

Harvey, Mary

10/3/07

From: Harvey, Mary
Sent: Thursday, October 04, 2007 2:24 PM
To: 'Mr. Alex C. George, Hardee Power Partners'; 'Mr. Frank Sarduy, Hardee Power Partners'; 'Mr. Thomas W. Davis, ECT'; Zhang-Torres; Halpin, Mike; 'Ms. Katy Forney, EPA Region 4'; 'Mr. Jim Little, EPA Region 4'; 'Mr. Dee Morse, NPS'
Cc: Thomas, Bruce X.
Subject: HARDEE POWER STATION - FACILITY #0490015-008-AC-FINAL - PSD-FL-140B
Attachments: 0490015.008.AC.F_pdf.zip

| Tracking: | Recipient | Delivery | Read |
|-----------|--|------------------------------|-------------------------|
| | Mr. Alex C. George, Hardee Power Partners' | | |
| | Mr. Frank Sarduy, Hardee Power Partners' | | |
| | Mr. Thomas W. Davis, ECT' | | |
| | Zhang-Torres | | Read: 10/4/2007 4:16 PM |
| | Halpin, Mike | Delivered: 10/4/2007 2:24 PM | Read: 10/4/2007 3:12 PM |
| | Ms. Katy Forney, EPA Region 4' | | |
| | Mr. Jim Little, EPA Region 4' | | |
| | Mr. Dee Morse, NPS' | | |
| | Thomas, Bruce X. | | Read: 10/4/2007 2:35 PM |

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<http://www.adobe.com/products/acrobat/readstep.html>.

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Thank you,

DEP, Bureau of Air Regulation

10/5/2007

Harvey, Mary

From: Dee_Morse@nps.gov
Sent: Thursday, October 04, 2007 4:52 PM
To: Harvey, Mary
Subject: HARDEE POWER STATION - FACILITY #0490015-008-AC-FINAL - PSD-FL-140B

Return Receipt

Your HARDEE POWER STATION - FACILITY #0490015-008-AC-FINAL -
document: PSD-FL-140B

was Dee Morse/DENVER/NPS
received
by:

at: 10/04/2007 02:52:05 PM

Harvey, Mary

From: Forney.Kathleen@epamail.epa.gov
Sent: Thursday, October 04, 2007 3:01 PM
To: Harvey, Mary
Subject: Re: FW: HARDEE POWER STATION - FACILITY #0490015-008-AC-FINAL - PSD-FL-140B

Thanks
KT

Katy R. Forney
Air Permits Section
EPA - Region 4
61 Forsyth St., SW
Atlanta, GA 30024

Phone: 404-562-9130
Fax: 404-562-9019

"Harvey, Mary"
<Mary.Harvey@dep
.state.fl.us>
10/04/2007 02:25
PM

To
Kathleen Forney/R4/USEPA/US@EPA
cc
Subject
FW: HARDEE POWER STATION -
FACILITY #0490015-008-AC-FINAL -
PSD-FL-140B

The Department of Environmental Protection values your feedback as a customer. DEP Secretary Michael W. Sole is committed to continuously assessing and improving the level and quality of services provided to you. Please take a few minutes to comment on the quality of service you received. Simply click on this link to the DEP Customer Survey. Thank you in advance for completing the survey.

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To: Harvey, Mary
Sent: Thursday, October 04, 2007 4:16 PM
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Your message

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Sent: 10/4/2007 2:24 PM

was read on 10/4/2007 4:16 PM.

Harvey, Mary

From: Alex George [AGeorge@invenergyllc.com]
Sent: Thursday, October 04, 2007 3:36 PM
To: Harvey, Mary
Subject: Re: HARDEE POWER STATION - FACILITY #0490015-008-AC-FINAL - PSD-FL-140B

Alex C. George
Invenergy LLC
312-504-6721 Mobile
From my Blackberry

This electronic message and all contents contain information which may be privileged, confidential or otherwise protected from disclosure. The information is intended to be for the addressee(s) only.

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----- Original Message -----

From: Harvey, Mary <Mary.Harvey@dep.state.fl.us>
To: Alex George
Cc: Thomas, Bruce X. <Bruce.X.Thomas@dep.state.fl.us>
Sent: Thu Oct 04 13:59:33 2007
Subject: FW: HARDEE POWER STATION - FACILITY #0490015-008-AC-FINAL - PSD-FL-140B

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10/4/2007

Harvey, Mary

From: Alex George [AGeorge@invenergyllc.com]
To: Harvey, Mary
Sent: Thursday, October 04, 2007 3:12 PM
Subject: Read: FW: HARDEE POWER STATION - FACILITY #0490015-008-AC-FINAL - PSD-FL-140B

Your message

To: AGeorge@invenergyllc.com
Subject:

was read on 10/4/2007 3:12 PM.

Harvey, Mary

From: Tom Davis [tdavis@ectinc.com]
Sent: Thursday, October 04, 2007 3:05 PM
To: Harvey, Mary
Subject: RE: HARDEE POWER STATION - FACILITY #0490015-008-AC-FINAL - PSD-FL-140B

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From: Halpin, Mike
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Subject: Read: HARDEE POWER STATION - FACILITY #0490015-008-AC-FINAL - PSD-FL-140B

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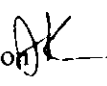
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Memorandum

Florida Department of Environmental Protection

TO: Joseph Kahn, Director, DARM
Through: Trina L. Vielhauer, Chief, BAR
From: Jeff Koerner, Air Permitting North Section 
Bruce Thomas, Air Permitting North Section
DATE: October 3, 2007
SUBJECT: DEP File No. 0490015-008-AC (PSD-FL-140B)

Attached is the final PSD permit revision, which increases the heat input rates for unit CT-2B (ARMS EU-005) from 880 to 950 MMBtu per hour when firing natural gas and from 950 to 1060 MMBtu per hour when firing distillate oil. Actual operating data indicates that the heat input rates provided by the gas turbine vendor underestimate the actual performance of the installed gas turbine. No physical or operational changes are necessary to realize the actual installed capacity of Unit CT-2B. No increase in the emissions standards (concentrations or mass emissions rates) are requested to accommodate the change. The applicant does not expect any emissions increases nor increased utilization as a result of the change. Unit CT-2B will continue to comply with all applicable provisions of the air construction and operation permits.

No comments were received from the EPA or the public. We recommend your approval of the attached final permit.

Attachments

JK/tv/jfk/bxt



Florida Department of Environmental Protection

Bob Martinez Center
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Charlie Crist
Governor

Jeff Kottkamp
Lt. Governor

Michael W. Sole
Secretary

PERMITTEE

Hardee Power Partners
6695 North County Road 663
Fort Green Springs, FL 33834

Authorized Representative:
Mr. Alex C. George, Vice President

Air Permit No. PSD-FL-140B
Project No. 0490015-008-AC
Hardee Power Station
Facility ID No. 0490015
Heat Input Increases for CT-2B

FACILITY AND LOCATION

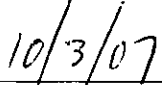
This permit authorizes increases in the maximum permitted heat input rates for Unit CT-2B from 880 to 950 MMBtu per hour when firing natural gas and from 950 to 1060 MMBtu per hour when firing distillate oil. The combustion turbine is installed at the Hardee Power Station, which is an existing electrical generating power plant (SIC No. 4911). The facility is located in Hardee County at 6695 North County Road 663 North in Fort Green Springs, Florida. The UTM coordinates are Zone 17, 405.02 km East, and 3057.18 km North.

STATEMENT OF BASIS

This air pollution construction permit revision is issued under the provisions of Chapter 403 of the Florida Statutes (F.S.), and Chapters 62-4, 62-204, 62-210, 62-212, 62-296, and 62-297 of the Florida Administrative Code (F.A.C.).



Joseph Kahn, Director
Division of Air Resource Management



Effective Date

NOTICE OF FINAL PERMIT

In the Matter of an
Application for Permit by:

Hardee Power Partners
6695 North County Road 663
Fort Green Springs, FL 33834

Air Permit No. 0490015-008-AC
PSD Permit No. PSD-FL-140B
Hardee Power Partners
Heat Input Increases for CT-2B

Authorized Representative:
Alex C. George, Vice President

Enclosed is final air Permit No. 0490015-008-AC, which increases the maximum permitted heat input rates for Unit CT-2B from 880 to 950 MMBtu per hour when firing natural gas and from 950 to 1060 MMBtu per hour when firing distillate oil. The combustion turbine is installed at the Hardee Power Station, which is located in Hardee County at 6695 North County Road 663 North in Fort Green Springs, Florida. This permit is issued pursuant to Chapter 403, Florida Statutes (F.S.). Any party to this order (permit) has the right to seek judicial review of the permit pursuant to Section 120.68, F.S. by filing a Notice of Appeal pursuant to Rule 9.110 of the Florida Rules of Appellate Procedure, with the Clerk of the Department of Environmental Protection in the Office of General Counsel (Mail Station #35, 3900 Commonwealth Boulevard, Tallahassee, Florida, 32399-3000); 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 days from the date this order is filed with the Clerk of the Department.

Executed in Tallahassee, Florida.



Trina Vielhauer, Chief
Bureau of Air Regulation

CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this Notice of Final Permit (including the Final Permit) was sent by electronic mail with received receipt requested before the close of business on 10/4/07 to the persons listed:

- Mr. Alex C. George, Hardee Power Partners (ageorge@invenergyservices.com)
- Mr. Frank Sarduy, Hardee Power Partners (fsarduy@invenergyservices.com)
- Mr. Thomas W. Davis, ECT (tdavis@ectinc.com)
- Ms. Cindy Zhang-Torres, SWD Office (Cindy.Zhang-Torres@dep.state.fl.us)
- Mr. Mike Halpin, Siting Office (Mike.Halpin@dep.state.fl.us)
- Ms. Katy Forney, EPA Region 4 (forney.kathleen@epa.gov)
- Mr. Jim Little, EPA Region 4 (little.james@epa.gov)
- Mr. Dee Morse, NPS (dee_morse@nps.gov)

Clerk Stamp

FILING AND ACKNOWLEDGMENT FILED, on this date, pursuant to §120.52, F.S., with the designated Department Clerk, receipt of which is hereby acknowledged.


(Clerk)

10/4/07
(Date)

FINAL DETERMINATION

PERMITTEE

Hardee Power Partners
6695 North County Road 663
Fort Green Springs, FL 33834

PERMITTING AUTHORITY

Florida Department of Environmental Protection
Division of Air Resource Management
Bureau of Air Regulation, Air Permitting North Section
2600 Blair Stone Road, MS #5505
Tallahassee, Florida 32399-2400

PROJECT

Project No. 0490015-008-AC
PSD Permit Revision No. PSD-FL-140B
Hardee Power Station

This project authorizes increases in the maximum permitted heat input rates for Unit CT-2B from 880 to 950 MMBtu per hour when firing natural gas and from 950 to 1060 MMBtu per hour when firing distillate oil.

NOTICE AND PUBLICATION

The Department distributed the Intent to Issue Permit package on August 15, 2007. The applicant published the Public Notice of Intent to Issue in The Herald - Advocate on September 6, 2007. The Department received the proof of publication on September 13, 2007.

COMMENTS

No comments on the Draft Permit were received from the public, the Department's Southwest District Office, the EPA Region 4 Office, the National Park Service, or the applicant.

CONCLUSION

The final action of the Department is to issue the permit as drafted.

REVISED DRAFT PERMIT CONDITIONS

This permitting action revises the following specific condition in air construction Permit No. PSD-FL-140A (Project No. 0490015-002-AC). All other conditions in that permit remain unchanged.

SECTION III. EMISSIONS UNIT SPECIFIC CONDITIONS

3. Permitted Capacity: The combustion turbine shall operate only in simple-cycle mode and generate a nominal 75 MW of electrical power. Operation of this unit shall not exceed ~~880~~ 950 MMBTU per hour of heat input from firing natural gas nor ~~950~~ 1060 MMBTU per hour of heat input from firing low sulfur distillate oil. The maximum heat inputs are based on the lower heating value (LHV) of each fuel, an inlet air supply cooled to 59°F, a relative humidity of 60%, an ambient air pressure of 14.7 psi, and 100% of base load. Therefore, maximum heat input rates will vary depending upon ambient conditions and the combustion turbine characteristics. Manufacturer's performance curves, corrected for site conditions or equations for correction to other ambient conditions, shall be provided to the Permitting and Compliance Authorities within 45 days of completing the initial compliance testing. [Design, Rule 62-210.200, F.A.C.]