

July 21, 2009

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

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

SUBJECT: SAFETY EVALUATION REPORT WITH OPEN ITEMS REGARDING
THE NORTH ANNA UNIT 3 COMBINED LICENSE APPLICATION –
CHAPTERS 2, 3, AND 14

The U.S. Nuclear Regulatory Commission staff is preparing a safety evaluation report (SER) with open items (OIs) for the Final Safety Analysis Report (FSAR) of the North Anna Unit 3 combined license (COL) application. The application was submitted by Dominion Virginia Power (Dominion) on November 26, 2007, and revised on December 12, 2008, to incorporate responses to staff's requests for additional information and Revision 5 of the Economic Simplified Boiling Water Reactor (ESBWR) Design Control Document (DCD). North Anna Unit 3 is the reference COL (R-COL) for the ESBWR design which is currently undergoing staff review for certification.

The staff has completed the detailed review of FSAR Chapters 2, 3, and 14, and prepared the corresponding SER with OIs. This 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 August 21, 2009. The ACRS Full Committee meeting will be held at a future date.

The SER with OIs is based on Revision 1 (December 2008) of the COL application which incorporates by reference Revision 5 of the ESBWR DCD. In addition, the COL application references the early site permit (ESP) for the North Anna ESP Site and incorporates, by reference, the North Anna ESP Application Site Safety Analysis Report, Revision 9.

NOTICE: Document transmitted herewith contains sensitive unclassified information. When separated from the enclosure this cover letter is "DECONTROLLED."

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The enclosed SER with OIs has not been reviewed for proprietary information. Until the proprietary determination has been completed, the enclosure should not be released to the public. The staff has requested that Dominion complete the proprietary review before the August ACRS meeting, so that the enclosures can be made publicly available.

Docket No. 52-0017

Enclosures:

1. Safety Evaluation Report with Open Items - Chapter 2 (ML092020006)
2. Safety Evaluation Report with Open Items - Chapter 3 (ML092010530)
3. System Evaluation Report with Open Items - Chapter 14 (ML092010027)

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