

September 10, 2002

LICENSEE: Dominion Virginia Electric Power Company

FACILITIES: North Anna, Units 1 and 2, and Surry, Units 1 and 2

SUBJECT: SUMMARY OF AUGUST 20 AND 22, 2002, TELECOMMUNICATION WITH  
DOMINION VIRGINIA ELECTRIC AND POWER COMPANY

On August 20 and 22, 2002, the U.S. Nuclear Regulatory Commission (NRC) staff (the staff) held a conference call with representatives of Dominion Virginia Electric and Power Company (Dominion) to discuss information relating the staff's review of the North Anna and Surry license renewal applications. A list of participants is enclosed. The information discussed, the applicant's responses, and the follow-up actions are provided below.

During the conference call on August 20, 2002, the staff requested that Dominion provide neutron fluence data for all beltline materials. In addition, the staff requested two Topical Reports by B&W Owners' Group, BAW-2192P and BAW-2178P, and a Surry-specific report, BAW-2323, for independent verification of Dominion's Upper-Shelf Energy (USE) evaluation at the end of license renewal period. The NRC staff also asked Dominion to verify that the ENDF/B-VI cross sections were used in the Dominion reactor vessel fluence methodology in accordance with Regulatory Guide (RG) 1.190, "Calculational and Dosimetry Methods for Determining Pressure Vessel Neutron Fluence."

On August 22, 2002, in response to the staff's requests, via electronic mail, Dominion provided three reports: BAW-2178P, "Low Upper-shelf Toughness Fracture Mechanics Analysis of Reactor Vessels RVWG for Level C & D Service Loads"; BAW-2192P-Revision 1, "Low Upper-shelf Toughness Fracture Mechanics Analysis of Reactor Vessels RVWG for Level A & B Conditions"; and BAW-2323, "Low Upper-shelf Toughness Fracture Mechanics Analysis of Reactor Vessels of Surry Units 1 and 2 for Extended Life Through 48 Effective Full Power Years." Both of the B&W Owners' Group reports (BAW-2178P and BAW-2192P-Revision 1) contain proprietary information and were previously transmitted to the staff. Dominion also provided its updated neutron fluence data for all beltline materials and verified that the reactor vessel fluence methodology used the ENDF/B-VI cross sections, in accordance with RG 1.190. This electronic correspondence (except for the B&W Owners' Group reports, which are proprietary) is available in the NRC's Agencywide Documents Access and Management System (ADAMS) under accession number ML022390113.

On August 22, 2002, the NRC staff and Dominion held a follow-up conference call to discuss and clarify the information that Dominion had provided earlier on that day. Dominion confirmed that the reactor vessel fluence calculational methodology was benchmarked using a combination of Virginia Power surveillance capsules, pressure vessel simulator measurements, and Surry, Unit 1, ex-vessel cavity dosimetry measurements. Dominion was asked to provide a copy of their November 1999 evaluation of Surry reactor vessel materials surveillance data, as additional support for the review of capsule surveillance data. A copy of this evaluation (dated November 19, 1999) was received by electronic mail on August 23, 2002. The electronic mail received from Dominion is available in ADAMS under accession number ML022400102.

This telecommunication summary has been shared and reviewed by Dominion.

*/RA/*

Omid Tabatabai, Project Manager  
License Renewal Section  
License Renewal and Environmental Impacts Program  
Division of Regulatory Improvement Programs  
Office of Nuclear Reactor Regulation

Docket Nos. 50-338, 50-339, 50-280, and 50-281

Enclosure: As stated

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OFFICE	LA:DRIP	PM:RLEP:DRIP	SME:EMCB:DE	SC:EMCB:DE	SC:RLEP:DRIP
NAME	HBerilla	OTabatabai	Belliot	SCoffin	SLee
DATE	09/6/02	09/6/02	09/6/02	09/9/02	09/10/02

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September 10, 2002, ML022530347

**HARD COPY:**

RLEP R/F  
Project Manager

**E-MAIL:**

PUBLIC

J. Johnson  
W. Borchardt  
D. Matthews  
F. Gillespie  
R. Barrett  
E. Imbro  
G. Bagchi  
K. Manoly  
W. Bateman  
J. Calvo  
C. Holden  
P. Shemanski  
H. Nieh  
G. Holahan  
H. Walker  
S. Black  
B. Boger  
D. Thatcher  
G. Galletti  
C. Li  
J. Moore  
R. Weisman  
M. Mayfield  
A. Murphy  
W. McDowell  
S. Smith  
T. Kobetz  
C. Munson  
RLEP Staff

-----  
RidsRgn2MailCenter  
M. Kotzalas  
J. Medoff  
B. Elliot  
L. Lois  
G. Georgiev

Attendance List  
Telephone Conference Call between the U.S. NRC and  
Dominion Virginia Electric Power Company (VEPCO)  
August 20 and 22, 2002

<u>Name</u>	<u>Organization</u>
Omid Tabatabai	NRC/NRR/DRIP
James Medoff	NRC/NRR/DE
Barry Elliot	NRC/NRR/DE
Lambros Lois	NRC/NRR/DE
George Georgiev	NRC/NRR/DE
Michael Henig	VEPCO
Paul Atkins	VEPCO
John Harrell	VEPCO
Julius [Lucky] Wroniewicz	VEPCO
Tom Snow	VEPCO

Enclosure

Virginia Electric and Power Company

Ms. Lillian M. Cuoco, Esq.  
Senior Nuclear Counsel  
Dominion Nuclear Connecticut, Inc.  
Millstone Power Station  
Building 475, 5th Floor  
Rope Ferry Road  
Rt. 156  
Waterford, Connecticut 06385

Mr. Richard H. Blount, II  
Site Vice President  
Surry Power Station  
Virginia Electric and Power Company  
5570 Hog Island Road  
Surry, Virginia 23883-0315

Senior Resident Inspector  
Surry Power Station  
U. S. Nuclear Regulatory Commission  
5850 Hog Island Road  
Surry, Virginia 23883

Chairman  
Board of Supervisors of Surry County  
Surry County Courthouse  
Surry, Virginia 23683

Dr. W. T. Lough  
Virginia State Corporation  
Commission  
Division of Energy Regulation  
P. O. Box 1197  
Richmond, Virginia 23209

Robert B. Strobe, M.D., M.P.H.  
State Health Commissioner  
Office of the Commissioner  
Virginia Department of Health  
P.O. Box 2448  
Richmond, Virginia 23218

Office of the Attorney General  
Commonwealth of Virginia  
900 East Main Street  
Richmond, Virginia 23219

Mr. Stephen P. Sarver, Director

North Anna & Surry Power Stations  
Units 1 and 2

Nuclear Licensing & Operations Support  
Innsbrook Technical Center  
Virginia Electric and Power Company  
5000 Dominion Blvd.  
Glen Allen, Virginia 23060-6711

Mr. David A. Heacock  
Site Vice President  
North Anna Power Station  
Virginia Electric and Power Company  
P. O. Box 402  
Mineral, Virginia 23117-0402

Mr. William R. Matthews  
Vice President - Nuclear Operations  
Virginia Electric and Power Company  
Innsbrook Technical Center  
5000 Dominion Boulevard  
Glen Allen, Virginia 23060-6711

Mr. C. Lee Lintecum  
County Administrator  
Louisa County  
P. O. Box 160  
Louisa, Virginia 23093

Old Dominion Electric Cooperative  
4201 Dominion Blvd.  
Glen Allen, Virginia 23060

Senior Resident Inspector  
North Anna Power Station  
U. S. Nuclear Regulatory Commission  
1024 Haley Drive  
Mineral, Virginia 23117

Mr. David A. Christian  
Sr. Vice President and Chief Nuclear Officer  
Virginia Electric and Power Company  
5000 Dominion Blvd.  
Glen Allen, Virginia 23060

Mr. Michael Schlemmer  
Emergency Services Director  
Louisa County  
P.O. Box 160  
Louisa, Virginia 23093

Mr. David Lewis  
Shaw Pittman, LLP  
2300 N Street, NW

Washington, DC 20037-1128

Mr. William Corbin  
Virginia Electric and Power Company  
Innsbrook Technical Center  
5000 Dominion Boulevard  
Glen Allen, Virginia 23060

Mr. Alan P. Nelson  
Nuclear Energy Institute  
1776 I Street NW  
Suite 400  
Washington, D.C. 20006