

August 24, 2005

MEMORANDUM TO: John T. Larkins, Executive Director
Advisory Committee on Reactor Safeguards

FROM: William D. Beckner, Program Director /RA/
New, Research and Test Reactors Program
Division of Regulatory Improvement Programs
Office of Nuclear Reactor Regulation

SUBJECT: ACRS REVIEW OF THE NORTH ANNA EARLY SITE PERMIT
APPLICATION - FINAL SAFETY EVALUATION REPORT
CHANGED PAGES PRIOR TO PUBLISHING AS A NUREG

On July 25, 2005, Dominion provided the Commission with Revision 5 to the North Anna early site permit (ESP) application. The changes reflected in Revision 5 of the application included corrections to Figure 2.5-55A, depicting the selected horizontal and vertical operating-basis earthquake (OBE) and safe-shutdown earthquake (SSE) spectra for the hypothetical rock outcrop control point at the top of Zone III-IV material. In addition, Dominion provided corrections to the coordinates for the ESP site footprint.

The staff has evaluated the new seismic information in Revision 5 and concluded that the previous analysis was conservative. The staff has modified the FSER to document the basis for this conclusion.

The other changes in Revision 5 to the application resulted in minor modifications to the staff's final safety evaluation report (FSER) issued June 16, 2005. The scope of these changes to the FSER issued on June 16, 2005 are limited to corrections of factual inaccuracies and changes to the structure of the document.

The changes to the FSER include modifications of Appendix A to reflect the correct figures submitted with Revision 5 of the application, and modifications to Section 2.5 to reflect the correct description of the analysis conducted by Dominion to determine the SSE spectrum. The staff also decided that the table of contents should follow the same layout as the standard review plan, and as a result, moved the source term analysis from Chapter 3 and placed it in Chapter 11. These changes did not result in any modification to the substance of the staff's evaluation or the staff's conclusions. In addition, the staff has revised the definitions of two of the bounding parameters for hydrology in Appendix A to better reflect the SER text, which documents that the staff evaluated these parameters independently of each other and that the evaluation is material to the staff's conclusions only below a specified lake level.

The staff's conclusions were not changed as a result of Revision 5 to the application. The staff plans to submit the FSER for NUREG formatting on August 26, 2005, and plans to have the NUREG published by September 30, 2005. If you have any questions about the attached changes to the North Anna FSER, please contact Belkys Sosa, the ESP project manager for the North Anna application, at (301)-415-2375 or bx2@nrc.gov.

Docket No. 52-008

Attachment: North Anna ESP FSER Changed Pages

J. T. Larkins

The staff's conclusions were not changed as a result of Revision 5 to the application. The staff plans to submit the FSER for NUREG formatting on August 26, 2005, and plans to have the NUREG published by September 30, 2005. If you have any questions about the attached changes to the North Anna FSER, please contact Belkys Sosa, the ESP project manager for the North Anna application, at (301)-415-2375 or bxs2@nrc.gov.

Docket No. 52-008

Attachment: North Anna ESP FSER Changed Pages

ADAMS Accession No.: ML052350948-Package
ML052350907 - Response Memo
ML052360471 - Attachment

| | | | | | |
|----------------|----------|----------|----------|-------------------------|----------|
| OFFICE: | PM:RNRP | PM:RNRP | OGC | SC:RNRP | PD:RNRP |
| NAME: | CAraguas | BSosa | RWeisman | LDudes (JFWilliams for) | WBeckner |
| DATE: | 08/24/05 | 08/24/05 | 08/24/05 | 08/24/05 | 08/24/05 |

OFFICIAL RECORD COPY

Distribution for Memo to ACRS on North Anna FSER Changed Pages Dated August 24, 2005

Hard Copy

PUBLIC

CAraguas

BSosa

LDudes

WBeckner

E-Mail

ACRS File

JSegala

MMayfield

KManoly

GBagchi

CMunson

NPatel

RAnand

LDudes

WBeckner

DMatthews

FGillespie

MEI-Zeftway

MScott