

August 26, 2010

MEMORANDUM TO: Edwin M. Hackett, Executive Director
Advisory Committee on Reactor Safeguards

FROM: David B. Matthews, Director */RA Frank Akstulewicz for:/*
Division of New Reactor Licensing
Office of New Reactors

SUBJECT: PRELIMINARY SAFETY EVALUATION FOR CHAPTER 6
"ENGINEERED SAFETY FEATURES" REGARDING THE ECONOMIC
SIMPLIFIED BOILING WATER REACTOR DESIGN CERTIFICATION
REVIEW

The U.S. Nuclear Regulatory Commission (NRC) staff is preparing Advance Final Safety Evaluations for each chapter of the Economic Simplified Boiling Water Reactor (ESBWR) design certification application submitted by GE-Hitachi Nuclear Energy (GEH) on August 24, 2005.

The staff has performed a review of Chapter 6, regarding ESBWR engineered safety features, and has prepared a Preliminary Safety Evaluation (SE) (available under the Agencywide Documents Access and Management System (ADAMS) Accession Number ML101880156) which excludes the write up for resolution of the request for additional information (RAI) 6.2-202 found in Section 6.2.2, "Containment Heat Removal System." The Preliminary SE is being provided to support the upcoming meeting of the Advisory Committee on Reactor Safeguards (ACRS) ESBWR Design-Centered Subcommittee, scheduled to be held on September 23-24, 2010. The Advanced Final SE will be submitted with all sections addressed by September 20, 2010, to support the October 5, 2010, ACRS Subcommittee meeting. The ACRS Full Committee meeting will be held on October 7, 2010. The staff concludes that the Preliminary SE does not contain any information for which exemption from public disclosure has been sought or approved. However, the NRC will withhold the Preliminary SE from public disclosure for 10 calendar days to allow GEH the opportunity to verify the staff's conclusion that the Preliminary SE contains no such exempt information or any factual errors. Therefore, the staff requests that the ACRS withhold the Preliminary SE from public disclosure until the information has been released publicly in ADAMS.

CONTACTS: Bruce Bovol, BWR/NRO
301-415-6715

Amy Cabbage, BWR/NRO
301-415-2875

E. Hackett

- 2 -

The staff will inform the ACRS immediately if GEH requests that any of the information in the Preliminary SE be withheld from public disclosure.

Docket No. 52-0010

The staff will inform the ACRS immediately if GEH requests that any of the information in the Preliminary SE be withheld from public disclosure.

Docket No. 52-0010

ADAMS Accession No. ML102370165-Package * via email

NRO-002

OFFICE	PM:BWR	Tech Editing*	LA:BWR*	LPM:BWR	BC:SBCV
NAME	BBavol	KAzariah-Kribbs	SGreen	ACubbage	JMcKirgan/HWagage for:
DATE	8/24/2010	4/30/2010	8/24/2010	8/24/2010	8/23/2010
OFFICE	BC:CIB2	OGC/NLO*	BC:SRSB	BC:BWR	D:DNRL
NAME	MNorato	MCarpentier	JDonoghue/GThomas for:	MTonacci	DMatthews-FAkstulewicz for:
DATE	8/23/2010	8/24/2010	8/24/2010	08/26/2010	08/26/2010

OFFICIAL RECORD COPY

SUBJECT: PRELIMINARY SAFETY EVALUATION FOR CHAPTER 6 "ENGINEERED SAFETY FEATURES" REGARDING THE ECONOMIC SIMPLIFIED BOILING WATER REACTOR (ESBWR) DESIGN CERTIFICATION REVIEW DATED AUGUST 26, 2010

Distribution:

Hard Copy:

NGE1 R/F
ACubbage
BBavol

Email:

RidsNroDnrINge1
RidsNroDsraSrsb
NGE 1/2 Group
RidsAcraAcnwMailCenter
MZobler, OGC
RidsOgcMailCenter
SGreen, NRO