



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

August 9, 2007

ELECTRONIC MAIL - RECEIVED RECEIPT REQUESTED

Mr. Jason Goodwin, Director – Environmental Health and Safety
Calpine Corporation
717 Texas Avenue, Suite 1000
Houston, Texas 77002

Re: Request for Additional Information
Auburndale Energy Complex
Project No. 1050221-012-AC (PSD-FL-185)
Combined Cycle Gas Turbine (EU-001) Heat Input Increase

Dear Mr. Goodwin:

On July 5, 2007, the Department received your application for an air construction permit to increase the maximum heat input to combined cycle gas turbine (EU-001) by approximately 11 percent when firing natural gas in the wet compression mode at the Auburndale Energy Complex. The application is incomplete. In order to continue processing your application, the Department will need the additional information requested below. Should your response to any of the items below require new calculations, please submit the new calculations, assumptions, reference material and appropriate revised pages of the application form.

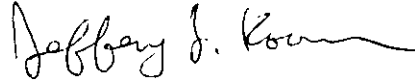
1. Please provide actual capacity information for the combined cycle gas turbine to support your request for an increase in the permitted heat input rate. Provide actual short-term heat input rates that validate the curve in Figure 1.
2. Provide the actual annual fuel firing rates and heat input rates for the combined cycle gas turbine for the last 5 years of operation.
3. Summarize the actual NO_x emissions based on CEMS data and CO emissions based on test data from the combined cycle gas turbine for the last 5 years.
4. Provide actual NO_x data supporting operation at the increased heat input rate.
5. Please estimate the emissions increases expected from the increase in heat input. Compare the projected actual emissions to baseline emissions as defined in 62-210.200, 62-210.370, and 62-212.300, F.A.C. Will the predicted increases exceed the PSD significant emissions rates?

The Department will resume processing your application after receipt of the requested information. 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 responses to Department requests for additional information of an engineering nature. For any material changes to the application, please include a new certification statement by the authorized representative or responsible official. You are reminded that Rule 62-4.055(1), F.A.C. requires applicants to respond to requests for information within 90 days or to provide a written request for an additional period of time to submit the information.

REQUEST FOR ADDITIONAL INFORMATION

If you have any questions regarding this matter, please contact the project engineer, Bruce Thomas, at 850/488-0114.

Sincerely,



Jeffery F. Koerner, Administrator
Air Permitting North Section

This letter was sent by electronic mail with received receipt requested to the following people:

Mr. Jason Goodwin, Calpine Corporation (jgoodwin@calpine.com)
Ms. Heidi Whidden, Calpine Corporation (hwhidden@calpine.com)
Mr. Tomas Davis, ECT (tdavis@ectinc.com)
Mr. Mike Halpine, (mike.halpine@dep.state.fl.us)
Ms. Cindy Zhang-Torres, SWD (Cindy.Zhang-Torres@dep.state.fl.us)
Ms. Kathleen Forney (forney.kathleen@epa.gov)
Mr. Jim Little, EPA Region 4 (little.james@epa.gov)
Mr. Dee Morse, National Park Service (Dee_Morse@nps.gov)

JFK/bt

Harvey, Mary

From: Harvey, Mary
Sent: Thursday, August 09, 2007 3:25 PM
To: 'Mr. Jason Goodwin, Calpine Corporation'; 'Ms. Heidi Whidden, Calpine Corporation'; 'Mr. Tomas Davis, ECT'; 'Mr. Mike Halpine,; Zhang-Torres; 'Ms. Kathleen Forney'; 'Mr. Jim Little, EPA Region 4'; 'Mr. Dee Morse, National Park Service'
Cc: Thomas, Bruce X.; Adams, Patty; Gibson, Victoria
Subject: Letter - Calpine Corporation - Jason Goodwin - Project #1050221-012-AC (PSD-FL-185)
Attachments: Letter - Calpine Corporation - Project #1050221-012-AC.pdf

Tracking:	Recipient	Delivery	Read
	'Mr. Jason Goodwin, Calpine Corporation'		
	'Ms. Heidi Whidden, Calpine Corporation'		
	'Mr. Tomas Davis, ECT'		
	'Mr. Mike Halpine,'	Failed: 8/9/2007 3:25 PM	
	Zhang-Torres		Read: 8/9/2007 3:39 PM
	'Ms. Kathleen Forney'		
	'Mr. Jim Little, EPA Region 4'		
	'Mr. Dee Morse, National Park Service'		
	Thomas, Bruce X.		
	Adams, Patty		Read: 8/14/2007 9:52 AM
	Gibson, Victoria		Read: 8/9/2007 3:30 PM

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Thank you,

8/14/2007

Harvey, Mary

From: Forney.Kathleen@epamail.epa.gov
Sent: Tuesday, August 14, 2007 5:49 PM
To: Harvey, Mary
Cc: Little.James@epamail.epa.gov
Subject: Re: Letter - Calpine Corporation - Jason Goodwin - Project #1050221-012-AC (PSD-FL-185)
Attachments: Letter - Calpine Corporation - Project #1050221-012-AC.pdf



Letter - Calpine
Corporation -...

Thanks we got this letter

Katy

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>

08/09/2007 03:25
PM

To

"Mr. Jason Goodwin, Calpine
Corporation"
<jgoodwin@calpine.com>, "Ms.
Heidi Whidden, Calpine
Corporation"
<hwhidden@calpine.com>, "Mr.
Tomas Davis, ECT"
<tdavis@ectinc.com>, "Mr. Mike
Halpine,"
<mike.halpine@dep.state.fl.us>,
"Zhang-Torres"
<Cindy.Zhang-Torres@dep.state.fl.
us>, Kathleen
Forney/R4/USEPA/US@EPA, James
Little/R4/USEPA/US@EPA, "Mr. Dee
Morse, National Park Service"
<Dee_Morse@nps.gov>

cc

"Thomas, Bruce X."
<Bruce.X.Thomas@dep.state.fl.us>,
"Adams, Patty"
<Patty.Adams@dep.state.fl.us>,
"Gibson, Victoria"
<Victoria.Gibson@dep.state.fl.us>

Subject

Letter - Calpine Corporation -
Jason Goodwin - Project
#1050221-012-AC (PSD-FL-185)

Harvey, Mary

From: Harvey, Mary
Sent: Thursday, August 09, 2007 3:28 PM
To: Halpin, Mike
Cc: Thomas, Bruce X.
Subject: FW: Letter - Calpine Corporation - Jason Goodwin - Project #1050221-012-AC (PSD-FL-185)
Attachments: Letter - Calpine Corporation - Project #1050221-012-AC.pdf

Tracking:	Recipient	Delivery	Read
	Halpin, Mike	Delivered: 8/9/2007 3:28 PM	Read: 8/9/2007 3:38 PM
	Thomas, Bruce X.	Delivered: 8/9/2007 3:28 PM	Read: 8/9/2007 3:29 PM

From: Harvey, Mary
Sent: Thursday, August 09, 2007 3:25 PM
To: 'Mr. Jason Goodwin, Calpine Corporation'; 'Ms. Heidi Whidden, Calpine Corporation'; 'Mr. Tomas Davis, ECT'; 'Mr. Mike Halpine,; Zhang-Torres; 'Ms. Kathleen Forney'; 'Mr. Jim Little, EPA Region 4'; 'Mr. Dee Morse, National Park Service'
Cc: Thomas, Bruce X.; Adams, Patty; Gibson, Victoria
Subject: Letter - Calpine Corporation - Jason Goodwin - Project #1050221-012-AC (PSD-FL-185)

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Thank you,

8/14/2007

Harvey, Mary

From: Adams, Patty
To: Harvey, Mary
Sent: Tuesday, August 14, 2007 9:52 AM
Subject: Read: Letter - Calpine Corporation - Jason Goodwin - Project #1050221-012-AC (PSD-FL-185)

Your message

To: 'Mr. Jason Goodwin, Calpine Corporation'; 'Ms. Heidi Whidden, Calpine Corporation'; 'Mr. Tomas Davis, ECT'; 'Mr. Mike Halpine'; Zhang-Torres; 'Ms. Kathleen Forney'; 'Mr. Jim Little, EPA Region 4'; 'Mr. Dee Morse, National Park Service'
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Subject: Letter - Calpine Corporation - Jason Goodwin - Project #1050221-012-AC (PSD-FL-185)
Sent: 8/9/2007 3:25 PM

was read on 8/14/2007 9:52 AM.

Harvey, Mary

From: Dee_Morse@nps.gov
Sent: Thursday, August 09, 2007 6:19 PM
To: Harvey, Mary
Subject: Letter - Calpine Corporation - Jason Goodwin - Project #1050221-012-AC (PSD-FL-185)

Return Receipt

Your Letter - Calpine Corporation - Jason Goodwin - Project
document: #1050221-012-AC (PSD-FL-185)

was Dee Morse/DENVER/NPS
received
by:

at: 08/09/2007 04:18:35 PM

Harvey, Mary

From: Zhang-Torres
To: Harvey, Mary
Sent: Thursday, August 09, 2007 3:40 PM
Subject: Read: Letter - Calpine Corporation - Jason Goodwin - Project #1050221-012-AC (PSD-FL-185)

- Your message

To: 'Mr. Jason Goodwin, Calpine Corporation'; 'Ms. Heidi Whidden, Calpine Corporation'; 'Mr. Tomas Davis, ECT'; 'Mr. Mike Halpine'; Zhang-Torres; 'Ms. Kathleen Forney'; 'Mr. Jim Little, EPA Region 4'; 'Mr. Dee Morse, National Park Service'
Cc: Thomas, Bruce X.; Adams, Patty; Gibson, Victoria
Subject: Letter - Calpine Corporation - Jason Goodwin - Project #1050221-012-AC (PSD-FL-185)
Sent: 8/9/2007 3:25 PM

was read on 8/9/2007 3:39 PM.

Harvey, Mary

From: Tom Davis [tdavis@ectinc.com]
Sent: Thursday, August 09, 2007 3:27 PM
To: Harvey, Mary
Subject: RE: Letter - Calpine Corporation - Jason Goodwin - Project #1050221-012-AC (PSD-FL-185)

From: Harvey, Mary [mailto:Mary.Harvey@dep.state.fl.us]
Sent: Thursday, August 09, 2007 3:25 PM
To: Mr. Jason Goodwin, Calpine Corporation; Ms. Heidi Whidden, Calpine Corporation; Mr. Tomas Davis, ECT; Mr. Mike Halpine,; Zhang-Torres; Ms. Kathleen Forney; Mr. Jim Little, EPA Region 4; Mr. Dee Morse, National Park Service
Cc: Thomas, Bruce X.; Adams, Patty; Gibson, Victoria
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Thank you,

8/14/2007

Harvey, Mary

From: Gibson, Victoria
To: Harvey, Mary
Sent: Thursday, August 09, 2007 3:30 PM
Subject: Read: Letter - Calpine Corporation - Jason Goodwin - Project #1050221-012-AC (PSD-FL-185)

Your message

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Harvey, Mary

From: Heidi Whidden [HWhidden@calpine.com]
Sent: Thursday, August 09, 2007 3:36 PM
To: Harvey, Mary
Cc: Heidi Whidden
Subject: RE: Letter - Calpine Corporation - Jason Goodwin - Project #1050221-012-AC (PSD-FL-185)

Received. Thank you!

From: Harvey, Mary [mailto:Mary.Harvey@dep.state.fl.us]
Sent: Thursday, August 09, 2007 3:25 PM
To: Jason Goodwin; Heidi Whidden; Mr. Tomas Davis, ECT; Mr. Mike Halpine;; Zhang-Torres; Ms. Kathleen Forney; Mr. Jim Little, EPA Region 4; Mr. Dee Morse, National Park Service
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To: Halpin, Mike
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was read on 8/9/2007 3:29 PM.

Harvey, Mary

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To: Harvey, Mary
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