PMNorthAnna3COLNPEmails Resource

From: Wanda K Marshall [wanda.k.marshall@dom.com]

Sent: Tuesday, July 12, 2011 2:11 PM

To: Dozier, Tamsen

Cc: Tony Banks; Joyce Livingstone

Subject: COL-0853 Dominion Virginia Power, North Anna Power Station Unit 3 Large Component

Transport Route

Attachments: COL-0853 Dominion Virginia Power, NAPS U3 Large Component Transport Route.pdf

Importance: High

Ms. Dozier:

The subject letter is attached for your use. If you have any questions, please call Tony Banks at 804-273-2170.

Wanda X Marshall

Nuclear Project Technical Support (804) 273-3273

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Component Transport Route

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July 7, 2011

COL-0853

Mr. Roger Kirchen, Project Review Archaeologist Virginia Department of Historic Resources Office of Review and Compliance 2801 Kensington Avenue Richmond, VA 23221

JUL - 8 2011
Department of Historic Resources

RE: Dominion Virginia Power, North Anna Power Station Unit 3 **VDHR File No.: 2000-1210** Large Component Transport Route

Dear Mr. Kirchen:

proposed third nuclear unit at the North Anna Power Station in Louisa County, VA. As part of the LCTR, the former ferry landing just east of the Walkerton Bridge was chosen as the the final results of the terrestrial and underwater archaeological surveys of the Large consultant, The Louis Berger Group, Inc. (LBG) are enclosed. preferred off-load location for the large components planned for North Anna Power Station Component Transport Route (LCTR). The LCTR is intended to support construction of a Dominion and Virginia Department of Historic Resources (DHR) representatives regarding This letter and submittal are intended as a follow-up to the May 12, 2011 meeting between Unit 3. Two copies of the technical report on the completed surveys prepared by our

The results of the surveys are summarized below

- in the National Register of Historic Places (National Register). Landing, aka Enfield Plantation), which has been determined to be eligible for listing and expanded the boundaries of previously recorded Site 44KW0081 (Walkerton The terrestrial survey identified three artifact locations along the LCTR, and relocated
- identification of possible submerged cultural features (timbers, rocks, and remains of a small boat) that may have been associated either with the Walkerton Ferry or a wharf at Site 44KW0081. The results of these investigations are included in the above-mentioned report. An underwater survey, consisting of side-scan sonar investigations, resulted in the

Mattaponi River by Dolan Research, Inc (DRI). (VMRC), an evaluation of the possible submerged cultural features was conducted in the Since the May 12th meeting, additional underwater investigations were conducted at the Walkerton location. With a permit secured from the Virginia Marine Resources Commission DRI established a 100-foot baseline using

or Walkerton Ferry. The target previously thought to be a small boat buried in sediment was identified consist solely of rubble that appears to have been associated with the demolition of sonar records. Divers used hydraulic jet probes and a hand-held dredge to expose a 5-foot within the footprint of the proposed cofferdam and dolphin mooring area. concluded that there are no submerged cultural features associated with Site 44KW0081 report HAER mitigated previously through the preparation of Historic American Engineering Record demolition of the Walkerton Bridge by the Virginia Department of Transportation had been above the river bottom. These appear to be pier remnants for the Walkerton Bridge. former bridge footers and associated fender piles that had been cut off generally 1-to-2 feet during the off-loading of large components. The survey confirmed the presence of numerous DHR, DRI also used side-scan sonar to examine an area to be used by mooring dolphins actually identified as a piece of siding made with plywood. Based on recommendations by the Walkerton Bridge (DHR No. 049-0181) and that it is not associated with a historic wharf wide trench along the baseline. DRI determined that the timber and rock remains previously VA-62. Therefore, based on LBG's recommendation, Dominion has

access road near Walkerton Ferry has the potential to impact the terrestrial portion of Site Register eligibility of Site 44KW0081. A copy of the Ground Disturbance Plan is enclosed site or intact near-surface or subsurface cultural deposits that contribute to the National ensure that there will be no ground-disturbing activities that would impact the off-loading Key features of the plan are summarized below: LBG also observed, however, that the intended use of the proposed off-loading site and Dominion concurs and therefore has developed a Ground Disturbance Plan to

- the Joint Permit Application submitted to VMRC in December 2010 to ensure there of the former Walkerton Bridge. Register. It appears that these disturbed sediments are associated with the demolition sediments that do not contribute to the site's eligibility for inclusion on the National are no impacts to Site 44KW0081. Metal sheet piling will be used to frame the The limits of the cofferdam have been decreased from that shown in Addendum III of proposed cofferdam. The proposed sheet piling will be driven into disturbed
- access roads will be required to support the off-loading facility. vehicles, but no vegetation is anticipated to be removed in this area. No additional required along the access road to accommodate the width of the components and prevent impacts to Site 44KW0081. Some tree trimming by hand is anticipated to be The existing access road will also be covered with geo-textile and mats to further to support the off-loading process and no ground disturbing activities are proposed. An existing access road, formerly the road bed for Route 629, is expected to be used
- hand to the ground surface and removed without mechanized clearing or grubbing. Geo-textile is to be installed along the shoreline prior to the placement of riprap to shoreline protection. Any vegetation removal along the shoreline would be cut by Minor clearing of vegetation will be required along the Mattaponi River to install the

the limits of Site 44KW0081 as part of the installation, operation, or removal of the restored to its original state. shoreline protection, and access road protection will be removed and the area will be further protect the site. Following completion of off-loading activities, the cofferdam, off-loading facility. In summary, no ground disturbance is proposed within

implemented through appropriate project specifications and administrative controls Dominion will ensure that the requirements of the Ground Disturbance Plan will be

no effect on historic properties. Dominion requests DHR concurrence with this conclusion. 44KW0081, Dominion has concluded that the development and use of the LCTR will have considering the Ground Disturbance Plan developed to protect cultural deposits at Site As a result of the terrestrial and underwater surveys described in the enclosed report, and

Regulatory Commission (NRC), as appropriate. continue to consult with DHR, the U. S. Army Corps of Engineers, and the U. S. Nuclear Anna 3 project, or if there are changes in the design or progress of the project, Dominion will As Dominion has previously indicated, throughout the federal licensing process for the North

questions. Kim Lanterman at 804-273-3051 or kimberly.q.lanterman@dom.com if you have further communications. Please contact Tony Banks at 804-273-2170 or tony.banks@dom.com or Please note that this letter is being distributed to the NRC to maintain consulting

Very truly yours,

Eugene S. Grecheck

Enclosures:

- 1) Ground Disturbance Plan, 44KW0081), Avoidance and Protection of Terrestrial Cultural Resource Site, Proposed Temporary Large Component Off-Loading Facility Walkerton Landing (Enfield Plantation -
- Terrestrial and Underwater Archaeological Survey of the Component Transport Route, King William, Hanover, and Louisa Counties, Virginia VDHR NO: 2000-1210, June 2011 (Two copies) Proposed Large

T. S. Dozier, NRC (with Enclosure 1 and Enclosure 2 Report Abstract)

Enclosure 1

GROUND DISTURBANCE PLAN

AVOIDANCE AND PROTECTION OF TERRESTRIAL CULTURAL RESOURCE SITE PROPOSED TEMPORARY LARGE COMPONENT OFF-LOADING FACILITY WALKERTON LANDING (ENFIELD PLANTATION - SITE 44KW0081)

illustrated below, no ground disturbance is proposed within Site 44KW0081. management practices, summarized below, will be used to facilitate the off-load of the components. As for the large components planned for the North Anna Power Station Unit 3. The following construction The former ferry landing just east of the Walkerton Bridge was chosen as the preferred off-load location

- wooden pier extending into the Mattaponi River. A cofferdam will be constructed around the existing wetlands at the shoreline, just west of the
- The area inside the cofferdam will then be pumped dry.
- 3. Geo-textile will be placed on top of the existing wetlands.
- 4 Solid fill material will be placed on top of the geo-textile to create the off-load surface
- S Steel plates and or wooden mats will be placed as required for load spreading
- 9 The majority of the cofferdam will be constructed outside of the site boundaries as identified by Louis Berger Group.
- The existing roadway leading to Walkerton Road can be covered with geo-textile and mats if
- 00 prior to receiving the components from the ship. will take the components to the North Anna Power Station Site will be pre-staged on the barge The barge will be fully prepared at a port facility to be determined. The modular transporters that
- 9. landing area on the cofferdam and the barge. When the barge arrives, a small hydraulic crane will place steel ramps and wedges between the
- 10. The transport combination will roll off the barge and onto Walkerton Road for further transport
- 11. No widening of existing roads or paths on the Enfield Plantation site will be required
- Some tree trimming will be required as the transport combination can be as wide as 28 feet.
- Any trees cut along the shoreline will be hand cut to ground surface and removed by hand no mechanical grubbing will take place.
- 4 There is one electrical line coming across the off-load area at the shore line. This line will need to be raised or temporarily removed and appears to service the nearby boathouse and pumps.
- 15. No laydown areas will be required.
- No anticipated ground disturbance outside the limits of the existing road to construct the cofferdam or ramp.
- Due to lack of proposed ground disturbance, buried utilities are not expected to be an issue
- 8. There is no anticipated need for stormwater management basins.
- When off-load activities are complete, all foreign material introduced to the area will be removed from the area to restore it to its original state

Enclosure 2

Terrestrial and Underwater Archaeological Survey
of the
Proposed Large Component Transport Route
King William, Hanover, and Louisa Counties, Virginia
VDHR NO.: 2000-1210
June 2011

LARGE COMPONENT TRANSPORT ROUTE TERRESTRIAL AND UNDERWATER ARCHAEOLOGICAL SURVEY OF THE PROPOSED

King William, Hanover, and Louisa Counties, Virginia

VDHR FILE No.: 2000-1210

Prepared for:

Dominion Resources, Inc. Innsbrook Technical Center 5000 Dominion Boulevard Glen Allen, Virginia 23060 (804) 273-2170

Prepared by:



THE LOUIS BERGER GROUP, INC. 801 E Main Street, Suite 500 Richmond, Virginia 23219-3736 (804) 225-0348

June 2011

ABSTRACT

total acreage covered during the archaeological survey was approximately 4.53 acres (1.83 hectares). of a proposed cofferdam and dolphin mooring area along the south bank of the Mattaponi River. activities are proposed. The APE also includes a submerged impact area associated with the construction the Virginia Department of Historic Resources, includes six areas where substantial ground disturbing the route. The area of potential effects for this archaeological survey, as delineated in consultation with and involve the temporary placement of fill and/or steel plates at sharp corners and narrow passages along includes several roadway modifications along the route. Most of the proposed modifications are minor near the town of Walkerton, and ends at the North Anna Power Station in Louisa County. The project Approximately 66 miles (106 kilometers) in length, the proposed LCTR begins at the Mattaponi River Services, Inc., in preparation for a Joint Permit Application, and as part of an environmental assessment The Louis Berger Group, Inc., Richmond, Virginia, has completed a terrestrial and underwater archaeological survey of the proposed Large Component Transport Route in King William, Hanover, and for a combined license application for Unit 3 at the North Anna Power Station Early Site Permit site. Louisa counties, Virginia. The archaeological survey was performed on behalf of Dominion Resources

small boat was determined to be a piece of siding. Walkerton Bridge (DHR No. 049-0181) and not associated with Walkerton Ferry or a historic wharf. The trench using hydraulic jet probes and a hand-held dredge. These investigations determined that the timber and rock remains previously identified consist solely of rubble associated with the demolition of the evaluation of the possible submerged cultural features was conducted. with the historic component at Site 44KW0081, and a possible small boat. Following the issuance of an underwater excavation permit by the Virginia Marine Resources Commission (Permit No. 11-0753), an features either associated either with the early eighteenth- to early twentieth-century Walkerton Ferry or resulted in the identification of possible submerged cultural features including notched timbers and rock The initial underwater fieldwork consisted of side scan sonar investigations and diving operations, and 05, and AL4381-06) and the relocation and boundary expansion of previously recorded Site 44KW0081 and subsurface testing, and resulted in the identification of three artifact locations (AL4381-04, AL4381terrestrial and underwater investigations. The terrestrial fieldwork consisted of pedestrian surface survey of any such sites for listing in the National Register of Historic Places. any previously unrecorded archaeological sites within the APE; and (3) to evaluate the potential eligibility fieldwork consisted of additional side scan sonar investigations and the excavation of an exploratory 2, 2011, were to (1) to document previously recorded cultural resources within the APE; (2) to identify The objectives of the archaeological survey, conducted on April 19-22, May 3, May 20, and May 31-June The subsequent underwater The survey included both

unexcavated portions of Site 44KW0081 have potential to provide important information regarding the domestic theme from the Middle Archaic through Late Woodland periods, and the domestic, LBG recommends that there are no submerged cultural features associated with Site 44KW0081 within the footprint of the proposed cofferdam and dolphin mooring area. recommends an expansion of the site boundary in accordance with the results of the present investigation LBG concurs with the DHR National Register eligibility recommendation for Site 44KW0081, and 1750) to the Reconstruction and Growth (1865 to 1917) periods in the Upper Coastal Plain of Virginia subsistence/agriculture, and possibly commerce/trade themes from the Settlement to Society (1607 to deposits within the current area of potential effects, and expanded the boundaries of the site. in 1994 to mitigate the adverse effects associated with the Route 629 bridge replacement (Pullins et al. Register by the DHR in 1993, and portions of the site outside the present area of potential effects were excavated Late Woodland periods. Eighteenth- and nineteenth-century historic occupations of the Enfield Plantation (DHR Site 44KW0081 is a multi-component site containing prehistoric occupations spanning the Middle Archaic to No. 050-0023) were identified as well. The site was determined to be eligible for inclusion in the National The present investigations documented stratified and seemingly intact prehistoric and historic