invectigating the possibility of amending Subpart GG to allow for loss frequent sulfur monitoring and a valver of nitrogen monitoring requirements where netural gas is used.

Where courses using oil request suctom fuel monitoring ochedules, Regional Offices are encouraged to contact SSCD for consultation on the appropriate fuel monitoring schedule. However, Regions are not required to send the request itself to GOCD for approval.

If you have any questions, please contact Sally M. Farsell at FTS 382-2875.

Attachment

co: John Crenshaw Coorge Walsh Robert Ajax Earl Salo

89043324189 P.03

TO B9195413470

PD07/D07

Enclosure

Conditions for Custom Fuel Sampling Schedule for Stationary Gas Turbines

- Monitoring of fuel nitrogen content shall not be required while natural
 gas is the only fuel fired in the gas turbine.
- 2. Sulfur Monitoring
 - a. Analysis for fuel sulfur content of the natural gas shall be conducted using one of the approved ASTM reference methods for the measurement of sulfur in gaseous fuels, or an approved alternative method. The reference methods are: ASTM D1072-8D; ASTM D3031-81; ASTM D3246-81; and ASTM D4084-82 as referenced in 40 CFR 50.335(b)(2).
 - b. Effective the date of this custom schedule, sulfur monitoring shall be conducted twice monthly for six months. If this monitoring shows little variability in the fuel sulfur content, and indicates consistent compliance with 40 CFR 60.333, then sulfur monitoring shall be conducted once per quarter for six quarters.
 - c. If after the monitoring required in item 2(b) above, or herein, the sulfur content of the fuel shows little variability and, calculated as sulfur dioxide, represents consistent compliance with the sulfur dioxide emission limits specified under 40 CFR 60.333, sample analysis shall be conducted twice per annum. This monitoring shall be conducted during the first and third quarters of each calendar year.
 - d. Should any sulfur analysis as required in items 2(b) or 2(c) above indicate noncompliance with 40 CFR 60.333, the owner or operator shall notify the State Air Control Eourd) of such excess emissions and the custom schedule shall be re-examined by the Environmental Protection Agency. Sulfur monitoring shall be conducted weekly during the interim period when this custom schedule is being re-examined.
- 3. If there is a change in fuel supply, the owner or operator must notify the State of such change for re-examination of this custom schedule. A substantial change in fuel quality shall be considered as a change in fuel supply. Sulfur monitoring shall be conducted weekly during the interim period when this custom schedule is being re-examined.
- 4. Records of sample analysis and fuel supply pertinent to this custom schedule shall be retained for a period of three years, and be available for inspection by personnel of federal, state, and local air pollution control agencies.



Department of Environmental Protection

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

Virginia B. Wetherell Secretary

December 2, 1994

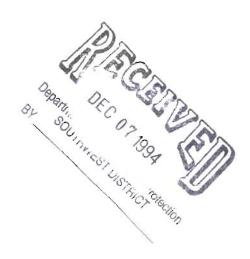
CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. Robert S. Chatham Senior Environmental Engineer Destec Energy, Inc. Post Office Box 4411 Houston, Texas 77210-4411

RE: Amendment to Construction Permit
NSPS Custom Fuel Monitoring Schedule
Tiger Bay Limited Partnership
Tiger Bay Cogeneration Facility
AC 53-214903 [PSD-FL-190(A)]

Dear Mr. Chatham:

The Department has reviewed your August 3, 1994 request, with supporting data and additional data submitted on September 9 and 22, 1994, for an NSPS Custom Fuel Monitoring Schedule. The schedule would only apply to a monitoring schedule for sulfur dioxide (SO2) and nitrogen oxide (NOx) when natural gas is being fired at the subject facility (refer to Attachment No. 1). The facility is required by the permit to comply with Subpart GG of the New Source Performance Standards (NSPS), 40 CFR 60. For sources utilizing pipeline quality natural gas, 40 CFR 60.334(b) and 40 CFR 60.334(b)(2) state that a custom fuel monitoring schedule, if supported by data which demonstrates compliance with NSPS emission limits, may be approved by the Administrator of EPA. This authority has been delegated to EPA's regional offices and a copy of the subject request was jointly submitted to EPA Region IV for a determination. The Department received a letter from EPA on October 12, 1994, stating that a custom fuel monitoring schedule for this facility was acceptable, if it complied with all items of the attachment to the custom fuel monitoring guidance memo issued by EPA Headquarters on August 14, 1987 (Refer to Attachment No. 2). The results from a minimum of three sampling events for six consecutive months were provided by the permittee, which demonstrated consistent compliance with the allowable sulfur dioxide emissions limits specified under 40 CFR 60.333 and this permit. Therefore, upon issuance of the amended permit, the permittee shall begin monitoring the sulfur content of natural gas as specified in 2.b. of the Custom Fuel Monitoring Schedule for Natural Gas. In accordance with the EPA determination, the permit Specific Conditions will be amended as follows:



Mr. Robert S. Chatham AC 53-214903 [PSD-FL-190(A)] December 2, 1994 Page 2 of 5

I. Specific Condition Number;

18. From

Sulfur and nitrogen content and lower heating value of the fuel being fired in the combustion turbines shall be determined as specified in 40 CFR 60.334(b). Any request for a future custom monitoring schedule shall be made in writing and directed to the Southwest District office. Any custom schedule approved by DEP pursuant to 40 CFR 60.334(b) will be recognized as enforceable provisions of the permit, provided that the holder of this permit demonstrates that the provisions of the schedule will be adequate to assure continuous compliance. The records of distillate fuel oil usage shall be kept by the company for a two-year period for regulatory agency inspection purposes. For sulfur dioxide, periods of excess emissions shall be reported if the fuel being fired in the gas turbine exceeds 0.05 percent sulfur by weight.

To

This source shall be in compliance with all requirements of 40 CFR 60, Subpart GG (Standards of Performance for Stationary Gas Turbines), 40 CFR 60, Subpart Dc (Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units), and Rule 62-296.800(2)(a), F.A.C. (Standards of Performance for New Stationary Sources (NSPS)).

A. Natural Gas

Pursuant to 40 CFR 60.334(b)(2), a custom fuel monitoring schedule shall be followed for the natural gas fired at this facility and shall be as follows:

Custom Fuel Monitoring Schedule for Natural Gas (NG)

- Monitoring of fuel nitrogen content shall not be required when NG is the only fuel being fired in the turbines.
- 2. Sulfur Monitoring
 - a. Analysis for fuel sulfur content of the NG fired at this facility shall be conducted using one of the approved ASTM reference methods for the measurement of sulfur in gaseous fuels, or an approved alternative method. The reference methods are ASTM D1072-80, ASTM D3031-81, ASTM D3246-81, and ASTM D4084-82, as referenced in 40 CFR 60.335(b)(2).

Mr. Robert S. Chatham AC 53-214903 [PSD-FL-190(A)] December 2, 1994 Page 3 of 5

- b. This custom fuel monitoring schedule shall become effective on the date this permit is amended. Effective the date of this custom schedule, sulfur monitoring of NG fired at the facility shall be conducted twice monthly for six months. If this monitoring shows little variability in the fuel sulfur content and indicates consistent compliance with 40 CFR 60.333, then sulfur monitoring shall be conducted once per quarter for six quarters.
- c. If, after the monitoring required in item 2(b) above, or herein, the sulfur content of the NG fuel shows little variability and, calculated as sulfur dioxide, represents consistent compliance with the sulfur dioxide emission limits specified under 40 CFR 60.333 and in this permit, sample analysis shall be conducted twice per annum. This monitoring shall be conducted during the first and third quarters of each calendar year.
- d. Should any sulfur analysis, as required in items 2(b) or 2(c), above, indicate noncompliance with 40 CFR 60.333 or this permit, the owner or operator shall notify the Department of such excess emissions and the custom schedule shall be re-examined by the Environmental Protection Agency. Sulfur monitoring shall be conducted weekly during the interim period when this custom schedule is being re-examined.
- 3. If there is a change in fuel supply, the owner or operator must notify the Department of such change for re-examination of this custom schedule. A substantial change in fuel quality shall be considered as a change in fuel supply. Sulfur monitoring shall be conducted weekly during the interim period when this custom schedule is being re-examined.
- 4. Records of sample analysis and fuel supply pertinent to this custom fuel monitoring schedule for NG shall be retained for a period of five years, and be available for inspection by personnel of federal, state, and local air pollution control agencies.

B. Distillate Fuel Oil

The records of distillate fuel oil usage shall be kept by the company for a five-year period for regulatory agency inspection purposes. For sulfur dioxide, periods of excess emissions shall be reported if the distillate fuel oil being fired in the gas turbine exceeds 0.05 percent sulfur content, by weight.

Mr. Robert S. Chatham AC 53-214903 [PSD-FL-190(A)] December 2, 1994 Page 4 of 5

II. Attachments to be Incorporated;

- Destec letter received September 12, 1994.
- FDEP letter dated August 18, 1994.
- U.S. EPA letter received October 12, 1994.

A person whose substantial interests are affected by the Department's proposed permitting decision may petition for an administrative proceeding (hearing) in accordance with Section 120.57, Florida Statutes (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 at 2600 Blair Stone Road, Tallahassee, Florida 32399-2400. Petitions filed by the applicant of the amendment request/application and the parties listed below must be filed within 14 days of receipt of this amendment. Petitions filed by other persons must be filed within 14 days of the amendment issuance or within 14 days of their receipt of this amendment, whichever occurs first. Petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. Failure to file a petition within this time period shall constitute a waiver of any right such person may have to request an administrative determination (hearing) under Section 120.57, F.S.

The Petition shall contain the following information:

- (a) The name, address and telephone number of each petitioner, the applicant's name and address, the Department 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 Petitioner, if any;
- (e) A statement of facts which petitioner contends warrant reversal or modification of the Department's action or proposed action;
- (f) A statement of which rules or statutes petitioner contends require reversal or modification of the Department's action or proposed action; and,
- (g) A statement of the relief sought by petitioner, stating precisely the action the petitioner wants the Department to take with respect to the Department's action or proposed action.

If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the position taken by it in this amendment. Persons whose substantial interests will be affected by any decision of the Department with regard to the amendment request/application have the right to petition to become a party to the proceeding. The petition must conform to the

Mr. Robert S. Chatham AC 53-214903 [PSD-FL-190(A)] December 2, 1994 Page 5 of 5

requirements specified above and be filed (received) within 14 days of receipt of this amendment in the Office of General Counsel at the above address of the Department. Failure to petition within the allowed time frame constitutes a waiver of any right such person has to request a hearing under Section 120.57, F.S., and to participate as a party to this proceeding. Any subsequent intervention will only be at the approval of the presiding officer upon motion filed pursuant to Rule 28-5.207, Florida Administrative Code.

This letter amendment must be attached to Construction Permit, No. AC 53-214903 [PSD-FL-190(A)], and shall become part of the permit.

Sincerely,

Howard L. Rhodes

Director

Division of Air Resources

Management

HLR/cl/b

Attachments

cc: G. Kissel, SWD

- J. Harper, EPA
- J. Bunyak, NPS
- K. Kosky, KBN

CERTIFICATE OF SERVICE

The undersigned duly designated deputy clerk hereby certifies that this AMENDMENT and all/copies were mailed by certified mail before the close of business on $\sqrt{2/6/944}$ to the listed persons.

Clerk Stamp

priling and acknowledgment filed, on this date, pursuant to 120.52(11), Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.

Clerk

Date

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION SOUTHWEST DISTRICT

CONVERSATION RECORD

CONVENSA	ATTOM MECOND
Date 12/13/94	Subject Tiger Bay Compliance le
Time4300	Permit No. BD190
	County Polk
Mr. Scott Kicker	Telephone No.
Representing Tiger Bay limite	d fortnership
[] Telephoned Me [4] Was Called	[] Scheduled Meeting [] Unscheduled Meetir
Other Individuals Involved in Convers	sation/Meeting
	ited he has changed jobs within
the company and because	se of this the stack test
may come to the departm 45 day period.	se of this the stack test ent slightly later than the
I told him that I wo	ould accept the tests.
	· · · · · · · · · · · · · · · · · · ·
(continue on another	Signature R. Such
	,) 1 //

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION SOUTHWEST DISTRICT

CONVERSATION RECORD

1.0 1044	
Date 12/13/94	Subject Tiger Bay
Time 4:00pm	Permit No. AC53-214903 BD-190
	County Polk
Mr. Scott Kicker	Telephone No.
Representing Tiger Bay Limited	Partnership
[] Telephoned Me [] Was Called	[] Scheduled Meeting [] Unscheduled Meeting
Other Individuals Involved in Conv	ersation/Meeting
•	
Summary of Conversation/Meeting [he duct burner encountered problems
	October and is still experiencing
	manufacturer will have to repair
· ·	•
•	Operation of the burner apont
	finition of official start-up or
peak load. Conversations	with Mr. Harley and Mr. Pennington
DEP Tallahassee) determined	that the duct burner should
	source. Compliance testing
would not be required until	it was made operational trigge
start-up or peak load require	ments. Proper advanced notice
of compliance testing would	ments. Proper advanced notice be required at that time.
The turbine has been com	pliance tested within the proper start-up or peak load so is OK.
amount of time after s	Start-IPP or Peak load so is OK.
(continue on another	Signature Polant Seed

sheet, if necessary)



Department of **Environmental Protection**

Lawton Chiles Governor Southwest District 3804 Coconut Palm Drive Tampa, Florida 33619

Virginia B. Wetherell Secretary

FACSIMILE TRANSMISSION SHEET

DATE 1/26/95

To:	Robert Chatham
	Department Tiger Bay Limited Part.
	PhoneFax
From:	Bob Soich
	DEP Southwest District Office - Air Program
	Phone: (813) 744-6100 (Suncom 542-6100) Ext. 122
Operator:	÷.
Subject:	Duct-Burner
Total Numbe	er of Pages, Including Cover Page:
DEP SWD AIR	PROGRAM FAX NUMBER: (813) 744-6458) (SUNCOM 542-6458)

BEST AVAILABLE COPY

Fransmit Confirmation Prort.

No. : 007

Receiver : 37137354571

Transmitter : FLA DEP TPA AIR

Date : Jan 26,95 19:21

Time : 01'08

Mode : Norm

Pages : 02

Result : 01.

-Tiger Bay

Tele 12/13/94 @ OD pm

Scott Kicker - Tiger Bay Stack Test will be submitted Late Will Fed Ext Tommorrow. He has Changed jobs and is trying to clear this up while he works in his new position. I stated that I would accept the test Late, I was out on a Type II audit during the testing. I do not see a reason to require a retest do to the fact that the test was submitted late. Duct Burner: Still not officially operational. froblems were encountered during testing in October. The manufacturer will have to repair the burner characteristics. I directed Mr. Kicker to talk to mike Harley in Tall DEP as per another conversation that we had concerning the Duct Borner, the borner has never be come tolly operational so has not met official start-up Duct burnes under separate NSPS subpart Dc So con be treated as a separate Source. Robert Chatham Fax 713-735-457/ Turbine - GG Duct burner- DB



RECEIVED

JAN 27 1995

January 23, 1994.

Bureau of Air Regulation

DESTEC ENERGY, INC. 2500 CITYWEST BLVD., SUITE 150 P.O. BOX 4411 HOUSTON, TEXAS 77210-4411 (713) 735-4000

[CORRECTED]

State of Florida
Department of Environmental Regulation
Division of Air Resources Management
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Florida 32399

RE: Start of Commercial Operations

Permit Nos. PSD-F1-190, AC53-214903 and AC53-230744

Tiger Bay Limited Partnership Tiger Bay Cogeneration Facility

To Whom It May Concern:

On behalf of Tiger Bay Limited Partnership (TBLP), we are pleased to announce that on January 1, 1995, TBLP commenced commercial operations.

Should you have any questions, please feel free to contact me at (713) 735-4087.

Sincerely,

Robert S. Chatham, P.E.

Senior Environmental Engineer

RSC:gmc

cc:

M. M. Davenport

B. Thomas, swelest, g. Ha: week, EDA.

A SOUTHWINE TO BOS OF THE PROPERTY OF THE PROP





December 20, 1994

D.E.P.

DEC 27 1994

TAMPA

Mr. Robert Soich
Florida Department of Environmental Protection
Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619

RE: 90 Day Extension for Duct Burner Unit Permit No. AC53-214903 and PSD-FL-190

Tiger Bay Limited Partnership Tiger Bay Cogeneration Facility

Dear Mr. Soich:

On behalf of Tiger Bay Limited Partnership (TBLP), we are requesting a 90 day extension for the duct burner unit's initial source test. Presently, TBLP is experiencing duct burner problems which will require an outage to make the necessary modifications or repairs. At this time, the outage schedule has not been finalized but the repairs are expected to be completed during the month of March 1995. During the time between now and the March outage, TBLP plans to not fire the duct burner unit until the modifications or repairs have been completed. The maximum firing date for the duct burner unit was October 31, 1994.

Should you have any questions, please feel free to contact me at (713) 735-4087.

Sincerely,

Robert S. Chatham, P.E.

Kalt Chatham

Senior Environmental Engineer

RSC:gmc

cc: M. M. Davenport

Ms. Teresa Heron, FDEP - Tallahassee Mr. William Proses, FDEP - Tampa







DESTEC ENERGY, INC. 2500 CITYWEST BLVD., SUITE 150 P.O. BOX 4411

JSTON, TEXAS 77210-4411 735-4000

December 14, 1994

DEC 16 1994

Departure Anvironmental Protection SOUTHWEST DISTRICT

Mr. Robert Soich Florida Department of Environmental Protection Southwest District 3804 Coconut Palm Drive Tampa, Florida 33616

Dear Mr. Soich:

Enclosed is a copy of the source test report submitted on behalf of Tiger Bay Cogeneration Facility, Permit No: AC53-214903/PSD-FL-190. The report was prepared by Environmental Science and Engineering, Inc. for testing conducted on the gas turbine between October 19 and 23, 1994. Source testing for the duct burner has not been completed at this time.

If you have any questions, please contact Robert Chatham at 713/735-4087.

Sincerely.

Scott A. Kicker

Environmental Engineer

Enclosure

cc: Ms. Teresa Heron (FDER Tallahassee)

Mr. William Proses (FDEP Tampa)

File: 1253.2.3.3.5.2



December 22, 1994 3941050-0100-3100

Mr. Bob Stoich Florida Department of Environmental Protection Air Branch 3804 Coconut Palm Tampa, FL 33619

Tiger Bay Cogeneration Facility - CEMS Relative Accuracy Test Report

Dear Mr. Stoich:

On behalf of Destec Engineering, I am submitting the attached CEMS relative accuracy test report for the Tiger Bay Cogeneration Facility located in Fort Meade, Florida. The FDEP permit number for the facility is AC53-214903/PSD-FL-190.

If you have any questions regarding the attached test report, please contact Robert Chatom of Destec at (713)-735-4087.

Sincerely,

ENVIRONMENTAL SCIENCE & ENGINEERING, INC.

Bill Mayhew Chemical Engineer

Manager, Source Testing

Robert Chatom, Destec

H:\users\stacks\destec\desfdep.ltr

P.O. Box 1703 Gainesville, FL 32602-1703 Phone (904) 332-3318 (800) 874-7872 Fax (904) 333-6622