

December 6, 2012

Dennis Madison
Southern Nuclear
Chairman, BWR Vessel and Internals Project
3420 Hillview Avenue
Palo Alto, CA 94304-1395

SUBJECT: U.S. NUCLEAR REGULATORY COMMISSION APPROVAL LETTER FOR
"BWRVIP-115-A: BWR [BOILING WATER REACTOR] VESSEL AND
INTERNALS PROJECT [(BWRVIP)], RAMA [RADIATION ANALYSIS
MODELING APPLICATION] FLUENCE METHODOLOGY BENCHMARK
MANUAL - EVALUATION OF REGULATORY GUIDE 1.190 BENCHMARK
PROBLEMS" (TAC NO. ME3903)

Dear Mr. Madison:

By letter dated February 8, 2010 (Agencywide Documents Access and Management System (ADAMS) Accession No. ML100540357), the BWRVIP submitted proprietary and non-proprietary versions of the report "BWRVIP-115-A: BWR Vessel and Internals Project, RAMA Fluence Methodology Benchmark Manual – Evaluation of Regulatory Guide 1.190 Benchmark Problems," for U.S. Nuclear Regulatory Commission (NRC) staff review.

The BWRVIP-115 report describes the RAMA code which will be applied in the reactor beltline region defined by the top and bottom planes of the active fuel and the inner wall of the biological shield. The methodology employs the RAMA computer code for evaluating the neutron flux from the core through the downcomer, vessel internals, and through the reactor pressure vessel wall.

The report compiles information associated with the NRC staff's review of BWRVIP-115; namely, it adds the 11 items compiled in Table C-1 of Appendix C to BWRVIP-115-A. These 11 items are revisions to reflect editorial changes, make the report consistent with regulatory guides and other BWRVIP topical reports, and respond to requests for additional information from the staff.

Based on its review of the changes documented in BWRVIP-115-A and summarized in Table C-1, the NRC staff has determined that the BWRVIP-115-A report is acceptable to the extent delineated in the NRC staff's original approval letter dated May 13, 2005 (ADAMS Accession No. ML051380572). The revisions to the topical report, submitted in the approved copy, do not affect the NRC's approval status of this topical report.

D. Madison

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If you have any questions or require any additional information, please feel free to contact the Project Manager for this topical report, Joseph J. Holonich, at 301-415-7297.

Sincerely,

/RA/

Sher Bahadur, Deputy Director
Division of Policy and Rulemaking
Office of Nuclear Reactor Regulation

Project No. 704

D. Madison

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If you have any questions or require any additional information, please feel free to contact the Project Manager for this topical report, Joseph J. Holonich, at 301-415-7297.

Sincerely,

/RA/

Sher Bahadur, Deputy Director
Division of Policy and Rulemaking
Office of Nuclear Reactor Regulation

Project No. 704

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NRR-106

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|--------|-----------|-----------|------------|-------------|-----------|
| NAME | JHolonich | DBaxley | CJackson | SStuchell | SBahadur |
| DATE | 11/6/2012 | 11/5/2012 | 11/27/2012 | 11/29/2012 | 12/6/2012 |

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