

June 3, 2011

Mr. Frederick Schiffley  
BWROG, Chairman  
Exelon Generation Co., LLC.  
Cornerstone II at Cantera  
4300 Winfield Road  
Warrenville, IL 60555

SUBJECT: FINAL SAFETY EVALUATION FOR BOILING WATER REACTORS OWNERS' GROUP TOPICAL REPORT NEDO-33349, REVISION 1, "BWR APPLICATION TO RG 1.97, REVISION 4" (TAC NO. MD6697)

Dear Mr. Schiffley:

By letter dated August 31, 2007 (Agencywide Documents and Access Management System (ADAMS) Accession No. ML072470741), the Boiling Water Reactor (BWR) Owners' Group (BWROG) submitted Licensing Topical Report (LTR) NEDO-33349, Revision 1, "BWR [Boiling Water Reactor] Application to RG [Regulatory Guide] 1.97, Revision 4," to the U.S. Nuclear Regulatory Commission (NRC) staff for review. By letter dated May 14, 2010 (ADAMS Accession No. ML101130235), an NRC draft safety evaluation (SE) regarding our approval of LTR NEDO-33349, Revision 1, was provided for your review and comment. By letters dated October 31, 2008 (ADAMS Accession No. ML083090576) and September 14, 2009 (ADAMS Accession No. ML092600272), the BWROG submitted supplemental material in response to the staff's request for additional information. By letter dated September 10, 2010 (ADAMS Accession No. ML102570064), the BWROG responded to the draft SE by providing a markup of Table A-1, "Accident Monitoring Variables Comparison," containing proposed changes to NEDO-33349, Revision 1. The attachment to the SE provides a detailed list of each RG 1.97, Revision 3, variable and NEDO-33349 proposed changes that have been reviewed and accepted by the staff.

The following agreements were made between members of the BWROG and the NRC staff subsequent to receipt of the Table A-1 markup:

1. When the "A" version of NEDO-33349, Revision 1, is issued, it will include a revision to Table A-1 that includes Drywell Pressure, Suppression Pool Water Level, and Suppression Pool Water Temperature as Type D variables (in addition to their current listing as Type A, B, C variables) in the "IEEE-497 Consistent with RG 1.97 Rev 4" column, for Primary Containment Related Systems.
2. When the "A" version of NEDO-33349, Revision 1, is issued, it will include a revision to Table A-1 that deletes Suppression Chamber Spray Flow as a Type D variable, in the "IEEE-497 Consistent with RG 1.97 Rev 4" column for Primary Containment Related Systems and adds Suppression Chamber Spray Flow as a Type D variable in the "IEEE-497 Consistent with RG 1.97 Rev 4" column for Residual Heat Removal Systems.

These changes will make Table A-1 consistent with the SE.

The NRC staff has found that LTR NEDO-33349, Revision 1, is acceptable for referencing in licensing applications for General Electric designed BWRs to the extent specified and under the limitations delineated in the LTR and in the enclosed final SE. The final SE defines the basis for our acceptance of the LTR.

Our acceptance applies only to material provided in the subject LTR. We do not intend to repeat our review of the acceptable material described in the LTR. When the LTR appears as a reference in license applications, our review will ensure that the material presented applies to the specific plant involved. License amendment requests that deviate from this LTR will be subject to a plant-specific review in accordance with applicable review standards.

In accordance with the guidance provided on the NRC website, we request that the BWROG publish an accepted version of this TR within three months of receipt of this letter. The accepted version shall incorporate this letter and the enclosed final SE after the title page. Also, the approved version must contain historical review information, including NRC RAIs and your responses after the title page. The accepted version shall include an "-A" (designating accepted) following the TR identification symbol.

As an alternative to including the RAIs and RAI responses behind the title page, if changes to the LTR were provided to the NRC staff to support the resolution of RAI responses, and the NRC staff reviewed and approved those changes as described in the RAI responses, there are two ways that the accepted version can capture the RAIs:

1. The RAIs and RAI responses can be included as an Appendix to the accepted version.
2. The RAIs and RAI responses can be captured in the form of a table (inserted after the final SE) which summarizes the changes as shown in the approved version of the LTR. The table should reference the specific RAIs and RAI responses which resulted in any changes, as shown in the accepted version of the TR.

If future changes to the NRC's regulatory requirements affect the acceptability of this LTR, the BWROG and/or licensees referencing it will be expected to revise the LTR appropriately, or justify its continued applicability for subsequent referencing.

Sincerely,

**/RA/ by RNelson for**

Thomas B. Blount, Deputy Director  
Division of Policy and Rulemaking  
Office of Nuclear Reactor Regulation

Project No. 691

Enclosure: Final SE

cc w/encl: See next page

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**ADAMS ACCESSION NO.: Memo ML11098A018 SE ML11098A049 \*By memo 12/10/10 NRR-043**

OFFICE	PLPB/PM	PLPB/LA	EICB*	PLPB/BC	DPR/DD
NAME	JGolla JG	DBaxley DB	WKemper	JJolicoeur	RNelson
DATE	5/10/11	5/3/11	12/10/10	5/23/11	6/3/11

Boiling Water Reactor Owner's Group

Project No. 691

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