



DOCKET

08-AFC-3

DATE SEP 15 2009

RECD SEP 17 2009

September 15, 2009

Dockets Unit
California Energy Commission
1516 Ninth Street, MS 4
Sacramento, CA 95814

RE: Marsh Landing Generating Station
Application for Certification 08-AFC-03

On behalf of Mirant Marsh Landing, LLC (Mirant Marsh Landing), the applicant for the Marsh Landing Generating Station (MLGS), we are pleased to submit this Amendment to the MLGS Application for Certification (AFC). Enclosed are the following documents:

- Sixty print copies of the Amendment to the Application for Certification
- Sixty-five CDs containing the Amendment
- **Five copies of a DVD containing Air Quality and Public Health Modeling files**

On May 30, 2008, Mirant Marsh Landing filed an AFC with the California Energy Commission (CEC), seeking approval to construct and operate the MLGS. Mirant Marsh Landing now submits this amendment to the AFC to describe proposed modifications to the MLGS project design. As described in the AFC, the MLGS was designed to be a nominal 930-megawatt (MW) natural-gas-fired electricity generating facility consisting of four power blocks: two Siemens Flex Plant 10 (FP10) units operating in combined-cycle mode; and two Siemens 5000F combustion turbine units operating in simple-cycle mode (Simple Cycle units). The two FP10 combined-cycle units were designed to be intermediate load units and were expected to operate at a 40 to 50 percent annual capacity factor. The two Simple Cycle units were designed as peaking units and were expected to operate at less than 10 percent annual capacity factor.

The modified MLGS will still consist of four power blocks within the same 27-acre site, but the power blocks will be four Siemens 5000F combustion turbine units operating in simple-cycle mode. The modified MLGS will use the same four Siemens combustion turbines as originally proposed in the AFC, but all four combustion turbines will operate in simple-cycle mode. As so modified, the MLGS will be a nominal 760-MW facility (at 75 degrees Fahrenheit [°F] temperature and 54 percent relative humidity) that is designed to provide peaking power and is expected to operate at a maximum 20 percent annual capacity factor. The MLGS will be

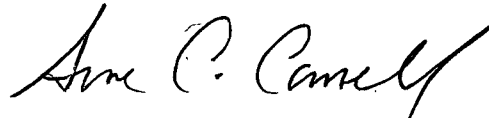
capable of producing 719 MW during peak July conditions (103.9 °F temperature and 31 percent relative humidity).

From a construction standpoint, the four Simple Cycle units are a less complex facility than the four power blocks originally proposed in the AFC. Construction is estimated to begin in late 2010 or early 2011. Commercial operation for the MLGS is expected to commence on May 1, 2013.

The elimination of the combined-cycle FP10 units and the reduction in the project's maximum annual capacity factor, also greatly reduces the project's total water consumption to approximately 50 acre-feet per year. With this reduced water use, it is no longer feasible to undertake the capital improvements that would be needed to facilitate the use of recycled water supplied by Delta Diablo Sanitation District. To serve the project's reduced need for process water, Mirant Marsh Landing proposes to use brackish groundwater to be supplied from new groundwater wells. The new wells will be located on the adjacent Contra Costa Power Plant property.

Please include this document in the AFC record.

URS Corporation



Anne Connell
Project Manager

Enclosures as stated

CC: Mike Monasmith

OVERSIZE DOCUMENT

- Too Large to Scan
- No Digital Version Available
- The complete document can be found in the Dockets Unit.



BEFORE THE ENERGY RESOURCES CONSERVATION AND DEVELOPMENT
COMMISSION OF THE STATE OF CALIFORNIA
1516 NINTH STREET, SACRAMENTO, CA 95814
1-800-822-6228 – WWW.ENERGY.CA.GOV

APPLICATION FOR CERTIFICATION
FOR THE MARSH LANDING
GENERATING STATION

DOCKET No. 08-AFC-3

PROOF OF SERVICE
(REVISED 5/22/09)

APPLICANT

Chuck Hicklin, Project Manager
Mirant Corporation
P.O. Box 192
Pittsburg, CA 94565
E-mail preferred
chuck.hicklin@mirant.com

Jonathan Sacks, Project Director
Steven Nickerson
Mirant Corporation
1155 Perimeter Center West
Atlanta, GA, 30338
E-mail preferred
jon.sacks@mirant.com
steve.nickerson@mirant.com

CONSULTANTS

Anne Connell
Dale Shileikis
URS Corporation
221 Main Street, Suite 600
San Francisco, CA 94105-1917
E-mail preferred
Anne_Connell@URSCorp.com
Dale_shileikis@URSCorp.com

COUNSEL FOR APPLICANT

Lisa Cottle
Karleen O'Connor
Winston & Strawn LLP
101 California Street
San Francisco, CA 94111-5802
E-mail preferred
lcottle@winston.com
koconnor@winston.com

INTERESTED AGENCIES

California ISO
e-recipient@caiso.com

Elena Miller
Public Adviser
publicadviser@energy.state.ca.us

INTERVENORS

California Unions for Reliable
Energy ("CURE")
Gloria D. Smith & Marc D. Joseph
Adams Broadwell Joseph &
Cardozo
601 Gateway Boulevard, Suite 1000
South San Francisco, California
94080
gsmith@adamsbroadwell.com
mdjoseph@adamsbroadwell.com

ENERGY COMMISSION

JAMES D. BOYD
Vice Chair & Presiding Member
jboyd@energy.state.ca.us

KAREN DOUGLAS
Chair & Associate Member
kldougla@energy.state.ca.us

Paul Kramer
Hearing Officer
pkramer@energy.state.ca.us

Mike Monasmith
Project Manager
mmonasmi@energy.state.ca.us

Dick Ratliff
Staff Counsel
dratliff@energy.state.ca.us

DECLARATION OF SERVICE

I, Catherine Short, declare that on September 16, 2009, I served and filed copies of the attached Application of Certification Amendment. The original document, filed with the Docket Unit, is accompanied by a copy of the most recent Proof of Service list, located on the web page for this project at:

[<http://www.energy.ca.gov/sitingcases/marshlanding/index.html>]. The document has been sent to both the other parties in this proceeding (as shown on the Proof of Service list) and to the Commission's Docket Unit, in the following manner:

(Check all that Apply)

For service to all other parties:

sent electronically to all email addresses on the Proof of Service list;

by personal delivery or by depositing in the United States mail at San Francisco, California with first-class postage thereon fully prepaid and addressed as provided on the Proof of Service list above to those addresses **NOT** marked "email preferred."

AND

For filing with the Energy Commission:

sending an original paper copy and one electronic copy, mailed and emailed respectively, to the address below (**preferred method**);

OR

depositing in the mail an original and 12 paper copies, as follows:

CALIFORNIA ENERGY COMMISSION

Attn: Docket No. 08-AFC-3
1516 Ninth Street, MS-4
Sacramento, CA 95814-5512

docket@energy.state.ca.us

I declare under penalty of perjury that the foregoing is true and correct.

