

February 3, 2005

MEMORANDUM TO: File

FROM: Amy E. Cubbage, Project Manager **/RA/**
New, Research and Test Reactors Program
Division of Regulatory Improvement Programs
Office of Nuclear Reactor Regulation

SUBJECT: ESBWR PRE-APPLICATION REVIEW - SUMMARY OF
TELEPHONE CALL HELD ON JANUARY 27, 2005

This memorandum documents the results of a telephone conference between the NRC staff and General Electric (GE) on January 27, 2005.

A summary of the call is attached.

Project No. 717

Telephone Call Summary

Subject: Piping Analysis for ESBWR Design Certification

Date of Call: January 27, 2005

Participants

NRC

Amy Cubbage
Jerry Wilson
Davis Terao
Kamal Manoly
Mark Hartzman
George Thomas
Gin-Sien Guo
Steve Jones

Pre-Applicant

Robert Gamble
Kathy Sedney
Gerald Deaver
Kirti Doshi
J. Alan Beard

Referenced documents

<u>Accession Number</u>	<u>Title</u>	<u>Date</u>
ML050320316	ESBWR Piping Analysis handouts	January 27, 2005

Actions

<u>Topic</u>	<u>NRC</u>	<u>Applicant</u>
Public Meeting regarding piping analysis	Schedule public meeting in February	Propose date for public meeting Submit handouts in advance
Design Control Document (DCD) level of detail		Provide draft schematic of ESBWR control rod drive (CRD) system and schematic of ABWR CRD system for comparison of the level of detail proposed

Other Discussion:

The staff requested a public meeting to discuss the topic of piping analysis in more detail. The staff requested that General Electric (GE) discuss the piping analysis that would be provided in the DCD on a system by system basis including the rationale for what analysis would be completed for each system. The staff asked GE to provide additional information from the Lungmen Advanced Boiling Water Reactor (ABWR) project to demonstrate that thermal stresses were limiting for the Lungmen piping design and that the Lungmen experience is applicable to the ESBWR design. Lastly, the staff stated that GE should consider the impact of environmental effects on the Class 1 piping fatigue analyses, similar to what is required for license renewal of current GE plants. Hatch, Dresden/Quad Cities and Browns Ferry are examples of plants where environmental effects were considered in the Class 1 piping fatigue calculations for license extension.