



GE Nuclear Energy

A.S. Rao
Manager, New Reactor Development

General Electric Company
175 Curtner Avenue, M/C 365 San Jose, CA 95125-1014
408 925-1885 (phone) 408 925-6462 (facsimile)

Project 717

MFN 03-131
November 3, 2003

U.S. Nuclear Regulatory Commission
Document Control Desk
Washington, D.C. 20852-2738

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

Subject: **Response to Request for Additional Information (RAI) number 339 for
ESBWR Pre-application Review – Supplemental Information.**

GE Nuclear Energy is submitting, in enclosure 1, additional information in response to NRC RAI number 339. GENE's original responses to this RAI were included in the referenced letters.

If you have any questions about the information provided here, please let me know.

Sincerely,

Atambir S. Rao

DD68

Reference:

1. MFN 03-079, Letter From Sandra A. Delvin (GE) to NRC, August 22, 2003, SUBJECT: RESPONSE TO REQUEST FOR ADDITIONAL INFORMATION (RAI) NUMBERS (161, 162, 164, 176, 183, 184, 286, 292, 293, 295, 301, 323, 325, 339, and 382) FOR ESBWSR PRE-APPLICATION REVIEW
2. MFN 03-104, Letter From Sandra A. Delvin (GE) to NRC, September 24, 2003, SUBJECT: RESPONSE TO REQUEST FOR ADDITIONAL INFORMATION (RAI) NUMBERS (306 and 339) FOR ESBWSR PRE-APPLICATION REVIEW

Enclosures:

1. MFN 03-131, Response to NRC RAI number 339 – Supplemental Information - Non-proprietary Information

cc: A. Cabbage USNRC (with enclosure)
 J. Lyons USNRC (w/o enclosure)
 G.B. Stramback GE (with enclosure)
 P.T. Negus GE (with enclosure)
 A.S. Rao GE (with enclosure)
 K.K. Sedney GE (with enclosure)

MFN 03-131
Enclosure 1

General Questions related to the SBWR and ESBWR test reports

ENCLOSURE 1

MFN 03-131

Response to NRC RAI number 339 – Supplementary Information

MFN 03-131

Enclosure 1

General Questions related to the SBWR and ESBWR test reports

Q339. Please provide Paul Sherrer Institute (PSI) document ALPHA-703-0, "PANDA P-Series Test Specification," Dec. 5, 1997. Is there a PSI/TEPSS document comparing pretest predictions with PANDA P-series tests? If so, please provide the document. (Note that on ALPHA-716-0/Page13 for Test P1, it is stated that the global DW/WW pressure response of test data was as expected from pretest calculations.)

R339 Rev 2.

Since these tests were used as additional data for TRACG qualification, the key reports were the results, which were provided. The reports readily available to GE on the Panda P series tests have been provided in the ESBWR Test Report NEDC-33081, Rev 0. All the References were not available to GE but the final version of the Test Specification has been sent to GE's office in Washington, D.C. and will be available for review by the NRC.

The pretest predictions that were done for the program were documented in the "Technology Enhancement for Passive Safety Systems - TEPSS: Final Report", INNO-TEPSS(99)-D20, European Commission, Fourth Framework Programme on Nuclear Fission Safety, Contract FI4I-CT95-0008. Since these tests were used as additional data for the qualification of TRACG after the tests were run, the pretest predictions were of limited interest. GE does not own the rights to this report; however, we have contacted NRG and obtained their concurrence for NRC to review the "TEPSS" Report. A copy has been sent to GE's office in Washington, D.C. and it too will be available for review by the NRC.