

May 16, 2008

MEMORANDUM TO: Frank P. Gillespie, Executive Director
Advisory Committee on Reactor Safeguards
and Advisory Committee on Nuclear Waste

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

SUBJECT: SAFETY EVALUATION REPORT (SER) WITH OPEN ITEMS (OIs) FOR
CHAPTER 19 "PROBABILISTIC RISK ASSESSMENT AND SEVERE
ACCIDENT EVALUATION" REGARDING THE ECONOMIC SIMPLIFIED
BOILING WATER REACTOR (ESBWR) DESIGN CERTIFICATION
REVIEW

The U.S. Nuclear Regulatory Commission staff is preparing an SER with OIs for each chapter of the ESBWR design certification application submitted by GE-Hitachi Nuclear Energy Americas LLC on August 24, 2005.

The staff has performed a detailed review of Chapter 19, regarding ESBWR probabilistic risk assessment and severe accident evaluation and has prepared the enclosed SER with OIs. The SER with OIs 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 June 3, 2008. The ACRS Full Committee meeting will be held at a future date. The enclosed SER with OIs has not been reviewed for proprietary information. Therefore, the staff requests that it not be released to the public. The staff will seek GEH review of the enclosed SER in order to make a version of the SER publicly available prior to the scheduled ACRS meeting.

Docket No. 52-0010

Enclosure:
Safety Evaluation Report with Open Items

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