

March 1, 2006

Bill Eaton, BWRVIP Chairman
Entergy Operations, Inc.
Echelon One
1340 Echelon Parkway
Jackson, MS 39213-8202

SUBJECT: NRC APPROVAL LETTER FOR BWRVIP-57-A, "BWR VESSEL AND
INTERNALS PROJECT, INSTRUMENT PENETRATION REPAIR DESIGN
CRITERIA"

Dear Mr. Eaton:

By letter dated September 21, 2005, the Boiling Water Reactor Vessel and Internals Project (BWRVIP) submitted Proprietary Report BWRVIP-57-A, "BWR Vessel and Internals Project, Instrument Penetration Repair Design Criteria," for Nuclear Regulatory Commission (NRC) staff review. The BWRVIP-57-A report provides general design acceptance criteria for the temporary and permanent repair of BWR instrument penetrations. These guidelines are intended to maintain the structural integrity of the instrument penetrations during normal operation, postulated transient, and design basis accident conditions.

The BWRVIP-57-A report presents a compilation of information from the BWRVIP-57 report and the NRC staff final safety evaluation (SE) dated September 3, 2004, which includes the BWRVIP's associated responses to NRC staff requests for additional information (RAIs).

The NRC staff has reviewed the information in the BWRVIP-57-A report and has found that the report accurately incorporates all of the relevant information which was submitted by the BWRVIP in the documents noted above to support NRC staff approval of the report. The staff found that minimal revisions were made to the BWRVIP-57 report in the production of the BWRVIP-57-A report. These revisions are discussed in detail below.

The first revision was with respect to the deletion of text from Section 9.1, "Materials and Fabrication," and Section 9.2, "Pre-Installation As-Built Inspection," of the BWRVIP-57 report. In addition, the BWRVIP removed References 3-5 of the BWRVIP-57 report and replaced these references with a reference (Reference 5) to the BWRVIP-84 report, "Guidelines for Selection and Use of Materials and Repairs." The BWRVIP determined that the material and fabrication requirements would be removed from the BWRVIP-57 report since they are already contained in the BWRVIP-84 report. The staff found this acceptable because the material and fabrication requirements are adequately included in the BWRVIP-84 report.

The next revision was that the BWRVIP added Section 9.3, "Post Installation As-Built Inspection," to the BWRVIP-57 report for consistency with the other repair design criteria reports to ensure that the repair hardware is correctly installed. The staff determined that the BWRVIP adequately revised Section 9.3 of the BWRVIP-57 report to be consistent with the other repair design criteria regarding post installation as-built inspections.

For the last revision, the BWRVIP added Item (f) to Section 9.4, "Installation Cleanliness," of the BWRVIP-57 report that requires the evaluation to include the specific requirements of the utility's loose parts or foreign material exclusion program. The staff determined that the BWRVIP adequately revised Section 9.4 of the BWRVIP-57 report to enhance the evaluations for minimizing the in-vessel debris generation with respect to the instrument penetration repair.

Based on the discussion above, the staff has determined that the BWRVIP-57-A report is acceptable. Please contact Meena Khanna of my staff at (301) 415-2150 if you have any further questions regarding this subject.

Sincerely,

/RA/

William H. Bateman, Deputy Director
Division of Component Integrity
Office of Nuclear Reactor Regulation

cc: BWRVIP Service List

The next revision was that the BWRVIP added Section 9.3, "Post Installation As-Built Inspection," to the BWRVIP-57 report for consistency with the other repair design criteria reports to ensure that the repair hardware is correctly installed. The staff determined that the BWRVIP adequately revised Section 9.3 of the BWRVIP-57 report to be consistent with the other repair design criteria regarding post installation as-built inspections.

For the last revision, the BWRVIP added Item (f) to Section 9.4, "Installation Cleanliness," of the BWRVIP-57 report that requires the evaluation to include the specific requirements of the utility's loose parts or foreign material exclusion program. The staff determined that the BWRVIP adequately revised Section 9.4 of the BWRVIP-57 report to enhance the evaluations for minimizing the in-vessel debris generation with respect to the instrument penetration repair.

Based on the discussion above, the staff has determined that the BWRVIP-57-A report is acceptable. Please contact Meena Khanna of my staff at (301) 415-2150 if you have any further questions regarding this subject.

Sincerely,

/RA/

William H. Bateman, Deputy Director
Division of Component Integrity
Office of Nuclear Reactor Regulation

cc: BWRVIP Service List

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