

PMNorthAnna3COLPEmails Resource

From: Thomas Kevern
Sent: Wednesday, November 05, 2008 8:24 AM
To: Regina.Borsh@dom.com
Cc: NorthAnna3COL Resource
Subject: ESP Transfer
Attachments: XferLetter ML0828200791.pdf; XferOrder ML0828200860.pdf; XferSER ML0828202370.pdf; XferESPAmend ML0828202060.pdf; XferESPAmendAttach ML0830502640.pdf

Gina:

Follow-up to your voice mail. The transfer licensing activity was completed last week - package was in mail to Grecheck on 10/30 - not apparent why Dominion has yet to receive. Fed Reg publication is scheduled for today. Public distribution has normal 6-day hold from 10/30.

Attached is the complete package - with ADAMS numbers - available soon in public ADAMS.

Tom

Hearing Identifier: NorthAnna3_Public_EX
Email Number: 559

Mail Envelope Properties (CEEA97CC21430049B821E684512F6E5EAA344D0B1B)

Subject: ESP Transfer
Sent Date: 11/5/2008 8:23:41 AM
Received Date: 11/5/2008 8:23:46 AM
From: Thomas Kevern

Created By: Thomas.Kevern@nrc.gov

Recipients:

"NorthAnna3COL Resource" <NorthAnna3COL.Resource@nrc.gov>
Tracking Status: None
"Regina.Borsh@dom.com" <Regina.Borsh@dom.com>
Tracking Status: None

Post Office: HQCLSTR01.nrc.gov

Files	Size	Date & Time
MESSAGE	389	11/5/2008 8:23:46 AM
XferLetter ML0828200791.pdf	98716	
XferOrder ML0828200860.pdf	75218	
XferSER ML0828202370.pdf	86552	
XferESPAmend ML0828202060.pdf	70113	
XferESPAmendAttach ML0830502640.pdf	1438389	

Options

Priority: Standard
Return Notification: No
Reply Requested: No
Sensitivity: Normal
Expiration Date:
Recipients Received:

October 30, 2008

Mr. Eugene S. Grecheck
Vice President – Nuclear Development
Dominion
Innsbrook Technical Center
5000 Dominion Boulevard
Glen Allen, VA 23060

SUBJECT: NORTH ANNA ESP SITE – ORDER APPROVING TRANSFER OF EARLY SITE PERMIT NO. ESP-003 AND CONFORMING AMENDMENT

Dear Mr. Grecheck:

The U.S. Nuclear Regulatory Commission (NRC) staff has completed its review of your application dated April 24, 2008. Your application requested approval of the transfer of Early Site Permit, ESP-003, for the North Anna ESP Site, currently held by Dominion Nuclear North Anna, LLC (DNNA), to Virginia Electric and Power Company, doing business as Dominion Virginia Power (DVP), and Old Dominion Electric Cooperative (ODEC), and approval of a conforming amendment pursuant to Title 10 of the *Code of Federal Regulations*, Sections 52.28, "Transfer of Early Site Permit," 50.80, "Transfer of Licenses," and 50.90, "Application for Amendment of License, Construction Permit, or Early Site Permit." The transfer is associated with the planned merger of DNNA into DVP with DVP being the surviving entity.

The enclosed Order (Enclosure 1) approves the proposed transfer, subject to the conditions described therein. The Order also approves a conforming amendment (Enclosure 2), which will be issued and made effective at the time the transfer is completed, with the changes indicated in the conforming amendment. Enclosure 3 is the NRC's safety evaluation related to the transfer and conforming amendment.

This Order is being forwarded to the Office of the *Federal Register* for publication.

Sincerely,

/RA/

Thomas A. Kevern, Senior Project Manager
ESBWR/ABWR Projects Branch 1
Division of New Reactor Licensing
Office of New Reactors

Docket No. 52-008

Enclosures: As stated

cc w/encl: See next page

Mr. Eugene S. Grecheck
 Vice President – Nuclear Development
 Dominion
 Innsbrook Technical Center
 5000 Dominion Boulevard
 Glen Allen, VA 23060

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The U.S. Nuclear Regulatory Commission (NRC) staff has completed its review of your application dated April 24, 2008. Your application requested approval of the transfer of Early Site Permit, ESP-003, for the North Anna, LLC (DNNA), to Virginia Electric and Power Company, doing business as Dominion Virginia Power (DVP), and Old Dominion Electric Cooperative (ODEC), and approval of a conforming amendment pursuant to Title 10 of the *Code of Federal Regulations*, Sections 52.28, "Transfer of Early Site Permit," 50.80, "Transfer of Licenses," and 50.90, "Application for Amendment of License, Construction Permit, or Early Site Permit." The transfer is associated with the planned merger of DNNA into DVP with DVP being the surviving entity.

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 /RA/
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 ESBWR/ABWR Projects Branch 1
 Division of New Reactor Licensing
 Office of New Reactors

Docket No. 52-008
 Enclosures: As stated
 cc w/encl: See next page

Distribution:

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ADAMS Accession No.: Package: ML082820068; Letter: ML082820079; Order; ML082820086
 Conforming Amendment ML082820206; & Safety Evaluation ML082820237

OFFICE	PM:DNRL:NGE1	LA:DNRL:NGE1:	BC:DNRL:NGE1	OGC
NAME	TKevern	SCGreen	JCruz-EOesterle for:	SBrock (NLO)
DATE	10/09/08	10/08/08	10/10/08	10/22/08
OFFICE	DNRL:D	NRO:D		
NAME	DMatthews	MJohnson		
DATE	10/24/08	10/30/08		

OFFICIAL RECORD COPY

ENCLOSURE 1
ORDER APPROVING
TRANSFER OF EARLY SITE PERMIT
AND CONFORMING AMENDMENT
(ML082820086)

ENCLOSURE 2

CONFORMING EARLY SITE PERMIT AMENDMENT

(ML082820206)

ENCLOSURE 3
SAFETY EVALUATION FOR
TRANSFER OF EARLY SITE PERMIT
AND CONFORMING AMENDMENT
(ML082820237)

COL - North Anna Mailing List

(Revised 09/15/2008)

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UNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION

In the Matter of)	
)	
Dominion Nuclear North Anna, LLC,)	Docket No. 52-008
Virginia Electric and Power Company, and)	
Old Dominion Electric Cooperative)	Early Site Permit
)	ESP-003
(ESP for North Anna ESP Site))	

ORDER APPROVING TRANSFER OF EARLY SITE PERMIT
AND CONFORMING AMENDMENT

I.

Dominion Nuclear North Anna, LLC (DNNA) holds Early Site Permit 003 (ESP-003) issued on November 27, 2007, pursuant to Section 52.24 "Issuance of Early Site Permit," of Title 10 of the *Code of Federal Regulations* (10 CFR Section 52.24). The permit expires on November 27, 2027.

II.

Under cover of a letter dated April 24, 2008, DNNA, Virginia Electric and Power Company, doing business as Dominion Virginia Power (DVP), and Old Dominion Electric Cooperative (ODEC), submitted an application requesting an order consenting to the transfer of ESP-003 from DNNA to DVP and ODEC. The application also requests approval of a conforming amendment to ESP-003 to delete references to DNNA, reflect DVP and ODEC as the permit holders, and delete certain provisions that are no longer applicable because they applied only to DNNA. According to the application, transfer of the early site permit to DVP and ODEC will allow DVP to take advantage of the incentives and rate treatment afforded under new legislation enacted by the Commonwealth of Virginia to regulated public utilities. DVP is a

regulated public utility in Virginia. Additionally, DVP and ODEC are the owners of the North Anna Power Station (NAPS) and DVP is the licensed operator of the existing nuclear units at that site. Further, DVP and ODEC submitted a joint application on November 27, 2007, for a combined license (COL) for a new Unit 3 at NAPS. According to the application, transferring the ESP to DVP and ODEC will consolidate the responsibility for the ESP and the COL application into entities that are seeking a license to own and operate the new unit, and will thus facilitate the licensing process. To effectuate DVP's assumption of responsibilities for activities previously performed by DNNA, DNNA will be merged into DVP with DVP being the surviving entity. DVP will then assume all of DNNA's rights and obligations, including all rights and obligations under the ESP. The merger will become effective after receipt of required regulatory approvals, which include in addition to this Order, approval of the merger by the Virginia State Corporation Commission and the North Carolina Utilities Commission. The applicants requested approval of the transfer of the ESP and conforming amendment pursuant to 10 CFR 52.28, 10 CFR 50.80, and 10 CFR 50.90.

Notice of the request for approval and opportunity for a hearing were published in the *Federal Register* on August 27, 2008 (73 FR 50647). No comments and no requests for hearing or petitions for leave to intervene were received.

Pursuant to 10 CFR 52.28 and 10 CFR 50.80, no ESP, shall be transferred, directly or indirectly, through transfer of control of the ESP to any person, unless the Commission gives its consent in writing. Upon review of the information in the application and other information before the Commission, and relying upon the representations and agreements contained in the application, the NRC staff has determined that DVP and ODEC are qualified to hold ESP-003, and the transfer of ESP-003, as proposed in the application is otherwise consistent with applicable provisions of law, regulations, and orders issued by the Commission. The NRC staff has also found that the application for the proposed conforming amendment to the ESP complies with the standards and requirements of the Atomic Energy Act of 1954, as amended

(the Act), and the Commission's rules and regulations set forth in 10 CFR Chapter I; activities at the site will be in conformity with the application, the provisions of the Act, and the rules and regulations of the Commission; there is reasonable assurance that the activities authorized by the proposed ESP conforming amendment can be conducted without endangering the health and safety of the public and that such activities will be conducted in compliance with the Commission's regulations; the issuance of the proposed conforming amendment will not be inimical to the common defense and security or to the health and safety of the public; and issuance of the proposed amendment will be in accordance with 10 CFR Part 51 of the Commission's regulations and all applicable requirements have been satisfied.

The findings set forth above are supported by an NRC safety evaluation dated October 6, 2008.

III.

Accordingly, pursuant to Sections 161b, 161i, and 184 of the Act, 42 U.S.C. Sections 2201(b), 2201(i), and 2234; 10 CFR 52.28 and 10 CFR 50.80, IT IS HEREBY ORDERED that the transfer of the ESP, as described herein, to Virginia Electric and Power Company doing business as Dominion Virginia Power (DVP), and the Old Dominion Electric Cooperative (ODEC) is approved.

IT IS FURTHER ORDERED that, consistent with 10 CFR 2.1315(b), a conforming amendment that makes changes as indicated in Enclosure 2 to the cover letter forwarding this Order, to conform the ESP to reflect the subject permit transfer is approved. The amendment shall be issued and made effective at the time such proposed ESP transfer is completed.

IT IS FURTHER ORDERED that DVP and ODEC shall inform the Director of the Office of New Reactors in writing of the date of the merger of DNNA into DVP no later than 5 business days prior to the closing of the merger and transfer of the ESP. Should the transfer of the ESP not be completed by October 30, 2009, this Order shall become null and void, provided

however, that upon written application and good cause shown, such date may be extended by order.

This Order is effective upon issuance.

For further details with respect to this action, see the application dated April 24, 2008, and the safety evaluation dated October 6, 2008, which are available for public inspection at the Commission's Public Document Room (PDR), located at One White Flint North, 11555 Rockville Pike (first floor), Rockville, Maryland, and accessible electronically from the Agencywide Documents Access and Management System (ADAMS) Public Electronic Reading Room on the Internet at the NRC web site, <http://www.nrc.gov/reading-rm/adams.html>. The documents are also available at <http://www.nrc.gov/reactors/new-licensing/esp.html>. Persons who do not have access to ADAMS or who encounter problems in accessing the documents located in ADAMS, should contact the NRC PDR Reference Staff by telephone at 1-800-397-4209, 301-415-4737, or by e-mail to pdrc@nrc.gov.

Dated at Rockville, Maryland this 30th day of October 2008.

FOR THE NUCLEAR REGULATORY COMMISSION

/RA/

Michael R. Johnson, Director
Office of New Reactors

SAFETY EVALUATION BY THE OFFICE OF NEW REACTORS
DIRECT TRANSFER OF EARLY SITE PERMIT NO. ESP-003
FROM DOMINION NUCLEAR NORTH ANNA, LLC (DNNA) TO
VIRGINIA ELECTRIC AND POWER COMPANY, DBA DOMINION VIRGINIA POWER (DVP)
AND OLD DOMINION ELECTRIC COOPERATIVE (ODEC)
AND CONFORMING AMENDMENT
NORTH ANNA ESP SITE
DOCKET NO. 52-008

1.0 INTRODUCTION

By application dated April 24, 2008 (Agencywide Documents and Access Management System (ADAMS) Accession No. ML081210412), hereafter referred to as the application, unless otherwise noted, Dominion Nuclear North Anna, LLC (DNNA) requested approval of the transfer of Early Site Permit No. ESP-003 for the North Anna ESP Site held by DNNA, to Virginia Electric and Power Company, doing business as Dominion Virginia Power (DVP) and Old Dominion Electric Cooperative (ODEC); and approval of a conforming amendment pursuant to Title 10 of the *Code of Federal Regulations* (10 CFR), Sections 10 CFR 52.28, "Transfer of Early Site Permit," 10 CFR 50.80, "Transfer of Licenses," and 10 CFR 50.90, "Application for Amendment of License, Construction Permit, or Early Site Permit." The permit transfer involves the transfer of DNNA's 100 percent undivided ownership interest in the North Anna ESP Site to DVP and ODEC.

2.0 BACKGROUND

DNNA is the current holder of ESP-003 for the North Anna ESP Site. Both DNNA and DVP are subsidiaries of Dominion Resources, Inc. (DRI).

DVP was incorporated in 1909 as a Virginia public service corporation and is a regulated public utility engaged in the power generation and electric service delivery business within a 30,000 square-mile service area in Virginia and northeastern North Carolina. DVP supplies energy at retail to approximately 2.3 million customer accounts including government agencies, and to wholesale customers such as rural electric cooperatives and municipalities.

ODEC was incorporated in 1948 as a Virginia not-for-profit wholesale power supply cooperative engaged in the business of providing wholesale electric service to twelve member distribution cooperatives, which in turn are engaged in the retail sale of power to member consumers in 77 counties throughout Virginia, Delaware, Maryland and West Virginia.

DVP and ODEC are the owners of North Anna Power Station (NAPS), and DVP is the licensed operator of the existing nuclear units at that site. DVP and ODEC submitted a joint application on November 27, 2007, for a combined license (COL) for a new Unit 3 at NAPS. Transferring the ESP to DVP and ODEC will consolidate the responsibility for both the ESP and the COL application in entities that are seeking a license to own and operate the new unit, and will, according to the application, facilitate the licensing process.

To effectuate DVP's assumption of responsibilities for activities previously performed by DNNA, DNNA will be merged into DVP, with DVP being the surviving entity. As a result of this merger, DVP will assume all of DNNA's rights and obligations, including all obligations under the Early Site Permit. The merger will become effective after receipt of required regulatory approvals which include, in addition to requested ESP transfer order, approval of the merger by the Virginia State Corporation Commission and the North Carolina Utilities Commission.

The purpose of the proposed permit transfer is to allow DVP to take advantage of the incentives and rate treatment afforded regulated public utilities under new Virginia electricity regulations which provide incentives for utilities with native load obligations in the form of enhanced rates of return for the development of major new energy projects, including nuclear projects, approved by the Virginia State Corporation Commission. In addition, the legislation (House Bill 3068, Senate Bill 1416, Virginia Acts of Assembly, Chapters 888 and 933 (2007) allows for recovery of the cost of work in progress during the construction period.

On September 18, 2007, the Virginia State Corporation Commission issued an order approving DVP as the appropriate subsidiary of DRI to apply for a construction permit and operating license for a new nuclear generating facility at North Anna.

3.0 REGULATORY EVALUATION

In the application, DNNA, DVP, and ODEC requested the approval of the direct transfer of the Early Site Permit for the North Anna ESP Site from DNNA to DVP and ODEC pursuant to 10 CFR 52.28 and 10 CFR 50.80. As stated in 10 CFR 52.28, "An application to transfer an early site permit will be processed under 10 CFR 50.80." As stated in 10 CFR 50.80(a), "No license for a production or utilization facility (including, but not limited to, permits under this part and Part 52 of this chapter, and licenses under Parts 50 and 52 of this chapter), or any right thereunder, shall be transferred, assigned, or in any manner disposed of, either voluntarily or involuntarily, directly or indirectly, through the transfer of control of the license to any person, unless the Commission gives its consent in writing."

In addition, the requirements of 10 CFR 50.80(b)(1)(ii) and (c) apply. Under 10 CFR 50.80(b)(1)(ii), an application for an ESP transfer shall include "as much of the information described in 10 CFR 52.16 and 10 CFR 52.17 of this chapter with respect to the identity and technical qualifications of the proposed transferee as would be required by those sections if the application were for an initial license." Pursuant to 10 CFR 50.80(c), "...the Commission will approve an application for the transfer of a license, if the Commission determines. (1) that the

proposed transferee is qualified to be the holder of the license; and (2) that transfer of the license is otherwise consistent with applicable provisions of law, regulations, and orders issued by the Commission pursuant thereto.”

4.0 TECHNICAL EVALUATION

4.1 Technical Qualifications

DNNA and DVP are both subsidiaries of DRI. According to the application, DNNA will be merged into DVP, with DVP being the surviving entity. As a result of this merger, DVP will assume all of DNNA’s rights and obligations, including all rights and obligations under the ESP. DVP and ODEC are the owners of NAPS and DVP is the licensed operator of the existing nuclear units at that site. DVP and ODEC submitted a joint application on November 27, 2007, for a COL for a new Unit 3 at NAPS. Transferring the ESP to DVP and ODEC will consolidate the responsibility for both the ESP and the COL application in entities that are seeking a license to own and operate the new unit, and will facilitate the licensing process. Since the application for the transfer of the ESP (1) simply involves the merger of the current permit holder into a sibling company; (2) will not result in substantive changes to the ESP; and (3) involves no change to the technical information required by 10 CFR 52.16 and 10 CFR 52.17 provided in the original ESP application; the proposed transferees are technically qualified to hold the ESP.

4.2 Financial Qualifications

Demonstration of financial qualifications is not required of applicants for a transfer of an ESP pursuant to 10 CFR 50.80(b)(1)(ii).

4.3 Decommissioning Funding Assurance

The regulations in 10 CFR Part 52, Subpart A, “Early Site Permits,” and in particular Section 52.16, “Contents of Applications; General Information,” and Section 52.17, “Contents of Applications; Technical Information,” do not contain any requirement for decommissioning funding assurance. Since none of the authorized activities (preconstruction and site preparation activities) under an ESP entail the use of radioactive materials, there is nothing to decommission. Thus, a decommissioning funding assurance review is not applicable in connection with this application.

4.4 Antitrust Review

Under 10 CFR 50.80(b)(1)(ii), an application for the transfer of an ESP shall include as much of the information described in 10 CFR 52.16 and 52.17 as would be required by those sections if the application were for an initial license. Those sections do not require any information relating to the consideration of antitrust issues. Accordingly, no antitrust review is being conducted in connection with this ESP transfer application.

4.5 Foreign Ownership, Control, or Domination

Section 103 of the Atomic Energy Act of 1954, as amended (the Act), prohibits the NRC from issuing a license to “...any corporation or other entity if the Commission knows or has reason to believe it is owned, controlled, or dominated by an alien, a foreign corporation, or a foreign

government.” NRC’s regulation, 10 CFR 50.38, “Ineligibility of Certain Applicants,” contains language to implement this prohibition. This prohibition applies to ESP since an ESP is issued under Section 103 of the Act.

DVP is a Virginia public service corporation with its principal place of business in Richmond, Virginia. The directors and principal officers of DVP are all citizens of the United States. The application further states that DVP is not owned, controlled, or dominated by an alien or foreign corporation or foreign government. The NRC does not know or have reason to believe otherwise.

ODEC is a Virginia not-for-profit corporation with its principal place of business in Glen Allen, Virginia. The directors and principal officers of ODEC are all citizens of the United States. The application further states that ODEC is not owned, controlled, or dominated by an alien or foreign corporation, or foreign government. The NRC does not know or have reason to believe otherwise.

4.6 Nuclear Insurance and Indemnity

A holder of an ESP is not required to have financial protection under the Price Anderson Act or the Commission’s regulations. Thus, no insurance review is necessary in connection with this application.

5.0 CONFORMING AMENDMENT

5.1 Background

The applicants have requested approval of a proposed conforming amendment to the ESP. The requested changes reflect the proposed transfer from DNNA to DVP and ODEC, deleting references to DNNA in the permit and substituting DVP and ODEC as appropriate.

Two permit conditions are to be removed from the ESP since the transfer would render them moot.

The first permit condition currently requires DNNA, if DNNA decided to proceed with construction, to enter into an agreement with DVP, with the prior approval of the Virginia State Corporation Commission, to purchase or lease the ESP site in order to provide for control of said exclusion area. With the transfer of the ESP, there will no longer be any need for a condition directed to DNNA, which would cease to exist.

The second permit condition currently requires DNNA, before commencing any site redress activities, to obtain the appropriate regulatory approvals of an agreement between DVP and DNNA authorizing DNNA to conduct activities subject to DNNA’s obligation to perform such site redress as may be required under the ESP’s Site Redress Plan. Under the permit condition, DNNA would also be required to provide to the NRC a guaranty by DRI of \$10 million as financial assurance for DNNA’s obligation to comply with the Site Redress Plan. With the transfer of the ESP, there would no longer be any need for a condition directed to DNNA which would cease to exist.

5.2 Discussion

The changes to be made to the ESP do no more than accurately reflect the approved transfer action. The amendment involves no safety questions and is administrative in nature. Accordingly, the proposed amendment is acceptable.

5.3 Conclusions – Evaluation of the Conforming Amendment

The Commission has concluded, based on the considerations discussed above, that (1) there is reasonable assurance that the health and safety of the public will not be endangered by virtue of ESP activities undertaken in the proposed manner; (2) such activities will be conducted in compliance with the Commission's regulations; and (3) the issuance of the amendment will not inimical to the common defense and security or to the health and safety of public.

5.4 State Consultation

In accordance with the Commission's regulations, the NRC notified the appropriate official of the Commonwealth of Virginia, Mr. Les Foldesi, Director, Division of Radiation Health, of the proposed issuance of the amendment. The State official had no technical comments.

6.0 ENVIRONMENTAL CONSIDERATION

The subject application is for approval of the transfer of an ESP issued by the NRC and approval of a conforming amendment. Accordingly, the actions involved meet the eligibility criteria for categorical exclusion set forth in 10 CFR 51.22(c)(21). Pursuant to 10 CFR 51.22(b), no environmental impact statement or environmental assessment need be prepared in connection with approval of the application.

7.0 CONCLUSIONS

In view of the foregoing, the NRC staff finds that, subject to the conditions discussed herein, DVP and ODEC are qualified to hold the Early Site Permit, ESP-003, and the transfer of the ESP as proposed in the application is otherwise consistent with applicable provisions of law, regulations, and orders issued by the Commission pursuant thereto.

Principal Contributor: Russell E. Chazell

Date: October 6, 2008

VIRGINIA ELECTRIC AND POWER COMPANY

AND

OLD DOMINION ELECTRIC COOPERATIVE

NORTH ANNA ESP SITE

DOCKET NO. 52-008

EARLY SITE PERMIT

Amendment No. 1
Early Site Permit No. ESP-003

1. The U.S. Nuclear Regulatory Commission (the NRC or the Commission) has found that:
 - A. The application for amendment by Dominion Nuclear North Anna, LLC, (the permit holder) dated April 24, 2008, complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's rules and regulations set forth in 10 CFR Chapter I;
 - B. The permit holder will conduct ESP activities in conformity with the application, as amended, the provisions of the Act, and the rules and regulations of the Commission;
 - C. There is reasonable assurance (i) that the activities authorized by this amendment can be conducted without endangering the health and safety of the public, and (ii) that such activities will be conducted in compliance with the Commission's regulations;
 - D. The issuance of this ESP amendment will not be inimical to the common defense and security or the health and safety of the public; and
 - E. The issuance of this amendment is in accordance with 10 CFR Part 51 of the Commission's regulations and all applicable requirements have been satisfied.
2. Accordingly, the ESP is amended as indicated in the attachment to this amendment.

3. The ESP amendment is effective as of its date of issuance and shall be implemented within 60 days from the date of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION

/RA/ E. Oesterle for J. Cruz

Jeffrey Cruz, Chief
ESBWR/ABWR Projects Branch 1
Division of New Reactor Licensing
Office of New Reactors

Attachment: Changes to ESP No. ESP-003

Date of Issuance: October 30, 2008

ATTACHMENT TO ESP AMENDMENT NO. 1

EARLY SITE PERMIT NO. ESP-003

DOCKET NO. 52-008

Replace the following pages of the Early Site Permit No. ESP-003 with the attached revised pages. The revised pages are identified by amendment number and contain marginal lines indicating the areas of change.

Remove

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VIRGINIA ELECTRIC AND POWER COMPANY AND OLD DOMINION ELECTRIC COOPERATIVE
DOMINION NUCLEAR NORTH ANNA, LLC

NORTH ANNA ESP SITE

DOCKET NO. 52-008

EARLY SITE PERMIT

Early Site Permit No. ESP-003

1. The U.S. Nuclear Regulatory Commission (the NRC or the Commission) has found the following:
 - A. The application for an early site permit (ESP) filed by ~~Dominion Nuclear North Anna, LLC (Dominion or the permit holder)~~ complies with the applicable requirements of the Atomic Energy Act of 1954, as amended, and the applicable rules and regulations of the Commission, and all required notifications to other agencies or bodies have been duly made.
 - B. Based on consideration of the site criteria contained in Title 10, Part 100, "Reactor Site Criteria," of the *Code of Federal Regulations* (10 CFR Part 100), a reactor, or reactors, having design characteristics that fall within the site characteristics and controlling parameters of the North Anna ESP Site can be constructed and operated without undue risk to the health and safety of the public.
 - C. There is reasonable assurance that the permit ~~holder~~ ^{holders} will comply with the regulations in 10 CFR Chapter I and the health and safety of the public will not be endangered.
 - D. Issuance of an ESP to the permit ~~holder~~ ^{holders} will not be inimical to the common defense and security or the health and safety of the public.
 - E. There is no significant impediment to the development of emergency plans, as referenced in 10 CFR 52.17(b)(1), "Contents of Applications," and 10 CFR 52.18, "Standards for Review of Applications." The descriptions of contacts and arrangements made with Federal, State, and local governmental agencies with emergency planning responsibilities, as set forth in 10 CFR 52.17(b)(3), are acceptable. Major features A, B, C, D, E, F, G, I, J, K, L, O, and P of the emergency plan are acceptable to the extent specified in NUREG-1835, "Safety Evaluation Report for an Early Site Permit (ESP) at the North Anna ESP Site," issued September 2005.
 - F. The issuance of this ESP, subject to the Environmental Protection Plan (EPP) and the conditions for the protection of the environment set forth herein, is in accordance with the National Environmental Policy Act of 1969, as amended, and with applicable sections of 10 CFR Part 51, "Environmental Protection Regulations for Domestic Licensing and

Related Regulatory Functions," as referenced by Subpart A, "Early Site Permits," of 10 CFR Part 52, "Early Site Permits; Standard Design Certifications; and Combined Licenses for Nuclear Power Plants," and all applicable requirements therein have been satisfied.

- G. The site redress plan incorporated into this permit demonstrates that there is reasonable assurance that redress carried out under the plan, if required, will achieve an environmentally stable and aesthetically acceptable site suitable for whatever nonnuclear use may conform with local zoning laws, and those activities described in the site redress plan will not result in any significant adverse environmental impact that cannot be redressed.

Virginia Electric and Power Company (Dominion) and Old Dominion Electric Cooperative (collectively, the permit holders)

2. Based on the foregoing findings, and pursuant to Sections 103 and 185 of the Atomic Energy Act of 1954, as amended, 10 CFR Part 52, the Initial Decision of the Atomic Safety and Licensing Board, dated June 29, 2007 (LBP-07-09), and the Commission Memorandum and Order dated November 20, 2007 (CLI-07-27), the NRC hereby issues Early Site Permit No. ESP-003 to Dominion Nuclear North Anna, LLC, for a site located in Louisa County, Virginia, approximately 40 miles north-northwest of Richmond, Virginia, and adjacent to existing North Anna Power Station Units 1 and 2, for additional nuclear power units, which may be modular, designed to operate at an individual power of no more than 4500 megawatts thermal and a combined power of no more than 9000 megawatts thermal, as described in the application and amendments thereto (the application) filed in this matter by the permit holder, and as described in the evidence received at the public hearing on that application.

3. This ESP shall be deemed to contain and is subject to the conditions specified in the Commission's regulations in 10 CFR Chapter I; is subject to all applicable provisions of the Atomic Energy Act of 1954, as amended, and the rules, regulations, and orders of the Commission now or hereafter in effect; and is subject to the following conditions specified or incorporated below:

North Anna

- A. The characteristics of the Dominion ESP site set forth in Appendix A to this ESP are hereby incorporated into this ESP.
- B. The controlling values of parameters and design-basis accident source term plant parameters set forth in Appendix B to this ESP are hereby incorporated into this ESP.
- C. The combined license (COL) action items set forth in Appendix C to this ESP are hereby incorporated into this ESP. These COL action items identify certain matters that an applicant submitting an application that references this ESP shall address in the final safety analysis report (FSAR). These items constitute information requirements but are not the only acceptable set of information in the FSAR. An applicant may depart from or omit these items, provided that it identifies and justifies the departure or omission in the FSAR. In addition, these items do not relieve an applicant from any requirement in 10 CFR Chapter I that governs the application. After issuance of a construction permit (CP) or

holders or licensees

COL, these items are not requirements for the permit holder or licensee unless such items are included in a permit or license condition.

D. The values of plant parameters considered in the environmental review of the application and set forth in Appendix D to this ESP are hereby incorporated into this ESP.

E. The following conditions apply:

(1) ~~An applicant for a CP or COL referencing this ESP shall execute an agreement providing for the applicant's control of the North Anna ESP site exclusion area and shall obtain all approvals required by State law in connection with that agreement before the commencement of construction of a nuclear power plant on the North Anna ESP site. The CP or COL applicant shall be deemed to control the North Anna ESP exclusion area if it obtains shared control of the exclusion area with the licensee or licensees of existing North Anna Units 1 and 2. [Deleted]~~

Applicants

(2) ~~An applicant for a CP or COL referencing this ESP for a second new unit shall use a dry cooling tower system to remove waste heat from the working fluid passed through the turbine/generator set during normal operation.~~

Applicants

(3) ~~An applicant for a CP or COL referencing this ESP shall ensure that any new unit's radioactive waste management systems, structures, and components, as defined in Regulatory Guide 1.143, "Design Guidance for Radioactive Waste Management Systems, Structures, and Components Installed in Light-Water-Cooled Nuclear Power Plants," for a future reactor include features to preclude accidental releases of radionuclides into potential liquid pathways.~~

Applicants

(4) ~~An applicant for a CP or COL referencing this ESP shall excavate weathered or fractured rock at the foundation level and replace it with lean concrete before the commencement of foundation construction for safety-related structures.~~

holders applicants

(5) The permit holder and ~~an applicant~~ for a CP or COL referencing this ESP shall not use an engineered fill with high compressibility and low maximum density, such as saprolite.

holders perform holders

(6) If the ESP holder ~~performs~~ an excavation for a safety-related structure, the ESP holder shall perform geologic mapping of such excavation, evaluate any unforeseen geologic features that are encountered, and notify the NRC no later than 30 days before any such excavation is open for NRC examination and evaluation. ~~An~~

Applicants applicant for a CP or COL referencing this ESP shall perform geologic mapping of any excavation for a safety-related structure,

evaluate any unforeseen geologic features that are encountered, and notify the NRC no later than 30 days before any such excavation is open for NRC examination and evaluation.

Applicants

- (7) An applicant for a CP or COL referencing this ESP shall improve Zone II saprolitic soils to reduce any liquefaction potential if safety-related structures are to be founded on them.

F. The activities and site redress plan specified in paragraphs F, G, H, and I below were reviewed and approved in accordance with the regulations in effect on September 25, 2003, and refer to the rules in effect at that time. The site redress plan set forth in Appendix E to this ESP is hereby incorporated into this ESP.

- (1) holders holders The holder of this ESP may perform the activities authorized by 10 CFR 52.25, "Extent of Activities Permitted," only insofar as the site redress plan describes such activities. The holder of this ESP may perform activities not described in the site redress plan only with prior NRC approval. A request to perform such activities shall describe how such activities will be redressed, and, if the request is granted, the site redress plan shall be deemed to include this additional description of site redress.

- (2) holders The holder of this ESP may change the site redress procedures set forth in the site redress plan in Appendix E without obtaining Commission approval provided that the changes do not decrease the effectiveness of the plan.

- (3) ~~The permit holder shall obtain the right to implement the site redress plan set forth in Appendix E before initiating any activities authorized by 10 CFR 52.25. [Deleted]~~

G. holders holders The permit holder shall notify the NRC Regional Administrators for Region II and the operator of North Anna Power Station of the permit holders' holder's plans to begin the site preparation and preliminary construction activities described in the site redress plan at least 120 days before commencement of such activities and shall certify in that notification to the NRC that it has obtained all other permits, licenses, and certifications required for these activities.

H. holders such holders obtain such holder obtains The holder of this ESP shall not perform any site preparation or preliminary construction activities authorized by 10 CFR 52.25 unless the certification required pursuant to Section 401 of the Federal Water Pollution Control Act from the Commonwealth of Virginia, or obtains a determination by the Commonwealth of Virginia that no certification is required and submits the certification or determination to the NRC before commencement of any such activities.

- I. obtain submit The following conditions apply:

- Attachments:
- Appendix A: Characteristics of the ~~Dominion Nuclear~~ North Anna, LLC, ESP Site
 - Appendix B: Controlling Values of Parameters and Design-Basis Accident Source Term Plant Parameters
 - Appendix C: Combined License Action Items
 - Appendix D: Values of Plant Parameters Considered in the Environmental Review of the Application
 - Appendix E: Site Redress Plan
 - Appendix F: Environmental Protection Plan (Nonradiological)

**Appendix A: Characteristics of the Dominion Nuclear
North Anna, LLC, ESP Site**

Table B-2: Main Steam Line Break Outside Containment (PWR)
Isotopic time-dependent fission product release rates to the environment (values in Ci)

ESP
 Ref: North Anna Nuclear, LLC Site Safety Analysis Report, Rev. 9, Table 15.4-2
 Activity Releases for AP1000 Main Steam Line Break, Preexisting Iodine Spike

Isotope	0-2 hr	2-8 hr	8-24 hr	24-72 hr	Total
Kr-85m	2.30E-01	3.82E-01	2.26E-01	2.03E-02	8.58E-01
Kr-85	9.47E-01	2.83E+00	7.47E+00	2.17E+01	3.29E+01
Kr-87	9.24E-02	4.49E-02	1.76E-03	2.84E-07	1.39E-01
Kr-88	3.77E-01	4.59E-01	1.34E-01	2.72E-03	9.73E-01
Xe-131m	4.28E-01	1.27E+00	3.26E+00	8.78E+00	1.37E+01
Xe-133m	5.31E-01	1.51E+00	3.45E+00	6.69E+00	1.22E+01
Xe-133	3.95E+01	1.15E+02	2.87E+02	7.03E+02	1.14E+03
Xe-135m	1.02E-02	4.44E-05	0.00E+00	0.00E+00	1.02E-02
Xe-135	1.04E+00	2.31E+00	2.78E+00	1.11E+00	7.24E+00
Xe-138	1.34E-02	3.81E-05	0.00E+00	0.00E+00	1.34E-02
I-130	4.98E-01	4.74E-01	6.95E-01	4.36E-01	2.10E+00
I-131	3.37E+01	4.05E+01	1.03E+02	2.67E+02	4.44E+02
I-132	4.02E+01	1.39E+01	2.68E+00	2.16E-02	5.68E+01
I-133	6.03E+01	6.35E+01	1.17E+02	1.30E+02	3.71E+02
I-134	8.24E+00	5.47E-01	4.77E-03	1.50E-08	8.79E+00
I-135	3.56E+01	2.73E+01	2.51E+01	5.60E+00	9.36E+01
Cs-134	1.91E+01	6.52E-01	1.72E+00	5.00E+00	2.65E+01
Cs-136	2.84E+01	9.57E-01	2.47E+00	6.69E+00	3.85E+01
Cs-137	1.38E+01	4.70E-01	1.24E+00	3.61E+00	1.91E+01
Cs-138	1.02E+01	3.41E-03	1.48E-06	0.00E+00	1.02E+01
Total	2.93E+02	2.72E+02	5.58E+02	1.16E+03	2.28E+03

Table B-3: Main Steam Line Break Outside Containment (PWR)
Isotopic time-dependent fission product release rates to the environment (values in Ci)

ESP
 Ref: North Anna Nuclear, LLC Site Safety Analysis Report, Rev. 9, Table 15.4-4
 Activity Releases for AP1000 Main Steam Line Break, Accident-Initiated Iodine Spike

Isotope	0-2 hr	2-8 hr	8-24 hr	24-72 hr	Total
Kr-85m	2.30E-01	3.82E-01	2.26E-01	2.03E-02	8.58E-01
Kr-85	9.47E-01	2.83E+00	7.47E+00	2.17E+01	3.29E+01
Kr-87	9.24E-02	4.49E-02	1.76E-03	2.84E-07	1.39E-01
Kr-88	3.77E-01	4.59E-01	1.34E-01	2.72E-03	9.73E-01
Xe-131m	4.28E-01	1.27E+00	3.26E+00	8.78E+00	1.37E+01
Xe-133m	5.31E-01	1.51E+00	3.45E+00	6.69E+00	1.22E+01
Xe-133	3.95E+01	1.15E+02	2.87E+02	7.03E+02	1.14E+03
Xe-135m	1.02E-02	4.44E-05	0.00E+00	0.00E+00	1.02E-02
Xe-135	1.04E+00	2.31E+00	2.78E+00	1.11E+00	7.24E+00
Xe-138	1.34E-02	3.81E-05	0.00E+00	0.00E+00	1.34E-02
I-130	6.84E-01	3.33E+00	5.27E+00	3.30E+00	1.26E+01
I-131	3.92E-01	1.92E+02	5.18E+02	1.35E+03	2.10E+03
I-132	9.12E+01	3.26E+02	7.46E+01	6.00E-01	4.92E+02
I-133	7.75E+01	3.81E+02	7.54E+02	8.34E+02	2.05E+03
I-134	3.03E+01	6.23E+01	8.85E-01	2.78E-06	9.35E+01
I-135	5.57E+01	2.59E+02	2.61E+02	5.82E+01	6.34E+02
Cs-134	1.91E+01	6.52E-01	1.72E+00	5.00E+00	2.65E+01
Cs-136	2.84E+01	9.57E-01	2.47E+00	6.69E+00	3.85E+01
Cs-137	1.38E+01	4.70E-01	1.24E+00	3.61E+00	1.91E+01
Cs-138	1.02E+01	3.41E-03	1.48E-06	0.00E+00	1.02E+01
Total	4.09E+02	1.35E+03	1.92E+03	3.00E+03	6.68E+03

**Table B-4: Main Steam Line Break Outside Containment (BWR)
Activity released to the environment (values in Ci)**

ESP

Ref: North Anna Nuclear, LLC Site Safety Analysis Report, Rev. 9, Table 15.4-19a
Activity Releases for ESBWR Main Steam Line Break

Isotope	Pre-Existing	Equilibrium Activity
I-131	1.96E+02	9.79E+00
I-132	1.86E+03	9.45E+01
I-133	1.35E+03	6.75E+01
I-134	3.38E+03	1.72E+02
I-135	1.92E+03	9.45E+01
Kr-85m	1.72E-02	1.72E-02
Kr-85	6.75E-05	6.75E-05
Kr-87	5.74E-02	5.74E-02
Kr-88	5.74E-02	5.74E-02
Xe-133	2.46E-02	2.46E-02
Xe-135	6.75E-02	6.75E-02
Total	8.70E+03	4.39E+02

**Table B-5: Feedwater System Pipe Break (PWR or BWR)
Activity released to the environment (values in Ci)**

ESP

Ref: North Anna Nuclear, LLC Site Safety Analysis Report, Rev. 9, Table 15.4-5c
Activity Releases for ABWR Cleanup Water Line Break

Isotope	0-2 hr
I-131	4.39E-03
I-132	4.05E-02
I-133	2.94E-02
I-134	7.43E-02
I-135	4.05E-02
Total	1.89E-01

**Table B-6: Reactor Coolant Pump Locked Rotor Accident (PWR)
Activity released to the environment (values in Ci)**

ESP
Ref: North Anna Nuclear, LLC Site Safety Analysis Report, Rev. 9, Table 15.4-6
Activity Releases for AP1000 Locked Rotor Accident

Isotope	0-2 hr
Kr-85m	4.09E+02
Kr-85	3.77E+01
Kr-87	6.05E+02
Kr-88	1.05E+03
Xe-131m	1.87E+01
Xe-133m	1.02E+02
Xe-133	3.33E+03
Xe-135m	1.63E+02
Xe-135	8.01E+02
Xe-138	6.48E+02
I-130	4.15E+00
I-131	1.83E+02
I-132	1.33E+02
I-133	2.31E+02
I-134	1.44E+02
I-135	2.04E+02
Cs-134	5.83E+00
Cs-136	1.85E+00
Cs-137	3.42E+00
Cs-138	3.05E+01
Rb-86	6.69E-02
Total	8.11E+03

Table B-7: Control Rod Ejection Accident (PWR)
Isotopic time-dependent fission product release rates to the environment (values in Ci)

ESP
 Ref: North Anna Nuclear, LLC Site Safety Analysis Report, Rev. 9, Table 15.4-8
 Activity Releases for AP1000 Rod Ejection Accident

Isotope	0-2 hr	2-8 hr	8-24 hr	24-96 hr	96-720 hr	Total
Kr-85m	2.85E+02	6.48E+01	3.87E+01	3.53E+00	5.01E-05	3.92E+02
Kr-85	1.24E+01	5.60E+00	1.49E+01	6.70E+01	5.71E+02	6.71E+02
Kr-87	4.86E+02	2.60E+01	1.03E+00	1.67E-04	0.00E+00	5.13E+02
Kr-88	7.49E+02	1.18E+02	3.49E+01	7.18E-01	1.68E-08	9.03E+02
Xe-131m	1.22E+01	5.46E+00	1.42E+01	5.72E+01	2.31E+02	3.20E+02
Xe-133m	6.62E+01	2.81E+01	6.49E+01	1.69E+02	1.06E+02	4.34E+02
Xe-133	2.18E+03	9.58E+02	2.40E+03	8.53E+03	1.68E+04	3.09E+04
Xe-135m	2.18E+02	5.30E-02	4.33E-09	0.00E+00	0.00E+00	2.18E+02
Xe-135	5.39E+02	1.72E+02	2.09E+02	8.69E+01	3.58E-01	1.01E+03
Xe-138	8.89E+02	1.38E-01	3.19E-09	0.00E+00	0.00E+00	8.89E+02
I-130	5.93E+00	7.28E+00	4.32E+00	4.06E-01	5.88E-04	1.79E+01
I-131	1.64E+02	2.45E+02	2.31E+02	6.20E+01	3.33E+01	7.35E+02
I-132	1.90E+02	9.94E+01	9.85E+00	1.65E-02	0.00E+00	2.99E+02
I-133	3.29E+02	4.40E+02	3.18E+02	4.56E+01	4.81E-01	1.13E+03
I-134	2.18E+02	2.85E+01	1.37E-01	8.96E-08	0.00E+00	2.47E+02
I-135	2.91E+02	2.97E+02	1.19E+02	4.79E+00	1.46E-04	7.12E+02
Cs-134	3.15E+01	6.22E+01	6.03E+01	1.55E+01	1.03E+01	1.80E+02
Cs-136	8.98E+00	1.75E+01	1.67E+01	4.10E+00	1.31E+00	4.86E+01
Cs-137	1.83E+01	3.62E+01	3.51E+01	9.04E+00	6.05E+00	1.05E+02
Cs-138	1.13E+02	7.05E+00	1.68E-03	0.00E+00	0.00E+00	1.20E+02
Rb-86	3.70E-01	7.27E-01	6.96E-01	1.73E-01	6.79E-02	2.03E+00
Total	6.81E+03	2.62E+03	3.57E+03	9.06E+03	1.78E+04	3.98E+04

Table B-8: Steam Generator Tube Rupture Accident (PWR)
Isotopic time-dependent fission product release rates to the environment (values in Ci)

ESP

Ref: North Anna Nuclear, LLC Site Safety Analysis Report, Rev. 9, Table 15.4-13
 Activity Releases for AP1000 Steam Generator Tube Rupture, Preexisting Iodine Spike

Isotope	0-2 hr	2-8 hr	8-24 hr	Total
Kr-85m	5.67E+01	1.91E+01	2.50E-02	7.58E+01
Kr-85	2.25E+02	1.07E+02	4.44E-01	3.32E+02
Kr-87	2.46E+01	3.56E+00	3.02E-04	2.82E+01
Kr-88	9.44E+01	2.61E+01	1.80E-02	1.21E+02
Xe-131m	1.02E+02	4.82E+01	1.96E-01	1.50E+02
Xe-133m	1.26E+02	5.83E+01	2.19E-01	1.85E+02
Xe-133	9.37E+03	4.41E+03	1.75E+01	1.38E+04
Xe-135m	3.61E+00	5.78E-03	0.00E+00	3.62E+00
Xe-135	2.51E+02	1.00E+02	2.35E-01	3.51E+02
Xe-138	4.78E+00	4.99E-03	0.00E+00	4.78E+00
I-130	1.81E+00	6.12E-02	2.90E-01	2.16E+00
I-131	1.22E+02	5.97E+00	3.32E+01	1.61E+02
I-132	1.43E+02	8.53E-01	2.08E+00	1.46E+02
I-133	2.19E+02	8.68E+00	4.41E+01	2.72E+02
I-134	2.78E+01	5.16E-03	4.57E-03	2.78E+01
I-135	1.28E+02	3.06E+00	1.26E+01	1.44E+02
Cs-134	1.65E+00	6.35E-02	2.27E-01	1.94E+00
Cs-136	2.45E+00	9.30E-02	3.30E-01	2.87E+00
Cs-137	1.19E+00	4.58E-02	1.64E-01	1.40E+00
Cs-138	5.71E-01	3.07E-06	6.00E-07	5.71E-01
Total	1.09E+04	4.79E+03	1.12E+02	1.58E+04

**Table B-9: Steam Generator Tube Rupture Accident (PWR)
Isotopic time-dependent fission product release rates to the environment (values in Ci)**

ESP
Ref: North Anna Nuclear, LLC Site Safety Analysis Report, Rev. 9, Table 15.4-15
Activity Releases for AP1000 Main Steam Line Break, Accident-Initiated Iodine Spike

Isotope	0-2 hr	2-8 hr	8-24 hr	Total
Kr-85m	5.67E+01	1.91E+01	2.50E-02	7.58E+01
Kr-85	2.25E+02	1.07E+02	4.44E-01	3.32E+02
Kr-87	2.46E+01	3.56E+00	3.02E-04	2.82E+01
Kr-88	9.44E+01	2.61E+01	1.80E-02	1.21E+02
Xe-131m	1.02E+02	4.82E+01	1.96E-01	1.50E+02
Xe-133m	1.26E+02	5.83E+01	2.19E-01	1.85E+02
Xe-133	9.37E+03	4.41E+03	1.75E+01	1.38E+04
Xe-135m	3.61E+00	5.78E-03	0.00E+00	3.62E+00
Xe-135	2.51E+02	1.00E+02	2.35E-01	3.51E+02
Xe-138	4.78E+00	4.99E-03	0.00E+00	4.78E+00
I-130	7.30E-02	1.19E-02	3.13E-02	1.16E-01
I-131	4.90E+00	1.15E+00	3.55E+00	9.60E+00
I-132	5.79E+00	1.75E-01	2.30E-01	6.20E+00
I-133	8.79E+00	1.68E+00	4.73E+00	1.52E+01
I-134	1.12E+00	1.18E-03	5.21E-04	1.12E+00
I-135	5.15E+00	6.01E-01	1.36E+00	7.11E+00
Cs-134	1.65E+00	6.35E-02	2.27E-01	1.94E+00
Cs-136	2.45E+00	9.30E-02	3.30E-01	2.87E+00
Cs-137	1.19E+00	4.58E-02	1.64E-01	1.40E+00
Cs-138	5.71E-01	3.07E-06	6.00E-07	5.71E-01
Total	1.03E+04	4.78E+03	2.93E+01	1.51E+04

**Table B-10: Failure of Small Lines Carrying Primary Coolant Outside Containment
(BWR and PWR)**
Isotopic time-dependent fission product release rates to the environment (values in Ci)

ESP

Ref: North Anna Nuclear, LLC Site Safety Analysis Report, Rev. 9, Table 15.4-12a
 Activity Releases for ESBWR Failure of Small Lines Carrying Primary Coolant Outside
 Containment

Isotope	0-2 hr	2-8 hr	Total
I-131	6.13E+00	1.05E+01	1.66E+01
I-132	8.03E+00	7.35E+00	1.54E+01
I-133	1.51E+01	2.35E+01	3.86E+01
I-134	8.78E+00	4.60E+00	1.34E+01
I-135	1.39E+01	1.85E+01	3.24E+01
Total	5.19E+01	6.45E+01	1.16E+02

Table B-11: Large-Break Loss-of-Coolant Accident (PWR)
Isotopic time-dependent fission product release rates to the environment (values in Ci)

ESP

Ref: North Anna Nuclear, LLC Site Safety Analysis Report, Rev. 9, Table 15.4-20
 Activity Releases for AP1000 Loss-of-Coolant Accident

Isotope	0-2 hr	2-8 hr	8-24 hr	24-96 hr	96-720 hr	Total
Kr-85m	6.31E+02	3.14E+03	1.87E+03	1.71E+02	2.43E-03	5.82E+03
Kr-85	3.22E+01	2.64E+02	7.05E+02	3.17E+03	2.70E+04	3.12E+04
Kr-87	6.87E+02	1.26E+03	4.97E+01	8.11E-03	0.00E+00	1.99E+03
Kr-88	1.50E+03	5.76E+03	1.70E+03	3.49E+01	8.16E-07	8.99E+03
Xe-131m	3.20E+01	2.62E+02	6.79E+02	2.74E+03	1.11E+04	1.48E+04
Xe-133m	1.74E+02	1.37E+03	3.15E+03	8.21E+03	5.15E+03	1.80E+04
Xe-133	5.71E+03	4.62E+04	1.16E+05	4.11E+05	8.10E+05	1.39E+06
Xe-135m	3.33E+01	2.62E+00	2.14E-07	0.00E+00	0.00E+00	3.59E+01
Xe-135	1.31E+03	8.33E+03	1.01E+04	4.21E+03	1.73E+01	2.40E+04
Xe-138	1.14E+02	6.83E+00	1.58E-07	0.00E+00	0.00E+00	1.20E+02
I-130	3.22E+01	4.58E+01	2.96E+00	1.11E+00	1.99E-02	8.21E+01
I-131	9.13E+02	1.45E+03	1.56E+02	3.74E+02	1.12E+03	4.01E+03
I-132	8.77E+02	7.93E+02	7.64E+00	2.29E-02	0.00E+00	1.68E+03
I-133	1.81E+03	2.70E+03	2.16E+02	1.63E+02	1.62E+01	4.91E+03
I-134	7.16E+02	3.04E+02	1.26E-01	1.07E-07	0.00E+00	1.02E+03
I-135	1.53E+03	1.97E+03	8.31E+01	9.55E+00	4.95E-03	3.59E+03
Cs-134	1.46E+02	2.16E+02	8.06E+00	1.88E-01	1.59E+00	3.72E+02
Cs-136	4.15E+01	6.13E+01	2.25E+00	4.72E-02	2.03E-01	1.05E+02
Cs-137	8.50E+01	1.26E+02	4.70E+00	1.10E-01	9.39E-01	2.17E+02
Cs-138	2.67E+02	5.25E+01	6.92E-04	0.00E+00	0.00E+00	3.19E+02
Rb-86	1.72E+00	2.54E+00	9.37E-02	2.03E-03	1.05E-02	4.37E+00
Sb-127	1.10E+01	2.01E+01	7.13E-01	1.16E-02	1.60E-02	3.18E+01
Sb-129	2.63E+01	3.65E+01	4.83E-01	1.01E-04	1.00E-09	6.33E+01
Te-127m	1.42E+00	2.64E+00	9.83E-02	2.27E-03	1.77E-02	4.18E+00
Te-127	9.83E+00	1.59E+01	3.65E-01	5.63E-04	2.72E-06	2.61E+01
Te-129m	4.85E+00	9.00E+00	3.33E-01	7.47E-03	4.79E-02	1.42E+01
Te-129	1.35E+01	9.71E+00	8.54E-03	7.27E-10	0.00E+00	2.32E+01
Te-131m	1.46E+01	2.60E+01	8.29E-01	6.86E-03	1.60E-03	4.14E+01
Te-132	1.46E+02	2.68E+02	9.42E+00	1.44E-01	1.60E-01	4.24E+02
Sr-89	4.16E+01	7.74E+01	2.87E+00	6.54E-02	4.60E-01	1.22E+02
Sr-90	3.59E+00	6.68E+00	2.48E-01	5.82E-03	4.97E-02	1.06E+01
Sr-91	4.64E+01	7.52E+01	1.74E+00	2.76E-03	1.44E-05	1.23E+02
Sr-92	3.80E+01	4.50E+01	3.26E-01	1.06E-05	0.00E+00	8.33E+01

Table B-11: Large-Break Loss-of-Coolant Accident (PWR) Isotopic time-dependent fission product release rates to the environment (values in Ci) (cont.)

ESP

Ref: North Anna Nuclear, LLC Site Safety Analysis Report, Rev. 9, Table 15.4-20
Activity Releases for AP1000 Loss-of-Coolant Accident

Isotope	0-2 hr	2-8 hr	8-24 hr	24-96 hr	96-720 hr	Total
Ba-139	3.64E+01	2.98E+01	4.73E-02	2.03E-08	0.00E+00	6.63E+01
Ba-140	7.35E+01	1.36E+02	5.00E+00	1.05E-01	4.41E-01	2.15E+02
Mo-99	9.77E+00	1.78E+01	6.19E-01	8.79E-03	7.72E-03	2.82E+01
Tc-99m	7.30E+00	1.10E+01	1.94E-01	1.08E-04	2.73E-08	1.85E+01
Ru-103	7.82E+00	1.45E+01	5.38E-01	1.21E-02	8.11E-02	2.30E+01
Ru-105	4.19E+00	5.87E+00	7.97E-02	1.82E-05	2.40E-10	1.01E+01
Ru-106	2.57E+00	4.79E+00	1.78E-01	4.16E-03	3.46E-02	7.58E+00
Rh-105	4.71E+00	8.45E+00	2.76E-01	2.64E-03	8.48E-04	1.34E+01
Ce-141	1.76E+00	3.26E+00	1.21E-01	2.71E-03	1.72E-02	5.16E+00
Ce-143	1.59E+00	2.84E+00	9.20E-02	8.29E-04	2.34E-04	4.51E+00
Ce-144	1.32E+00	2.47E+00	9.19E-02	2.14E-03	1.77E-02	3.91E+00
Pu-238	4.13E-03	7.70E-03	2.86E-04	6.71E-06	5.73E-05	1.22E-02
Pu-239	3.63E-04	6.77E-04	2.52E-05	5.90E-07	5.04E-06	1.07E-03
Pu-240	5.34E-04	9.92E-04	3.69E-05	8.65E-07	7.39E-06	1.57E-03
Pu-241	1.19E-01	2.23E-01	8.30E-03	1.94E-04	1.66E-03	3.52E-01
Np-239	2.04E+01	3.72E+01	1.27E+00	1.67E-02	1.17E-02	5.89E+01
Y-90	3.68E-02	6.70E-02	2.32E-03	3.25E-05	2.75E-05	1.06E-01
Y-91	5.35E-01	9.94E-01	3.69E-02	8.43E-04	6.09E-03	1.57E+00
Y-92	4.18E-01	5.46E-01	5.77E-03	5.86E-07	0.00E+00	9.70E-01
Y-93	5.81E-01	9.48E-01	2.25E-02	4.05E-05	2.91E-07	1.55E+00
Nb-95	7.20E-01	1.34E+00	4.95E-02	1.11E-03	7.23E-03	2.12E+00
Zr-95	7.17E-01	1.33E+00	4.94E-02	1.13E-03	8.29E-03	2.11E+00
Zr-97	6.66E-01	1.15E+00	3.26E-02	1.38E-04	7.58E-06	1.84E+00
La-140	7.66E-01	1.38E+00	4.58E-02	4.84E-04	1.97E-04	2.19E+00
La-141	5.37E-01	7.26E-01	8.69E-03	1.31E-06	0.00E+00	1.27E+00
La-142	3.47E-01	3.06E-01	6.67E-04	6.96E-10	0.00E+00	6.53E-01
Nd-147	2.79E-01	5.16E-01	1.89E-02	3.88E-04	1.49E-03	8.16E-01
Pr-143	6.28E-01	1.16E+00	4.27E-02	9.01E-04	3.95E-03	1.84E+00
Am-241	5.40E-05	1.00E-04	3.74E-06	8.75E-08	7.48E-07	1.59E-04
Cm-242	1.27E-02	2.37E-02	8.81E-04	2.04E-05	1.64E-04	3.75E-02
Cm-244	1.56E-03	2.91E-03	1.08E-04	2.53E-06	2.16E-05	4.61E-03
Total	1.72E+04	7.52E+04	1.35E+05	4.30E+05	8.54E+05	1.51E+06

Table B-12: Large-Break Loss-of-Coolant Accident (BWR)
Isotopic time-dependent fission product release rates to the environment (values in Ci)

ESP
 Ref: North Anna Nuclear, LLC Site Safety Analysis Report, Rev. 9, Table 15.4-23a
 Activity Releases for ESBWR Loss-of-Coolant Accident

Isotope	0-2 hr	2-8 hr	8-24 hr	24-96 hr	96-720 hr	Total
Co-58	2.28E-03	2.22E-02	3.89E-02	4.18E-02	2.61E-02	1.31E-01
Co-60	2.19E-03	2.16E-02	3.76E-02	4.10E-02	2.89E-02	1.31E-01
Kr-85	6.59E+00	3.23E+02	2.72E+03	2.08E+04	5.31E+04	7.70E+04
Kr-85m	1.14E+02	3.01E+03	5.21E+03	8.50E+02	0.00E+00	9.19E+03
Kr-87	1.17E+02	8.60E+02	1.08E+02	0.00E+00	0.00E+00	1.09E+03
Kr-88	2.68E+02	5.12E+03	4.30E+03	1.63E+02	0.00E+00	9.85E+03
Rb-86	1.38E-01	1.00E+00	1.72E+00	1.79E+00	8.25E-01	5.48E+00
Sr-89	3.53E+00	3.46E+01	6.01E+01	6.43E+01	3.88E+01	2.01E+02
Sr-90	3.48E-01	3.42E+00	5.98E+00	6.51E+00	4.63E+00	2.09E+01
Sr-91	3.95E+00	3.06E+01	2.63E+01	5.00E+00	0.00E+00	6.58E+01
Sr-92	3.18E+00	1.45E+01	2.88E+00	1.25E-01	0.00E+00	2.06E+01
Y-90	6.34E-03	1.70E-01	9.06E-01	2.51E+00	4.25E+00	7.84E+00
Y-91	4.59E-02	4.70E-01	8.96E-01	1.03E+00	6.38E-01	3.08E+00
Y-92	4.89E-01	1.01E+01	8.31E+00	3.75E-01	0.00E+00	1.93E+01
Y-93	4.94E-02	3.87E-01	3.45E-01	7.25E-02	0.00E+00	8.54E-01
Zr-95	6.39E-02	6.26E-01	1.09E+00	1.18E+00	7.25E-01	3.68E+00
Zr-97	6.16E-02	5.28E-01	6.10E-01	2.25E-01	0.00E+00	1.43E+00
Nb-95	6.43E-02	6.30E-01	1.11E+00	1.20E+00	8.25E-01	3.83E+00
Mo-99	8.30E-01	7.86E+00	1.23E+01	9.88E+00	1.00E+00	3.19E+01
Tc-99m	7.46E-01	7.24E+00	1.19E+01	1.01E+01	8.75E-01	3.09E+01
Ru-103	6.66E-01	6.52E+00	1.13E+01	1.21E+01	6.88E+00	3.75E+01
Ru-105	3.48E-01	2.09E+00	8.88E-01	3.75E-02	0.00E+00	3.36E+00
Ru-106	2.33E-01	2.28E+00	3.99E+00	4.34E+00	3.04E+00	1.39E+01
Rh-105	4.05E-01	3.88E+00	5.85E+00	3.74E+00	1.25E-01	1.40E+01
Sb-127	9.09E-01	8.69E+00	1.40E+01	1.23E+01	1.75E+00	3.76E+01
Sb-129	2.18E+00	1.30E+01	5.25E+00	1.25E-01	0.00E+00	2.05E+01
Te-127	9.29E-01	8.96E+00	1.49E+01	1.39E+01	3.13E+00	4.18E+01
Te-127m	1.22E-01	1.20E+00	2.09E+00	2.29E+00	1.54E+00	7.24E+00
Te-129	2.41E+00	1.62E+01	1.15E+01	6.75E+00	3.50E+00	4.04E+01
Te-129m	4.09E-01	4.02E+00	6.98E+00	7.35E+00	4.13E+00	2.29E+01
Te-131m	1.22E+00	1.11E+01	1.53E+01	8.75E+00	2.50E-01	3.66E+01

Table B-12: Large-Break Loss-of-Coolant Accident (BWR) Isotopic time-dependent fission product release rates to the environment (values in Ci) (cont.)

ESP
 Ref: North Anna Nuclear, LLC Site Safety Analysis Report, Rev. 9, Table 15.4-23a
 Activity Releases for ESBWR Loss-of-Coolant Accident

Isotope	0-2 hr	2-8 hr	8-24 hr	24-96 hr	96-720 hr	Total
Te-132	1.24E+01	1.19E+02	1.88E+02	1.59E+02	1.88E+01	4.96E+02
I-131	6.66E+01	5.13E+02	9.33E+02	1.44E+03	7.00E+02	3.65E+03
I-132	7.88E+01	3.44E+02	2.45E+02	1.89E+02	2.25E+01	8.79E+02
I-133	1.31E+02	9.10E+02	1.22E+03	7.63E+02	1.25E+01	3.04E+03
I-134	4.96E+01	5.10E+01	3.75E-01	0.00E+00	0.00E+00	1.01E+02
I-135	1.11E+02	6.07E+02	4.16E+02	5.38E+01	0.00E+00	1.19E+03
Xe-133	1.08E+03	5.19E+04	4.08E+05	2.51E+06	1.20E+06	4.18E+06
Xe-135	3.68E+02	1.40E+04	5.13E+04	3.80E+04	0.00E+00	1.04E+05
Cs-134	1.16E+01	8.50E+01	1.48E+02	1.63E+02	1.14E+02	5.21E+02
Cs-136	4.03E+00	2.92E+01	5.00E+01	5.05E+01	2.00E+01	1.54E+02
Cs-137	7.54E+00	5.52E+01	9.60E+01	1.05E+02	7.50E+01	3.39E+02
Ba-139	2.96E+00	7.50E+00	3.00E-01	0.00E+00	0.00E+00	1.08E+01
Ba-140	6.26E+00	6.10E+01	1.04E+02	1.06E+02	4.00E+01	3.18E+02
La-140	1.40E-01	4.41E+00	2.37E+01	5.83E+01	4.35E+01	1.30E+02
La-141	4.50E-02	2.56E-01	9.13E-02	2.50E-03	0.00E+00	3.95E-01
La-142	2.84E-02	8.09E-02	4.50E-03	0.00E+00	0.00E+00	1.14E-01
Ce-141	1.49E-01	1.46E+00	2.54E+00	2.69E+00	1.46E+00	8.30E+00
Ce-143	1.35E-01	1.23E+00	1.75E+00	1.05E+00	2.50E-02	4.19E+00
Ce-144	1.21E-01	1.19E+00	2.08E+00	2.26E+00	1.55E+00	7.20E+00
Pr-143	5.46E-02	5.40E-01	9.68E-01	1.06E+00	4.63E-01	3.09E+00
Nd-147	2.38E-02	2.31E-01	3.94E-01	3.95E-01	1.39E-01	1.18E+00
Np-239	1.69E+00	1.59E+01	2.44E+01	1.88E+01	1.38E+00	6.21E+01
Pu-238	2.98E-04	2.93E-03	5.11E-03	5.54E-03	4.00E-03	1.79E-02
Pu-239	3.59E-05	3.53E-04	6.19E-04	6.80E-04	4.75E-04	2.16E-03
Pu-240	4.65E-05	4.56E-04	7.98E-04	8.75E-04	6.13E-04	2.79E-03
Pu-241	1.35E-02	1.33E-01	2.31E-01	2.53E-01	1.78E-01	8.08E-01
Am-241	6.08E-06	5.97E-05	1.06E-04	1.15E-04	9.25E-05	3.79E-04
Cm-242	1.43E-03	1.40E-02	2.44E-02	2.65E-02	1.76E-02	8.39E-02
Cm-244	6.91E-05	6.77E-04	1.19E-03	1.29E-03	9.13E-04	4.14E-03
Total	2.46E+03	7.82E+04	4.76E+05	2.58E+06	1.25E+06	4.39E+06

**Table B-13: Fuel Handling Accidents (PWR and BWR)
Activity released to the environment (values in Ci)**

ESP
Ref: North Anna Nuclear, LLC Site Safety Analysis Report, Rev. 9, Table 15.4-24
Activity Releases for AP1000 Fuel Handling Accident

Isotope	0-2 hr
Kr-85m	2.68E-03
Kr-85	1.10E+03
Xe-131m	5.36E+02
Xe-133m	1.29E+03
Xe-133	6.94E+04
Xe-135m	4.37E-01
Xe-135	1.32E+02
I-130	3.52E-02
I-131	2.90E+02
I-132	1.54E+02
I-133	1.91E+01
I-135	1.36E-02
Total	7.29E+04

**Table B-14: Reactor Cleanup Water Line Break
Activity released to the environment (values in Ci)**

ESP
Ref: North Anna Nuclear, LLC Site Safety Analysis Report, Rev. 9, Table 15.4-30
Activity Releases for ESBWR Cleanup Water Line Break

Isotope	0-2 hr
I-131	3.48E+01
I-132	7.05E+01
I-133	9.28E+01
I-134	1.22E+02
I-135	9.59E+01
Total	4.16E+02

Appendix E: Site Redress Plan

1. Site Redress

This section describes early site permit (ESP) site preparation activities that might occur after the U.S. Nuclear Regulatory Commission (NRC) issues an ESP. This section also describes the site redress plan that would be implemented if those site preparation activities were performed but the ESP then expired before being referenced in a combined license (COL) application.

1.1 Description of Site Preparation Activities

The ~~Dominion Nuclear North Anna, LLC (Dominion)~~ was submitted submitted the site redress plan pursuant to Title 10, Section 52.17(c) of the *Code of Federal Regulations* (10 CFR 52.17(c)) to allow the holders of the ESP ~~Dominion~~ to perform, after being granted the ESP, the site preparation activities for new nuclear units at the ESP site allowed by 10 CFR 50.10(e)(1).

The site preparation activities that ~~Dominion~~ ^{the holders of the ESP for the North Anna ESP Site} may perform include the following:

- preparation of the site for construction of the facility (including such activities as clearing, grading, construction of temporary access roads, and preparation of borrow areas)
- installation of temporary construction support facilities (including items such as warehouse and shop facilities, utilities, concrete mixing plants, docking and unloading facilities, and construction support buildings)
- excavation for facility structures
- construction of service facilities (including items such as roadways, paving, railroad spurs, fencing, exterior utility and lighting systems, switchyard interconnects, and sanitary sewage treatment facilities)
- construction of structures, systems, and components that do not prevent or mitigate the consequences of postulated accidents that could cause undue risk to the health and safety of the public, including but not limited to the following:
 - cooling towers
 - intake and discharge structures
 - circulating water lines
 - fire protection equipment
 - switchyard and onsite interconnections
 - microwave towers

• underground utilities

Before commencing any of these activities after the ESP is granted, ^{the permit holders} Dominion would do the following:

1. Create a record of the existing site conditions within the proposed ESP site by way of photographs, surveys, listings of existing facilities and structures, or other documentation. This record would serve as the baseline for redressing the site if ESP site preparation activities are terminated as a result of project cancellation or expiration of the ESP.
2. Obtain any State and local permits and authorizations necessary to perform the site preparation activities.
3. ~~Obtain the appropriate regulatory approvals of an agreement between Virginia Power and Dominion. This agreement would authorize Dominion to conduct the preconstruction activities subject to Dominion's obligation to perform such site redress as may be required to comply with the site redress plan approved by the NRC.~~
4. ~~Provide to the NRC a guaranty by Dominion Resources, Inc. (DRI) of \$10 million as financial assurance for Dominion's obligation to comply with the site redress plan. Dominion is an indirect, wholly owned subsidiary of DRI. DRI is the largest fully integrated natural gas and electric provider in the United States with over \$37 billion in assets, over \$10 billion in annual revenue, and over \$2 billion in annual operating cash flow.~~

1.2 Site Redress Plan

^{the permit holders'}
This section constitutes Dominion's plan for redress of the North Anna site in the event that activities allowed by 10 CFR 50.10(e)(1) are performed but the ESP then expires before being referenced in an application for a combined license under 10 CFR Part 52, "Early Site Permits; Standard Design Certifications; and Combined Licenses for Nuclear Power Plants," Subpart C, "Combined Licenses." This site redress plan provides reasonable assurance that redress carried out under the plan would achieve an environmentally stable and aesthetically acceptable site condition suitable for whatever nonnuclear use may conform with local zoning laws. The following sections describe the objective of the site redress plan and activities that would be considered to redress the site; a general description of proposed redress activities; and the procedure for NRC notification and final acceptance of the redressed site.

1.2.1 Site Redress Plan Objective and Considerations

The objective of the site redress plan is to ensure that the site, should it not be fully developed for the intended purpose of new nuclear power generation, would be returned to an unattended, environmentally stable, and aesthetically acceptable condition suitable for such nonnuclear use as is consistent with local zoning laws. Site redress activities would be commensurate with the level of site modification created by the proposed site preparation activities. Redress activities would reflect applicable land use and/or zoning requirements of local, State, and Federal agencies. Redress activities would consider the following:

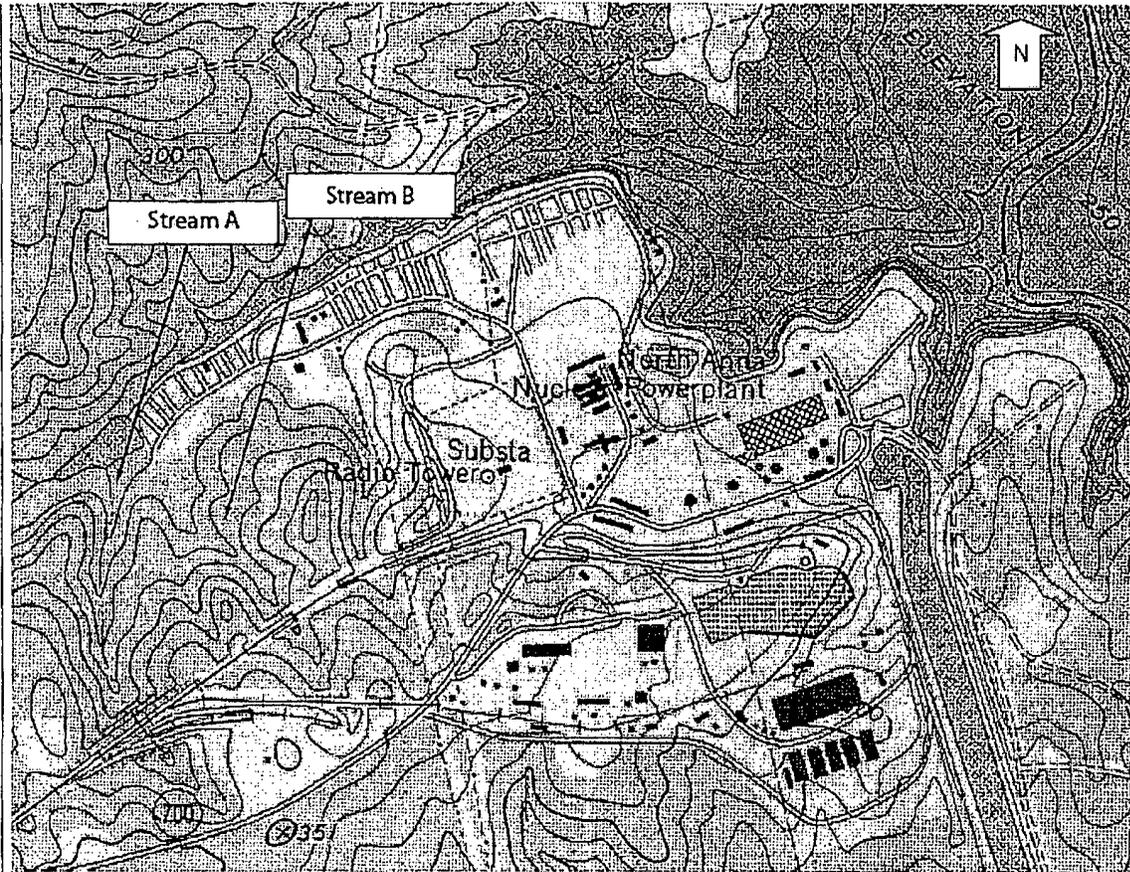


Figure 3 (Revision 9 ER Figure 1.2-1). Ephemeral Stream Locations
 Source: *Lake Anna West, VA, USGS 7.5 Minute Topographic Map, 1983.*

1.2.3 NRC Notification upon Completion

The permit holders ~~Dominion Nuclear North Anna, LLC~~, will notify the NRC upon completion of activities addressed by this site redress plan. The site would be made available for inspection, and any documentation that the NRC may require would be provided to confirm the satisfactory completion of the redress activities.

1.0 Objectives of the Environmental Protection Plan

The purpose of the environmental protection plan (EPP) is to provide for protection of nonradiological environmental resources during any site preparation or preliminary construction activities authorized by Title 10, Section 52.25, "Extent of Activities Permitted," of the *Code of Federal Regulations* (10 CFR 52.25). The principal objective of the EPP is to inform the U.S. Nuclear Regulatory Commission (NRC) of the environmental effects of any site preparation or preliminary construction activities and of actions taken to control those effects.

Environmental concerns identified in the final environmental impact statement (FEIS) that relate to water quality matters will be regulated by way of the permit holder's National Pollutant Discharge Elimination System (NPDES) permit.

2.0 Environmental Protection Issues

North Anna

In the FEIS dated December 2006, the staff considered the environmental impacts associated with the construction of reactors with characteristics that fall within the plant parameter envelope identified in Appendix D of this permit at the Dominion early site permit (ESP) site. The environmental impacts associated with the site preparation or preliminary construction activities authorized by 10 CFR 52.25 and in accordance with this permit will be less than or equal to the impacts assessed in the FEIS.

3.0 Consistency Requirements

3.1 Site Preparation and Preliminary Construction Activities

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The permit holder shall take the necessary mitigating actions identified in Revision 9 of the environmental report of the application and Chapter 4.0 of the FEIS (and summarized in Section 4.10 of the FEIS) to avoid any unnecessary adverse environmental impacts from the site preparation and preliminary construction activities described in the site redress plan.

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The permit holder shall maintain records of all site preparation and preliminary construction activities; these records shall include an assessment of whether the environmental impact of such activities is consistent with that evaluated in the EIS.

3.2 Reporting Related to the NPDES Permit and State Certification

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The permit holder shall provide the NRC with Section 401 certification (a Virginia Water Protection Permit under Virginia's State Water Control Law at Virginia Code Section 62.1-44.15:20 constitutes the certification required under the Federal Water Pollution Control Act Section 401), issued by the Commonwealth of Virginia, within 30 days of approval. The permit holder shall report any changes to the Virginia Water Protection Permit to the NRC within 30 days of the date the change is approved.

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4.0 Environmental Conditions

4.1 Unusual or Important Environmental Events

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The permit holder shall evaluate and report to the NRC Operations Center within 24 hours (followed by a written report in accordance with Subsection 5.4) any occurrence of an unusual or important event that indicates or could result in a significant environmental impact causally related to the site preparation or preliminary construction activities authorized (pursuant to 10 CFR 52.25) under this permit. The following are examples of unusual or important environmental events:

- excessive impacts on birds
- onsite plant or animal disease outbreaks
- mortality or unusual occurrence of any species protected by the Endangered Species Act of 1973
- fish kills
- unusual increase in nuisance organisms or conditions
- unanticipated or emergency discharge of waste water or chemical substances

Routine monitoring programs are not required to implement this condition.

5.0 Administrative Procedures

5.1 Review and Audit

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The permit holder shall provide for review and audit of compliance with the EPP. The audits shall be conducted independently; the individual or groups responsible for performing the specific activity may not conduct the audit. The permit holder shall maintain and make available for inspection a description of the organizational structure utilized to achieve the independent review and audit function and results of the audit activities.

5.2 Records Retention

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The permit holder shall make and retain records associated with this EPP in a manner convenient for review and inspection and shall make them available to the NRC on request.

holders
The permit holder shall retain records of site preparation and preliminary construction activities determined to potentially affect the continued protection of the environment until the date of termination of the permit. If an application for a construction permit (CP) or combined license (COL) references this ESP and the CP or COL is issued, then the permit holder or licensee holders or licensees should retain these records until the date of termination of that permit or license. The permit holder or licensee shall retain all other records relating to this EPP for 5 years or, where applicable, in accordance with the requirements of other agencies.

holders or licensees

5.3 Changes in the Environmental Protection Plan

Requests for changes in the EPP shall include an assessment of the environmental impact of the proposed change and a supporting justification. Implementation of such changes in the EPP shall not commence before the NRC approves the proposed changes in the form of a permit amendment incorporating the appropriate revision to the EPP.

5.4 Reporting Requirements

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The permit holder shall submit a written report to the NRC within 30 days of occurrence of any event described in Section 4.1 of this plan. The report should (1) describe, analyze, and evaluate the event, including the extent and magnitude of the impact and site preparation and preliminary construction activities underway at the time of the event, (2) describe the likely cause of the event, (3) indicate the action taken to correct the reported event, (4) indicate the corrective action taken to preclude repetition of the event and to prevent similar occurrences involving similar site preparation and preliminary construction activities, and (5) indicate the agencies notified and their preliminary responses. For events reportable under this subsection that also require reports to other Federal, State, or local agencies, the permit holder shall report in accordance with those reporting requirements in lieu of the requirements of this subsection. The permit holder shall provide the NRC with a copy of such report at the time it submits the report to the other agency.

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