

May 17, 2006

APPLICANT: Dominion Nuclear North Anna LLC

FACILITY: North Anna Early Site Permit

SUBJECT: SUMMARY OF TELEPHONE CONFERENCE WITH DOMINION NUCLEAR
NORTH ANNA LLC REGARDING THE NORTH ANNA EARLY SITE PERMIT
REVIEW (TAC NO. MC1128)

On May 1, 2006, the U.S. Nuclear Regulatory Commission (NRC) staff conducted a teleconference with Dominion Nuclear North Anna, LLC (Dominion) to discuss Revision 6 of the ESP application. Enclosure 1 is a list of participants in the teleconference. The purpose of the teleconference to clarify statements in the application and to identify additional information needed to complete the review (see Enclosure 2).

Dominion agreed to provide the clarification and additional information needs.

/RA/

Jack Cushing, Senior Project Manager
New Reactor Environmental Projects Branch
Division of New Reactor Licensing
Office of Nuclear Reactor Regulation

Docket No.: 52-008

Enclosure: As stated

cc w/encls: See next page

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NAME	NPatel	JCushing	C. Nolan
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LIST OF PARTICIPANTS
TELECONFERENCE WITH
DOMINION

MAY 1, 2006

Participant

Affiliation

Jack Cushing
Nitin Patel
Brad Harvey

U.S. Nuclear Regulatory Commission (NRC)
NRC
NRC

Mary Ann Parkhurst
Van Ramsdell
Greg Stoetzel
Mike Scott

Pacific North West National Laboratory (PNNL)
PNNL
PNNL
PNNL

Tony Banks
Spencer Semmes
Marvin Smith
John Waddill
Doug Kemp
Ken Jha
Kit Ng
Dan Patton

Dominion Nuclear North Anna, LLC
Dominion Nuclear North Anna, LLC
Dominion Nuclear North Anna, LLC
Dominion Nuclear North Anna, LLC
Bechtel
Bechtel
Bechtel
Bechtel

Clarification of Statements and Additional Information Needs

Part 3, Table 3.1-1

Clarify the use of cooling tower height value (as related to upper bounds for aesthetic and salt drift analysis) presented here as compared to 3.1.2.2 and other sections in the document. Specify which cooling tower heights were used in each analysis, state why the particular height was chosen for each analysis, and specify whether use of the value represents an upper bound impact and why.

Part 3, Section 3.8

Provide new ORIGEN code run for the ESBWR with the updated power level (4500 MWt) as used for analysis in Revision 6 of the ER to justify conclusion of a small increase in the radionuclide inventory of the spent fuel.

Part 3, Section 5.2

Provide information on the SACTI code. This should include reference to the EPRI report on the code and user manual that serves as documentation regarding the statement in the ER that the code has been verified. In addition, listing of the Code inputs and outputs should be provided so the origin of the data used in the calculation, including barometric pressure data collected at the site, can be verified. Specific code output products requested should be in the form of tables, or specification information, regarding the joint occurrence of plume height and length.

Part 3, Section 5.3.2.1

Explain how the onsite barometric pressure was obtained.

Part 3, Section 5.3.3.1

Provide documentation for observations that steam fog, drift, and icing would be localized.

Clarify the statement "In a COL application, when a specific reactor design is selected, a more detailed evaluation would be made of the fogging and salt deposition, and specific design consideration would be given to mitigate the effects of these phenomena." It is unclear if the intent is that Dominion will review the design information at the COL application stage to ensure that the specifications fall within the PPE (or similar wording).

Part 3, Section 5.3.4.2

Provide a complete reference for the CADNA/A computer code.

Part 3, Section 5.8.1.2

Clarify meaning concerning the need for and purpose of low-frequency noise study to be performed as part of the final selection process of Unit 3 and 4 cooling systems.

NORTH ANNA EARLY SITE PERMIT
SERVICE LIST

Mr. David A. Christian
Senior Vice President and Chief
Nuclear Officer
Dominion Resources Services, Inc.
Innsbrook Technical Center
5000 Dominion Blvd.
Glen Allen, VA 23060-6711

Ms. Lillian M. Cuoco, Esq.
Senior Counsel

Dominion Resources Services, Inc.
Rope Ferry Road
Building 475, 5th Floor
Waterford, CT 06385

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

Mr. David R. Lewis
Pillsbury Winthrop Shaw Pittman
2300 N Street, N.W.
Washington, D.C. 20037

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

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

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

Mr. 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

Mr. David Lochbaum
Union of Concerned Scientists
1707 H Street, NW
Suite 600
Washington, DC 20006-3919

Mr. Paul Gunter
Director of the Reactor Watchdog
Project
Nuclear Information & Resource
Service
1424 16th Street, NW, Suite 404
Washington, DC 20036

Mr. Adrian Heymer
Nuclear Energy Institute
Suite 400
1776 I Street, NW
Washington, DC 20006-3708

Mr. Russell Bell
Nuclear Energy Institute
Suite 400
1776 I Street, NW
Washington, DC 20006-3708

Mr. James Riccio
Greenpeace
702 H Street, NW, Suite 300
Washington, DC 20001

Ms. Patricia Campbell
Morgan, Lewis & Bockius, LLP
1111 Pennsylvania Avenue, NW
Washington, DC 20004

NORTH ANNA EARLY SITE PERMIT
SERVICE LIST

-2-

Mr. Gary Wright, Manager
Division of Nuclear Safety
Illinois Emergency Management
Agency
1035 Outer Park Drive
Springfield, IL 62704

Mr. Glenn H. Archinoff
AECL Technologies
481 North Frederick Avenue
Suite 405
Gaithersburg, MD. 20877

Mr. Ed Wallace, General Manager
Projects
PBMR Pty LTD
PO Box 9396
Centurion 0046
Republic of South Africa

Mr. Brendan Hoffman
Research Associate on Nuclear
Energy
Public Citizens Critical Mass
Energy
and Environmental Program
215 Pennsylvania Avenue, SE
Washington, DC 20003

Mr. Paul Leventhal
Nuclear Control Institute
1000 Connecticut Avenue, NW
Suite 410
Washington, DC 20036

Mr. Charles Brinkman
Westinghouse Electric Co.
Washington Operations
12300 Twinbrook Pkwy., Suite 330
Rockville, MD 20852

Mr. Marvin Fertel
Senior Vice President
and Chief Nuclear Officer
Nuclear Energy Institute
Suite 400
1776 I Street, NW
Washington, DC 20006-3708

Dr. Glenn R. George
Co-Head, Energy Capital Markets
Nomura Securities International, Inc.
2 World Financial Center, Bldg. B,
21st Floor
New York, NY 10281-1198

Mr. Arthur R. Woods
Enercon Services, Inc.
500 TownPark Lane
Kennesaw, GA 30144

Ms. Vanessa E. Quinn, Chief
Radiological Emergency
Preparedness Branch
Nuclear and Chemical
Preparedness and Protection
Division
Department of Homeland Security
1800 South Bell Street, Room 837
Crystal City-Arlington, VA 22202-
3546

Mr. Michael M. Cline, State
Coordinator
Virginia Department of Emergency
Management
10501 Trade Court
Richmond, Virginia 23236-3713

Mr. Jim Debiec
Director - Power Production
Old Dominion Electric Cooperative
4201 Dominion Blvd
Glen Allen, VA 23060

Mr. Thomas Mundy
Director, Project Development
Exelon Generation
200 Exelon Way, KSA3-N
Kennett Square, PA 19348

Ms. Joanne Tetrault
Librarian
Louisa County Public Library
881 Davis Highway
Mineral, VA 23117

NORTH ANNA EARLY SITE PERMIT
SERVICE LIST

-3-

Ms. Abhaya Thiele
406 Key West Drive
Charlottesville, VA 22911

Mr. J. Randall Wheeler
Spotsylvania County Administrator
P.O. Box 99
Spotsylvania Courthouse
Spotsylvania, VA 22553

Mr. William C. Rolfe
Assistant County Administrator
P.O. Box 111
Orange, VA 22690

Ms. Sandra Sloan
Areva NP, Inc.
3315 Old Forest Road
P.O. Box 10935
Lynchburg, VA 24506-0935

Ms. Kathryn Sutton, Esq.
Morgan, Lewis & Bockius, LLP
1111 Pennsylvania Avenue, NW
Washington, DC 20004

Mr. Robert E. Sweeney
IBEX ESI
4641 Montgomery Avenue
Suite 350
Bethesda, MD 20814

Mr. Dick Clark
President, Oakridge Civic Assn.
2212 Founders Bridge Rd.
Midlothian, VA 23113

Internal e-mail

SCollins
MDapas
RBlough
MGamberoni
BHollan
WTravers
LPlisco
VMcCree
CCasto

JCaldwell
GGrant
CPederson
MSatorius

BMalet
TGwynn
DChamberlain
AHowell

External E-mail

tom.miller@hq.doe.gov or
tom.miller@nuclear.energy.gov
Eugene_Grecheck@dom.com
Jack_Davis@dom.com
Marvin_Smith@dom.com
Joseph_Hegner@dom.com
Tony_Banks@dom.com
Lillian_Cuoco@dom.com
David_Sommers@dom.com
Vicki_Hull@dom.com
Margaret_Bennett@dom.com
david.lewis@pillsburylaw.com
gzinke@entergy.com
sandra.sloan@areva.com
mwetterhahn@winston.com
whorin@winston.com
gcesare@enercon.com
louis.quintana@ge.com
steven.hucik@ge.com
david.hinds@ge.com
chris.maslak@ge.com
james1beard@ge.com
eddie.grant@exeloncorp.com