

June 2, 2010

MEMORANDUM TO: Mark Tonacci, Chief
ESBWR/ABWR Projects Branch 2
Division of New Reactor Licensing
Office of New Reactors

FROM: John McKirgan, Chief */RA/*
Containment and Ventilation Branch
Division of Safety Systems and Risk Assessment
Office of New Reactors

SUBJECT: ACCEPTANCE REVIEW RESULTS FOR TOPICAL REPORT
WCAP-17065-P REV. 0 WESTINGHOUSE ADVANCED BOILING
WATER REACTOR SUBCOMPARTMENT ANALYSIS
METHODOLOGY USING GOTHIC RELATED TO THE SOUTH TEXAS
PROJECT UNIT 3 AND 4 COMBINED LICENSE

Containment and Ventilation Branch 2 (SBCV) has completed its acceptance review of the Topical Report WCAP-17065-P REV. 0 "Westinghouse Advanced Boiling Water Reactor Subcompartment Analysis Methodology Using GOTHIC" in support of the South Texas Project Units 3 and 4 Combined License Application. This review covered the following areas for which SBCV has primary review responsibilities as specified by Standard Review Plan 6.2.1.2 Subcompartment Analysis:

- Nodalization Schemes
- Initial Thermodynamic Conditions
- Vent Flow Path and Distribution of Mass and Energy Released

Completeness and Sufficiency

Based on our review, we have concluded that the application contains the information required by applicable regulations. However, some information will be requested to support the staff's confirmatory calculations. This information includes:

- Blowdown mass and energy release data
- Additional geometry data

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301-415-5722

The staff plans to request this data through a Request for Additional Information process in Phase 1 of the review of the Topical Report.

Schedule

SBCV estimates that it will take 240 hours to perform the review. This also includes confirmatory calculations as part of the review. The branch estimates that it will submit all RAI's no later than 08/31/2010. The following reviewers will be involved:

- Eric Miller- 160 Hours
- Andrzej Drozd- 80 Hours

Estimated Start Date: 06/01/2010

Estimated Finish Date: 11/30/2010

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