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Carlsbad Energy Center LLC

September 11, 2007

Mr. B. B. Blevins
Executive Director
California Energy Commission
1516 Ninth Street, MS 39
Sacramento, CA 95814

DOCKET	
07-AFC-6	
DATE	SEP 11 2007
RECD.	SEP 14 2007

RE: Application for Certification for the Carlsbad Energy Center Project

Dear Mr. Blevins:

Pursuant to the provisions of Title 20, California Code of Regulations, Carlsbad Energy Center LLC hereby submits this Application for Certification (AFC) to the California Energy Commission for the Carlsbad Energy Center Project (CECP) to be located at the Encina Power Station in Carlsbad, California. Carlsbad Energy Center LLC is an indirect wholly owned subsidiary of NRG Energy, Inc., which also indirectly owns Cabrillo Power I LLC, the owner of the existing Encina Power Station. The CECP project is to be located on approximately 23 acres at the existing Encina Power Station.

Carlsbad Energy Center LLC is proposing to develop the CECP to meet the electrical resource needs identified by San Diego Gas and Electric (SDG&E). This includes contributing to electricity reserves that will ensure a reliable energy supply and local and regional electrical transmission grid support in San Diego County and the southern California region.

The design of the Project utilizes power generating technology that provides rapid response to demand, while at the same time providing combined-cycle efficiencies. This unique balancing makes CECP an invaluable and important contribution to power generation in California. Another critical component of the CECP generating units is that the Project will be air cooled, thereby avoiding the need to connect to the existing Encina Power Station's sea water once-through-cooling system. For the Project's raw water needs, CECP will use California Code of Regulations (CCR) Title 22 reclaimed water, thereby, minimizing its use of potable water.

CECP will be a 540.4 megawatt (MW) net and 558 MW gross combined-cycle generating facility configured using two trains with one natural-gas-fired combustion turbine and one steam turbine per train (or unit). The CECP units will connect to the electrical transmission system via 138 kV and 230 kV lines that connect to the respective, nearby existing SDG&E switchyards at the existing Encina Power Station.

Through the CECP, Carlsbad Energy Center LLC offers a number of significant benefits and advantages including:

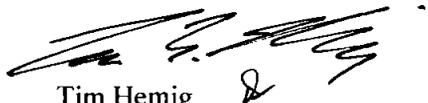
- Meeting the expanding need for new, highly efficient, reliable electrical generating resources located in the load center of the San Diego region.

- Improving San Diego electrical system reliability through fast starting generating technology, creating a rapid responding resource for peak demand situations and providing a dependable resource to backup less reliable renewal resources like wind generation.
- Modernizing the existing aging electrical generation infrastructure in north coastal San Diego County. Modernization of aging electrical generation infrastructure is a primary objective shared by energy and environmental agencies in California, including the California Energy Commission, California Public Utilities Commission, California Independent System Operator, and publicly owned utilities.
- Accomplishing a “brownfield” redevelopment of an existing power plant for a net increase in electrical capacity to support electrical system and local resource supply requirements in the San Diego area. The California Public Utility Commission has a stated preference for “brownfield” power projects pursuant to Decision No. 04-12-048.
- Facilitating the retirement of existing Units 1 – 3 at the Encina Power Station consistent with the City of Carlsbad’s land use programs, including the South Carlsbad Coastal Redevelopment Plan, which has a primary Plan objective to “Facilitate the redevelopment of the Encina Power Generating Facility to a physically smaller, more efficient power generating plant.” The CECP also sets in motion actions that are likely to facilitate the eventual retirement of Units 4 and 5 at the Encina Power Station.
- Utilizing existing Encina Power Station infrastructure to reduce environmental impacts and costs. The infrastructure at the Encina Power Station will support the CECP with only minor new connections including to the existing high pressure natural gas, industrial/sanitary sewer, potable water, and the existing SDG&E 138kV and 230kV switchyards at the Encina Power Station.
- Utilizing California Code of Regulations (CCR) Title 22 reclaimed water raw water source for the CECP. The use of reclaimed water by CECP represents a significant Project benefit as use of potable water will be limited to sanitary uses and fire protection.
- Retirement of 225 million gallons per day of seawater once-through-cooling pumping capacity at the existing Encina Power Station through the shutdown of existing Encina Power Station Units 1 – 3.

As an officer of Carlsbad Energy Center LLC, I hereby attest under penalty of perjury that the contents of this AFC are true and accurate to the best of my knowledge.

Dated this 11 day of September 2007.

Sincerely,
Carlsbad Energy Center LLC


Tim Hemig
Vice President

Enclosures:
Application for Certification
CEC Filing Fee (check)

CH2MHILL TRANSMITTAL

CALIF ENERGY COMMISSION
07-AFC-6
 SEP 14 2007
 RECEIVED IN DOCKETS

To: California Energy Commission
 1516 Ninth Street
 Sacramento, CA 95814

From: Robert Mason
 3 Hutton Centre Drive
 Suite 200
 Santa Ana, CA 92707

Attn: Dr. James Reede and the CEC Dockets Unit

Date: September 13, 2007

Re: Carlsbad Energy Center Project

We Are Sending You:

Method of shipment: Hand Delivery

- | | | | | |
|---|----------------|---|--------------------------|----------|
| X | Attached | | Under separate cover via | |
| | Shop Drawings | X | Documents | Tracings |
| | Prints | | Specifications | Catalogs |
| | Copy of letter | X | Other: CDs | |

Quantity	Description
1	Transmittal letter
1	Check for filing fee
75	Volumes 1 and 2 of the Application of Certification (hard copy)
75	Volumes 1 and 2 of the Application of Certification (CD-ROM)
5	Appendix 5.4A, Representative Seismic Geological and Geotechnical Report Data
5	Appendix 5.14A, Phase I ESA
5	Appendix 5.15C, Construction SWPPP
5	Appendix 5.15D, Industrial SWPPP

5 AIR QUALITY MODELING FILES (CD-ROM)

If the material received is not as listed, please notify us at once.