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Project 717

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U.S. Nuclear Regulatory Commission  
ATTN: Document Control Desk  
One White Flint North  
11555 Rockville Pike  
Rockville, MD 20852-2738

Attention: Chief, Information Management Branch  
Program Management  
Policy Development and Analysis Staff

Reference: Letter S. Hucik, GE to S. Collins, NRC, Pre-application Review of ESBWR,  
dated April 18, 2002

Subject: **TRACG Qualification for ESBWR, NEDC-33080 - Document Transmittal  
for Pre-Application Review of ESBWR**

The CD accompanying this letter contains the GE non-proprietary report TRACG Qualification for ESBWR, NEDC-33080. It is item number 6 in Enclosure 1. This report is submitted in support of the pre-application review of the ESBWR (Reference).

GE is seeking approval for the use of the TRACG code for the one-time application for Design Certification of the ESBWR. The report NEDC-33080, represents one of several reports that support the NRC review of TRACG for this application. The ESBWR Design Description, NEDC-33084 (Item 1, Enclosure 1) provides a description of the reference ESBWR design. The ESBWR Test and Analysis Program Description (TAPD), NEDC-33079, (Item 2, Enclosure 1) defines the necessary qualification program for the ESBWR. The TRACG Model Description, NEDE-32176P, (Item 3, Enclosure 1) was submitted to the staff in December 1999. The overall qualification of TRACG for the ESBWR consists of three parts. TRACG Qualification, NEDE-32177P (Item 4, Enclosure 1) was submitted in January 2000. TRACG Qualification for SBWR, NEDC-32725P (Item 5, Enclosure 1) and the companion TRACG Qualification for ESBWR, NEDC-33080, (Item 6, Enclosure 1), complete the TRACG qualification basis for ESBWR. The report TRACG Application for Anticipated Operational Occurrences Transient Analyses, NEDE-32906P (Item 11, Enclosure 1) forms the basis for application to Anticipated Operational Occurrences (AOOs) for the ESBWR.

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GE intends to follow a methodology identical to that approved by the NRC for operating BWRs, as described in NEDE-32906P. The report TRACG Application for ESBWR, NEDC-33083P (Item 12, Enclosure 1), completes the package. GE is seeking a single NRC SER on the package, for the application of TRACG to the ESBWR SSAR to be used for Design Certification.

If you have any questions about the information provided here, please contact Atam Rao at (408) 925-1885, or myself.

Sincerely,

  
C.J. Deacon

Enclosures

(1) List of Reports in Support of ESBWR Pre-application Review

cc: A. Cabbage USNRC (with enclosures and CD)  
J. Lyons USNRC (w/o enclosures)  
G.B. Stramback GE (with enclosures and CD)