

September 30, 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: ADVANCED FINAL 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 Advanced Final Safety Evaluations (FSEs) 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 detailed review of Chapter 6, regarding ESBWR engineered safety features, and has prepared the Advanced FSE (available under the Agencywide Documents Access and Management System (ADAMS) Accession Number ML101880156). The Advanced FSE 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 October 6, 2010. The ACRS Full Committee meeting will be held on October 7, 2010. The staff concludes that the Advanced FSE does not contain any information for which exemption from public disclosure has been sought or approved. However, the NRC will withhold the Advanced FSE from public disclosure for ten calendar days to allow GEH the opportunity to verify the staff's conclusion that the Advanced FSE contains no such exempt information or any factual errors. Therefore, the staff requests that the ACRS withhold the Advanced FSE from public disclosure until the information has been released publicly in ADAMS.

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

Docket No. 52-0010

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

Amy Cubbage, BWR/NRO  
301-415-2875

September 30, 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: ADVANCED FINAL 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 Advanced Final Safety Evaluations (FSEs) 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 detailed review of Chapter 6, regarding ESBWR engineered safety features, and has prepared the Advanced FSE (available under the Agencywide Documents Access and Management System (ADAMS) Accession Number ML101880156). The Advanced FSE 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 October 6, 2010. The ACRS Full Committee meeting will be held on October 7, 2010. The staff concludes that the Advanced FSE does not contain any information for which exemption from public disclosure has been sought or approved. However, the NRC will withhold the Advanced FSE from public disclosure for ten calendar days to allow GEH the opportunity to verify the staff's conclusion that the Advanced FSE contains no such exempt information or any factual errors. Therefore, the staff requests that the ACRS withhold the Advanced FSE from public disclosure until the information has been released publicly in ADAMS.

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

Docket No. 52-0010

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

Amy Cabbage, BWR/NRO  
301-415-2875

**ADAMS Accession No. ML102600275-Pkg.** \*\* via e-mail \*See previous sign off sheet NRO-002

<b>OFFICE</b>	BWR:PM	Tech Editing*	NGE1:LA	BWR:LPM	OGC/NLO
<b>NAME</b>	BBavol	KAzariah-Kribbs	SGreen **	ACabbage	MCarpentier **
<b>DATE</b>	9/29/10	4/30/2010	9/20/10	9/29/10	9/20/10
<b>OFFICE</b>	BWR:BC	DNRL:D			
<b>NAME</b>	MTonacci	DMatthews (FAkstulewicz for)			
<b>DATE</b>	9/29/10	09/28/10			

**OFFICIAL RECORD COPY**

SUBJECT: ADVANCED FINAL SAFETY EVALUATION FOR CHAPTER 6 "ENGINEERED SAFETY FEATURES" REGARDING THE ECONOMIC SIMPLIFIED BOILING WATER REACTOR DESIGN CERTIFICATION REVIEW DATED SEPTEMBER 30, 2010

Distribution:

Hard Copy:

NGE1 R/F  
ACubbage  
BBavol

Email:

RidsNroDnrlNge1  
RidsNroDsraSrsb  
NGE 1/2 Group  
RidsAcrsAcnwMailCenter  
MZobler, OGC  
RidsOgcMailCenter  
SGreen, NRO