

Mark D. Sartain  
Vice President Nuclear Engineering and Development  
Dominion Nuclear

*A business unit of*  
**Dominion Resources, Inc.**  
5000 Dominion Boulevard, Glen Allen, VA 23060  
Phone: 804-273-3586; Fax: 804-273-3471  
Email: Mark.Sartain@dom.com

dom.com



**Dominion®**

December 6, 2013

U. S. Nuclear Regulatory Commission  
Attention: Document Control Desk  
Washington, D. C. 20555

Serial No. NA3-13-020  
Docket No. 52-017  
COL/GSS

**DOMINION VIRGINIA POWER**  
**NORTH ANNA UNIT 3 COMBINED LICENSE APPLICATION**  
**ESBWR STEAM TURBINE – LOW PRESSURE ROTOR MISSILE GENERATION**  
**PROBABILITY ANALYSIS**

This letter forwards the General Electric (GE) ESBWR Steam Turbine – Low Pressure Rotor Missile Generation Probability Analysis, Report ST-56834, Revision 4.

The report was developed by GE–Energy. The information provided in this report is generic and is expected to apply to all Combined Operating License (COL) applicants referencing the ESBWR Design Control Document.

Revision 4 of the non-proprietary and proprietary version of the report is included in Enclosures 1 and 3. They are the same reports submitted by DTE Energy on October 28, 2011 (ML11305A214) for use by Fermi 3. The staff reviewed the report while developing Chapter 10 of Fermi 3's Safety Evaluation Report (ML121090187) and confirmed the report provides an acceptable analysis that substantiates the turbine manufacturer's recommendations for inspecting and testing the turbine rotor and associated valves using the criteria in RG 1.115.

Dominion has reviewed the Fermi 3 RAI questions and responses that led to issuance of Revision 4 of Report ST-56834/P, and by providing the report on the docket for North Anna 3 along with reference to the report in the COLA, Part 2, Chapter 10, and incorporation of applicable Fermi 3 COLA changes into the North Anna 3 COLA, Dominion considers the Fermi 3 RAIs as having been addressed for North Anna 3.

The non-proprietary version of the ESBWR Steam Turbine – Low Pressure Rotor Missile Generation Probability Analysis report is included in Enclosure 1, and the proprietary version is included in Enclosure 3. A signed affidavit from GE–Energy, the owner of the information, is provided in Enclosure 2. The affidavit sets forth the basis on which the information in Enclosure 3 should be withheld from public disclosure by the

**ENCLOSURE CONTAINS PROPRIETARY INFORMATION**

Enclosure 3 contains information to be withheld from public disclosure in accordance with 10 CFR 2.390. Upon removal of Enclosure 3, this letter is decontrolled.

D089  
N120

Commission and addresses with specificity the considerations listed in paragraph (a)(4) of 10 CFR 2.390 of the Commission's regulations. Accordingly, it is respectfully requested that the information, which is proprietary to GE, be withheld from public disclosure in accordance with 10 CFR 2.390 of the Commission's regulations. Correspondence with respect to the copyright or proprietary aspects of the GE information noted above or the supporting GE affidavit should be addressed to: Walter (Skip) Schumitsch, P.E., Senior Project Manager, Nuclear Plant Projects, GE Hitachi Nuclear Energy, 3901 Castle Hayne Road, PO Box 780 M/C A60, Wilmington, NC 28402.

Please contact Regina Borsh at (804) 273-2247 (regina.borsh@dom.com) if you have questions.

Very truly yours,



Mark D. Sartain

Enclosures:

1. GE Economically Simplified Boiling Water Reactor, Steam Turbine – Low Pressure Rotor Missile Generation Probability Analysis, Report ST-56834/N-P, Revision 4, October 18, 2011, NON-PROPRIETARY VERSION
2. Affidavit for "GE Economically Simplified Boiling Water Reactor, Steam Turbine – Low Pressure Rotor Missile Generation Probability Analysis," Report ST-56834/P, Revision 4, October 18, 2011, PROPRIETARY VERSION
3. GE Economically Simplified Boiling Water Reactor, Steam Turbine – Low Pressure Rotor Missile Generation Probability Analysis, Report ST-56834/P, Revision 4, October 18, 2011, PROPRIETARY VERSION

Commitments made by this letter: None

**ENCLOSURE CONTAINS PROPRIETARY INFORMATION**

Enclosure 3 contains information to be withheld from public disclosure in accordance with 10 CFR 2.390. Upon removal of Enclosure 3, this letter is decontrolled.

COMMONWEALTH OF VIRGINIA

COUNTY OF HENRICO

The foregoing document was acknowledged before me, in and for the County and Commonwealth aforesaid, today by Mark D. Sartain, who is Vice President-Nuclear Engineering and Development of Virginia Electric and Power Company (Dominion Virginia Power). He has affirmed before me that he is duly authorized to execute and file the foregoing document on behalf of the Company, and that the statements in the document are true to the best of his knowledge and belief.

Acknowledged before me this 6<sup>th</sup> day of December, 2013

My registration number is 112536 and my

Commission expires: April 30, 2015

  
\_\_\_\_\_  
Notary Public

cc: U. S. Nuclear Regulatory Commission, Region II  
C. P. Patel, NRC  
T. S. Dozier, NRC  
G. J. Kolcum, NRC

**ENCLOSURE CONTAINS PROPRIETARY INFORMATION**

Enclosure 3 contains information to be withheld from public disclosure in accordance with 10 CFR 2.390. Upon removal of Enclosure 3, this letter is decontrolled.