

Revised

**NRC STAFF AUDIT OF THE RESPONSES TO REQUEST FOR ADDITIONAL INFORMATION
LETTER NO. 417 CONCERNING STEAM DRYER DESIGN METHODOLOGY SUPPORTING
CHAPTER 3 OF THE ECONOMIC SIMPLIFIED BOILING WATER REACTOR DESIGN
CERTIFICATION DOCUMENT**

I. PURPOSE

The purpose of this electronic reading room audit is to review RAI responses by the GE Hitachi (GEH) staff that addresses RAI Letter No. 417 (ML13316B229 – cover letter, ML13316B654 – public version of RAIs, ML13316A822 – proprietary version of RAIs) and determine if the RAI responses are appropriate based on the discussion of the topics during a closed (proprietary) meeting held on November 1, 2013.

II. BACKGROUND AND AUDIT BASES

By letter dated August 24, 2005, GE Hitachi Nuclear Energy (GEH) submitted an application for final design approval and standard design certification of the economic simplified boiling water reactor (ESBWR) standard plant design pursuant to 10 CFR Part 52. The U.S. Nuclear Regulatory Commission (NRC) staff is performing a detailed review of this application to enable the staff to reach a conclusion on the safety of the proposed design.

RAI Letter No. 417 was needed to continue portions of the review as a result of the steam dryer audit conducted March 21 through 23, 2012 (ML12166A127), responses to RAI Letter No. 414 (ML120950046 – public version of RAIs, ML121180072 – proprietary version of RAIs), and responses to RAI Letter No. 415 (ML13086A071 – public version of RAIs, ML13086A090 – proprietary version of RAIs).

III. OBJECTIVES

The objective of the staff's electronic reading room audit is to review RAI responses to determine if they are appropriate, based on the discussion of the topics during a closed (proprietary) meeting held on November 1, 2013.

IV. REQUIRED GEH ATTENDEES AND REFERENCE MATERIAL (FROM APPLICANT)

During the audit, GEH should provide their responses to all RAIs in Letter No. 417.

V. SCOPE

This audit will consist of reviewing RAI responses that addresses RAI Letter No. 417.

VII. SCHEDULE AND DELIVERABLES

The audit is currently scheduled to take place on November 15 through 27 December 613, 2013. The staff will summarize the preliminary findings from the audit during a teleconference on the final day of the audit.

ML13343A055

VIII. AUDIT TEAM

The audit team is made up of the following individuals:

- David Misenhimer NRC (Project Manager)
- Theresa Clark NRC (Chief, Engineering Mechanics Branch)
- Yuken Wong NRC (Mechanical Engineer)
- Chakrapani Basavaraju NRC (Mechanical Engineer)
- Thomas Scarbrough NRC (Sr. Mechanical Engineer)
- Stephen A.Hambric Consultant (Consultant)
- Vik Shaw Consultant (Consultant)
- Richard Morante Consultant (Consultant)

IX. LOGISTICS

All material will be made available to the audit team via GEH's electronic reading room.

XI. DELIVERABLES

Audit Report – within 45 days after completion of the audit