

**MEMORANDUM**

**TO:** Jerry Kissel, P.E. *JK*  
District Air Engineer **DATE:** May 27, 1994

**FROM:** David Zell *DZ*  
Permit Engineer

**SUBJECT:** Company: City of Lakeland  
Permit No: AO53-244727 (AO Renewal)  
County: Polk  
Project: McIntosh Power Plant  
Gas Turbine Peaking Unit No. 1  
Default Date (DAY 90): 06/18/94

An application for renewal of an operation permit for an existing gas turbine peaking unit was received from the City of Lakeland on 01/19/94. Additional information was requested on 02/25/94 with a response received on 03/21/94.

The permitted source is Peaking Unit No. 1 at the C.D. McIntosh Power Plant. This unit consists of gas turbine which drives a generator producing electrical power at a maximum rated output of 20 megawatts (MW). The gas turbine is fired with natural gas, or No. 2 fuel oil with a maximum sulfur content of 0.50% by weight. The maximum fuel firing rate is 320 MCF per hour of natural gas (corresponds to approximately 330 MMBtu/hour) or 2,310 gallons per hour of No. 2 fuel oil (corresponds to approximately 320 MMBtu/hour).

A visible emission compliance test was conducted on this unit on 05/20/93. The test showed compliance with the permit VE limitation and the fuel oil sulfur analysis was < 0.5%.

I recommend that this permit be issued as conditioned and submit it for your review and approval.

APPLICATION TRACKING SYSTEM

JUN 01 1994

APPL NO:244727

APPL RECVD:01/31/94 TYPE CODE:AD SUBCODE:1B

LAST UPDATE:02/02/94

DER OFFICE RECVD:TPA DER OFFICE TRANSFER TO:\_\_\_ APPLICATION COMPLETE:\_\_\_/\_\_\_/\_\_\_

DER PROCESSOR:~~AIR 2611~~

APPL STATUS:AC DATE:01/31/94 (ACTIVE/DENIED/WITHDRAWN/EXEMPT/ISSUED/GENERAL)

RELIEF:\_\_\_ (SSAC/EXEMPTIONS/VARIANCE)

(Y/N) N MANUAL TRACKING

DISTRICT:40 COUNTY:53

(Y/N) N OGC HEARING REQUESTED

LAT/LONG:\_\_\_/\_\_\_/\_\_\_

(Y/N) N PUBLIC NOTICE REQD?

Basin-SEGMENT:\_\_\_

(Y/N) N GOV BODY LOCAL APPROVAL REQD?

CDE #:\_\_\_

(Y/N) Y LETTER OF INTENT REQD? (I/ISSUE D/DENY)

ALT#:\_\_\_

PROJECT SOURCE NAME:~~DIESEL TURBINES (2)~~ *Peaking Unit No.1 Gas Turbine*

STREET:NA

CITY:NA

STATE:FL

ZIP:\_\_\_

PHONE:\_\_\_

APPLICATION NAME:LAKELAND, CITY OF

STREET:3030 E. LAKE PARKER DR.

CITY:LAKELAND

STATE:FL

ZIP:33805

PHONE:813-499-6300

AGENT NAME:\_\_\_

STREET:\_\_\_

CITY:\_\_\_

STATE:\_\_\_

ZIP:\_\_\_

PHONE:\_\_\_

FEE #1 DATE PAID:\_\_\_/\_\_\_/\_\_\_ AMOUNT PAID:NOFEE RECEIPT NUMBER:\_\_\_

B	DATE APPLICANT INFORMED OF NEED FOR PUBLIC NOTICE	___/___/___
C	DATE DER SENT DNR APPLICATION/SENT DNR INTENT	___/___/___
D	DATE DER REQ. COMMENTS FROM GOV. BODY FOR LOCAL APP.	___/___/___
E	DATE #1 ADDITIONAL INFO REQ--REC FROM APPLICANT	<del>02/25/94</del> 03/21/94
E	DATE #2 ADDITIONAL INFO REQ--REC FROM APPLICANT	___/___/___
E	DATE #3 ADDITIONAL INFO REQ--REC FROM APPLICANT	___/___/___
E	DATE #4 ADDITIONAL INFO REQ--REC FROM APPLICANT	___/___/___
E	DATE #5 ADDITIONAL INFO REQ--REC FROM APPLICANT	___/___/___
E	DATE #6 ADDITIONAL INFO REQ--REC FROM APPLICANT	___/___/___
F	DATE LAST 45 DAY LETTER WAS SENT	___/___/___
G	DATE FIELD REPORT WAS REQ--REC	___/___/___
H	DATE DNR REVIEW WAS COMPLETED	___/___/___
I	DATE APPLICATION WAS COMPLETE	03/21/94
J	DATE GOVERNING BODY PROVIDED COMMENTS OR OBJECTIONS	___/___/___
K	DATE NOTICE OF INTENT WAS SENT--REC TO APPLICANT	___/___/___
L	DATE PUBLIC NOTICE WAS SENT TO APPLICANT	___/___/___
M	DATE PROOF OF PUBLICATION OF PUBLIC NOTICE RECEIVED	___/___/___
N	WAIVER DATE BEGIN--END (DAY 90)	___/___/___

COMMENTS:

**PERMIT APPLICATION FEE/ASSIGNMENT SHEET**

APPLICATION TYPE AO (RENEWAL) FILE/PROCESSING NO. A 053 - 244727  
 COMPANY CITY OF LAKELAND/ELECTRIC UTILITY COUNTY POLK  
 SOURCE DESCRIPTION/COMMENTS GAS TURBINE A053-158431  
Peaking Unit No. 1 DATE APPL. REC'D (Day 1): 1/31/94  
 CHECK ATTACHED: Y N APPLICATION SUB TYPE CODE \_\_\_\_\_  
 Not Required (X) TITLE V.  
 FEE SUBMITTED: (X) correct ( ) incorrect - Should Be \$ 0-  
 Submitted \$ 0-  
 Needed/Refund \$ 0-  
 FEE CHECKED BY: JSTAYLOR DATE 2/2/94  
 APPLICATION ASSIGNED TO: D. Zell DATE 2/10/94

**PERMIT APPLICATION PROCESSING STATUS**

	<u>Completed</u>	<u>Initials</u>
Date PATS Updated With Processor Name:	<u>2/11/94</u>	<u>DEZ</u>
Date AC Logged By Section Secretary:	_____	_____
Permit Engineer Submit Finished Permit Package & Recommendations to District Air Engineer:	<u>5/27/94</u>	<u>DEZ</u>
Permit Package to District Air Administrator:	<u>5/31/94</u>	<u>JK</u>
Permit Package to Director of District Management:	<u>6/1/94</u>	<u>MS</u>
Permit Package Mailed Out:	<u>JUN 01 1994</u>	<u>mq</u>

**DATA FOLLOW UP**

Issue Date Updated on PATS:	<u>JUN 01 1994</u>	<u>mq</u>
Updated on Wang:	_____	_____



**G. A. Rodriguez**  
MANAGER OF  
ENVIRONMENTAL AFFAIRS

**D.E.P.**

March 15, 1994

**MAR 21 1994**  
SOUTHWEST DISTRICT  
TAMPA

Mr. David Zell  
Department of Environmental Protection  
Southwest District  
3804 Coconut Palm Drive  
Tampa, Florida 33610

RE: C.D. McIntosh Peaking Units 1,2, and 3 Renewals of Permits  
A053-158429 and A053-158431 (New DEP Files Nos. A053-244726  
and A053-244727)

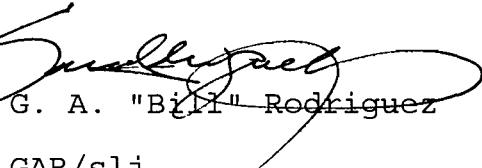
Dear Mr. Zell:

As requested in your letter of February 25, 1994. Please find enclosed the following:

1. Professional Engineer Certification forms signed by Mr. Ronald W. Tomlin, Plant Manager.
2. Information concerning operating hours for these units. These peaks will normally run an average of 400 to 800 hours per year.

Your cooperation is greatly appreciated. If you have any questions concerning this submittal, please call me at 813/499-6589.

Sincerely,



G. A. "Bill" Rodriguez

GAR/slj  
enclosure



Lawton Chiles  
Governor

# Florida Department of Environmental Protection

Southwest District  
3804 Coconut Palm Drive  
Tampa, Florida 33619  
813-744-6100

Virginia B. Wetherell  
Secretary

February 25, 1994

Mr. G. A. Rodriguez  
City of Lakeland  
Department of Electric & Water Utilities  
501 East Lemon Street  
Lakeland, FL 33801-5050

Dear Mr. Rodriguez:

Re: Polk County - AP  
C.D. McIntosh Peaking Unit Nos. 1, 2, and 3  
Renewal of Permits A053-158429 and A053-158431  
(New DER File Nos A053-244726 and A05-244727)

On January 31, 1994, the Department received your air pollution operation permit renewal applications for C.D. McIntosh Peaking Unit Nos. 1, 2, and 3. In order to continue processing the applications, the Department will need the following additional information pursuant to Rule 17-4.070(1), F.A.C.

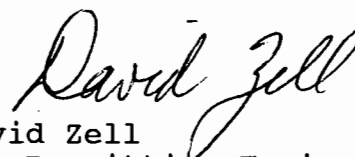
1. Rule 17-4.050 (3) F.A.C. requires that all applications for a Department permit at major facilities must be certified by a professional engineer (P.E.) registered in the State of Florida. This requirement applies to operation permit renewals. Enclosed are the originals of your renewal applications and a copies of the P.E. Certification form. Please have a P.E. review both of the applications and sign and seal the P.E. certification forms. The P.E. forms should then be attached to the applications and returned to the Department.
2. The renewal permits will contain a condition stating the maximum permitted operating hours. Since these sources are not currently restricted by a federally enforceable construction permit condition, the maximum permitted hours of operation could be unrestricted (i.e. 8,760 hours/year) or some other lower level. Please respond by stating what you wish to be the maximum permitted operating hours (hours/12 consecutive month period) for each of these units.

**"Notice:** Pursuant to the provisions of Section 120.600, F.S. and Subsection 17-12.070(5), F.A.C., if the Department does not receive a response to this request for information within 90 days of the date of this letter, the Department will issue a final order denying

your application. You need to respond within 30 days after you receive this letter, responding to as many of the information requests as possible and indicating when a response to any unanswered questions will be submitted. If the response will require longer than 90 days to develop you should submit a specific time table for the submission of the requested information for Department review and consideration. Failure to comply with a time table accepted by the Department will be grounds for the Department to issue a Final Order for Denial for lack of timely response. A denial for lack of information or response will be unbiased as to the merits of the application. The applicant can reapply as soon as the requested information is available."

If you have any questions, please call me at (813) 744-6100 extension 412.

Sincerely,



David Zell  
Air Permitting Engineer  
Southwest District Office

DRZ/