

TOS-CR-DCA-2012-0001
June 22, 2012

10 CFR 52.57(a)
10 CFR 52.59 (a),(b),(c)

ATTN: Document Control Desk
U.S. Nuclear Regulatory Commission
Washington, DC 20555-0001

Docket Number 52-044

Subject: Submittal of Revision 1 of the Toshiba Corporation Application for Renewal of the Design Certification Rule for the U.S. Advanced Boiling Water Reactor

References:

1. Letter to U.S. Nuclear Regulatory Commission Document Control Desk from Keisuke Kitsukawa, Technology Executive, Light Water Reactor Systems, Toshiba Corporation Power Systems Company, "Submittal of Toshiba Corporation Application for Renewal and Amendment of the Design Certification Rule for the U.S. Advanced Boiling Water Reactor," Toshiba letter TOS-CR-DCA-2010-0001 dated October 27, 2010 (ML103080158)
2. Letter to Kiyoshi Okamura, Vice President, Nuclear Energy Systems & Services Division, Toshiba Corporation Power Systems Company, from David B. Matthews, Director, Division of New Reactor Licensing, Office of New Reactors, U.S. Nuclear Regulatory Commission, "Acceptance Review for the Toshiba Design Certification Renewal Application for the U.S. Advanced Boiling Water Reactor," dated December 14, 2010 (ML103300182)
3. "Toshiba Corporation; Acceptance for Docketing of an Application for Renewal of the U.S. Advanced Boiling Water Reactor Design Certification," 75 Federal Register 80854, December 23, 2010
4. Letter to U.S. Nuclear Regulatory Commission Document Control Desk from Keisuke Kitsukawa, Technology Executive, Light Water Reactor Systems, Toshiba Corporation Power Systems Company, "Proposed Schedule for Submittal and NRC Review of Revision 1 to Toshiba Corporation Application for Renewal of the Design Certification Rule for the U.S. Advanced Boiling Water Reactor," Toshiba letter TOS CR-DCA-2011-0001 dated February 9, 2011 (ML110530432)

By letter dated October 27, 2010, Toshiba Corporation ("Toshiba") submitted an application (Reference 1) to the U.S. Nuclear Regulatory Commission (NRC) for renewal of the Title 10 Code of Federal Regulations (CFR), Part 52, Appendix A, "Design Certification Rule for the U.S. Advanced Boiling Water Reactor (ABWR)." This application was submitted to the NRC in accordance with the requirements of 10 CFR 52.57(a). On December 14, 2010, the NRC notified Toshiba by letter

(Reference 2) that the application was acceptable for docketing, and on December 23, 2010, the NRC published notice of the acceptance in the Federal Register (Reference 3).

In February 2011 (Reference 4), Toshiba notified the NRC that Toshiba would revise its renewal application to:

- Incorporate the Aircraft Impact Assessment (AIA) Amendment into the body of the Design Control Document
- Include information from the NRC's Draft Guidance on Design Certification renewal applications
- Make additional amendments based on proven design improvements implemented in Japan

Additionally, during the June 23, 2011 public meeting with NRC, Toshiba stated its plans for performing a conservative and simplified Fire Probabilistic Risk Assessment (PRA) using the NUREG/CR-6850 methodology, and including the results in the renewal application.

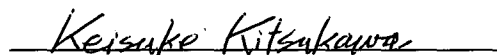
To accomplish the above objectives, Toshiba is submitting Revision 1 to its Design Control Document (DCD) for the Design Certification renewal as enclosures to this letter. The DCD has been revised to include the changes listed above. The list of changes between the current Certified Design DCD Revision 4 and the Toshiba renewal DCD Revision 1 is provided in a new section Tier 2 Appendix 1D. This appendix also identifies the category for the changes as defined in 10 CFR 52.59(a), (b) and (c). Pages of the enclosed DCD Revision 1 are marked with revision bars to identify content changes. Additionally, all pages are marked with Toshiba document number "RS-5146900 Rev. 1."

Both a non-public and public version of Toshiba's DCD Revision 1 is provided in Enclosure Nos. 1 and 2, respectively. No proprietary information is included in either version of the enclosed DCD. The non-public version of the enclosed DCD contains security-related sensitive information that should be withheld from public disclosure under 10 CFR 2.390. No security-related information is provided in this transmittal letter itself.

A Commitment List is provided as an attachment to this application. This Commitment List provides Toshiba commitment dates for making available documents referenced in the enclosed DCD that are not currently available to the NRC.

Please contact Mr. Robert W. Schrauder, Vice President – Licensing, U.S. ABWR Projects & Technologies, Toshiba America Nuclear Energy Corporation ("TANE") at (704) 548-7640 if you have any questions regarding this application revision. TANE is a wholly owned U.S. subsidiary of Toshiba. For convenience, Toshiba has authorized TANE to communicate with the NRC with respect to this application.

I declare under penalty of perjury under the laws of the United States of America that the foregoing is true and correct. Executed on June 22, 2012.



Keisuke Kitsukawa
Technology Executive
Light Water Reactor Systems
Toshiba Corporation Power Systems Company

Attachment:
Commitment List

Enclosures:

1. One DVD containing the Non-Public Version of "Toshiba Corporation, ABWR Design Control Document, RS-5146900 Rev.1, June 2012." This DVD contains security-related information to be withheld from public disclosure under 10 CFR 2.390. This DVD includes a packing slip that lists the DVD contents.
2. One DVD containing the Public Version of " Toshiba Corporation, ABWR Design Control Document, RS-5146900 Rev.1, June 2012." This DVD has redacted the security-related information. This DVD includes a packing slip that lists the DVD contents.

Contact Information:

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Attachment

Commitment List

Reports referenced in the enclosed Revision 1 of the Toshiba Application for Renewal of the Design Certification rule for U.S. Advanced Boiling Water Reactor that are not currently available to the NRC will be available by the dates provided below.

<u>Report Number</u>	<u>Title</u>	<u>Commitment Date</u>
UTLR-0011	"ABWR Probabilistic Evaluations"	July 31, 2012 (Revision 1)
UTLR-0012	"ABWR PRA-Based Reliability"	July 31, 2012 (Revision 1)
UTLR-0013	"ABWR Shutdown Risk Evaluation"	July 31, 2012 (Revision 1)
UTLR-0015	"ABWR Risk-Significant Human Actions"	July 31, 2012 (Revision 1)
UTLR-0016	"ABWR Severe Accident Analysis"	July 31, 2012 (Revision 1)
UTLR-0019	"ABWR Fire Probabilistic Risk Assessment"	July 31, 2012 (Revision 0)