December 21, 2006

APPLICANT: NRG Energy, Inc.

SUBJECT: SUMMARY OF DECEMBER 14, 2006, CATEGORY 1 MEETING WITH NRG ENERGY INC. REGARDING AN INTENDED FUTURE APPLICATION FOR A COMBINED LICENSE FOR TWO UNITS AT THE SOUTH TEXAS PROJECT SITE

On December 14, 2006, the staff met with representatives of NRG Energy, Inc. (NRG) and the South Texas Project Nuclear Operating Company (STPNOC) to continue discussing NRG's and STPNOC's (the applicants') plans to apply for a combined license (COL) for the construction and operation of two Advanced Boiling Water Reactors (ABWRs) at the South Texas Project site, southwest of Houston, Texas. The applicants refer to these future units as STP Units 3 and 4. A list of those in attendance is provided as Enclosure 1.

Enclosure 2 contains the meeting presentation slides, which can be accessed through the Agencywide Documents Access and Management System (ADAMS). This system provides text and image files of NRC's public documents. The handouts mentioned above may be accessed through the ADAMS system under Accession No. ML063530240. If you do not have access to ADAMS or if there are problems in accessing the handouts located in ADAMS, contact the NRC Public Document Room (PDR) reference staff at 1-800-397-4209, 301-415-4737 or by e-mail to pdr@nrc.gov.

The applicants stated that they plant to submit the COL application in late 2007. In support of this future application, they stated that General Electric intends to submit a number of topical reports on aspects of the ABWR. A list of these proposed topical reports, along with a proposed schedule for submitting them, is in Enclosure 2. The first of these topical reports is scheduled for December 29, 2007, and will address a Tier I design departure; specifically, it will address the use of a Weir turbine as opposed to a Terry turbine in the Reactor Core Isolation Cooling system. Other planned topical reports to be submitted ahead of the COL application include one on ABWR safety-related instrumentation and control (I&C) architecture, one on common equipment and structures, and one on the plant medium voltage electrical system (another Tier I departure).

The applicants addressed errors that they identified in the ABWR Design Certification Document (DCD). In the preparation of specific Figures in Chapters 6 and 19 of the DCD, the models employed did not accurately capture the effect of the post-accident decay of Actinides. This, in turn, led to incorrect calculated post-accident containment pressures for these figures. General Electric intends to correct these figures using the Design Certification amendment process when it is final. (We currently anticipate that this process will be final in early 2007). The figures currently in the DCD were developed using GE7 fuel inputs. This fuel has not been used for several years, so General Electric intends to prepare the Design Certification amendment using GE14 fuel inputs. General Electric stated that they can show that the figures produced using the GE14 inputs will be bounding for GE 7 fuel.

The applicants provided an overview of their I&C design engineering. They stated that General Electric is preparing a topical report regarding safety system logic and control and that this topical report should be submitted sometime in the spring of 2007. They described the key features of the ABWR I&C design and of the ABWR control room. They also addressed control room human factors engineering.

The applicants suggested that the next pre-application meeting be held in January 2007. Suggested topics for this meeting include quality assurance, security, and an update of the application schedule.

/RA/

George F. Wunder, Project Manager
ESBWR/ABWR Projects Branch 1
Division of New Reactor Licensing
Office of New Reactors

Project No. 749

Enclosures:
1. Attendance List
2. NRG/STPNOC Slides (ML063530240)

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OFFICE	PM:NGE1	BC:NGE1
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DATE	12/20/2006	12/21/2006

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MEETING WITH NRG ENERGY, INC.
REGARDING INTENDED FUTURE APPLICATION
FOR A COL FOR TWO UNITS AT THE STP SITE

ATTENDANCE LIST

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A. Bjornsen	NRO
G. Wunder	NRO
A. Hoffman	NRR
C. Ng	NRR
J. Bongarra	NRR
H. Li	NRR
I. Jung	NRR
R. Beacom	NRR
N. Sanfilippo	NSIR
B. Musico	NSIR
E. Robinson	NSIR
M. Boggi	RES
G. Gibson	STPNOC
J. Hawks	STPNOC
S. Thomas	STPNOC
T. Hurst	STPNOC
J. Mauck	HTC/STP
S. Stark	GE
P. Campbell	GE
S. Bowman	GE
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A. Wyche	Bechtel
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A. Levin	AREVA
A. White	Baker Botts LLP
J. Mihalcik	Constellation Energy
R. Olson	ENERCON
L. Kass	NEI
M. Beaumont	Washington Group Intl.

South Texas Project Future License
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