

September 25, 2006

ORGANIZATION: General Electric Nuclear Energy (GE)  
PROJECT: Economic Simplified Boiling Water Reactor (ESBWR) Design  
Certification Review  
SUBJECT: SUMMARY OF MEETING HELD ON JUNE 19-22, 2006, TO DISCUSS  
THE ESBWR FUEL, CODES AND TOPICAL REPORTS

The Nuclear Regulatory Commission (NRC) held a meeting with General Electric Nuclear Energy (GE) on June 19-22, 2006, at GE's offices in Wilmington, NC, to discuss the ESBWR GE14E proposed fuel, proprietary topical reports on codes, and to provide clarification on the staff's draft Request for Additional Information (RAI) associated with Design Control Document (DCD) Tier 2, Revision 1, Sections 4.2, 4.3, and 4.4. A list of attendees is provided in Enclosure 1.

This meeting was closed to the public. During the meeting the NRC and GE discussed proprietary information pertaining to the ESBWR fuel design and codes, and related draft RAI. A non-proprietary summary of the meeting is provided in Enclosure 2. No handouts were provided at the meeting.

*/RA/*

Martha C. Barillas, Project Manager  
ESBWR Projects Branch  
Division of New Reactor Licensing  
Office of Nuclear Reactor Regulation

Docket No. 52-010

Enclosures: As stated

cc w/encls: See next page

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ADAMS ACCESSION NO: ML062650331

OFFICE	DNRL/PM	DNRL/BC
NAME	MBarillas	JColaccino
DATE	09/25/2006	09/25/2006

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Distribution for June 19-22, 2006, Meeting Summary dated September 25, 2006

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DLurie  
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**June 19-22, 2006 Meeting Attendance List**

<b>Name</b>	<b>Affiliation</b>
Peter Yarsky	NRR
Paul Clifford	NRR
Anthony Attard	NRR
James Gilmer	NRR
Martha Barillas	NRR
Crystal Thrall	NRR
Dan Lurie	RES
Pradid Saha	GENE
Robert Rand	GENE
Steven Shelton	GENE
Charles Franklin	Entergy
Ross Hickens	GENE
Jens Anderson	GENE
Scott Bowman	GENE
Russ Fawcett	GENE
Rosa Balboa	Dominion
Mike Withrow	Entergy
Wayne Marquino	GENE
Steve Moen	GENE
Carl Byer (via phone)	GENE
Dick Olsey	GENE via telecon
Kirk Shaeffer	GENE via telecon
John Hartson	GENE via telecon
Ed Gibo	GENE via telecon

## Non-proprietary Summary of June 19-22, 2006 Meeting

The purpose of the meeting was to discuss the ESBWR General Electric 14E (GE14E) proposed fuel, proprietary topical reports on codes, and to provide clarification on the staff's draft Request for Additional Information (RAI) associated with Design Control Document (DCD) Tier 2, Revision 1, Sections 4.2, 4.3, and 4.4. In a letter dated May 31, 2006, GE requested that this meeting be closed to public attendance because the topics of discussion were of a proprietary nature. The NRC staff reviewed the meeting topics and concluded that the information to be discussed were proprietary and that the meeting would be a closed meeting.

The NRC staff informed GE that the qualitative information provided in Topical Report NEDC-33237P, "GE14 for ESBWR-Critical Power Correlation, Uncertainty, and OLMCPR Development," regarding the development of the critical heat flux (CHF) correlation for the GE14E fuel design, does not contain sufficient quantitative data to justify the basis for the correlation uncertainties provided in the topical report. GE agreed to provide a revised topical report that would include additional quantitative and qualitative data justifying derivation of the uncertainties stated in the topical report.

The NRC staff informed GE of the need to submit updated revisions to the TGBLA physics code for staff review. GE stated the contents of the topical report NEDC-33239P, "GE14 for ESBWR Nuclear Design Report," constitutes the basis for using the revised TGBLA code. The version of the code discussed in this topical report has not been reviewed by NRC and GE stated it would provide NRC additional information discussing the modifications to be made to the physics code for staff review. GE intends to supplement the topical report with additional high void fraction data and explanation of the modifications made to TGBLA for use in the ESBWR design.

The NRC staff informed GE of its concern with GE's ability to accurately model fuel volumetric expansion during a rod withdrawal event (RWE) and the ability to accurately model evolved fuel in future operations.

The NRC staff informed GE that it does not accept GE's position of the control rod drop accident being classified as a beyond design basis accident. GE will need to demonstrate, through analysis or other means, justification that this is an improbable event.

The NRC staff provided clarification to the draft Request for Additional Information (RAI) questions on the fuel design and topical reports submitted by GE. GE also provided clarification to staff questions on the information provided. At the conclusion of the meeting, the NRC staff and GE agreed to hold a phone call with additional NRC staff to provide further clarification of RAI questions.

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