July 18, 2006

APPLICANT: Dominion Nuclear North Anna LLC

FACILITY: North Anna Early Site Permit

SUBJECT: SUMMARY OF TELEPHONE CONFERENCE AND THE SITE AUDIT WITH

DOMINION NUCLEAR NORTH ANNA LLC REGARDING THE NORTH ANNA EARLY SITE PERMIT (ESP) REVIEW (TAC NOS. MC1127 AND MC1128)

The U.S. Nuclear Regulatory Commission (NRC) staff conducted a teleconference on July 6, 2006, and a site audit on July 12, 2006, with Dominion Nuclear North Anna, LLC (Dominion) to discuss the review of Revision 07 of the ESP application. Enclosure 1 is a list of participants. The purposes of the teleconference and site audit were to discuss apparent discrepancies in the application and clarifications needed for the staff to complete its review (see Enclosure 2).

Dominion agreed to resolve these discrepancies and to incorporate the changes and clarifications needed in Revision 08 to the ESP application. Dominion agreed to submit Revision 08 to the ESP application on July 31, 2006.

/RA/

Nitin Patel, Project Manager ESBWR/ABWR 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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ADAMS ACCESSION NO. ML061990240

OFFICE	PM:NESB	BC:NEPB	(A)BC:NESB
NAME	NPatel	CNolan	ACubbage
DATE	07/18/06	07/18/06	07/18/06

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JLee

GBagchi

CMunson

AKugler

JCushing

RHarvey

RWeisman

KWinsberg

MMasnik

MParkhurst (PNL)

MCullingford

TKobetz

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

Mr. Jay M. Gutierrez Morgan, Lewis & Bockius, LLP 1111 Pennsylvania Avenue, NW Washington, DC 20004

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

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

Mr. Harry Ruth
For the Friends of Lake Anna
C/O 230 Heather Drive
Bumpass, VA 23024

Ms. Myra Cramer, Manager Hanover Branch Library 7527 Library Drive Hanover, Virginia 23069

Louisa County Library Branch Jefferson-Madison Regional Library 881 Davis Highway Mineral, Virginia 23117

Ms. Barbara Davidson, Manager Salem Church Library 2607 Salem Church Road Frederick, Virginia 22407

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@hg.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 sfrantz@morganlewis.com ksutton@morganlewis.com jgutierrez@morganlewis.com patriciaL.campbell@ge.com bob.brown@ge.com david.hinds@ge.com chris.maslak@ge.com james1beard@ge.com mark.beaumont@wsms.com

eddie.grant@exeloncorp.com

LIST OF PARTICIPANTS

JULY 6, 2006, TELECONFERENCE WITH DOMINION

Participant	Affiliation
Nitin Patel	U.S. Nuclear Regulatory Commission (NRC)
Jean-Claude Dehmel	NRC
Greg Stoetzel	Pacific NorthWest National Laboratory (PNNL)
Tony Banks	Dominion Nuclear North Anna, LLC
Joseph Hagner	Dominion Nuclear North Anna, LLC
Rich Baker	Bechtel
Ken Jha	Bechtel

JULY 12, 2006, SITE AUDIT

Participant Affiliation

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

Jean-Claude Dehmel NRC

Tony Banks Dominion Nuclear North Anna, LLC

Rich Baker Bechtel
Ken Jha Bechtel
Becky Carr Bechtel
Bob Prunty Bechtel

TELECONFERENCE SUMMARY DATED 7/06/2006 SITE AUDIT AT BECHTEL OFFICE ON 7/12/2006 NORTH ANNA EARLY SITE PERMIT (ESP) APPLICATION (Revision 07, dated June 21, 2006)

Dominion submitted Revision 07 of the ESP application on June 21, 2006, to address questions identified by the staff in a June 07, 2006, teleconference (teleconference summary dated June 07, 2006, ADAMS Accession Number ML061580174). In reviewing Revision 07, the staff concluded that Dominion addressed the questions, however, questions 4.a and 5 were only partially addressed. The staff requests responses to the following questions and comments to fully resolve the apparent discrepancies discussed in questions 4.a and 5:

- Site Safety Analysis Report (SSAR) Table 1.3-1 and ER Table 3.1-1, PPE Section 9.3.1
 Bounding note 12 should referenced instead of note 6 to provide more clarity.
- 2. SSAR Table 1.3-2 and ER Table 3.1-2, Notes 12 and 13

Indicate that liquid and gaseous source terms reflect ABWR with an adjusted power of 4300 MWt and ESBWR scaled up by a margin of 25 percent.

3. SSAR Table 1.3-7 and ER Table 5.4-6

Table footnotes should indicate that the composite liquid effluent activities are based on ABWR, AP1000, ACR-700, and ESBWR, and the stated adjustments to the ABWR and ESBWR.

4. SSAR Table 1.3-8 and ER Table 5.4-7

Table footnotes should indicate that the composite gaseous effluent activities are based on ABWR, AP1000, ACR-700, and ESBWR, and the stated adjustments to the ABWR and ESBWR.

5. ER Table 3.1-9

In the "Doses Consequences" section, provide reference to ER Table 5.4-7 in discussing normal dose compliance for 10 CFR 20 for gaseous effluents.

6. ER Table 3.1-9

In the "Liquid Radwaste System" section, provide reference to ER Table 5.4-6 in discussing normal dose compliance for 10 CFR 20 for liquid effluents.

7. ER Table 3.1-9

In the "Source Term" section, change tritium release from "3530 Ci/yr (7060 Ci/yr)" to "3500 Ci/yr (7000 Ci/yr)" consistent with the value in ER Table 5.4-7.

8. ER Section 5.4.1.1

It is stated that the dilution factor (DF) is 10:

- a. Explain why a DF of 1000 was used in Table 5.4-6 rather than 10.
- b. Is it still conservative?
- c. What is the basis for a DF of 1000?
- d. Which blowdown rates of Table 3.1-9 are used?
- e. For clarity, add a note that the existing units provide a total of approximately 430,000 gpm in the discharge canal (based on UFSAR Table 11.2-20).

9. ER Section 5.4.2.1

It is stated that the sum of the fractions of effluent concentration limits (ECL) is within unity. Using a DF of 10 as provided in ER Section 5.4.1.1 and Table 5.4.1, the results of the staff's independent evaluation do not confirm these results. This needs to be reconciled with the actual DF used in Table 5.4-6 and Table 3.1-9 data.

10. ER Table 5.4-1

It is stated that the DF for discharge is 10.

- a. The staff's independent evaluation indicates that a DF of 1000 was applied to obtain the results in Table 5.4-6.
- b. Explain why a DF of 10 was used for all calculations except for 10 CFR Part 20, App. B, Table 2 compliance.
- c. Provide the basis for using a DF of 1000, using the blowdown rates of Table 3.1-9.
- d. It would be more clear to replace the effluent discharge rate of "100 gpm with 10,000 gpm dilution" with "100 gpm" and replacing "Dilution factor for discharge 10" with "Site specific dilution flow rate 100,000 gpm."

11. SSAR Section 3.5.1.6

This section references Section 2.2.3.2.1. The appropriate reference should be Section 2.2.3.2.

12. SSAR Sections 1.3.1, 1.9, ER Sections 3.1.6 and 5.4.2

Expand the discussion on the basis consideration of source terms, in light of the various reactor designs and the increase in the power level. Expand the description of the considerations applied in developing the bounding site specific PPE values from generic PPE values.

13. ER Section 5.4.4.3

Typographical error on the third line, "(40 CFR 90)" should read as "(40 CFR 190)."