

March 18, 2016

Mr. Mark D. Mitchell  
Vice President – Generation  
Construction Virginia Electric and  
Power Company 5000 Dominion  
Boulevard  
Glen Allen, VA 23060-6711

SUBJECT: U.S. NUCLEAR REGULATORY COMMISSION PLAN FOR NORTH ANNA  
UNIT 3, COMBINED LICENSE APPLICATION SITE-SPECIFIC SEISMIC  
FUEL AUDIT

Dear Mr. Mitchell:

This letter documents the U.S. Nuclear Regulatory Commission (NRC) staff's plan to perform a regulatory audit of the site-specific seismic evaluation of the General Electric-Hitachi (GEH) GE14E fuel planned for North Anna 3 that is described in final safety analysis report (FSAR) Chapter 4, "Reactor" as part of the Dominion Virginia Power (Dominion) combined license application (COLA) submitted by letter dated November 26, 2007, (Agencywide Documents Access and Management System (ADAMS) Accession Number ML073320913) as revised on April 25, 2013 (ADAMS Accession No. ML13120A016).

In a subsequent letter dated October 22, 2014 (ADAMS Accession No. ML14297A199), Dominion outlined a revised approach to performing certain aspects of the seismic analyses for the North Anna 3 COLA and used the most current NRC approved ground motion model. This seismic closure plan identified requests for additional information (RAI), including RAI 04.02.01 related to the seismic response of fuel for North Anna 3. In the applicants response to RAI 04.02-1 dated December 16, 2015 (ADAMS Accession No. ML15364A384), the applicant stated that for the site-specific analyses, fuel assemblies and control rods are designed to withstand the site specific design bases seismic loading and are bounded by the standard design report's acceptance limits for the GE14E fuel.

The audit planned for two days, starting on March 23, 2016, at the GEH Offices in Wilmington, North Carolina, will provide the staff with a review of the North Anna 3 site specific fuel seismic analysis that followed the methodology used for certification of the Economic Simplified Boiling-Water Reactor design control document. In addition the staff has requested access to certain technical reports in the Dominion reading room to review additional documents used in the applicants' seismic fuel evaluation.

The enclosed audit plan outlines the process that will allow the staff to evaluate the Dominion seismic fuel evaluation methodology, calculations and results that will be provided as part of the North Anna FSAR Chapter 4.

M. Mitchell

-2-

If you have any questions, please contact me at (301) 415-1388 or by e-mail at [James.Shea@nrc.gov](mailto:James.Shea@nrc.gov).

Sincerely,

**/RA/**

James J. Shea, Project Manager  
Licensing Branch 3  
Division of New Reactor Licensing  
Office of New Reactors

Docket No.: 52-017

Enclosure: As stated

cc w/encl.: See next page

M. Mitchell

-2-

If you have any questions, please contact me at (301) 415-1388 or by e-mail at [James.Shea@nrc.gov](mailto:James.Shea@nrc.gov).

Sincerely,

**/RA/**

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Division of New Reactor Licensing  
Office of New Reactors

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**ADAMS Accession No:** ML16077A204

**NRO-002**

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(Revised 03/15/2016)

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