



King William County  
Est. 1702 in Virginia

BOARD OF SUPERVISORS

Sherry L. Graham  
Director of Planning

William L. Hodges, First District  
Travis J. Moskalski, Second District  
Stephen K. Greenwood, Third District  
C. Stewart Garber, Jr., Fourth District  
Edwin H. Moren, Jr., Fifth District

**KING WILLIAM COUNTY  
WETLANDS BOARD  
THURSDAY, MARCH 24, 2022 – 7:00 PM  
BOARD MEETING ROOM  
KING WILLIAM COUNTY ADMINISTRATION BUILDING**

1. CALL TO ORDER
2. ROLL CALL
3. PUBLIC COMMENT PERIOD
4. APPROVAL OF MINUTES
  - a. August 25, 2021, Meeting
5. ORGANIZATION OF WETLANDS BOARD FOR CALENDAR YEAR 2022
  - a. Election of Chairman
  - b. Election of Vice-Chairman
  - c. Election of Secretary
6. PUBLIC HEARING
  - a. JPA # 21-1827 – Dominion Energy
7. ADJOURNMENT



King William County  
Est. 1702

Board of Supervisors

Office of  
Community Development

William L. Hodges, First District  
Travis J. Moskalski, Second District  
Stephen K. Greenwood, Third District  
C. Stewart Garber, Jr., Fourth District  
Edwin H. Moren, Jr., Fifth District

## MEMORANDUM

**TO:** King William County Wetlands Board

**FROM:** Sherry Graham, Director of Planning

**SUBJECT:** Public Hearing for JPA 21-1827

**DATE:** March 24, 2022

### Request

Dominion Energy has applied for a permit for approval to temporarily impact approximately 9,060 square feet of tidal freshwater vegetated wetlands associated with the York River Watershed section of the 230 kv Lanexa-Northern Neck Line #224 Rebuild project. The property is located off of Wakema Road near Gleason Marsh. The tax map parcel is 48-32A

### Proposed Uses

Dominion Energy is requesting approval to temporarily impact wetlands for their Rebuild project as part of an ongoing effort to improve electric reliability throughout the service area. Dominion Energy is proposing between the existing Structure 224/258 and 224/142, to: rebuild 15.3 miles of the existing 230 kV Lanexa-Northern Neck Line #224 and install the new 230 kV Lanexa-Northern Neck Line #2208 on 15.3 miles of new collocated double circuit structures. The primary purpose of the proposed project is to replace aging infrastructure nearing its end of service life. The existing 230 kV structures will generally be replaced with weathering steel monopole structures. Replacement structure foundations will be five feet in diameter, the minimum size necessary to provide structural support. In addition to the structure replacements, the existing conductor and shield wire along the project will be replaced and an additional conductor wire and fiberwire will be installed. The replacement of transmission structures will result in permanent impacts to 220 SF of PEM. Matting will be used within wetlands to minimize impacts to the resource; as such, temporary impacts to 170,073 SF of non-tidal PEM, 9,060 SF of tidal PEM, and 8,502 SF of PSS are expected. Within the Project ROW, there are previously permitted and completed projects at the crossings of the Pamunkey and Mattaponi Rivers and are not included in this permit application (NAO-2018-00662 and VMRC #2018-1495). However, this project does require the permitting of a second, single circuit, Line #2208, resulting in one aerial crossings over the Pamunkey River, a section 10 waterway, and 14 crossings over the adjacent state-owned subaqueous bottom lands. The aerial crossings will be strung on the existing structures using a helicopter to avoid installation of matting within tidal wetlands.

The permanent transmission line will be equal to the minimum vertical clearance of the existing line above MLW. All construction work will be performed within existing, maintained ROW and additional vegetation removal will be limited to danger trees, limbing, and vegetation required to be removed for access to structures. Erosion and sediment controls will be utilized as appropriate throughout the project. All mats will be removed upon completion of the project.

### **Materials/Background**

The applications include the following:

Attachment 1: Applications

Attachment 2: Public Notice

Attachment 3: Letters to owners, adjacent property owners and agencies

Attachment 4: Maps

Attachment 5: Pictures

### **Public Notice**

The county mailed notices to adjacent property owners, applicants, Virginia Institute of Marine Science, State Water Control Board, VDOT, Game and Inland Fisheries, Commissioner of Revenue, and the Board of Supervisors. Legal ads were run in the Tidewater Review on March 9<sup>th</sup> and March 16<sup>th</sup> for the Public Hearing.

### **Recommendation**

Staff recommends approval with the following conditions:

1. The proposed work must meet all requirements of the State and Local agencies.
2. All work must be completed within two (2) years of the approval date, or the permit becomes invalid, and the applicants will need to re-apply.



King William  
County  
Est. 1702



Board of Supervisors

Department of Community Development

William L. Hodges, First District  
Travis J. Moskalski, Second District  
Stephen K. Greenwood, Third District  
C. Stewart Garber, Jr., Fourth District  
Edwin H. Moren, Jr., Fifth District

## KING WILLIAM COUNTY WETLANDS BOARD APPLICATION

NAME OF APPLICANT: Virginia Electric & Power Company (Dominion Energy Virginia)

APPLICANT ADDRESS: 120 Tredegar Street, Richmond, Virginia 231219

PHONE NUMBER(S): (804) 217-1847

NAME OF PROPERTY OWNER: Virginia Electric & Power Company (holder of easement) Everett Upshaw Land Owner

OWNER ADDRESS: 10900 Nuckols Road, 4<sup>th</sup> Floor, Glen Allen VA 23060

PHONE NUMBER(S): (804) 217-1847

NAME OF CONTRACTOR: TBD

CONTRACTOR ADDRESS: TBD

PHONE NUMBER(S): TBD

LOCATION OF PROPOSED PROJECT: Off of Wakema Road near Gleason Marsh.

TAX MAP PARCEL(S): 48-32A                      ZONING DISTRICT: N/A

DETAILED DESCRIPTION OF THE PROPOSED ACTIVITIES: The project includes a rebuild of the existing Lanexa-Northern Neck 230 kV Transmission Line #224 and construction of a new 230 kV Transmission Line #2208 co-located on the same structures as Line #224. The section of the project within this Joint Permit Application includes 15.3 miles from approximately State Route 249 in New Kent County to Mount Zion Road in King and Queen County. Structures crossing the Pamunkey and Mattaponi Rivers were rebuilt in 2019 and 2020 so no tidal wetland impacts will occur with those crossings. A tidal wetland will need to be crossed to access Structure #224/188. This tidal wetland, which lies above mean high water and 1.5 times the mean tidal range, will be crossed with temporary timber matting to provide construction access to the structure. This wetland impact is noted as TU12 and involves the temporary impact to 9,060 square feet of tidal vegetated wetlands.

DESCRIPTION OF THE TYPE OF EQUIPMENT TO BE USED AND THE MEANS OF EQUIPMENT ACCESS TO THE ACTIVITY SITE: Construction access will be provided through the existing ROW, state roads, and maintenance paths. Timber matting will be used in areas where construction equipment will cross wetlands or small streams and will be removed upon completion.

PRIMARY PURPOSE OF THE PROJECT: The primary purpose of the project is to replace aging infrastructure nearing its end of service life. Additionally, a second 230 KV Lanexa-Northern neck transmission line, Line #2208, is needed to resolve a potential violation of PJM Interconnection, LLC (PJM) and Dominion Energy Planning Criteria.

ANY SECONDARY PURPOSES OF THE PROJECT, INCLUDING FURTHER PROJECTS: Like most Dominion Energy projects, the purpose of the project is to maintain structural integrity and reliability of its transmission system and remain in compliance with mandatory north American Electric Reliability Corporation (NERC) Reliability Standards.

ANY PUBLIC BENEFIT TO BE DERIVED FROM THE PROPOSED PROJECT: The public will benefit from improved electric reliability throughout the service area.

COMPLETE DESCRIPTION OF MEASURES TO BE TAKEN DURING AND AFTER THE ALTERATION TO REDUCT DETRIMENTAL OFF-SITE EFFECTS: Land disturbance and vegetation clearing will be minimized during construction. The impacts will be limited to weight displacing timber mats to minimize the impact to the wetland soils. Erosion and sediment control measures will be utilized throughout project completion to limit potential impact to the surrounding area. Following completion, the site will be restored to pre-construction conditions, including re-seeding areas as necessary.

COMPLETION DATE OF THE PROPOSED WORK, PROJECT, OR STRUCTURE: December 31, 2023.

ESTIMATE OF COST: <\$500,000 within the tidal wetlands

LIST THE NAMES AND ADDRESSES OF OWNERS OF RECORD OF ADJACENT LAND AND KNOWN CLAIMANTS OF WATER RIGHTS IN OR ADJACENT TO THE WETLANDS OF WHOM THE APPLICANT HAS NOTICE:

- 1) Keith Nichols, 3797 Wakema Road, West Point, VA 23181
- 2) Everett Upshaw, 3435 Wakema Road, West Point, VA 23181

THIS APPLICATION MUST BE ACCOMPANIED BY A MAP, DRAWN TO AN APPROPRIATE AND UNIFORM SCALE, SHOWING THE AREA OF WETLANDS DIRECTLY AFFECTED, THE LOCATION OF THE PROPOSED WORK THEREON, THE AREA OF EXISTING AND PROPOSED FILL AND EXCAVATION, THE LOCATION, WIDTH, DEPTH AND LENGTH OF ANY PROPOSED CHANNEL AND DISPOSAL AREA, AND THE LOCATION OF ALL EXISTING AND PROPOSED STRUCTURES, SEWAGE COLLECTION AND TREATMENT FACILITIES, UTILITY INSTALLATIONS, ROADWAYS, AND OTHER RELATED APPURTENANCES OR FACILITIES, INCLUDING THOSE ON ADJACENT UPLANDS.

A NON-REFUNDABLE PROCESSING FEE OF \$1,000.00 SHALL ACCOMPANY EACH PERMIT APPLICATION.



Signature of Owner

02/21/2022

Date



Signature of Agent or Contractor

02/22/2022

Date

King William County  
Building & Zoning Department  
180 horse Landing Road #4  
King William, VA 23086

<b>INVOICE #</b>
22-04008

ACCOUNT ID: P5000065 PIN: 057434  
INVOICE DATE: 02/22/22  
DUE DATE: 03/24/22

DOMINION ENERGY VIRGINIA 120 TREDEGAR STREET RICHMOND, VA 23219
---

PERMIT INFORMATION  
PERMIT NO: 22-00079  
LOCATION:  
OWNER: UPSHAW EVERETT PICKETT

QUANTITY/UNIT	SERVICE ID	DESCRIPTION	UNIT PRICE	AMOUNT
		Permit No: 22-00079		
1.0000	WETLAND	WETLAND BOARD Permit No: 22-00079	1,000.000000	1,000.00
			TOTAL DUE:	<u>\$ 1,000.00</u>

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**PAYMENT COUPON - PLEASE DETACH AND RETURN THIS PORTION ALONG WITH YOUR PAYMENT**

King William County  
Building & Zoning Department  
180 horse Landing Road #4  
King William, VA 23086

INVOICE #: 22-04008  
DESCRIPTION: Permit No: 22-00079  
ACCOUNT ID: P5000065 PIN: 057434  
DUE DATE: 03/24/22  
TOTAL DUE: \$ 1,000.00

DOMINION ENERGY VIRGINIA  
120 TREDEGAR STREET  
RICHMOND, VA 23219



**King William County  
Public Hearing Notice**

The Wetlands Board of King William County, Virginia will hold a Public Hearing on Thursday, March 24, 2022, at 7:00 p.m., or as soon thereafter, in the Board Meeting Room of the County Administration Building, 180 Horse Landing Road, King William, Virginia, and via Zoom to receive public comments on the following matter:

**WB-01-22: Owner/Applicant – Dominion Energy**

A request for approval to temporarily impact approximately 9,060 square feet of tidal freshwater vegetated wetlands associated with the York River Watershed section of the 230 kv Lanexa-Northern Neck Line #224 Rebuild project. The property is located off of Wakema Road near Gleason Marsh. The tax map parcel is 48-32A

All interested persons may appear and present their views in person or via Zoom as applicable. Those attending via Zoom must preregister at [kingwilliamcounty.us](http://kingwilliamcounty.us) by noon on the day of the meeting. If a member of the public cannot attend, comments may be submitted by mail to 180 Horse Landing Road, #4, King William, VA 23086; by email to [sgraham@kingwilliamcounty.us](mailto:sgraham@kingwilliamcounty.us) or by calling 804-769-4980. Comments received by 12:00 noon on the day of the hearing will be distributed to Wetlands Board members and made a part of the public record. All records pertaining to this matter may be viewed in the Office of Community Development at 180 Horse Landing Road, King William, VA during regular business hours. Anyone needing assistance or accommodations under the provisions of the American with Disabilities Act should contact the Office of Community Development at (804)769-4978 or [sgraham@kingwilliamcounty.us](mailto:sgraham@kingwilliamcounty.us).

By Authority of  
Sherry L. Graham  
Director of Community Development  
**Ad to run March 9<sup>th</sup> and March 16<sup>th</sup>, 2022**

# THE TIDEWATER REVIEW CLASSIFIEDS

FIND WHAT YOU'RE LOOKING FOR

Please verify the accuracy of your ad the first run day. Call us immediately with any corrections. Our financial responsibility for substantial error is limited to the first insertion.

Classified Advertising **WORKS!** Call 757-253-8126

**Deadline for ads is Monday at NOON!**

**2 VINTAGE LADIES**  
Looking to buy vintage costume jewelry, turquoise, china brooches, old cigarette lighters, old watches, Chinese items, Old Music & Military items & vintage antiques. Please call 757-253-8126

**LEGAL NOTICE**  
**VIRGINIA IN THE CIRCUIT COURT OF THE COUNTY OF NEW KENT**  
**HARRY CLARK, and PATRICIA LYNN CLARK, Petitioners, vs. DR. ANTHONY BEALL PECK, Birth Certificate Registrant No. 248-11-04073 Registered in the Commonwealth of Virginia**

**CASE NO. CA23-13-06 ORDER OF PUBLICATION**  
The object of this suit is for the Petitioners to add the subject child.

IT APPEARING BY Affidavit that the Respondent, HANCY ELIZABETH PECK, may not be a resident of the Commonwealth of Virginia; that Respondent's residence cannot be found after diligent search; that Respondent cannot be served with Court process; and that the last known address of Respondent, HANCY ELIZABETH PECK, was 201 Tam O' Shanter Boulevard, P.O. Box 128, Williamsburg, VA 23185; and that Respondent's present whereabouts are unknown, and it appears to be in the best interest of the Petitioners to appoint an individual to act for the Respondent in without effect; it is ORDERED that the Respondent, HANCY ELIZABETH PECK, appear before the Court on or before April 10, 2022, at 9:00 a.m. and protect her interests herein.

And it is further ORDERED that the above paragraphs be published once (1) a week for four (4) full consecutive weeks in the Tidewater Review, a newspaper of general circulation in the County of James City, Virginia. The Clerk of this Court shall post this Order at the front door of the Courthouse and shall mail a copy of this Order to the Respondent at the last office address given in the Affidavit of the Petitioners filed herein.

Entered on 2/28/22  
**BONNAN ELLIOTT BONDURANT, JUDGE**

**I ASK FOR THIS:**  
Shannon C. Forrest  
Heather Louise Pedersen, Esq. (VSB No. 16060)  
Kyle J. Burchett, Esq. (VSB No. 92130)  
Shannon C. Forrest, Esq. (VSB No. 80916)  
Peterson Law, PLLC  
4208 Cooper Boulevard  
Williamsburg, VA 23188  
Telephone: 757-903-4410  
Facsimile: 757-903-4412  
Counsel for Petitioners  
3/9, 3/16, 3/23, & 3/30/22  
7154420

**MARY & SMALL TERMS**  
has been made large by the right hand of advertising Mark Thom

**General Help Wanted**  
**ASSISTANT DIRECTOR, MATERIALS MANAGEMENT EVMS**  
Assume the responsibility for the day-to-day operations of all major programs and coordinate all activities and initiatives (such as Strategic Sourcing, Supplier Reimbursement, Supplier Incentives, etc.) with underlying policies and procedures, maintain and train staff, and facilitate all material buying and guidance to various customers on strategic related topics. This position requires extensive collaboration with direct reports, business units, and internal and external stakeholders. Strong project management and communication skills are key.

**Qualifications:** Bachelor's Degree, three (3) years of experience in managing supply contracts and project management. Superior experience in procurement, Materials, Degree or Certification (such as CM, CPM, CCP, CCR) is preferred.

Interested applicants must apply through:  
<https://talent.williams.com/careers/4006/assistant-director-02-materials-management>

EVMS is an Equal Opportunity Employer of Minorities, Females, Veterans with Disabilities, Protected Veterans, and Drug and Tobacco-Free Workplace.

**WASTEWATER TREATMENT PLANT OPERATOR III / II**  
New Kent Co. is seeking qualified individuals for Wastewater Treatment Plant Operators III / II for the operation and maintenance of the New Kent Co. wastewater treatment plant. Full-time position with excellent benefits package including generous paid time off, pension, health/dental/vision. All applicants apply at <https://www.newkentva.com/employment/openings.aspx?unitid=4040&unitname=WastewaterTreatmentPlant>

**RESTAURANT STAFF**  
Foster's Sports Bar is now hiring Kitchen Staff, Wait Staff & Bartenders. Must be dependable, motivated & not in any clearance. Apply in person to 4615 Phoenix Pike Road 103 Bldg or call 757-487-6427 to schedule an interview.

**MTU/DAL 2010 GENESIS COUPE**  
2 Dr. Blue Genesis for sale. Photos at [autotrader.com](http://autotrader.com). Located 23180 rtp, SA 995. Please call: 757-637-5143 for more details.

**WANTED CASH FOR CARS**  
Forget the rest! Call the best!!! up to \$1000 cash for the MOST JUNK UNWANTED cars Any condition! Free 24hr removal. Top Dollar Guarantee. Call 757-939-2992



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Let us help sell those unwanted items.

Put an ad in the CLASSIFIEDS  
Call 757-253-8126



**Selling your house?**  
Let us do the work for you.

Call 757-253-8126 to place an ad

Let us help find your lost pup



Call 757-253-8126  
IF IT HAS WHISKERS, IT MOVES FAST in the Classifieds

### KING WILLIAM COUNTY PUBLIC HEARING NOTICE

The Wetlands Board of King William County, Virginia will hold a Public Hearing on Thursday, March 24, 2022, at 7:00 p.m., or as soon thereafter, in the Board Meeting Room of the County Administration Building, 180 Horse Landing Road, King William, Virginia, and via Zoom to receive public comments on the following matter:

**WB-01-22: Owner/Applicant - Dominion Energy**

A request for approval to temporarily impact approximately 9,060 square feet of tidal freshwater vegetated wetlands associated with the York River Watershed section of the 230 kv Lanexa-Northern Neck Line #224 Rebuild project. The property is located off of Wakema Road near Gleason Marsh. The tax map parcel is 48-32A

All interested persons may appear and present their views in person or via Zoom as applicable. Those attending via Zoom must preregister at [kingwilliamcounty.us](http://kingwilliamcounty.us) by noon on the day of the meeting. If a member of the public cannot attend, comments may be submitted by mail to 180 Horse Landing Road, #4, King William, VA 23086; by email to [sgraham@kingwilliamcounty.us](mailto:sgraham@kingwilliamcounty.us) or by calling 804-769-4960. Comments received by 12:00 noon on the day of the hearing will be distributed to Wetlands Board members and made a part of the public record. All records pertaining to this matter may be viewed in the Office of Community Development at 180 Horse Landing Road, King William, VA during regular business hours. Anyone needing assistance or accommodations under the provisions of the American with Disabilities Act should contact the Office of Community Development at (804)769-4978 or [sgraham@kingwilliamcounty.us](mailto:sgraham@kingwilliamcounty.us).

By Authority of  
Sherry L. Graham  
Director of Community Development  
03/09, 03/15/22 7160291

### NOTICE OF PUBLIC HEARING CONCERNING THE INTENTION OF THE BOARD OF SUPERVISORS OF THE COUNTY OF KING WILLIAM, VIRGINIA TO PROPOSE FOR PASSAGE A RESOLUTION AUTHORIZING THE ISSUANCE OF AN ESTIMATED MAXIMUM OF \$7,205,000 PRINCIPAL AMOUNT OF A GENERAL OBLIGATION SCHOOL BOND, SERIES 2022 FOR THE PURPOSE OF FINANCING THE DESIGN, ACQUISITION, CONSTRUCTION, AND EQUIPPING OF PUBLIC SCHOOL FACILITIES

Notice is hereby given to all interested persons of a public hearing concerning the intention of the Board of Supervisors of the County of King William, Virginia (the "County"), to propose for passage at a regular meeting of the Board of Supervisors of the County to be held on Monday, March 28, 2022 at 7:00 p.m. or as soon thereafter as possible, in the Board Meeting Room of the County Administration Building located at 180 Horse Landing Road, King William, Virginia 23086, a resolution authorizing the issuance of an estimated maximum of \$7,205,000 principal amount of a general obligation school bond of the County. The proposed uses for which more than ten percent of the bond proceeds are expected to be used are the financing of school capital projects, including, but not limited to, HVAC projects within district school buildings and other capital improvements to school facilities, and include costs of issuance of the Bond, all of which constitute capital projects for public school purposes. The Bond will be sold to the Virginia Public School Authority.

Persons may appear and present their views at the public hearing. A copy of the proposed resolution is on file and available for inspection in the Office of the County Administrator, County Administration Building, 180 Horse Landing Road #4, King William, Virginia 23086, during regular business hours. Anyone having questions on this matter or needing assistance to attend this meeting should contact the Office of the County Administrator, County Administration Building, 180 Horse Landing Road #4, King William, Virginia 23086, (804) 769-4926.

County Administrator  
County of King William, Virginia  
03/09, 03/16/22

### NOTICE OF PUBLIC HEARING NEW KENT COUNTY BOARD OF SUPERVISORS

Notice is hereby given that the Board of Supervisors of the County of New Kent, Virginia will hold a public hearing, and may or may not take action, on Monday, March 14, 2022 at 7:00 PM or as soon thereafter as possible, in the Boardroom of the New Kent County Administration Building located at 12007 Courthouse Circle, New Kent, Virginia, 23124, on the adoption of the following:

**A RESOLUTION OF THE BOARD OF SUPERVISORS OF THE COUNTY OF NEW KENT, VIRGINIA, AUTHORIZING THE ISSUANCE AND SALE OF UP TO \$9,000,000 PRINCIPAL AMOUNT OF WATER AND SEWER REVENUE BONDS AND PROVIDING FOR THE FORM, DETAILS AND PAYMENT THEREOF**

The purpose and proposed use for which more than ten percent of the proceeds of the Bonds are expected to be used is to finance the acquisition, construction and equipping of public water and wastewater system improvements in the County, including biosolids processing facilities at the Parham Landing Wastewater Treatment Plant plus other system improvements, in the estimated maximum amount of \$9,000,000.

All interested persons may appear and present their views on the adoption of the Resolution at the above time and place. If a member of the public cannot attend, comments may be submitted by mail to P. O. Box 1150, New Kent, VA 23124; by fax to (804) 966-9370; or by email to [bos@newkent-va.us](mailto:bos@newkent-va.us). Comments received by 12:00 noon on the day of the hearing will be distributed to Board members and made a part of the public record. Copies of any proposed resolutions, ordinances, applications and staff reports may be viewed approximately one week prior to the hearings in the Office of the County Administrator at 12007 Courthouse Circle, New Kent, VA 23124, during regular business hours or at <http://www.co.new-kent.va.us>. Anyone needing assistance or accommodation under the provisions of the Americans with Disabilities Act should call the County Administrator's Office at (804) 966-9687.

By authority of  
Rodney A. Hathaway  
Clerk of the Board  
03/02, 03/09/22 7158416

**BARGAIN HUNTER'S TREASURE**  
See our MERCHANDISE CLASSIFIEDS HERE!

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Tidewater Review Classifieds

**Dominion Energy**  
**JPA 21-1827**  
**WB 01-22**  
**Property Located off of Wakema Road**  
**Tax Map Parcel 48-32A**

Everett P. & Joni C. Upshaw  
4716 Custis Millpond Road  
West Point, VA 23181  
Tax Map Parcel 48-33  
3435 Wakema Road  
A-C, 61.92 acres  
Tax Map Parcel 48-32  
A-C, 122.71 acres

Keith M. Nichols  
Jeffrey S. Nichols  
11107 Fox Meadow Drive  
Richmond, VA 23233  
Tax map parcel 48-31  
3797 Wakema Road  
A-C, 107.6 acres

William M. Lipscomb  
23710 King William Road  
West Point, VA 23181  
A-C, 122 acres

Steven & Rhonda Furjes  
3589 Wakema Road  
West Point, VA 23181  
48-3-1  
A-C, 5.08 acres



King William County  
Est. 1702

Board of Supervisors

Office of  
Community Development

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Travis J. Moskalski, Second District  
Stephen K. Greenwood, Third District  
C. Stewart Garber, Jr., Fourth District  
Edwin H. Moren, Jr., Fifth District

March 9, 2022

**RE: Notice to Adjacent Property Owner JPA 21-1827**

Dear Property Owner,

The King William County Wetlands Board will hold a public hearing on Thursday, March 24, 2022, at 7:00 p.m., or as soon thereafter, in the Board Meeting Room and via Zoom to receive comments on the following matter:

Dominion Energy has applied for a permit, JPA 21-1827, and requesting approval to impact approximately 9,060 square feet of tidal freshwater vegetated wetlands associated with the York River Watershed section of the 230 kv Lanexa-Northern Neck Line #224 Rebuild project. The property is located off of Wakema Road near Gleason Marsh. The tax map parcel is 48-32A.

You are being notified of the proposed project because your property is adjacent to, or in close proximity to the above-stated request. All interested persons may appear at the above time and place or via Zoom. Those attending via Zoom **must preregister** at [kingwilliamcounty.us](http://kingwilliamcounty.us) by noon on the day of the meeting. If a member of the public cannot attend, comments may be submitted by mail to the Planning Department, 180 Horse Landing Road, King William, VA 23086; or by email to [sgraham@kingwilliamcounty.us](mailto:sgraham@kingwilliamcounty.us). Comments received by noon on the day of the hearing will be distributed to the Board Members and made a part of the public record. All records pertaining to this public hearing can be viewed in the Planning Department at 180 Horse Landing Road, King William, VA 23086 during regular business hours. Anyone needing assistance or accommodations under the Americans with Disabilities Act should contact the Planning Department at 804-769-4980 or email [sgraham@kingwilliamcounty.us](mailto:sgraham@kingwilliamcounty.us).

Sincerely,

Sherry L. Graham  
Director of Planning



King William County  
Est. 1702

Board of Supervisors

---

Office of  
Community Development

William L. Hodges, First District  
Travis J. Moskalski, Second District  
Stephen K. Greenwood, Third District  
C. Stewart Garber, Jr., Fourth District  
Edwin H. Moren, Jr., Fifth District

March 9, 2022

Mr. Mark Allen  
Virginia Electric and Power Company  
10900 Nuckols Road, 4<sup>th</sup> Floor  
Glen Allen, Virginia 23060

RE: Public Hearing

Dear Mr. Allen,

The King William County Wetlands Board will hold a public hearing on Thursday, March 24, 2022, at 7:00 p.m., or as soon thereafter, in the Board Meeting Room and via Zoom to consider your application JPA 21-1827, to impact approximately 9,060 square feet of tidal freshwater vegetated wetlands associated with the York River Watershed section of the 230 kv Lanexa-Northern Neck Line #224 Rebuild project on the property located off of Wakema Road near Gleason Marsh. The tax map parcel is 48-32A.

Your attendance is strongly encouraged. If you have any questions, please do not hesitate to contact us.

Sincerely,

Sherry L. Graham  
Director of Planning

**From:** [Rachel.M.Studebaker@dominionenergy.com](mailto:Rachel.M.Studebaker@dominionenergy.com)  
**To:** [jpa.Permits@mrc.virginia.gov](mailto:jpa.Permits@mrc.virginia.gov); [Lauren.Pudvah@stantec.com](mailto:Lauren.Pudvah@stantec.com)  
**Cc:** [corey.gray@stantec.com](mailto:corey.gray@stantec.com)  
**Subject:** RE: RE: ISSUE with Line #224 Rebuild and New 230 kV #2208 York River Section JPA Email 1 of 2  
**Date:** Monday, August 30, 2021 9:07:12 AM  
**Attachments:** [image003.png](#)  
[Line 224 York River Phase JPA submittal Part 1.pdf](#)

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Good morning,

Apologies again for the issues. I have split the document into two parts. I have attached Part 1 to this email and will be sending Part 2 in a separate email.

Hopefully, this will solve the issue. Please let me know if you have any problems receiving.

Thank you,

*Rachel Studebaker*

Environmental Specialist II  
Dominion Energy Services  
120 Tredegar Street, Richmond, VA 23219  
Cell: (804) 217-1847



**From:** [jpa.Permits@mrc.virginia.gov](mailto:jpa.Permits@mrc.virginia.gov) <[jpa.Permits@mrc.virginia.gov](mailto:jpa.Permits@mrc.virginia.gov)>  
**Sent:** Sunday, August 29, 2021 6:57 AM  
**To:** Pudvah, Lauren <[Lauren.Pudvah@stantec.com](mailto:Lauren.Pudvah@stantec.com)>; rr MRC - jpa Permits <[jpa.permits@mrc.virginia.gov](mailto:jpa.permits@mrc.virginia.gov)>  
**Cc:** Rachel M Studebaker (Services - 6) <[Rachel.M.Studebaker@dominionenergy.com](mailto:Rachel.M.Studebaker@dominionenergy.com)>; Gray, Corey <[corey.gray@stantec.com](mailto:corey.gray@stantec.com)>  
**Subject:** [EXTERNAL] RE: ISSUE with Line #224 Rebuild and New 230 kV #2208 York River Section JPA

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**From:** Pudvah, Lauren <[Lauren.Pudvah@stantec.com](mailto:Lauren.Pudvah@stantec.com)>  
**Sent:** Wednesday, August 25, 2021 8:21 AM  
**To:** [jpa.permits@mrc.virginia.gov](mailto:jpa.permits@mrc.virginia.gov)  
**Cc:** Rachel Studebaker ([Rachel.M.Studebaker@dominionenergy.com](mailto:Rachel.M.Studebaker@dominionenergy.com)) <[Rachel.M.Studebaker@dominionenergy.com](mailto:Rachel.M.Studebaker@dominionenergy.com)>; Gray, Corey <[Corey.Gray@stantec.com](mailto:Corey.Gray@stantec.com)>  
**Subject:** ISSUE with Line #224 Rebuild and New 230 kV #2208 York River Section JPA

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## Lauren Pudvah

Regulatory Specialist

Direct: 757 941-2381

[Lauren.Pudvah@stantec.com](mailto:Lauren.Pudvah@stantec.com)

Stantec

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Dominion Energy Services, Inc.  
120 Tredegar Street  
Richmond, Virginia 231219  
DominionEnergy.com



August 19, 2021

Attn: Beth Howell  
Virginia Marine Resources Commission  
Building 96  
380 Fenwick Road  
Fort Monroe, VA 23651  
VIA E-mail: Beth.Howell@mrc.virginia.gov

**Reference: Joint Permit Application for Lanexa-Northern Neck 230 kV Transmission Line #224 Rebuild and New 230 kV Line #2208  
Construction Section: York River Watershed  
New Kent, King William, and King and Queen Counties, Virginia  
Applicant: Virginia Electric & Power Company (Dominion Energy Virginia)**

Dear Ms. Howell:

Dominion Energy Virginia (Dominion) is pleased to submit the enclosed Joint Permit Application (JPA) for the proposed Lanexa-Northern Neck 230 kV Transmission Line #224 Rebuild and New 230 kV Line #2208 Project stretching 41.3 miles from Lanexa Substation, located in New Kent County, Virginia, to Northern Neck Substation, located in Richmond County, Virginia. The Lanexa-Northern Neck 230 kV Transmission Line #224 Rebuild and New 230 kV Line #2208 Project will be permitted in four sections based upon groupings of separate and distinct crossings of waters as noted below.

- James River Watershed
- York River Watershed
- Piankatank River Watershed
- Rappahannock River Watershed

All sections were included in one State Corporation Commission application, but each section contains separate and distinct crossings and can be considered a single and complete linear construction project. Dominion Energy is submitting this JPA for the York River Watershed section, referred to herein as "Project." Separate JPAs for the Piankatank River Watershed and Rappahannock River Watershed will be submitted under separate cover. The James River Watershed was permitted under a NW25 (NAO-2021-01363/VMRC 21-V0926) on July 15, 2021.

The Project requires the addition of a second circuit over the Pamunkey River, a Section 10 waterway, on previously built structures resulting in 15 crossings of state-owned subaqueous bottomlands requiring authorization by the Virginia Marine Resources Commission (VMRC) and the US Army Corps of Engineers (Corps) under Section 10 of the Rivers and Harbors Act of 1899. The replacement of transmission structures will result in permanent impacts to 220 square feet (SF) of non-tidal palustrine emergent wetlands (PEM). Matting will be used for construction access and

Received by VMRC August 30, 2021 /blh

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workspace within wetlands to minimize impacts to the resource; as such, temporary impacts to 170,073 SF of non-tidal PEM, 9,060 SF of tidal PEM, and 8,502 SF of non-tidal palustrine scrub-shrub wetlands (PSS) are expected. Based on the scope of the proposed work, the Project appears to meet the terms and conditions of the Nationwide Permit (NWP) program. The applicant respectfully requests verification from the US Army Corps of Engineers (Corps) that the activities are authorized under the NWP program.

If you have any questions or need any additional information, please contact Rachel Studebaker at (804) 217-1847 or [rachel.m.studebaker@dominionenergy.com](mailto:rachel.m.studebaker@dominionenergy.com). Dominion appreciates your assistance with this project.

Regards,

A handwritten signature in black ink, appearing to read "J-P-E".

Jason P. Ericson  
Director, Environmental Services



July 1, 2021  
File: 203401404

**Attention: Mr. Randy Steffey**  
US Army Corps of Engineers, Norfolk District  
803 Front Street  
Norfolk, VA 23651

**Attention: Ms. Beth Howell**  
Virginia Marine Resources Commission Main Office  
Building 96, 380 Fenwick Road  
Ft. Monroe, VA 23651

**Reference: Joint Permit Application for the Lanexa-Northern Neck 230 kV Transmission Line #224  
Rebuild and New 230 kV Line #2208, Construction Section: York River Watershed**

Dear Mr. Steffey and Ms. Howell,

Stantec Consulting Services Inc. (Stantec) has been retained by Virginia Electric and Power Company, doing business as Dominion Energy Virginia (Dominion Energy) to prepare this Joint Permit Application (JPA, Appendix A) in support of the proposed Lanexa-Northern Neck 230 kV Transmission Line #224 Rebuild and New 230 kV Line #2208 Project stretching 41.3 miles from Lanexa Substation, located in New Kent County, Virginia, to Northern Neck Substation, located in Richmond County, Virginia (Vicinity Map, Appendix B). In order to maintain structural integrity and reliability of its transmission system and in compliance with mandatory North American Electric Reliability Corporation (NERC) Reliability Standards, Dominion Energy is proposing to:

- Rebuild within an existing right-of-way (ROW) or on company-owned property, approximately 38.3 miles of the existing 41.3-mile long 230 kV Lanexa-Northern Neck Line #224, which is nearing its end of life, on new double circuit structures;<sup>1</sup>
- Install approximately 40.5 miles of new 230 kV Lanexa-Northern Neck Line #2208 collocated on double circuit structures with Line #224;<sup>2</sup>
- Perform expansion and installation work at the Lanexa and Northern Neck Substations, and minor work at the Dunnsville Substation; and

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<sup>1</sup> The remaining 3.0 miles of Line #224 was a partial rebuild of Line #224 (Partial Rebuild Project - Pamunkey River Crossing and Mattaponi River Crossing projects) which was previously approved by the Corps (Mattaponi, NAO-2018-00656; Pamunkey, NAO-2018-00662) and the VMRC (Mattaponi, VMRC-2018-1496; Pamunkey, VMRC-2018-1495). The Pamunkey River crossing work was completed in December 2019 and the Mattaponi River crossing work was completed in December 2020.

<sup>2</sup> As part of the previously permitted Partial Rebuild Project, 0.8 mile of double circuit line was installed along the Mattaponi River crossing; as such, installation of a second circuit at this portion of the line will not be part of this project.

**Reference:** Joint Permit Application for the Lanexa-Northern Neck 230 kV Transmission Line #224 Rebuild and New 230 kV Line #2208, Construction Section: York River Watershed

- Perform minor transmission-related work on Lines #2016, #2076, #2113, and #2139.

The Lanexa-Northern Neck 230 kV Transmission Line #224 Rebuild and New 230 kV Line #2208 Project will be permitted in four sections based upon groupings of separate and distant crossings of waters as noted below.

- James River Watershed
- York River Watershed
- Piankatank River Watershed
- Rappahannock River Watershed

All sections were included in one State Corporation Commission (SCC) application, but each section contains separate and distant crossings and can be considered a single and complete linear construction project. Dominion Energy is submitting this JPA for the York River Watershed section, referred to herein as "Project." A JPA for the James River Watershed was submitted on April 23, 2021. JPAs for the Piankatank River Watershed and Rappahannock River Watershed will be submitted under separate cover.

The Project requires the addition of a second circuit over the Pamunkey River, a Section 10 waterway, on previously built structures resulting in 15 crossings of state-owned subaqueous bottomlands requiring authorization by the Virginia Marine Resources Commission (VMRC) and the US Army Corps of Engineers (Corps) under Section 10 of the Rivers and Harbors Act of 1899. The replacement of transmission structures will result in permanent impacts to 220 square feet (SF) of non-tidal palustrine emergent wetlands (PEM). Matting will be used for construction access and workspace within wetlands to minimize impacts to the resource; as such, temporary impacts to 170,073 SF of non-tidal PEM, 9,060 SF of tidal PEM, and 8,502 SF of non-tidal palustrine scrub-shrub wetlands (PSS) are expected. Based on the scope of the proposed work, the Project appears to meet the terms and conditions of the Nationwide Permit (NWP) program, and the applicant respectfully requests verification from the Corps. Work within tidal wetlands will require authorization from the King William County Wetlands Board. Further Project details are provided below.

### Project Description

As part of an ongoing effort to improve electric reliability through the service area, Dominion Energy is proposing, entirely within existing ROW or on Dominion Energy-owned property between existing Structure 224/258 and 224/142, to: rebuild 15.3 miles of the existing 230 kV Lanexa-Northern Neck Line #224 and install the new 230 kV Lanexa-Northern Neck Line #2208 on 15.3 miles of new collocated double circuit structures. The Project stretches from approximately State Route 249 (New Kent Highway) to Mount Zion Road. Line #224 was constructed in 1969 and has been identified for rebuild based on Dominion Energy's mandatory electric transmission planning criteria. The primary purpose of the proposed Project is to replace aging infrastructure nearing its end of service life. Additionally, a second 230 kV Lanexa-Northern Neck transmission line, Line #2208, is needed to resolve a potential violation of PJM Interconnection, L.L.C.

**Reference:** Joint Permit Application for the Lanexa-Northern Neck 230 kV Transmission Line #224 Rebuild and New 230 kV Line #2208, Construction Section: York River Watershed

(PJM)<sup>3</sup> and Dominion Energy Planning Criteria that involved dropping over 300 megawatts (MW) in the 2022/2023 timeframe based on the 2020 PJM Load Forecast.

The existing ROW is adequate to construct the proposed Project; as such, no new ROW is required. The existing 230 kV structures to be replaced include COR-TEN weathering steel towers, wooden pole, and H-frame structures and will generally be replaced with weathering steel monopole structures. Replacement structure foundations will be five feet in diameter, the minimum size necessary to provide structural support. In addition to the structure replacements, the existing conductor and shield wire along the Project will be replaced and an additional conductor wire and fiberwire will be installed. Replacement structure foundations will result in permanent impacts to approximately 220 SF of non-tidal PEM. Permanent impacts to jurisdictional areas have been avoided to the greatest extent practicable.

Within the Project ROW, there are previously permitted and completed projects at the crossings of the Pamunkey and Mattaponi Rivers. These crossings are not included in this permit application. Work to replace structures 224/223 through 224/227 and a single circuit crossing of the Pamunkey River was previously permitted and completed (NAO-2018-00662 and VMRC #2018-1495). Work to replace structures 224/180 through 224/186 and a double circuit crossing of the Mattaponi River was previously permitted and completed (NAO-2018-00656 and VMRC #2018-1496). Structures at these crossings were replaced with galvanized steel lattice towers. However, this Project does require the permitting of a second, single circuit, Line #2208, aerial crossing of the Pamunkey River and the adjacent wetlands, a Section 10 waterway. This second circuit crossing will require authorization from the Corps and VMRC (Table 1). This crossing will be strung on the existing structures using a helicopter to avoid installation of matting within tidal wetlands. The second circuit will be strung on the opposite arms from the existing circuit, maintaining the minimum vertical clearance above Mean Low Water (MLW) of the existing crossing (Plan & Profile, Appendix B). Royalties for the VMRC jurisdictional crossings are expected to be based on the crossing lengths listed in Table 1.

**Table 1.** Permanent Aerial Crossing of Corps and VMRC Jurisdictional Waterbodies

#	Location	Crossing Type	Crossing Length (MLW-MLW)	Minimum Vertical Clearance above MLW	Number of Circuits
1	224/232 – 224/231	Transmission Line	2 LF	95 Feet	1
2	224/232 – 224/231	Transmission Line	136 LF	77 Feet	1
3	224/232 – 224/231	Transmission Line	2 LF	57 Feet	1
4	224/231- 224/230	Transmission Line	25 LF	92 Feet	1
5	224/231- 224/230	Transmission Line	13 LF	59 Feet	1

<sup>3</sup> Dominion Energy is part of the PJM regional transmission organization, which provides service to a large portion of the eastern U.S. PJM currently is responsible for ensuring the reliability of and coordinating the movement of electricity through all or parts of Virginia, as well as other eastern states.

**Reference:** Joint Permit Application for the Lanexa-Northern Neck 230 kV Transmission Line #224 Rebuild and New 230 kV Line #2208, Construction Section: York River Watershed

#	Location	Crossing Type	Crossing Length (MLW-MLW)	Minimum Vertical Clearance above MLW	Number of Circuits
6	224/231- 224/230	Transmission Line	10 LF	57 Feet	1
7	224/231- 224/230	Transmission Line	46 LF	59 Feet	1
8	224/231- 224/230	Transmission Line	10 LF	69 Feet	1
9	224/230- 224/229	Transmission Line	12 LF	98 Feet	1
10	224/230- 224/229	Transmission Line	20 LF	77 Feet	1
11	224/230- 224/229	Transmission Line	2 LF	73 Feet	1
12	224/230- 224/229	Transmission Line	22 LF	70 Feet	1
13	224/228- 224/229	Transmission Line	2 LF	116 Feet	1
14	224/228- 224/229	Transmission Line	22 LF	108 Feet	1
15	224/228- 224/229	Transmission Line (Pamunkey River)	819 LF	96 Feet	1
				Permanent: 1,144 LF	

All construction work will be performed within existing, maintained ROW and additional vegetation removal will be limited to danger trees, limbing, and vegetation required to be removed for access to structures. Construction access for the line will be provided through the existing ROW, state roads, and existing maintenance paths. Work to replace structures located in wetlands will be required and temporary timber matting will be utilized for construction access to minimize impacts to the resource; as such, temporary impacts to 170,073 SF of non-tidal PEM, 9,060 SF of tidal PEM, and 8,502 SF of non-tidal PSS are expected. Access routes to each structure were chosen to avoid wetlands and WOUS to the greatest extent practicable. Crossings of wetland and WOUS were chosen in areas that would decrease impacts and were feasible for construction access. Mats will be oriented as straight as possible with the minimal footprint required to access and replace the structure. No discharge of fill material will be associated with the temporary matting as matting is not fill and considered to be minimal in impact. All mats will be removed upon completion. As such, the Project will result in no net loss of tidal wetlands and is not expected to require mitigation. Erosion and sediment controls will be utilized as appropriate throughout the Project. Site restoration will consist of restoring the area to pre-construction contours and re-seeding with approved seed mixes as outlined in Dominion Energy's Annual Standards and Specifications.

Reference: Joint Permit Application for the Lanexa-Northern Neck 230 kV Transmission Line #224 Rebuild and New 230 kV Line #2208, Construction Section: York River Watershed

Wetland Delineation

As part of the larger Lanexa-Northern Neck 230 kV Transmission Line #224 Rebuild and New 230 kV Line #2208 Project, Dominion Energy performed multiple delineations of wetlands and other Waters of the U.S. (WOUS) in accordance with the methods outlined in the 1987 Corps of Engineers Wetlands Delineation Manual and methods described in the 2010 Regional Supplement to the Corps of Engineer Wetlands Delineation Manual: Atlantic and Gulf Coastal Plain Region (Version 2.0). Two sections of the Project were previously delineated and received valid Preliminary Jurisdictional Determination (PJD, Table 2). Additionally, a delineation for the remainder of the Lanexa-Northern Neck 230 kV Transmission Line #224 Rebuild and New 230 kV Line #2208 Project was submitted as part of a request for the entire line. The limits of wetlands and other WOUS for the Project ROW are shown on the attached Jurisdictional Area Impacts Map (Appendix B) and Table 3. Dominion Energy is conducting a delineation for potential access routes and will submit a PJD request to the Corps under separate cover.

**Table 2.** Previous Jurisdictional Determinations within the project area.

Project Name	Corps Project Number
Line #224 Partial Rebuild Project- Pamunkey Rebuild	NAO-2018-00662
Line #224 Partial Rebuild Project- Mattaponi Rebuild	NAO-2018-00656

**Table 3.** Wetlands and WOUS calculations within the 15.32-mile Project area.

Wetlands					
Estuarine Intertidal Emergent Wetlands (E2EM)	Palustrine Forested (PFO)	Palustrine Scrub-Shrub (PSS)	Palustrine Emergent (PEM)	Palustrine Emergent Tidal Wetlands (PEM Tidal)	Estuarine Subtidal Unconsolidated Bottom (E1UB)
11.02 acres ±	0.27 acre ±	6.29 acres ±	30.88 acres ±	0.57 acre ±	4.15 acres ± (6,572 LF)
Streams					
Lower Perennial Stream Channels (R2)	Upper Perennial Stream Channels (R3)	Intermittent Stream Channels (R4)	Ephemeral Stream Channels (R6)	Open Waters	Jurisdictional Ditches
0.12 acre ± (1,124 LF)	0.14 acre ± (1,749 LF)	0.20 acre ± (3,484 LF)	0.004 acre ± (83 LF)	0.78 acre ±	0.05 acre ± (411 LF)

Note: LF denotes linear feet.

Reference: Joint Permit Application for the Lanexa-Northern Neck 230 kV Transmission Line #224 Rebuild and New 230 kV Line #2208, Construction Section: York River Watershed

Threatened and Endangered Species

The U.S. Fish and Wildlife Service (USFWS) Virginia Ecological Services online project review process was used to evaluate potential effects to federal and state listed threatened and endangered species from the proposed Project. The review process searched the following databases:

- USFWS Information for Planning and Consultation System (IPaC) for listed species within the Project action area,
- Virginia Department of Wildlife Resources (DWR) Virginia Fish and Wildlife Information Service (VAFWIS) for listed species within a 2-mile radius of the Project,
- Virginia Department of Conservation and Recreation (DCR) Natural Heritage Data Explorer (NHDE) for listed species within the Project sub-watershed, and
- Center for Conservation Biology (CCB) Eagle and Colonial Waterbird Nest Locators were searched for known bald eagle (*Haliaeetus leucocephalus*) and Colonial waterbird occurrences.

Table 4 lists the federal and state threatened and endangered species potentially occurring within the Project area. As part of the SCC process, DWR and DCR provided comments regarding threatened and endangered species related to the Lanexa-Northern Neck 230 kV Transmission Line #224 Rebuild and New 230 kV Line #2208 project (Appendix C). This prior coordination with DCR is expected to satisfy any required permit condition concerning Coastal Zone Management Act consistency. Additionally, DCR reviewed its Biotics Data System and provided information on occurrences of natural heritage resources within the larger project area.

In summary, work will generally be limited to existing cleared ROW and company-owned property. Dominion Energy plans to limit tree removal to danger trees and those necessary for construction access. Even though there are no known hibernacula or maternal roost trees in the Project vicinity, Dominion Energy proposes to conduct tree removal outside of the northern long-eared bat pup season (June 1 – July 31). Aerial crossings of the Mattaponi and Pamunkey Rivers, known anadromous fish use waterways will not require any instream work. Furthermore, no in-stream work will occur within any waterbodies as any streams will be spanned by mats or temporary bridges. During construction, strict erosion and sediment controls will be implemented to protect downstream waters. Based upon the nature of the proposed work and habitat within the Project area, it is expected that the Project is not likely to adversely affect any threatened or endangered species. Supporting material is found in Appendix C.

**Table 4.** Listed Species Potentially Present within the Project Area.

Species	Status	Source	Results
Northern long-eared bat ( <i>Myotis septentrionalis</i> )	FT, ST	USFW-IPaC, DWR NLEB Winter Habitat and Roost Tree Map	Potentially occurring in the Project vicinity. No known hibernacula or maternity roost trees in Project vicinity.
Sensitive joint-vech ( <i>Aeschynomene virginica</i> )	FT, ST	USFW-IPaC, DCR NHD	Potentially occurring in the Project vicinity. However, no work is proposed within tidal wetlands that would contain appropriate habitat.

Reference: Joint Permit Application for the Lanexa-Northern Neck 230 kV Transmission Line #224 Rebuild and New 230 kV Line #2208, Construction Section: York River Watershed

Species	Status	Source	Results
Small whorled pogonia ( <i>Isotria medeoloides</i> )	FT, SE	USFW-IPaC	Potentially occurring in the Project vicinity.
Atlantic sturgeon ( <i>Acipenser oxyrinchus</i> )	FE, SE	DWR-VaFWIS	Potentially occurring near the Project.
Henslow's sparrow ( <i>Centronyx henslowii</i> )	ST	DWR-VaFWIS	Potentially occurring near the Project.
Colonial waterbird	MBTA	DWR-VaFWIS, CCB	Potentially occurring near the Project. Known water bird colonies are within the Project area at the Pamunkey crossing. However, in the vicinity of these colonies, no structures are to be replaced. The crossing of the Pamunkey River is the addition of a second circuit only. Dominion Energy is proposing surveys and will coordinated with DWR.
Bald eagle ( <i>Haliaeetus leucocephalus</i> )	BGEPA	CCB	No bald eagle concentration areas are present within the Project area. One known bald eagle nest, last occupied in 2011, is 279 feet from the Project centerline.

FT: federally threatened; FE: federally endangered; FSOC: federal species of concern; ST: state threatened; SE: state endangered; MBTA: Migratory Bird Treaty Act of 1918; BGEPA: Bald and Golden Eagle Protection Act.

Known bald eagle nest NK801 is located approximately 280 feet from the Project centerline, 540 feet from Structure 224/249, and 510 feet from Structure 224/250. USFWS guidelines recommend all clearing, external construction, and landscaping activities within 660-feet of an active nest to occur only outside the nesting season. Additionally, standard National Bald Eagle Guidelines recommend maintaining a 330-foot vegetated buffer and a time-of-year restriction (TOYR) on construction within 660-feet of a nest during the breeding season, which occurs between December 15 and July 15 in Virginia. Dominion Energy will conduct any construction within 660 feet of any active bald eagle nest outside the TOYR. As such, no adverse impacts to bald eagles are expected.

Cultural and Historic Resources

In October 2020, Stantec completed a Stage I Pre-Application Analysis to identify known historic properties that may be affected by the Lanexa – Northern Neck 230 kV Transmission Line #224 Rebuild and New 230 kV Line #2208 project. The Executive Summary and maps of the permit area from the Stage I are provided in Appendix D. The scope of the analysis included potential effects from all aspects of the project rather than limited to those activities that would be within the Corps jurisdiction. Simulations of the proposed project were prepared from observation points within historic resources. These simulations are provided in Appendix D. The results of the visual effects evaluation concluded that the project would have no visual impact to Immanuel Chapel (VDHR #049-0064), minimal impact to the King and Queen County Court House (VDHR #049-0036), minimal impact to the Mantapike Hill/Walkerton Battlefield (VDHR #049-5007), and moderate impact to the King and Queen County Courthouse Green Historic District (VDHR #049-5001). These recommendations were concurred upon by the Virginia Department of Historic Resources

**Reference:** Joint Permit Application for the Lanexa-Northern Neck 230 kV Transmission Line #224 Rebuild and New 230 kV Line #2208, Construction Section: York River Watershed

(DHR) in correspondence dated December 1, 2020 and mitigation was warranted for the moderate impacts to the King and Queen County Courthouse Green Historic District. (Appendix D).

Stantec anticipates that the Corps will define the Area of Potential Effect (APE) for physical effects as the locations of the permanent impacts and visual effects within 0.5 mile of permanent impacts. Table 5 provides the architectural resources within 0.5 mile of the anticipated Corps APE for the York River Watershed construction section. Line of sight simulations were prepared to understand visibility of historic resources near the anticipated Corps APE at PU 10 and 11 (Appendix B, Figure 3). Structures within the anticipated Corps APE are not anticipated to be visible from these historic resources. The addition of a second circuit at the crossing of the Pamunkey River was found to be a minor impact with no adverse effects to both Windsor Shades/ Ruffin's Ferry and Sweet Hall. DHR concurred with the determination. As such, the Project is not anticipated to have an adverse impact to historic resources.

**Table 5.** All NRHP Listed and Eligible for Listing Architectural Resources within 0.5-mile of Wetland Impacts from Transmission Structures

<b>DHR ID #</b>	<b>Resource Name</b>	<b>DHR Status</b>	<b>Impacts Within 0.5 mile of Resource</b>
050-0070	Windsor Shades/ Ruffin's Ferry	NRHP Listing, VLR Listing	Pamunkey River Crossing
050-0067	Sweet Hall, Route 634	NRHP Listing, VLR Listing	Pamunkey River Crossing
049-0035	Immanuel Chapel, 190 Allens Circle	Eligible	PU 10 & 11
049-0036	King and Queen County Court House, Court House Landing Road	Eligible	PU 10 & 11
049-5001	King and Queen County Courthouse Green Historic District	NRHP Listing, VLR Listing	PU 10 & 11
049-5007	Mantapike Hill/ Walkerton Battlefield	DHR Staff: Potentially Eligible	PU 10 & 11

Stantec is currently completing a Phase I archaeological and architectural survey for the York River Watershed Section of the transmission line per the recommendations of the Department of Historic Resources under the SCC process. Stantec can forward the results of the Phase I survey to the Corps upon completion and request.

**Reference:** Joint Permit Application for the Lanexa-Northern Neck 230 kV Transmission Line #224 Rebuild and New 230 kV Line #2208,  
Construction Section: York River Watershed

100-year FEMA Floodplain

The Federal Emergency Management Agency (FEMA) Flood Insurance Rate Maps for New Kent, King William, and King and Queen Counties (Appendix B) were reviewed and portions of the Project area are located within the 100-year floodplain. However, the majority of the Project is located in Zone X, the area of minimal flood hazard. No adverse effect to the floodplain is expected as the Project will not alter the surface elevations or hydrological characteristics of the site.

Conclusion

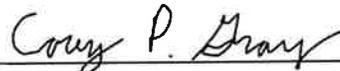
All work will occur within cleared and maintained transmission line ROW and no instream work is proposed. The Project is not expected to adversely affect any threatened or endangered species, nor is the Project expected to adversely affect any historic resources. This portion of the Lanexa-Northern Neck 230 kV Transmission Line #224 Rebuild and New 230 kV Line #2208, York River Watershed Construction Segment, will require one aerial crossing of Pamunkey River and 14 crossings of associated tributaries under the jurisdiction of the Corps and VMRC. Therefore, the Project is expected to meet Virginia Department of Environmental Quality (DEQ) 401 Certification and subsection 3 of 9VAC25-210-60 of the Virginia Code and may not require a Virginia Water Protection Permit from the DEQ. Dominion Energy will coordinate with DWR's Environmental Services Section for state-listed species known within two miles of the Project. As such, Dominion Energy finds the Project consistent with Virginia's Coastal Zone Management Act and applicable polices. The Project will result in permanent impacts to 220 SF of non-tidal PEM. Matting will be used within wetlands to minimize impacts to the resource; as such, temporary impacts to 170,073 SF of non-tidal PEM, 9,060 SF of tidal PEM, and 8,502 SF of non-tidal PSS are expected. Dominion Energy expects that the Project will meet the conditions of the NWP program. In closing, the Dominion Energy respectfully requests verification from the Corps that this Project is authorized under NWP program and from the VMRC to authorize the aerial crossing of State-owned submerged bottomlands.

Regards,

**Stantec Consulting Services Inc.**



**Lauren Pudvah**  
Regulatory Specialist  
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Senior Environmental Scientist  
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Attachment: Appendix A- Joint Permit Application  
Appendix B- Project Graphics  
Appendix C- Threatened and Endangered Species  
Appendix D- Cultural Resources

July 1, 2021

Ms. Beth Howell

Page 10 of 10

**Reference:** **Joint Permit Application for the Lanexa-Northern Neck 230 kV Transmission Line #224 Rebuild and New 230 kV Line #2208,  
Construction Section: York River Watershed**

c. Lane Carr, Dominion Energy

Rachel Studebaker, Dominion Energy

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Design with community in mind

Received by VMRC August 30, 2021 /blh

**APPENDIX A**  
**Joint Permit Application**

**FOR AGENCY USE ONLY**

	Notes:
JPA# 21-1827	

**APPLICANTS**

**PLEASE PRINT OR TYPE ALL ANSWERS.** If a question does not apply to your project, please print N/A (not applicable) in the space provided. ***If additional space is needed, attach extra 8 1/2 x 11 inch sheets of paper.***

<b>Check all that apply</b>			
<input type="checkbox"/> Pre-Construction Notification (PCN)	<input type="checkbox"/> SPGP	<input type="checkbox"/> DEQ Reapplication Existing permit number: _____	<input type="checkbox"/> Receiving federal funds Agency providing funding: _____
<input checked="" type="checkbox"/> NWP # _____			
<input type="checkbox"/> RP # 05 <i>(For NWP's &amp; RP 05 ONLY - No DEQ-VWP permit writer will be assigned)</i>			
<input type="checkbox"/> Regional Permit 17 Checklist (RP-17)			

**PREVIOUS ACTIONS RELATED TO THE PROPOSED WORK (Include all federal, state, and local pre application coordination, site visits, previous permits, or applications whether issued, withdrawn, or denied)**

Historical information for past permit submittals can be found online with VMRC - <https://webapps.mrc.virginia.gov/public/habitat/> - or VIMS - <http://ccrm.vims.edu/perms/newpermits.html>

Agency	Action / Activity	Permit/Project number, including any non-reporting Nationwide permits previously used (e.g., NWP 13)	Date of Action	If denied, give reason for denial
See attached Previous Actions Table.				

**1. APPLICANT, AGENT, PROPERTY OWNER, AND CONTRACTOR INFORMATION**

The applicant(s) is/are the legal entity to which the permit may be issued (see How to Apply at beginning of form). The applicant(s) can either be the property owner(s) or the person/people/company(ies) that intend(s) to undertake the activity. The agent is the person or company that is representing the applicant(s). If a company, please also provide the company name that is registered with the State Corporation Commission (SCC), or indicate no registration with the SCC.

Legal Name(s) of Applicant(s) Virginia Electric and Power Company c/o Mark Allen			Agent (if applicable) Dominion Energy Virginia c/o Rachel Studebaker		
Mailing address 10900 Nuckols Rd, 4th Floor			Mailing address 120 Tredegar Street		
City Glen Allen	State VA	ZIP Code 23060	City Richmond	State VA	ZIP Code 23219
Phone number w/area code (804) 257-4711	Fax n/a		Phone number w/area code (804) 273-4086	Fax n/a	
Mobile n/a	E-mail Mark.Allen@dominionenergy.com		Mobile (804) 217-1847	E-mail rachel.m.studebaker@dominionenergy.com	
State Corporation Commission Name and ID number (if applicable) 00063172			State Corporation Commission Name and ID number (if applicable) 00063172		
<p><b>Certain permits or permit authorizations may be provided via electronic mail. If the applicant wishes to receive their permit via electronic mail, please provide an e-mail address here:</b> <u>Rachel.m.studebaker@dominionenergy.com;</u>  <u>Lane.E.Carr@dominionenergy.com &amp; Corey.Gray@stantec.com</u></p>					

**1. APPLICANT, AGENT, PROPERTY OWNER, AND CONTRACTOR INFORMATION (Continued)**

Property owner(s) legal name, if different from applicant n/a			Contractor, if known n/a		
Mailing address			Mailing address		
City	State	ZIP code	City	State	ZIP code
Phone number w/area code	Fax		Phone number w/area code	Fax	
Mobile	E-mail		Mobile	E-mail	
State Corporation Commission Name and ID number (if applicable)			State Corporation Commission Name ID number (if applicable)		

**2. PROJECT LOCATION INFORMATION**

(Attach a copy of a detailed map, such as a USGS topographic map or street map showing the site location and project boundary, so that it may be located for inspection. Include an arrow indicating the north direction. Include the drainage area if the SPGP box is checked on Page 7.)

Street Address (911 address if available) n/a	City/County/ZIP Code New Kent, King William, King and Queen Counties
Subdivision n/a	Lot/Block/Parcel # n/a
Name of water body(ies) within project boundaries and drainage area (acres or square miles). Mill Creek, Bull Swamp, Courthouse Creek < 5 miles; Pamunkey River, Mattaponi River >5 square mile drainage area	
Tributary(ies) to: <u>Mattaponi and Pamunkey Rivers</u> Basin: <u>York River</u> Sub-basin: <u>Mattaponi and Pamunkey Rivers</u> (Example: Basin: <u>James River</u> Sub-basin: <u>Middle James River</u> )	
Special Standards (based on DEQ Water Quality Standards 9VAC25-260 et seq.): <u>Class II, Section 1, a, aa (Mattaponi &amp; Pamunkey)</u>	
Project type (check one) <input type="checkbox"/> Single user (private, non-commercial, residential) <input checked="" type="checkbox"/> Multi-user (community, commercial, industrial, government) <input type="checkbox"/> Surface water withdrawal	
Latitude and longitude at center of project site (decimal degrees): Start: <u>37.502664</u> / - <u>76.923300</u> (Example: 37.33164/-77.68200) Terminus: <u>37.731710</u> - <u>76.848163</u>	
USGS topographic map name: <u>New Kent, King and Queen Court House, Truhart</u>	
8-digit USGS Hydrologic Unit Code (HUC) for your project site (See <a href="http://cfpub.epa.gov/surf/locate/index.cfm">http://cfpub.epa.gov/surf/locate/index.cfm</a> ): <u>02080106, 02080105</u> If known, indicate the 10-digit and 12-digit USGS HUCs (see <a href="http://consapps.dcr.virginia.gov/htdocs/maps/HUExplorer.htm">http://consapps.dcr.virginia.gov/htdocs/maps/HUExplorer.htm</a> ): <u>0208010611, 0208010506</u> <u>020801061102, 020801050603</u>	
Name of your project (Example: <i>Water Creek driveway crossing</i> ) <u>Lanexa-Northern Neck 230 kV Transmission Line #224 Rebuild and New 230 kV Line #2208 Project, Construction Section: York River Watershed</u>	
Is there an access road to the project? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No. If yes, check all that apply: <input checked="" type="checkbox"/> public <input checked="" type="checkbox"/> private <input checked="" type="checkbox"/> improved <input checked="" type="checkbox"/> unimproved	
Total size of the project area (in acres): <u>272.21 acres</u>	

**2. PROJECT LOCATION INFORMATION (Continued)**

Provide driving directions to your site, giving distances from the best and nearest visible landmarks or major intersections:

Northern end of the Project segment- Take US-17 S and turn left onto Wares Bridge Rd (State Rte 602). Continue onto Timber Branch Rd (State Rte 610) for 2.6 miles. Then head straight on Liberty Hall Rd (State Rte 616) for 4.9 miles and the Project segment is on the left.

Southern end of the Project segment- Traveling west on I-64, take exit 277 onto Old Stage Road (VA-30 W) and continue for 6.1 miles and go straight onto New Kent Hwy (VA-249). Continue straight for 3 miles then turn left onto Paige Road (State Rte 626) for about 0.5 miles and the Project segment end will be on the right.

Does your project site cross boundaries of two or more localities (i.e., cities/counties/towns)?  Yes  No

If so, name those localities: New Kent, King William & King and Queen Counties

**3. DESCRIPTION OF THE PROJECT, PROJECT PRIMARY AND SECONDARY PURPOSES, PROJECT NEED, INTENDED USE(S), AND ALTERNATIVES CONSIDERED (Attach additional sheets if necessary)**

- The purpose and need must include any new development or expansion of an existing land use and/or proposed future use of residual land.
- Describe the physical alteration of surface waters, including the use of pilings (#, materials), vibratory hammers, explosives, and hydraulic dredging, when applicable, and whether or not tree clearing will occur (include the area in square feet and time of year).
- Include a description of alternatives considered and measures taken to avoid or minimize impacts to surface waters, including wetlands, to the maximum extent practicable. Include factors such as, but not limited to, alternative construction technologies, alternative project layout and design, alternative locations, local land use regulations, and existing infrastructure
- For utility crossings, include both alternative routes and alternative construction methodologies considered
- For surface water withdrawals, public surface water supply withdrawals, or projects that will alter in stream flows, include the water supply issues that form the basis of the proposed project.

As part of an ongoing effort to improve electric reliability through the service area, Dominion Energy is proposing between the existing existing Structure 224/258 and 224/142, to rebuild 15.3 miles of the existing 230 kV Lanexa-Northern Neck Line #224 and install the new 230 kV Lanexa-Northern Neck Line #2208 on 15.3 miles of new collocated double circuit structures. The primary purpose of the proposed Project is to replace aging infrastructure nearing its end of service life. The existing 230 kV structures will generally be replaced with weathering steel monopole structures. Replacement structure foundations will be five feet in diameter, the minimum size necessary to provide structural support. In addition to the structure replacements, the existing conductor and shield wire along the Project will be replaced and an additional conductor wire and fiberwire will be installed. The replacement of transmission structures will result in permanent impacts to 220 SF of PEM. Matting will be used within wetlands to minimize impacts to the resource: as such, temporary impacts to 170,073 SF of non-tidal PEM, 9,060 SF of tidal PEM, and 8,502 SF of PSS are expected. Within the Project ROW, there are previously permitted and completed projects at the crossings of the Pamunkey and Mattaponi Rivers and are not including in this permit application (NAO-2018-00662 and VMRC #2018-1495). However, this Project does require the permitting of a second, single circuit, Line #2208, resulting in one aerial crossings over the Pamunkey River, a Section 10 waterway, and 14 crossings over the adjacent state-owned subaqueous bottom lands. The aerial crossings will be strung on the existing structures using a helicopter to avoid installation of matting within tidal wetlands. The permanent transmission line will be equal to the minimum vertical clearance of the existing line above MLW. All construction work will be performed within existing, maintained ROW and additional vegetation removal will be limited to danger trees, limbing, and vegetation required to be removed for access to structures. Erosion and sediment controls will be utilized as appropriate throughout the Project. All mats will be removed upon completion.

Date of proposed commencement of work (MM/DD/YYYY)  
October 1, 2021

Date of proposed completion of work (MM/DD/YYYY)  
December 31, 2022

Are you submitting this application at the direction of any state, local, or federal agency?  Yes  No

Has any work commenced or has any portion of the project for which you are seeking a permit been completed?  
 Yes  No

If you answered "yes" to either question above, give details stating when the work was completed and/or when it commenced, who performed the work, and which agency (if any) directed you to submit this application. In addition, you will need to clearly differentiate between completed work and proposed work on your project drawings.

Are you aware of any unresolved violations of environmental law or litigation involving the property?  Yes  No  
(If yes, please explain)

#### 4. PROJECT COSTS

Approximate cost of the entire project, including materials and labor: \$ >500,000  
Approximate cost of only the portion of the project affecting state waters (channelward of mean low water in tidal areas and below ordinary high water mark in nontidal areas): \$ <50,000

#### 5. PUBLIC NOTIFICATION (Attach additional sheets if necessary)

Complete information for all property owners adjacent to the project site and across the waterway, if the waterway is less than 500 feet in width. If your project is located within a cove, you will need to provide names and mailing addresses for all property owners within the cove. If you own the adjacent lot, provide the requested information for the first adjacent parcel beyond your property line. Per Army Regulation (AR 25-51) outgoing correspondence must be addressed to a person or business.  
**Failure to provide this information may result in a delay in the processing of your application by VMRC.**

Property owner's name	Mailing address	City	State	ZIP code
Please see attached Public Notification table				

Name of newspaper having general circulation in the area of the project: Daily Press- Tidewater Review Country Courier  
Address and phone number (including area code) of newspaper: 425 12th St., West Point, VA 23181 P.O. Box 160, St. Stephens Church, VA 23148  
(804) 843-2282 (804) 769-0259

Have adjacent property owners been notified with forms in Appendix A?  Yes  No (attach copies of distributed forms)

#### 6. THREATENED AND ENDANGERED SPECIES INFORMATION

**See Appendix C**

Please provide any information concerning the potential for your project to impact state and/or federally threatened and endangered species (listed or proposed). Attach correspondence from agencies and/or reference materials that address potential impacts, such as database search results or confirmed waters and wetlands delineation/jurisdictional determination. Include information when applicable regarding the location of the project in Endangered Species Act-designated or -critical habitats. Contact information for the U.S. Fish and Wildlife Service, National Oceanic and Atmospheric Administration, Virginia Dept. of Game and Inland Fisheries, and the Virginia Dept. of Conservation and Recreation-Division of Natural Heritage can be found on page 4 of this package.

#### 7. HISTORIC RESOURCES INFORMATION

**See Appendix D**

*Note: Historic properties include but are not limited to archeological sites, battlefields, Civil War earthworks, graveyards, buildings, bridges, canals, etc. Prospective permittees should be aware that section 110k of the NHPA (16 U.S.C. 470h-2(k)) prevents the USACE from granting a permit or other assistance to an applicant who, with intent to avoid the requirements of Section 106 of the NHPA, has intentionally significantly adversely affected a historic property to which the permit would relate, or having legal power to prevent it, allowed such significant adverse effect to occur, unless the USACE, after consultation with the Advisory Council on Historic Preservation (ACHP), determines that circumstances justify granting such assistance despite the adverse effect created or permitted by the applicant.*

Are any historic properties located within or adjacent to the project site?  Yes  No  Uncertain  
If Yes, please provide a map showing the location of the historic property within or adjacent to the project site.

Are there any buildings or structures 50 years old or older located on the project site?  Yes  No  Uncertain  
If Yes, please provide a map showing the location of these buildings or structures on the project site.

Is your project located within a historic district?  Yes  No  Uncertain

If Yes, please indicate which district: \_\_\_\_\_

**7. HISTORIC RESOURCES INFORMATION (Continued)**

Has a survey to locate archeological sites and/or historic structures been carried out on the property?  
 Yes  No  Uncertain

If Yes, please provide the following information: Date of Survey: October 27, 2020

Name of firm: Stantec Consulting Services, Inc.

Is there a report on file with the Virginia Department of Historic Resources?  Yes  No  Uncertain

Stage I Pre-Application Analysis for the Proposed Dominion Energy Virginia Lanexa to

Title of Cultural Resources Management (CRM) report: Northern Neck 230 kV Transmission Line Full Rebuild Project, New Kent, King William, King and Queen, Essex, and Richmond Counties, Virginia

Was any historic property located?  Yes  No  Uncertain

**8. WETLANDS, WATERS, AND DUNES/BEACHES IMPACT INFORMATION**

Report each impact site in a separate column. If needed, attach additional sheets using a similar table format. Please ensure that the associated project drawings clearly depict the location and footprint of each numbered impact site. For dredging, mining, and excavating projects, use Section 17.

	Impact site number 1	Impact site number 2	Impact site number 3	Impact site number 4	Impact site number 5
Impact description (use all that apply): F=fill EX=excavation S=Structure T=tidal NT=non-tidal TE=temporary PE=permanent PR=perennial IN=intermittent SB=subaqueous bottom DB=dune/beach IS=hydrologically isolated V=vegetated NV=non-vegetated MC=Mechanized Clearing of PFO (Example: F, NT, PE, V)	Please see attached wetlands impacts table				
Latitude / Longitude (in decimal degrees)					
Wetland/waters impact area (square feet / acres)					
Dune/beach impact area (square feet)					
Stream dimensions at impact site (length and average width in linear feet, and area in square feet)					
Volume of fill below Mean High Water or Ordinary High Water (cubic yards)					

**8. WETLANDS/WATERS IMPACT INFORMATION (Continued)**

Cowardin classification of impacted wetland/water or geomorphological classification of stream <i>Example wetland: PFO;</i> <i>Example stream: 'C' channel and if tidal, whether vegetated or non-vegetated wetlands per Section 28.2-1300 of the Code of Virginia</i>					
Average stream flow at site (flow rate under normal rainfall conditions in cubic feet per second) and method of deriving it (gage, estimate, etc.)					
Contributing drainage area in acres or square miles (VMRC cannot complete review without this information)					
DEQ classification of impacted resource(s): Estuarine Class II Non-tidal waters Class III Mountainous zone waters Class IV Stockable trout waters Class V Natural trout waters Class VI Wetlands Class VII <a href="https://law.lis.virginia.gov">https://law.lis.virginia.gov</a>					
<p><b>For DEQ permitting purposes, also submit as part of this section a wetland and waters boundary delineation map – see (3) in the Footnotes section in the form instructions.</b></p>					
<p><b>For DEQ permitting purposes, also submit as part of this section a written disclosure of all wetlands, open water, or streams that are located within the proposed project or compensation areas that are also under a deed restriction, conservation easement, restrictive covenant, or other land-use protective instrument.</b></p>					

**9. APPLICANT, AGENT, PROPERTY OWNER, AND CONTRACTOR CERTIFICATIONS**

**READ ALL OF THE FOLLOWING CAREFULLY BEFORE SIGNING**

**PRIVACY ACT STATEMENT:** The Department of the Army permit program is authorized by Section 10 of the Rivers and Harbors Act of 1899, Section 404 of the Clean Water Act, and Section 103 of the Marine Protection Research and Sanctuaries Act of 1972. These laws require that individuals obtain permits that authorize structures and work in or affecting navigable waters of the United States, the discharge of dredged or fill material into waters of the United States, and the transportation of dredged material for the purpose of dumping it into ocean waters prior to undertaking the activity. Information provided in the Joint Permit Application will be used in the permit review process and is a matter of public record once the application is filed. Disclosure of the requested information is voluntary, but it may not be possible to evaluate the permit application or to issue a permit if the information requested is not provided.

**CERTIFICATION:** I am hereby applying for permits typically issued by the DEQ, VMRC, USACE, and/or Local Wetlands Boards for the activities I have described herein. I agree to allow the duly authorized representatives of any regulatory or advisory agency to enter upon the premises of the project site at reasonable times to inspect and photograph site conditions, both in reviewing a proposal to issue a permit and after permit issuance to determine compliance with the permit.

In addition, I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

**9. APPLICANT, AGENT, PROPERTY OWNER, AND CONTRACTOR CERTIFICATIONS (Continued)**

Is/Are the Applicant(s) and Owner(s) the same?  Yes  No

Legal name & title of Applicant Virginia Electric and Power Company	Second applicant's legal name & title, if applicable
Applicant's signature <i>Mark S Allen</i>	Second applicant's signature
Date 08/16/2021	Date
Property owner's legal name, if different from Applicant	Second property owner's legal name, if applicable
Property owner's signature, if different from Applicant	Second property owner's signature
Date	Date

**CERTIFICATION OF AUTHORIZATION TO ALLOW AGENT(S) TO ACT ON APPLICANT'S(S) BEHALF (IF APPLICABLE)**

I (we), Virginia Electric and Power Company c/o Mark Allen (and) \_\_\_\_\_,  
**APPLICANT'S LEGAL NAME(S) – complete the second blank if more than one Applicant**  
Dominion Energy Virginia c/o Rachel Studebaker  
 hereby certify that I (we) have authorized \_\_\_\_\_ (and) \_\_\_\_\_  
**AGENT'S NAME(S) – complete the second blank if more than one Agent**  
 to act on my (our) behalf and take all actions necessary to the processing, issuance, and acceptance of this permit and any and all standard and special conditions attached. I (we) hereby certify that the information submitted in this application is true and accurate to the best of my (our) knowledge.

Applicant's signature <i>Mark S Allen</i>	Second applicant's signature, if applicable
Date 08/16/2021	Date
Agent's signature and title <i>Rachel M Studebaker</i> Environmental Specialist II	Second agent's signature and title, if applicable
Date 8/20/2021	Date

**CONTRACTOR ACKNOWLEDGEMENT (IF APPLICABLE)**

I (we), \_\_\_\_\_ (and) \_\_\_\_\_,  
**APPLICANT'S LEGAL NAME(S) – complete the second blank if more than one Applicant**  
 have contracted \_\_\_\_\_ (and) \_\_\_\_\_  
**CONTRACTOR'S NAME(S) – complete the second blank if more than one Contractor**  
 to perform the work described in this Joint Permit Application, signed and dated \_\_\_\_\_.

I (we) will read and abide by all conditions as set forth in all federal, state, and local permits as required for this project. I (we) understand that failure to follow the conditions of the permits may constitute a violation of applicable federal, state, and local statutes and that we will be liable for any civil and/or criminal penalties imposed by these statutes. In addition, I (we) agree to make available a copy of any permit to any regulatory representative visiting the project site to ensure permit compliance. If I (we) fail to provide the applicable permit upon request, I (we) understand that the representative will have the option of stopping our operation until it has been determined that we have a properly signed and executed permit and are in full compliance with all of the terms and conditions.

Contractor's name or name of firm (printed/typed)	Contractor's or firm's mailing address	
Contractor's signature and title	Contractor's license number	Date
Applicant's signature	Second applicant's signature, if applicable	
Date	Date	

**19. NONTIDAL STREAM CHANNEL MODIFICATIONS FOR RESTORATION OR ENHANCMENT, or TEMPORARY OR PERMANENT RELOCATIONS (Continued)**

Existing average stream flow at site (flow rate under normal rainfall conditions): \_\_\_\_\_ cfs

Proposed average stream flow at site after modifications (flow rate under normal rainfall conditions): \_\_\_\_\_ cfs

Explain, in detail, the method to be used to stabilize the banks:

Explain the composition of the existing stream bed (percent cobble, rock, sand, etc.):

Will low-flow channels be maintained in the modified stream channel? \_\_\_\_ Yes \_\_\_\_ No.

Describe how:

Will any structure(s) be placed in the stream to create riffles, pools, meanders, etc.? \_\_\_\_ Yes \_\_\_\_ No

If yes, please explain:

**20. UTILITY CROSSINGS**

Type of crossing:  overhead \_\_\_\_ trenched \_\_\_\_ directionally-drilled

Method of clearing corridor of vegetation (check all that apply):  mechanized land clearing that disturbs the soil surface  
 cutting vegetation above the soil surface

Describe the materials to be used in the installation of the utility line (including gravel bedding for trenched installations, bentonite slurries used during direction-drilling, etc.) and a sequence of events to detail how the installation will be accomplished (including methods used for in-stream and dry crossings).

Activities include the removal and replacement of existing structures and 230 kV overhead conductor and wires.

Will the proposed utility provide empty conduits for any additional utilities that may propose to co-locate at a later date? \_\_\_\_ Yes  
 No.

For overhead crossings over navigable waterways (including all tidal waterways), please indicate the height of other overhead crossings or bridges over the waterway relative to mean high water, mean low water, or ordinary high water mark:

Aerial transmission line crossing of the Pamunkey River is approximately 96 feet above MLW.

Nominal system voltage, if project involves power lines: 230 \_\_\_\_\_

Total number of electrical circuits: 1 \_\_\_\_\_

**20. UTILITY CROSSINGS (Continued)**

Will there be an excess of excavated material? \_\_\_ Yes  No

If so, describe the method that will be undertaken to dispose of, and transport, the material to its permanent disposal location and give that location:

Will any excess material be stockpiled in wetlands? \_\_\_ Yes  No

If so, will the stockpiled material be placed on filter fabric or some other type of impervious surface? \_\_\_ Yes \_\_\_ No

Will permanent access roads be placed through wetlands/streams? \_\_\_ Yes  No

If yes, will the roads be (check one)  at grade  above grade?

Will the utility line through wetlands/waters be continually maintained (e.g. via mowing or herbicide)?  Yes \_\_\_ No

If maintained, what is the maximum width? 100 feet

**21. ROAD CROSSINGS**

Have you conducted hydraulic studies to verify the adequacy of the culverts? \_\_\_ Yes \_\_\_ No

If so, please attach a copy of the hydraulic study/report.

*Virginia Department of Transportation (VDOT) standards require that the backwater for a 100 year storm not exceed 1 foot for all road, culvert, and bridge projects within FEMA-designated floodplains. Virginia Department of Environmental Quality (DEQ) requires pipes and culverts 24 inches or less in diameter to be countersunk three inches below the natural stream bed elevations, and pipes and culverts greater than 24 inches to be countersunk at least six inches below the natural stream bed elevations. Hydraulic capacity is determined based on the reduced capacity due to the countersunk position.*

Will the culverts be countersunk below the stream bottom? \_\_\_ Yes \_\_\_ No. If no, explain:

If the project entails a bridged crossing and there are similar crossings in the area, what is the vertical distance above mean high water, mean low water, or ordinary high water mark of those similar structures? \_\_\_\_\_ feet above \_\_\_\_\_  
*For all bridges proposed over navigable waterways (including all tidal water bodies), you will be required to contact the U.S. Coast Guard to determine if a permit is required of their agency.*

*On separate sheets of paper, describe the materials to be used, the method of construction (including the use of cofferdams), the sequence of construction events, and if bedrock conditions may be encountered. Include cross-sections and profile plans of the culvert crossings including wing walls or rip rap.*

**22. IMPOUNDMENTS, DAMS, AND STORMWATER MANAGEMENT FACILITIES**

*If the impoundment or dam is a component of a water withdrawal project, also complete Sections 24 through 26.*

Will the proposed impoundment, dam, or stormwater management facility be used for agricultural purposes (e.g., in the operation of a farm)? For DEQ permitting purposes, a farm is considered to be a property or operation that produces goods for market.  
\_\_\_ Yes \_\_\_ No

What type of materials will be used in the construction (earth, concrete, rock, etc.)? \_\_\_\_\_

What is the source of these materials? \_\_\_\_\_

Provide the dimensions of proposed impoundment, dam, or stormwater management facility, including the height and width of all structures.

Storage capacity\* of impoundment: \_\_\_\_\_ acre-feet

\*should be given for the normal pool of recreational or farm ponds, or design pool for stormwater management ponds or reservoirs (the elevation the pond will be at for the design storm, e.g., 10-year, 24-hour storm)

Surface area\*\* of impoundment: \_\_\_\_\_ acres

\*\*should be given for the normal pool of recreational or farm ponds, or design pool for stormwater management ponds or reservoirs (the elevation the pond will be at for the design storm, e.g., 10-year, 24-hour storm)

## APPENDIX C

### Chesapeake Bay Preservation Act Information

Please answer the following questions to determine if your project is subject to the requirements of the Bay Act Regulations:

1. Is your project located within Tidewater Virginia?  Yes  No (See map on page 31) - If the answer is "no", the Bay Act requirements do not apply; if "yes", then please continue to question #2.
2. Please indicate if the project proposes to impact any of the following Resource Protection Area (RPA) features:
  - Tidal wetlands,
  - Nontidal wetlands connected by surface flow and contiguous to tidal wetlands or water bodies with perennial flow,
  - Tidal shores,
  - Other lands considered by the local government to meet the provisions of subsection A of 9VAC25-830-80 and to be necessary to protect the quality of state waters (contact the local government for specific information),
  - A buffer area not less than 100 feet in width located adjacent to and landward of the components listed above, and along both sides of any water body with perennial flow.

If the answer to question #1 was "yes" and any of the features listed under question #2 will be impacted, compliance with the Chesapeake Bay Preservation Area Designation and Management Regulations is required. **The Chesapeake Bay Preservation Area Designation and Management Regulations** are enforced through locally adopted ordinances based on the Chesapeake Bay Preservation Act (CBPA) program. Compliance with state and local CBPA requirements mandates the submission of a **Water Quality Impact Assessment (WQIA)** for the review and approval of the local government. Contact the appropriate local government office to determine if a WQIA is required for the proposed activity(ies).

The individual localities, not the DEQ, USACE, or the Local Wetlands Boards, are responsible for enforcing the CBPA requirements and, therefore, local permits for land disturbance are not issued through this JPA process. **Approval of this wetlands permit does not constitute compliance with the CBPA regulations nor does it guarantee that the local government will grant approval for encroachments into the RPA that may result from this project.**

#### Notes for all projects in RPAs

Development, redevelopment, construction, land disturbance, or placement of fill within the RPA features listed above requires the approval of the locality and may require an exception or variance from the local Bay Act ordinance. Please contact the appropriate local government to determine the types of development or land uses that are permitted within RPAs.

Pursuant to 9VAC25-830-110, *on-site delineation of the RPA is required for all projects in CBPAs*. Because USGS maps are not always indicative of actual "in-field" conditions, they may not be used to determine the site-specific boundaries of the RPA.

#### Notes for shoreline erosion control projects in RPAs

Re-establishment of woody vegetation in the buffer will be required by the locality to mitigate for the removal or disturbance of buffer vegetation associated with your proposed project. Please contact the local government to determine the mitigation requirements for impacts to the 100-foot RPA buffer.

Pursuant to 9VAC25-830-140 5 a (4) of the Virginia Administrative Code, shoreline erosion projects are a permitted modification to RPAs provided that the project is based on the "best technical advice" and complies with applicable permit conditions. In accordance with 9VAC25-830-140 1 of the Virginia Administrative Code, the locality will use the information provided in this Appendix, in the project drawings, in this permit application, and as required by the locality, to make a determination that:

1. Any proposed shoreline erosion control measure is necessary and consistent with the nature of the erosion occurring on the site, and the measures have employed the "best available technical advice"
2. Indigenous vegetation will be preserved to the maximum extent practicable
3. Proposed land disturbance has been minimized
4. Appropriate mitigation plantings will provide the required water quality functions of the buffer (9VAC25-830-140 3)
5. The project is consistent with the locality's comprehensive plan
6. Access to the project will be provided with the minimum disturbance necessary.

**Previous Actions Related to the Proposed Work**

Agency	Action/ Activity	Permit/Project number	Date of Action	If denied, give reason for denial
Corps	PJD (Mattaponi River)	NAO-2018-00656	6/20/2018	
Corps	PJD (Pamunkey River)	NAO-2018-00662	9/28/2018 & 5/24/2018	
Corps	NWP12 (Mattaponi River)	NAO-2018-00656	3/26/2020 & 6/10/2019	
Corps	NWP12 (Pamunkey River)	NAO-2018-00662	5/23/2019	
VMRC	Subaqueous permits (Mattaponi River)	VMRC #2018-1496; VMRC #2018-1230	6/23/2020 & 3/6/2019; 8/17/2018	
VMRC	Subaqueous permits (Pamunkey River)	VMRC #2018-1495; VMRC #2018-1231	3/14/2019; 8/17/2018	

Table 2. Public Notification, Property Owners Adjacent to VMRC Crossing

Parcel ID	Property Owner's Name	Mailing Address			
		Street Address	City	State	Zip Code
1	THE STITZER - INGO CO	PO BOX 523	QUINTON	VIRGINIA	23141
2	ANASTASIOU ANDREANNA HELEN	1571 SWEET HALL ROAD	WEST POINT	VIRGINIA	23181
3	GHARSE SURESH P & GHARSE SEEMA S	1807 HUGUENOT RD STE 103	MIDLOTHIAN	VIRGINIA	23113
4	FISCHER CARL R & FISCHER LYNN E	1685 SWEET HALL RD	WEST POINT	VIRGINIA	23181



Wetlands, Waters, and Dunes/ Beaches Impact Information

Impact description (use all that apply): F=fill EX=excavation S=Structure T=tidal NT=non-tidal TE=temporary PE=permanent PR=perennial IN=intermittent SB=subaqueous bottom DB=dune/beach IS=hydrologically isolated V=vegetated NV=non-vegetated MC=Mechanized Clearing of PFO	Impact Site TU7	Impact Site TU8	Impact Site TU9	Impact Site TU10	Impact Site TU11	Impact Site TU12	Impact Site TU13	Impact Site TU14	Impact Site TU15	Impact Site TU16	Impact Site TU17	Impact Site TU18	Impact Site TU19
	NT, TE, V, NV	T, TE, V, NV	NT, TE, V, NV	NT, TE, V, NV	NT, TE, V, NV	NT, TE, V, NV	NT, TE, V, NV	NT, TE, V, NV	NT, TE, V, NV				
Latitude / Longitude (in decimal degrees)	37.614331, -76.893124	37.620576, -76.891109	37.631229, -76.888153	37.636829, -76.886648	37.641500, -76.884520	37.644049, -76.883599	37.647257, -76.882298	37.673531, -76.871732	37.676700, -76.870400	37.705500, -76.858740	37.714800, -76.854950	37.7255296, -76.850494	37.730989, -76.848595
Wetland/waters impact (square feet / acres)	3,342 SF	58 SF; 1.876 SF	65,650 SF	1,573 SF; 490 SF	590 SF	9,484 SF; 9,060 SF	523 SF	16,363 SF; 12 SF	11,362 SF	20 SF; 161 SF	1,609 SF; 253 SF	3,365 SF; 188 SF	1,440 SF
Dune/beach impact area (square feet)	n/a	n/a											
Stream dimensions at impact site	n/a	n/a											
Volume of fill below Mean High Water or Ordinary High Water (cubic yards)	n/a	n/a											
Cowardin classification	PSS	PEM; PSS	PEM	PEM; PSS	PEM	PEM; Tidal PEM	PEM	PEM; PSS	PEM	PEM; PSS	PEM; PSS	PEM; PSS	PEM
Average stream flow at site	n/a	n/a											
Contributing drainage area in acres or square miles	n/a	n/a											
DEC classification of impacted resource(s)	Wetlands Class VII	Wetlands Class VII											

# **APPENDIX B**

## **Project Graphics**





Figure No. 2

### Jurisdictional Area Impacts Map York River Watershed Section

Client: Dominion Energy Virginia  
 Project: Lenoir-Norfolk 230 KV Transmission Line #224  
 Rebuild and New 230 KV Line #220B  
 Project Location: 10000 S. 100th Ave. #224-220B  
 Prepared by: J.P. Williams, King and Queen  
 Date: 08/20/2019



- Substation
- Proposed Structure
- Existing Structure
- Structures, Second Circuit Only
- Access Route
- York River Watershed Section (Project) Limits
- James River Watershed Section Limits
- Flankbank River Watershed Limits
- Parcel Boundary/Key
- Temporary Impact
- Temporary Mat Access
- 100-Year Flood Zone
- 2-Foot Contour
- Approximate Palustrine Scrub-Shrub Wetland Limits (PSS)
- Approximate Palustrine Emergent Wetland Limits (PEM)
- Approximate Intermittent Stream Channel Limits (R4)



**NOTES:**

1. Data sources include USGS 10m Digital Elevation Model (DEM), 1:250,000 National Hydrography Dataset (NHD), FEMA, ESRI County GIS 2019, King and Queen County GIS 2019, Essex County GIS 2019, Richmond County GIS 2019, York County GIS 2019, and York County GIS 2019.
2. Data sources include USGS 10m Digital Elevation Model (DEM), 1:250,000 National Hydrography Dataset (NHD), FEMA, ESRI County GIS 2019, King and Queen County GIS 2019, Essex County GIS 2019, Richmond County GIS 2019, York County GIS 2019, and York County GIS 2019.
3. Data sources include USGS 10m Digital Elevation Model (DEM), 1:250,000 National Hydrography Dataset (NHD), FEMA, ESRI County GIS 2019, King and Queen County GIS 2019, Essex County GIS 2019, Richmond County GIS 2019, York County GIS 2019, and York County GIS 2019.
4. The limits of the U.S. ... wetland systems, shown on this map have been derived from the National Wetlands Inventory (NWI) data.
5. NW and MW are based on the National Wetlands Inventory (NWI) data.
6. The NW and MW are based on the National Wetlands Inventory (NWI) data.
7. The NW and MW are based on the National Wetlands Inventory (NWI) data.
8. The NW and MW are based on the National Wetlands Inventory (NWI) data.
9. The NW and MW are based on the National Wetlands Inventory (NWI) data.
10. The NW and MW are based on the National Wetlands Inventory (NWI) data.







Figure No. 2  
**Jurisdictional Area Impacts Map**  
**York River Watershed Section**

Client: Dominion Energy Virginia  
 Project: Antietam-Northern Neck 230 kV Transmission Line #224  
 Title: **Regulatory and New 230 kV Line #2208**  
 Date: 08/20/2021  
 Prepared by: [Redacted]  
 Checked by: [Redacted]

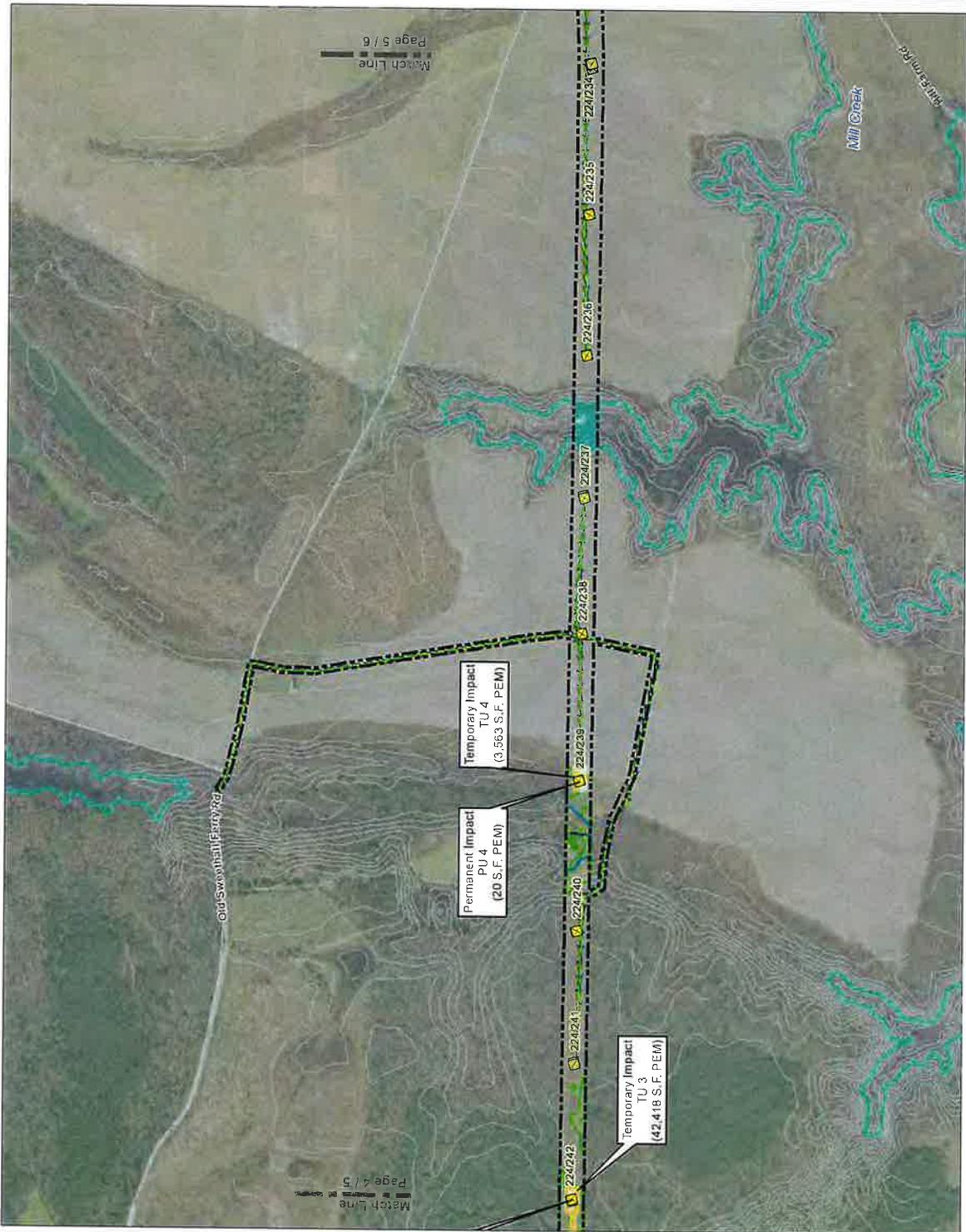


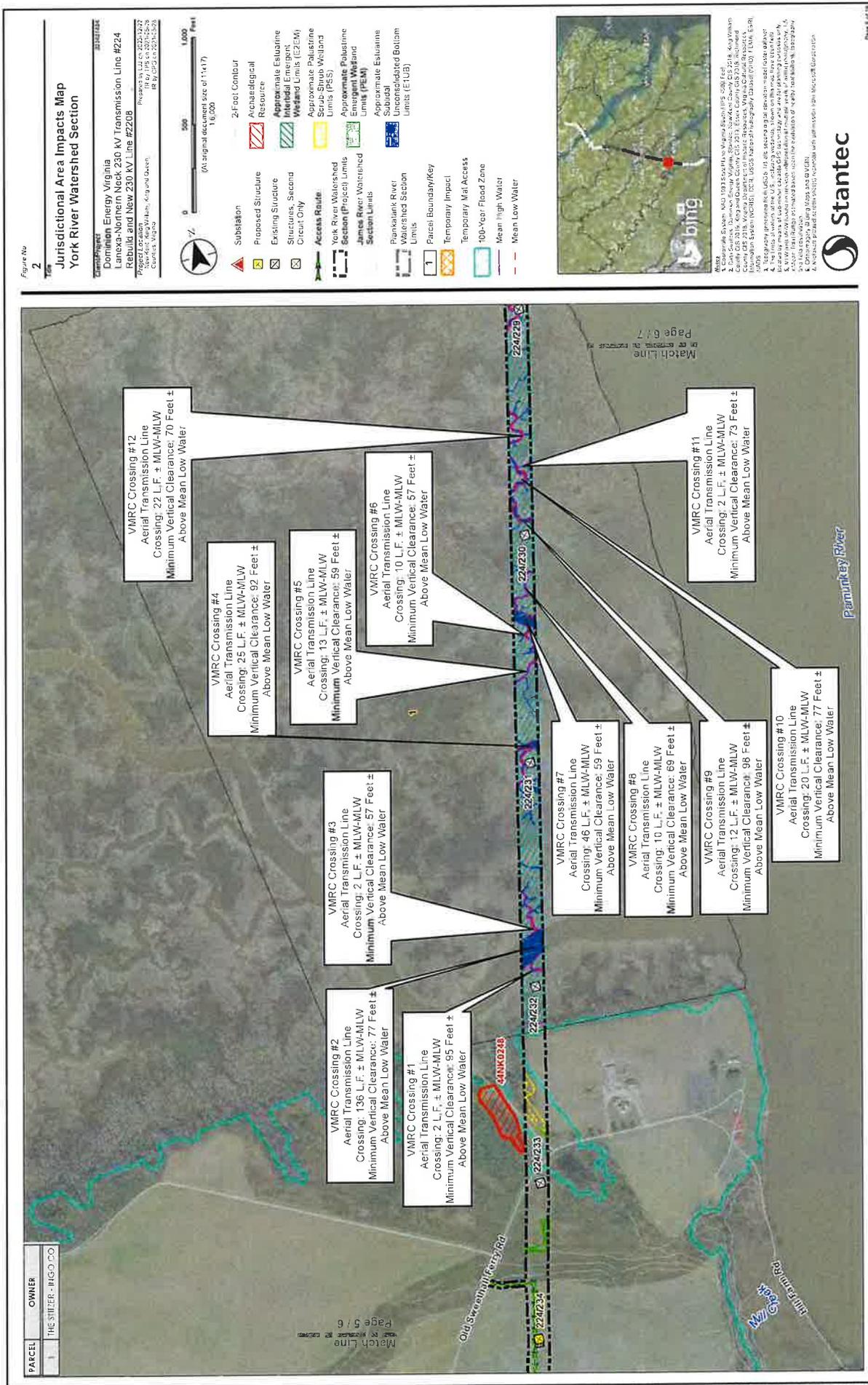
- Substation**
  - Proposed Structure
  - Existing Structure
  - Structures, Second Circuit Only
- Access Route**
  - York River Watershed Section (Project) Limits
  - James River Watershed Section Limits
- Plankcreek River Watershed Section (Project) Limits**
- Watershed Section Limits**
  - Parcel Boundary/Key
  - Temporary Impact
  - Temporary Wet Access
  - 100-Year Flood Zone
- 2-Foot Contour**
  - Approximate Palustrine Emergent Wetland Limits (PEM)
  - Approximate Palustrine Emergent Tidal Wetland Limits PEM (Tidal)
  - Approximate Lower Perennial Stream Channel Limits (R2)
  - Approximate Intermittent Stream Channel Limits (R4)
  - Approximate Palustrine Wetland Limits (PUB)



**NOTES**

1. Data source: NAD 1983 County of Virginia State Plane FIPS 5002 feet, 4000 foot GCS 2011, King and Queen County GIS 2011, King and Queen County GIS 2011, State County GIS 2011, Piedmont Planning Commission (PPC) GIS, USGS National Hydrography Dataset (NHD) 1:50,000, USGS National Wetlands Inventory (NWI) 1:50,000, USGS National Wetlands Inventory (NWI) 1:50,000, USGS National Wetlands Inventory (NWI) 1:50,000.
2. The map displays the 2-Foot contours, which are the most accurate representation of the terrain available.
3. The map displays the 100-Year Flood Zone, which is the most accurate representation of the flood hazard available.
4. The map displays the Watershed Section Limits, which are the most accurate representation of the watershed boundaries available.
5. The map displays the Parcel Boundary/Key, which is the most accurate representation of the parcel boundaries available.
6. The map displays the Temporary Impact, which is the most accurate representation of the temporary impact available.
7. The map displays the Temporary Wet Access, which is the most accurate representation of the temporary wet access available.
8. The map displays the 100-Year Flood Zone, which is the most accurate representation of the flood hazard available.





Stantec

Customer: The document has been prepared based on information provided by others, as shown on the field notes. Stantec has not verified the accuracy and/or completeness of the information provided. Stantec is not responsible for any errors or omissions in this document, and the accuracy of the information is not guaranteed. Stantec is not responsible for any errors or omissions in this document, and the accuracy of the information is not guaranteed.





### Jurisdictional Area Impacts Map York River Watershed Section

**Client/Project**  
Dominion Energy Virginia  
Lanex-Northern Neck 230 kV Transmission Line #224  
Rebuild and New 230 kV Line #2208

**Location**  
New Kent, King William, King and Queen  
Counties, Virginia



- Substation
- Proposed Structure
- Existing Structure
- Structures, Second Circuit Only
- Access Route
- York River Watershed Section (Project) Limits
- James River Watershed Section Limits
- Pamlico River Watershed Section Limits
- Parcel Boundary/Key
- Temporary Impact
- Temporary Mail Access
- 2-Foot Contour
- Approximate Palustrine Forested Wetland Limits (PFC)
- Approximate Palustrine Scrub-Shrub Wetland Limits (PSS)
- Approximate Palustrine Emergent Wetland Limit (PEM)
- Approximate Upper Perennial Stream Channel Limits (R3)
- Approximate Intermittent Stream Channel Limits (R4)



- Notes**
1. Data for this map was derived from the Virginia Department of Transportation (VDOT) and the Virginia Department of Conservation and Forestry (VDCF).
  2. The data for this map was derived from the Virginia Department of Transportation (VDOT) and the Virginia Department of Conservation and Forestry (VDCF).
  3. The data for this map was derived from the Virginia Department of Transportation (VDOT) and the Virginia Department of Conservation and Forestry (VDCF).
  4. The data for this map was derived from the Virginia Department of Transportation (VDOT) and the Virginia Department of Conservation and Forestry (VDCF).
  5. The data for this map was derived from the Virginia Department of Transportation (VDOT) and the Virginia Department of Conservation and Forestry (VDCF).
  6. The data for this map was derived from the Virginia Department of Transportation (VDOT) and the Virginia Department of Conservation and Forestry (VDCF).



Figure No. 2  
**Jurisdictional Area Impacts Map**  
**York River Watershed Section**

Client/Project  
 Dominion Energy Virginia  
 Lamona-Northern Neck 230 KV Transmission Line #224  
**REBUILD and New 230 KV Line #220B**  
 Prepared by JUV on 02/13/20  
 Reviewed by King William, King and Queen,  
 Isle of Wight, York, Gloucester, and James City Counties, Virginia  
 IR By: PSE on 02/25/20  
 IR By: PSE on 02/25/20



- Substation
- Proposed Structure
- Existing Structure
- Structures, Second Circuit Only
- Access Route
- York River Watershed Section (Project) Limits
- James River Watershed Section Limits
- Franklin River Watershed Section Limits
- Parcel Boundary/Key
- Temporary Impact
- Temporary Mat Access
- 2-Foot Contour
- Approximate Palustrine Scrub-Shrub Wetland Limits (PSS)
- Approximate Palustrine Emergent Wetland Limits (PEM)
- Approximate Upper Perennial Stream Channel Limits (R3)
- Approximate Intermittent Stream Channel Limits (R4)



NOTES

1. Coordinate System: NAD 1983 StatePlane Virginia South (FIPS 4602 Feet)
2. Data Sources: USGS National Wetlands Inventory (NWI), USGS National Hydrography Dataset (NHD), FEMA, ESRI
3. The limits of the York River Watershed Section are shown on the map. The limits of the James River Watershed Section and the Franklin River Watershed Section are shown on the map. The limits of the York River Watershed Section are shown on the map.
4. The limits of the York River Watershed Section are shown on the map. The limits of the James River Watershed Section and the Franklin River Watershed Section are shown on the map.
5. The limits of the York River Watershed Section are shown on the map. The limits of the James River Watershed Section and the Franklin River Watershed Section are shown on the map.
6. The limits of the York River Watershed Section are shown on the map. The limits of the James River Watershed Section and the Franklin River Watershed Section are shown on the map.
7. The limits of the York River Watershed Section are shown on the map. The limits of the James River Watershed Section and the Franklin River Watershed Section are shown on the map.

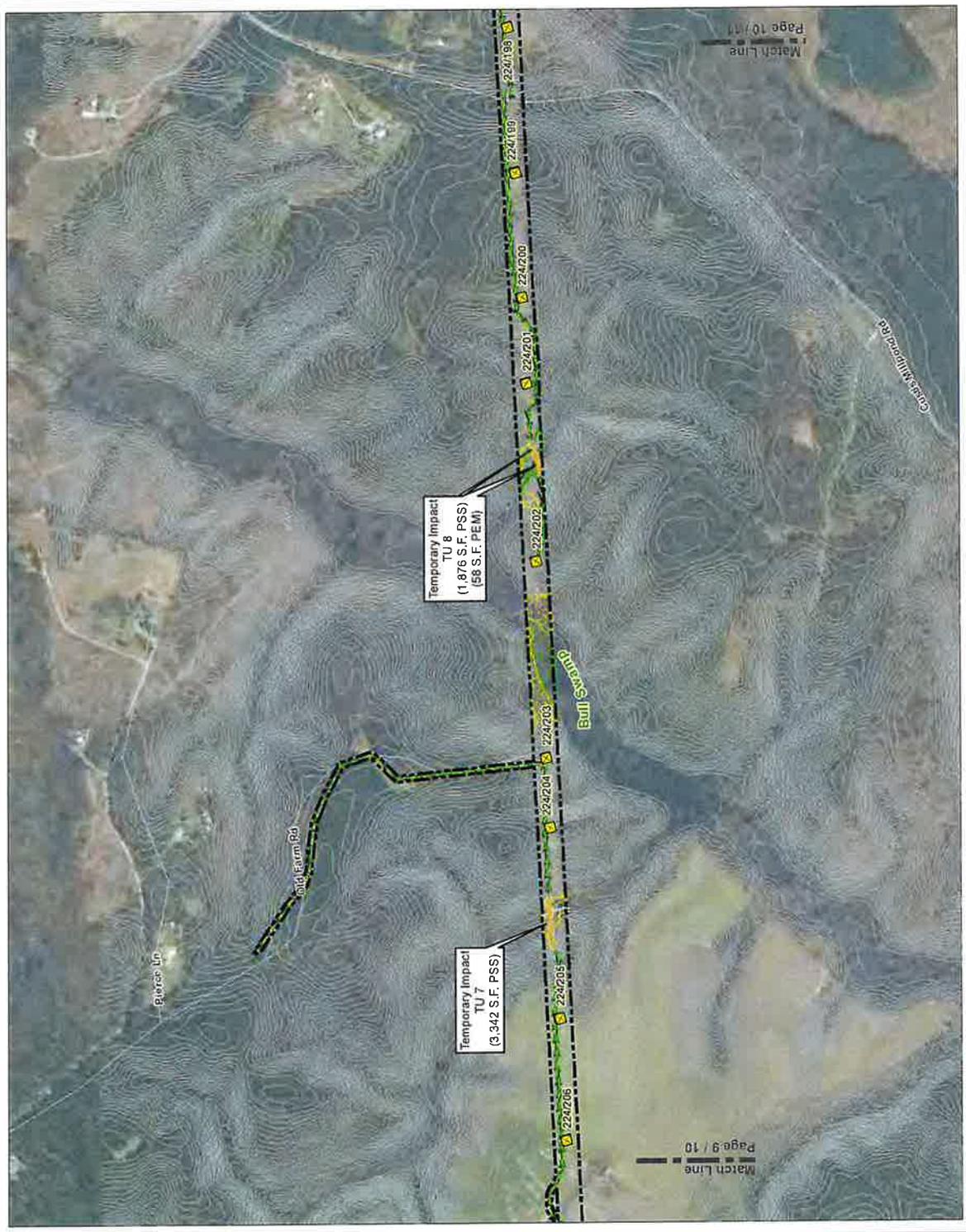




Figure No. 2  
 Jurisdictional Area Impacts Map  
 York River Watershed Section

Client: Dominion Energy Virginia  
 Project: Lanexa-Northern Neck 230 kV Transmission Line #224  
 Rebuild and New 230 kV Line #2208  
 Prepared by: JLD, JLD, JLD, JLD, JLD  
 Date: 07/15/2021  
 Project Location: York River, King and Queen Counties, Virginia

Scale: 1:180 (Original document size of 11x17)

Legend:

- Substation
- Proposed Structure
- Existing Structure
- Structures, Second Circuit Only
- Access Route
- York River Watershed Section (Project) Limits
- James River Watershed Section Limits
- Pamunkey River Watershed Section Limits
- Parcel Boundary/Key
- Temporary Impact
- Temporary Mat Access
- 100-Year Flood Zone
- Area Excluded From Project
- 1.5 x Mean Tidal Range
- 2-Foot Contour
- Approximate Palustrine Forested Wetland Limits (PFC)
- Approximate Palustrine Emergent Wetland Limits (PEM)
- Approximate Upper Perennial Stream Channel Limits (R3)



Notes:  
 1. Data Source: USGS National Wetlands Inventory (NWI) 2002  
 2. Data Source: USGS National Wetlands Inventory (NWI) 2002  
 3. Data Source: USGS National Wetlands Inventory (NWI) 2002  
 4. The data provided in this map is for informational purposes only and does not constitute a warranty of any kind.  
 5. VDOT and MWV have an ongoing partnership to improve the accuracy of their data.  
 6. This map is based on the best available data and is subject to change.  
 7. This map is based on the best available data and is subject to change.

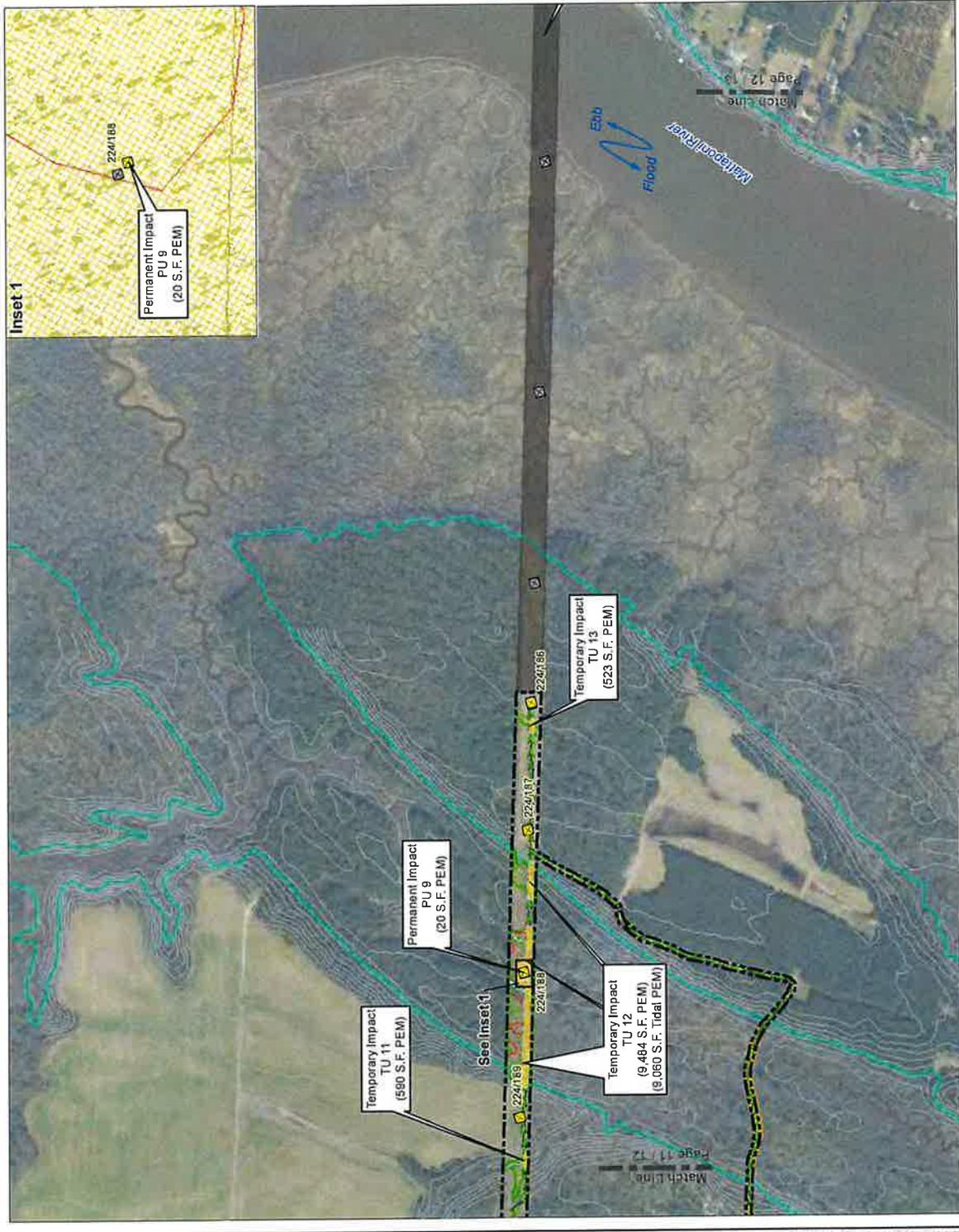








Figure No. 2

### Jurisdictional Area Impacts Map York River Watershed Section

Client/Project:  
 Dominion Energy Virginia  
 Landing Northern Area 230 kV Transmission Line #224  
 R224/152 and New 230 kV Line #220B  
 Prepared by: J. Blum, J. Blum, J. Blum  
 10/18/2019  
 Approved by: J. Blum, J. Blum, J. Blum  
 11/19/2019  
 Date: 11/19/2019



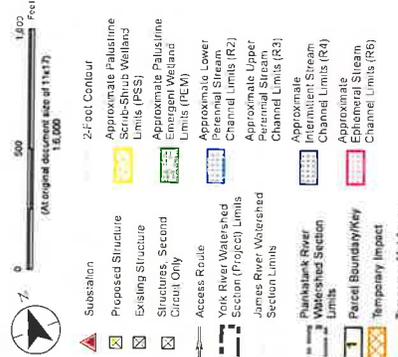
- Substation
- Proposed Structure
- Existing Structure
- Structures, Second
- Circular Only
- Access Route
- York River Watershed Section (Project) Limits
- James River Watershed Section Limits
- Plankank River Watershed Section Limits
- 2-Foot Contour
- Approximate Palustrine Scrub-Shrub Wetland Limits (PSS)
- Approximate Palustrine Emergent Wetland Limits (PEM)
- Approximate Lower Potential Stream Channel Limits (R2)
- Approximate Intermittent Stream Channel Limits (R4)
- Plankank River Watershed Section Limits
- Parcel Boundary/Key
- Temporary Impact
- Temporary Wall Access



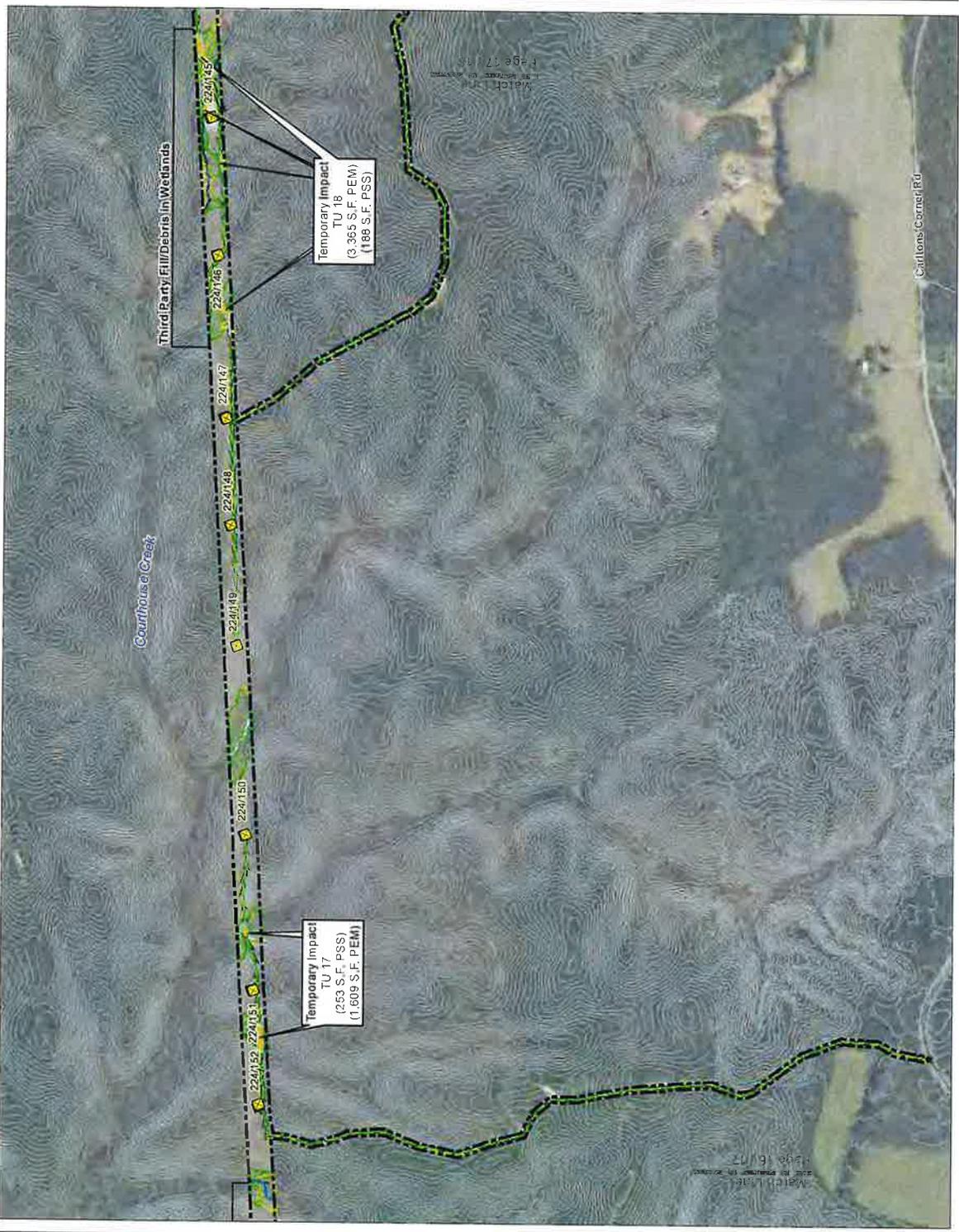
Notes:  
 1. This map was prepared using the following data sources:  
 a. Digital Elevation Model (DEM) from the Virginia Department of Transportation (VDOT)  
 b. Digital Orthophoto (DO) from the Virginia Department of Transportation (VDOT)  
 c. Digital Vector Data (DVI) from the Virginia Department of Transportation (VDOT)  
 d. Digital Vector Data (DVI) from the Virginia Department of Transportation (VDOT)  
 e. Digital Vector Data (DVI) from the Virginia Department of Transportation (VDOT)  
 2. The data is based on the U.S. National Wetlands Inventory (NWI) data set.  
 3. The data is based on the U.S. National Wetlands Inventory (NWI) data set.  
 4. The data is based on the U.S. National Wetlands Inventory (NWI) data set.  
 5. The data is based on the U.S. National Wetlands Inventory (NWI) data set.  
 6. The data is based on the U.S. National Wetlands Inventory (NWI) data set.



Figure No. 2  
**Jurisdictional Area Impacts Map**  
**York River Watershed Section**  
 Project No. 22201421  
 Dominion Energy Virginia  
 Lanexa-Norfolk 230 KV Transmission Line #224  
 Rebuild and New 230 KV Line #220B  
 Project Location  
 Norfolk, Virginia  
 Planning by Date: 2020-12-17  
 Issued by Date: 2021-02-19  
 File No: DVS-2020-0227-0228



Notes:  
 1. Data Source: USGS 1:250,000 National Wetlands Inventory (NWI) Data File  
 2. Data Source: USGS 1:250,000 National Wetlands Inventory (NWI) Data File  
 3. Data Source: USGS 1:250,000 National Wetlands Inventory (NWI) Data File  
 4. Data Source: USGS 1:250,000 National Wetlands Inventory (NWI) Data File  
 5. Data Source: USGS 1:250,000 National Wetlands Inventory (NWI) Data File  
 6. Data Source: USGS 1:250,000 National Wetlands Inventory (NWI) Data File  
 7. Data Source: USGS 1:250,000 National Wetlands Inventory (NWI) Data File  
 8. Data Source: USGS 1:250,000 National Wetlands Inventory (NWI) Data File  
 9. Data Source: USGS 1:250,000 National Wetlands Inventory (NWI) Data File  
 10. Data Source: USGS 1:250,000 National Wetlands Inventory (NWI) Data File



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# **APPENDIX C**

## **Threatened and Endangered Species**

**APPENDIX D**  
**Attachment 1- USFWS T&E Review**

## Project Description

As part of an ongoing effort to improve electric reliability through the service area, Dominion Energy is proposing, entirely within existing ROW or on Dominion Energy-owned property between existing Structure 224/258 and 224/142, to: rebuild 15.3 miles of the existing 230 kV Lanexa-Northern Neck Line #224 and install the new 230 kV Lanexa-Northern Neck Line #2208 on 15.3 miles of new collocated double circuit structures. The primary purpose of the proposed Project is to replace aging infrastructure nearing its end of service life. Additionally, a second 230 kV Lanexa-Northern Neck transmission line, Line #2208, is needed to resolve a potential violation of PJM Interconnection, L.L.C. (PJM) and Dominion Energy Planning Criteria that involved dropping over 300 megawatts (MW) in the 2022/2023 timeframe based on the 2020 PJM Load Forecast.

### A. Timing

- To be Completed by December 31, 2022

### B. Location

- The Project stretches from approximately State Route 249 (New Kent Highway) to Mount Zion Road approximately 15.3 miles within existing maintained right-of-way (ROW) in New Kent, King William, and King and Queen Counties, Virginia. The start of the project is located at 37.502664, -76.923300 and the terminus is located at approximately 37.731710, -76.848163.

### C. Scope (e.g., installation of rip rap scour protection)

- Rebuild 15.3 miles of the existing 230 kV Lanexa-Northern Neck Line #224 and install the new 230 kV Lanexa-Northern Neck Line #2208 on 15.3 miles of new collocated double circuit structures.

### D. Size

- Approximately 272.21 Acres

### E. Methods

- In accordance with Dominion procedures.

### F. Equipment and materials being used

- Brown, weathering steel monopole structures

### G. Engineering specifications

- In accordance with all New Kent, King William, and King and Queen County Specifications

### H. Measures intended to avoid or minimize adverse impacts to listed species and their habitat, and to critical habitat

- Construction work will be performed within existing, maintained ROW and additional clearing will be limited to danger trees, limbing, and those required to be removed for access to structures. Construction for the line will be provided through the existing ROW, state roads, and existing maintenance paths. Replacement structure foundations will be five feet in diameter, the minimum size necessary to provide structural support. The Project will result in permanent impacts to 220 square feet (SF) of non-tidal palustrine emergent wetland (PEM). Timber matting will be used within wetlands and to cross streams. As a result, temporary impacts 170,073 SF of non-tidal PEM, 9,060 SF of tidal PEM, and 8,502 SF of non-tidal palustrine scrub-shrub are expected. Erosion and sediment controls will be utilized as appropriate throughout the project. All mats will be removed upon completion. Site restoration will consist of restoring the area to pre-construction contours and re-seeding with approved seed mixes as outlined in Dominion Energy's Annual Standards and Specifications

### I. Photos of the area and equipment, maps, diagrams, etc.

- Please see attached mapping

### J. Any other details that are pertinent to understanding the action in its entirety

- N/A

**Endangered Species Act (ESA) Section 7 Determination Table**

Project Name: Lanexa-Northern Neck 230 kV Transmission Line #224 Rebuild Project

Date: December 22, 2020

Consultation Code: 05E2VA00-2021-SLI-1315

<b>Species / Resource Name</b>	<b>Habitat/Species Presence in Action Area</b>	<b>Sources of Info</b>	<b>ESA Section 7 Determination</b>	<b>Project Elements that Support Determination</b>
<p>Insert name of species or resource as listed on Official Species List.</p>	<p>Indicate if suitable habitat and species are present in the Action Area (see examples in Step 5).</p>	<p>Explain what info suitable habitat/species presence is based on.</p>	<p>Using reasoning and decision tables in Step 5, select determination for each species (e.g. no effect, not likely to adversely affect, or likely to adversely affect).</p>	<p>Explain which project elements may impact the habitat or individuals of each species and any Avoidance and Minimization Measures being implemented.</p>
<p>Northern long-eared bat (<i>Myotis septentrionalis</i>) Status: FT, ST Source: USFWS-IPaC, DWR-VaFWIS</p>	<p>No known hibernacula or maternity roosts near Project area.</p>	<p>Aerial imagery, DWR-VaFWIS, NatureServe</p>	<p>Not likely to adversely effect.</p>	<p>Tree clearing will be limited to danger tree and those necessary for construction access. The applicant proposes to conduct any tree removal outside of the northern long-eared bat pup season (June 1 – July 31).</p>
<p>Sensitive Joint-vetch (<i>Aeschynomene virginica</i>) Status: FT, ST Source: USFWS-IPaC, DCR-NHR</p>	<p>Suitable habitat may be present within the Project area.</p>	<p>Aerial imagery</p>	<p>Not likely to adversely effect.</p>	<p>Typically grows within 2 meters of low water mark on raised banks of fresh to slightly brackish tidal river shores and estuarine-river marsh borders. All work is within the existing cleared and maintained transmission line ROW.</p>
<p>Small Whorled Pogonia (<i>Isoetria medeoloides</i>) Status: FT Source: USFWS-IPaC,</p>	<p>Suitable habitat may be present within the Project area.</p>	<p>Aerial imagery</p>	<p>Not likely to adversely effect.</p>	<p>Typically grows on flat bases near canopy breaks of deciduous forests. All work is within the existing cleared and maintained transmission line ROW.</p>

Species / Resource Name	Habitat/Species Presence in Action Area	Sources of Info	ESA Section 7 Determination	Project Elements that Support Determination
<p>Atlantic Sturgeon (<i>Acipenser oxyrinchus</i>)</p> <p>Status: FT, SE</p> <p>Source: DWR-VaFWIS</p>	<p>Suitable habitat may be present within the Project area.</p>	<p>Aerial imagery, DWR-VaFWIS</p>	<p>May adversely effect.</p>	<p>Crossings of streams will be designed to minimize impacts, minimize sedimentation concerns, and prevent changes to flow that would alter hydrologic characteristics.</p>



## United States Department of the Interior



FISH AND WILDLIFE SERVICE  
Virginia Ecological Services Field Office  
6669 Short Lane  
Gloucester, VA 23061-4410  
Phone: (804) 693-6694 Fax: (804) 693-9032  
<http://www.fws.gov/northeast/virginiafield/>

In Reply Refer To:

December 22, 2020

Consultation Code: 05E2VA00-2021-SLI-1250

Event Code: 05E2VA00-2021-E-03563

Project Name: Lanexa-Northern Neck 230 kV Transmission Line #224 Rebuild Project

Subject: List of threatened and endangered species that may occur in your proposed project location, and/or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*). Any activity proposed on National Wildlife Refuge lands must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered

species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2) (c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

<http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF>

Please be aware that bald and golden eagles are protected under the Bald and Golden Eagle Protection Act (16 U.S.C. 668 *et seq.*), and projects affecting these species may require development of an eagle conservation plan ([http://www.fws.gov/windenergy/eagle\\_guidance.html](http://www.fws.gov/windenergy/eagle_guidance.html)). Additionally, wind energy projects should follow the wind energy guidelines (<http://www.fws.gov/windenergy/>) for minimizing impacts to migratory birds and bats.

Guidance for minimizing impacts to migratory birds for projects including communications towers (e.g., cellular, digital television, radio, and emergency broadcast) can be found at: <http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/towers.htm>; <http://www.towerkill.com>; and <http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/comtow.html>.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Tracking Number in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment(s):

- Official Species List
- USFWS National Wildlife Refuges and Fish Hatcheries

## **Official Species List**

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

**Virginia Ecological Services Field Office**

6669 Short Lane

Gloucester, VA 23061-4410

(804) 693-6694

## Project Summary

Consultation Code: 05E2VA00-2021-SLI-1250

Event Code: 05E2VA00-2021-E-03563

Project Name: Lanexa-Northern Neck 230 kV Transmission Line #224 Rebuild Project

Project Type: TRANSMISSION LINE

Project Description: Rebuild of a transmission line in New Kent, King William, and King and Queen County.

### Project Location:

Approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/place/37.61628132380892N76.89251249336499W>



Counties: King William, VA | King and Queen, VA | New Kent, VA

## Endangered Species Act Species

There is a total of 3 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries<sup>1</sup>, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

- 
1. [NOAA Fisheries](#), also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

### Mammals

NAME	STATUS
Northern Long-eared Bat <i>Myotis septentrionalis</i> No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/9045">https://ecos.fws.gov/ecp/species/9045</a>	Threatened

### Flowering Plants

NAME	STATUS
Sensitive Joint-vetch <i>Aeschynomene virginica</i> No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/855">https://ecos.fws.gov/ecp/species/855</a>	Threatened
Small Whorled Pogonia <i>Isotria medeoloides</i> No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/1890">https://ecos.fws.gov/ecp/species/1890</a>	Threatened

### Critical habitats

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

# USFWS National Wildlife Refuge Lands And Fish Hatcheries

Any activity proposed on lands managed by the [National Wildlife Refuge](#) system must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

REFUGE INFORMATION WAS NOT AVAILABLE WHEN THIS SPECIES LIST WAS GENERATED.  
PLEASE CONTACT THE FIELD OFFICE FOR FURTHER INFORMATION.



## United States Department of the Interior



FISH AND WILDLIFE SERVICE  
Virginia Ecological Services Field Office  
6669 Short Lane  
Gloucester, VA 23061-4410  
Phone: (804) 693-6694 Fax: (804) 693-9032  
<http://www.fws.gov/northeast/virginiafield/>

IPaC Record Locator: 891-24768777

December 22, 2020

Subject: Consistency letter for the 'Lanexa-Northern Neck 230 kV Transmission Line #224 Rebuild Project' project indicating that any take of the northern long-eared bat that may occur as a result of the Action is not prohibited under the ESA Section 4(d) rule adopted for this species at 50 CFR §17.40(o).

Dear Meagan Moore:

The U.S. Fish and Wildlife Service (Service) received on December 22, 2020 your effects determination for the 'Lanexa-Northern Neck 230 kV Transmission Line #224 Rebuild Project' (the Action) using the northern long-eared bat (*Myotis septentrionalis*) key within the Information for Planning and Consultation (IPaC) system. You indicated that no Federal agencies are involved in funding or authorizing this Action. This IPaC key assists users in determining whether a non-Federal action may cause “take”<sup>[1]</sup> of the northern long-eared bat that is prohibited under the Endangered Species Act of 1973 (ESA) (87 Stat.884, as amended; 16 U.S.C. 1531 et seq.).

Based upon your IPaC submission, any take of the northern long-eared bat that may occur as a result of the Action is not prohibited under the ESA Section 4(d) rule adopted for this species at 50 CFR §17.40(o). Unless the Service advises you within 30 days of the date of this letter that your IPaC-assisted determination was incorrect, this letter verifies that the Action is not likely to result in unauthorized take of the northern long-eared bat.

Please report to our office any changes to the information about the Action that you entered into IPaC, the results of any bat surveys conducted in the Action area, and any dead, injured, or sick northern long-eared bats that are found during Action implementation.

If your Action proceeds as described and no additional information about the Action’s effects on species protected under the ESA becomes available, no further coordination with the Service is required with respect to the northern long-eared bat.

The IPaC-assisted determination for the northern long-eared bat **does not** apply to the following ESA-protected species that also may occur in your Action area:

- Sensitive Joint-vetch, *Aeschynomene virginica* (Threatened)

- Small Whorled Pogonia, *Isotria medeoloides* (Threatened)

You may coordinate with our Office to determine whether the Action may cause prohibited take of the animal species listed above.

---

[1]Take means to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect, or to attempt to engage in any such conduct [ESA Section 3(19)].

**Action Description**

You provided to IPaC the following name and description for the subject Action.

**1. Name**

Lanexa-Northern Neck 230 kV Transmission Line #224 Rebuild Project

**2. Description**

The following description was provided for the project 'Lanexa-Northern Neck 230 kV Transmission Line #224 Rebuild Project':

Rebuild of a transmission line in New Kent, King William, and King and Queen County.

Approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/place/37.61628132380892N76.89251249336499W>

**Determination Key Result**

This non-Federal Action may affect the northern long-eared bat; however, any take of this species that may occur incidental to this Action is not prohibited under the final 4(d) rule at 50 CFR §17.40(o).

**Determination Key Description: Northern Long-eared Bat 4(d) Rule**

This key was last updated in IPaC on **May 15, 2017**. Keys are subject to periodic revision.

This key is intended for actions that may affect the threatened northern long-eared bat.

The purpose of the key for non-Federal actions is to assist determinations as to whether proposed actions are excepted from take prohibitions under the northern long-eared bat 4(d) rule.

If a non-Federal action may cause prohibited take of northern long-eared bats or other ESA-listed animal species, we recommend that you coordinate with the Service.

## Determination Key Result

Based upon your IPaC submission, any take of the northern long-eared bat that may occur as a result of the Action is not prohibited under the ESA Section 4(d) rule adopted for this species at 50 CFR §17.40(o).

## Qualification Interview

1. Is the action authorized, funded, or being carried out by a Federal agency?

*No*

2. Will your activity purposefully **Take** northern long-eared bats?

*No*

3. [Semantic] Is the project action area located wholly outside the White-nose Syndrome Zone?

**Automatically answered**

*No*

4. Have you contacted the appropriate agency to determine if your project is near a known hibernaculum or maternity roost tree?

Location information for northern long-eared bat hibernacula is generally kept in state Natural Heritage Inventory databases – the availability of this data varies state-by-state. Many states provide online access to their data, either directly by providing maps or by providing the opportunity to make a data request. In some cases, to protect those resources, access to the information may be limited. A web page with links to state Natural Heritage Inventory databases and other sources of information on the locations of northern long-eared bat roost trees and hibernacula is available at [www.fws.gov/midwest/angered/mammals/nleb/nhisites.html](http://www.fws.gov/midwest/angered/mammals/nleb/nhisites.html).

*Yes*

5. Will the action affect a cave or mine where northern long-eared bats are known to hibernate (i.e., hibernaculum) or could it alter the entrance or the environment (physical or other alteration) of a hibernaculum?

*No*

6. Will the action involve Tree Removal?

*Yes*

7. Will the action only remove hazardous trees for the protection of human life or property?  
Yes

## Project Questionnaire

**If the project includes forest conversion, report the appropriate acreages below. Otherwise, type '0' in questions 1-3.**

1. Estimated total acres of forest conversion:

0

2. If known, estimated acres of forest conversion from April 1 to October 31

0

3. If known, estimated acres of forest conversion from June 1 to July 31

0

**If the project includes timber harvest, report the appropriate acreages below. Otherwise, type '0' in questions 4-6.**

4. Estimated total acres of timber harvest

0

5. If known, estimated acres of timber harvest from April 1 to October 31

0

6. If known, estimated acres of timber harvest from June 1 to July 31

0

**If the project includes prescribed fire, report the appropriate acreages below. Otherwise, type '0' in questions 7-9.**

7. Estimated total acres of prescribed fire

0

8. If known, estimated acres of prescribed fire from April 1 to October 31

0

9. If known, estimated acres of prescribed fire from June 1 to July 31

0

**If the project includes new wind turbines, report the megawatts of wind capacity below. Otherwise, type '0' in question 10.**

10. What is the estimated wind capacity (in megawatts) of the new turbine(s)?

0

**APPENDIX D**  
**Attachment 2- State Agencies**  
**T&E Review**



# Virginia Department of Game and Inland Fisheries

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**VaFWIS Initial Project Assessment Report** Compiled on 12/22/2020, 10:41:17 AM

Known or likely to occur within a 2 mile buffer around line beginning 37.5009100 -76.9234599 in 097 King and Queen County, 101 King William County, 127 New Kent County, VA

[View Map of Site Location](#)

532 Known or Likely Species ordered by Status Concern for Conservation (displaying first 22) (22 species with Status\* or Tier I\*\* or Tier II\*\*)

BOVA Code	Status*	Tier**	Common Name	Scientific Name	Confirmed	Database(s)
060003	FESE	Ia	<a href="#">Wedgemussel dwarf</a>	Alasmidonta heterodon		BOVA
010032	FESE	Ib	<a href="#">Sturgeon, Atlantic</a>	Acipenser oxyrinchus	Yes	BOVA,TEWaters,Habitat,SppObs
040110	FTSE	Ia	<a href="#">Rail, eastern black</a>	Laterallus jamaicensis jamaicensis		BOVA
050022	FTST	Ia	<a href="#">Bat, northern long-eared</a>	Myotis septentrionalis		BOVA
050020	SE	Ia	<a href="#">Bat, little brown</a>	Myotis lucifugus		BOVA
050034	SE	Ia	<a href="#">Bat, Rafinesque's eastern big-eared</a>	Corynorhinus rafinesquii macrotis		BOVA
050027	SE	Ia	<a href="#">Bat, tri-colored</a>	Perimyotis subflavus		BOVA
040379	ST	Ia	<a href="#">Sparrow, Henslow's</a>	Centronyx henslowii	Yes	BOVA,SppObs
030067	CC	IIa	<a href="#">Terrapin, northern diamond-backed</a>	Malaclemys terrapin terrapin	Yes	BOVA,SppObs
030063	CC	IIIa	<a href="#">Turtle, spotted</a>	Clemmys guttata	Yes	BOVA,SppObs
030031	CC	IIIc	<a href="#">Kingsnake, scarlet</a>	Lampropeltis elapsoides		BOVA
010174		Ia	<a href="#">Bass, Roanoke</a>	Ambloplites cavifrons		BOVA
040052		IIa	<a href="#">Duck, American black</a>	Anas rubripes		BOVA
040029		IIa	<a href="#">Heron, little blue</a>	Egretta caerulea caerulea		BOVA
040036		IIa	<a href="#">Night-heron, yellow-crowned</a>	Nyctanassa violacea violacea		BOVA
040320		IIa	<a href="#">Warbler, cerulean</a>	Setophaga cerulea		BOVA
040140		IIa	<a href="#">Woodcock, American</a>	Scolopax minor		BOVA
060071		IIa	<a href="#">Lampmussel, yellow</a>	Lampsilis cariosa		BOVA
040203		IIb	<a href="#">Cuckoo, black-billed</a>	Coccyzus erythrophthalmus		BOVA
040105		IIb	<a href="#">Rail, king</a>	Rallus elegans		BOVA,Habitat
080336		IIc	<a href="#">Beetle, Gammon's stenelmis riffle</a>	Stenelmis gammoni		BOVA
100003		IIc	<a href="#">Skipper, rare</a>	Problema bulenta		BOVA

To view All 532 species [View 532](#)

\*FE=Federal Endangered; FT=Federal Threatened; SE=State Endangered; ST=State Threatened; FP=Federal Proposed; FC=Federal Candidate; CC=Collection Concern

\*\*I=VA Wildlife Action Plan - Tier I - Critical Conservation Need; II=VA Wildlife Action Plan - Tier II - Very High Conservation Need; III=VA Wildlife Action Plan - Tier III - High Conservation Need; IV=VA Wildlife Action Plan - Tier IV - Virginia Wildlife Action Plan Conservation Opportunity Ranking;  
 a - On the ground management strategies/actions exist and can be feasibly implemented; b - On the ground actions or research needs have been identified but cannot feasibly be implemented at this time; c - No on the ground

[View Map of All Query Results from All Observation Tables](#)

Bat Colonies or Hibernacula: **Not Known**

**Anadromous Fish Use Streams** ( 12 records )

[View Map of All Anadromous Fish Use Streams](#)

Stream ID	Stream Name	Reach Status	Anadromous Fish Species			View Map
			Different Species	Highest TE*	Highest Tier**	
C182	<a href="#">Mattaponi river</a>	Confirmed	6		IV	<a href="#">Yes</a>
C58	<a href="#">Pamunkey river</a>	Confirmed	6		IV	<a href="#">Yes</a>
C81	<a href="#">York River</a>	Confirmed	6		IV	<a href="#">Yes</a>
P102	<a href="#">Mattaponi BW3</a>	Potential	0			<a href="#">Yes</a>
P106	<a href="#">Mitchell Hill creek</a>	Potential	0			<a href="#">Yes</a>
P143	<a href="#">Sweet Hall marsh</a>	Potential	0			<a href="#">Yes</a>
P159	<a href="#">Unnamed Tr. 3 of Mattaponi</a>	Potential	0			<a href="#">Yes</a>
P40	<a href="#">Courthouse creek</a>	Potential	0			<a href="#">Yes</a>
P41	<a href="#">Couziac marsh</a>	Potential	0			<a href="#">Yes</a>
P63	<a href="#">Gleason marsh</a>	Potential	0			<a href="#">Yes</a>
P65	<a href="#">Grass creek</a>	Potential	0			<a href="#">Yes</a>
P74	<a href="#">Hill marsh</a>	Potential	0			<a href="#">Yes</a>

**Impediments to Fish Passage** ( 6 records )

[View Map of All Fish Impediments](#)

ID	Name	River	View Map
636	<a href="#">COOKS MILL DAM</a>	MILL CREEK	<a href="#">Yes</a>
856	<a href="#">CUSTIS DAM</a>	MILL CREEK	<a href="#">Yes</a>
640	<a href="#">FERN DAM</a>	TR-MILL CREEK	<a href="#">Yes</a>
857	<a href="#">HARRELL DAM</a>	TR-PAMUNKEY RIVER	<a href="#">Yes</a>
875	<a href="#">JOHNSONS DAM</a>	TR-BULL SWAMP	<a href="#">Yes</a>
605	<a href="#">KING &amp; QUEEN COURTHOUSE DAM</a>	COURTHOUSE CREEK	<a href="#">Yes</a>

**Colonial Water Bird Survey** ( 7 records )

[View Map of All Query Results Colonial Water Bird Survey](#)

Colony_Name	N Obs	Latest Date	N Species			View Map
			Different Species	Highest TE*	Highest Tier**	
<a href="#">Western Shore_King And Queen Court Hous_King and Queen</a>	1	May 1 2013	1			<a href="#">Yes</a>
<a href="#">Western Shore_New Kent_New Kent</a>	2	May 1 2013	1			<a href="#">Yes</a>
<a href="#">Beaverdam Creek</a>	1	May 3 2003	1			<a href="#">Yes</a>
<a href="#">Courthouse Creek</a>	1	May 2 2003	1			<a href="#">Yes</a>
<a href="#">Custis Pond</a>	2	May 1 2003	1			<a href="#">Yes</a>
<a href="#">Courthouse Creek North</a>	1	Jun 1 1993	1			<a href="#">Yes</a>
<a href="#">Courthouse Creek South</a>	1	Jun 1 1993	1			<a href="#">Yes</a>

Displayed 7 Colonial Water Bird Survey

**Threatened and Endangered Waters** ( 193 Reaches - displaying first 20 )

[View Map of All Threatened and Endangered Waters](#)

Stream Name	T&E Waters Species						View Map
	Highest TE*	BOVA Code, Status*, Tier**, Common & Scientific Name					
<a href="#">Mattaponi River (0115605)</a>	FESE	010032	FESE	Ib	<a href="#">Sturgeon, Atlantic</a>	Acipenser oxyrinchus	<a href="#">Yes</a>
<a href="#">Mattaponi River (0115730)</a>	FESE	010032	FESE	Ib	<a href="#">Sturgeon, Atlantic</a>	Acipenser oxyrinchus	<a href="#">Yes</a>
<a href="#">Mattaponi River (0115748)</a>	FESE	010032	FESE	Ib	<a href="#">Sturgeon, Atlantic</a>	Acipenser oxyrinchus	<a href="#">Yes</a>
<a href="#">Mattaponi River (0116202)</a>	FESE	010032	FESE	Ib	<a href="#">Sturgeon, Atlantic</a>	Acipenser oxyrinchus	<a href="#">Yes</a>
<a href="#">Mattaponi River (0118265)</a>	FESE	010032	FESE	Ib	<a href="#">Sturgeon, Atlantic</a>	Acipenser oxyrinchus	<a href="#">Yes</a>
<a href="#">Mattaponi River (0119418)</a>	FESE	010032	FESE	Ib	<a href="#">Sturgeon, Atlantic</a>	Acipenser oxyrinchus	<a href="#">Yes</a>
<a href="#">Mattaponi River (0120000)</a>	FESE	010032	FESE	Ib	<a href="#">Sturgeon, Atlantic</a>	Acipenser oxyrinchus	<a href="#">Yes</a>
<a href="#">Mattaponi River (0120019)</a>	FESE	010032	FESE	Ib	<a href="#">Sturgeon, Atlantic</a>	Acipenser oxyrinchus	<a href="#">Yes</a>
<a href="#">Mattaponi River (0120159)</a>	FESE	010032	FESE	Ib	<a href="#">Sturgeon, Atlantic</a>	Acipenser oxyrinchus	<a href="#">Yes</a>
<a href="#">Mattaponi River (0120195)</a>	FESE	010032	FESE	Ib	<a href="#">Sturgeon, Atlantic</a>	Acipenser oxyrinchus	<a href="#">Yes</a>

12/22/2020

VaFWIS GeographicSelect Options

<a href="#">Mattaponi River (0120470)</a>	FESE	010032	FESE	Ib	<a href="#">Sturgeon, Atlantic</a>	Acipenser oxyrinchus	<a href="#">Yes</a>
<a href="#">Mattaponi River (0120598)</a>	FESE	010032	FESE	Ib	<a href="#">Sturgeon, Atlantic</a>	Acipenser oxyrinchus	<a href="#">Yes</a>
<a href="#">Mattaponi River (0121266)</a>	FESE	010032	FESE	Ib	<a href="#">Sturgeon, Atlantic</a>	Acipenser oxyrinchus	<a href="#">Yes</a>
<a href="#">Mattaponi River (0121314)</a>	FESE	010032	FESE	Ib	<a href="#">Sturgeon, Atlantic</a>	Acipenser oxyrinchus	<a href="#">Yes</a>
<a href="#">Mattaponi River (0121339)</a>	FESE	010032	FESE	Ib	<a href="#">Sturgeon, Atlantic</a>	Acipenser oxyrinchus	<a href="#">Yes</a>
<a href="#">Mattaponi River (0121607)</a>	FESE	010032	FESE	Ib	<a href="#">Sturgeon, Atlantic</a>	Acipenser oxyrinchus	<a href="#">Yes</a>
<a href="#">Mattaponi River (0122262)</a>	FESE	010032	FESE	Ib	<a href="#">Sturgeon, Atlantic</a>	Acipenser oxyrinchus	<a href="#">Yes</a>
<a href="#">Mattaponi River (0122265)</a>	FESE	010032	FESE	Ib	<a href="#">Sturgeon, Atlantic</a>	Acipenser oxyrinchus	<a href="#">Yes</a>
<a href="#">Mattaponi River (0122413)</a>	FESE	010032	FESE	Ib	<a href="#">Sturgeon, Atlantic</a>	Acipenser oxyrinchus	<a href="#">Yes</a>
<a href="#">Mattaponi River (0122635)</a>	FESE	010032	FESE	Ib	<a href="#">Sturgeon, Atlantic</a>	Acipenser oxyrinchus	<a href="#">Yes</a>
<a href="#">Mattaponi River (0123524)</a>	FESE	010032	FESE	Ib	<a href="#">Sturgeon, Atlantic</a>	Acipenser oxyrinchus	<a href="#">Yes</a>
<a href="#">Mattaponi River (0123956)</a>	FESE	010032	FESE	Ib	<a href="#">Sturgeon, Atlantic</a>	Acipenser oxyrinchus	<a href="#">Yes</a>
<a href="#">Mattaponi River (0124030)</a>	FESE	010032	FESE	Ib	<a href="#">Sturgeon, Atlantic</a>	Acipenser oxyrinchus	<a href="#">Yes</a>

To view All 193 Threatened and Endangered Waters records [View 193](#)

Managed Trout Streams

N/A

Bald Eagle Concentration Areas and Roosts

N/A

Bald Eagle Nests ( 25 records )

[View Map of All Query Results](#)

[Bald Eagle Nests](#)

Nest	N Obs	Latest Date	DGIF Nest Status	View Map
<a href="#">KQ0801</a>	2	Apr 26 2008	HISTORIC	<a href="#">Yes</a>
<a href="#">KQ9401</a>	6	Apr 26 2000	HISTORIC	<a href="#">Yes</a>
<a href="#">KW0103</a>	2	May 1 2001	HISTORIC	<a href="#">Yes</a>
<a href="#">KW0201</a>	11	Apr 26 2008	Unknown	<a href="#">Yes</a>
<a href="#">KW0303</a>	10	Apr 26 2008	HISTORIC	<a href="#">Yes</a>
<a href="#">KW7701</a>	4	May 11 1985	HISTORIC	<a href="#">Yes</a>
<a href="#">KW8401</a>	3	May 9 1986	HISTORIC	<a href="#">Yes</a>
<a href="#">KW8501</a>	4	Jan 1 1990	HISTORIC	<a href="#">Yes</a>
<a href="#">KW8801</a>	29	Apr 26 2008	Unknown	<a href="#">Yes</a>
<a href="#">KW9102</a>	11	Jan 1 2002	HISTORIC	<a href="#">Yes</a>
<a href="#">KW9501</a>	4	Apr 24 1996	HISTORIC	<a href="#">Yes</a>
<a href="#">KW9601</a>	10	Apr 24 2000	HISTORIC	<a href="#">Yes</a>
<a href="#">KW9901</a>	16	Apr 26 2008	Unknown	<a href="#">Yes</a>
<a href="#">NK0001</a>	4	Jan 1 2001	HISTORIC	<a href="#">Yes</a>
<a href="#">NK0002</a>	4	Jan 1 2001	HISTORIC	<a href="#">Yes</a>
<a href="#">NK0102</a>	6	Apr 26 2008	Unknown	<a href="#">Yes</a>
<a href="#">NK0201</a>	9	Mar 10 2008	UNKNOWN	<a href="#">Yes</a>
<a href="#">NK0303</a>	8	Apr 26 2008	Unknown	<a href="#">Yes</a>
<a href="#">NK0402</a>	7	Apr 26 2007	HISTORIC	<a href="#">Yes</a>
<a href="#">NK0602</a>	7	Apr 26 2008	Unknown	<a href="#">Yes</a>
<a href="#">NK0706</a>	1	Jan 1 2007	HISTORIC	<a href="#">Yes</a>
<a href="#">NK0801</a>	2	Apr 26 2008	Unknown	<a href="#">Yes</a>
<a href="#">NK9301</a>	1	Jan 1 1993	HISTORIC	<a href="#">Yes</a>
<a href="#">NK9402</a>	16	Jan 1 2002	HISTORIC	<a href="#">Yes</a>
<a href="#">NK9804</a>	17	Apr 26 2008	Unknown	<a href="#">Yes</a>

Displayed 25 Bald Eagle Nests

Habitat Predicted for Aquatic WAP Tier I & II Species ( 1 Reach )

[View Map Combined Reaches from Below of Habitat Predicted for WAP Tier I & II Aquatic Species](#)

Stream Name	Tier Species	View Map
-------------	--------------	----------

<https://vafwis.dgif.virginia.gov/fwis/index.asp>



Site Location

37,30,03.2 -76,55,24.4  
is the Search Point

Show Position Rings

Yes  No  
4 miles and 1 mile at the Search Point

Show Search Area

Yes  No  
2 Search distance miles  
buffer

Display Search Point is not at center  
at center at map center

Base Map Choices

Topography

Map Overlay Choices

Current List: Position, Search, BECAR, BAEANests, TEWaters, TierII, IIhabitat, Trout, Anadromous

Map Overlay Legend

T & E Waters

Federal  
State

Predicted Habitat

WAP Tier I & II

Aquatic  
Terrestrial

Trout Waters

Class I - IV  
Class V - VI

Anadromous Fish Reach

Confirmed  
Potential

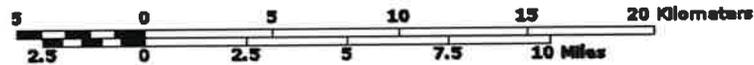
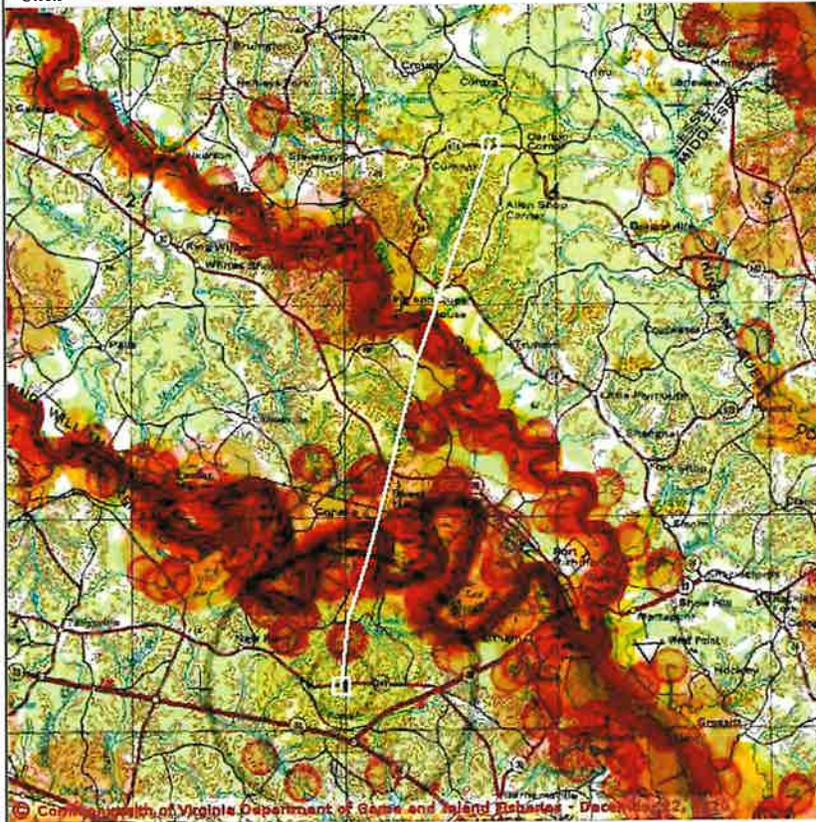
Impediment

Position Rings  
4 miles and 1 mile at the Search Point

2 mile radius Search Area

Bald Eagle Concentration Areas and Roosts

Map Click Map Scale Refresh Browser Page Screen Size Small Size Big Help



Point of Search 37,30,03.2 -76,55,24.4

Map Location 37,36,58.6 -76,53,09.2

Select Coordinate System:  Degrees,Minutes,Seconds Latitude - Longitude

Decimal Degrees Latitude - Longitude

Meters UTM NAD83 East North Zone

Meters UTM NAD27 East North Zone

Base Map source: USGS 1:250,000 topographic maps (see [Microsoft terraServer-usa.com](http://Microsoft.terraServer-usa.com) for details)

Map projection is UTM Zone 18 NAD 1983 with left 314359 and top 4184115. Pixel size is 53. . Coordinates displayed are Degrees, Minutes, Seconds North and West. Map is currently displayed as 600 columns by 600 rows for a total of 360000 pixels. The map display represents 38400 meters east to west by 38400 meters north to south for a total of 1474.5 square kilometers. The map display represents 126005 feet east to west by 126005 feet north to south for a total of 569.5 square miles.

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VaFWIS Map

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I)  
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### Anadromous Fish Use Streams

37,30,03.2 -76,55,24.4 is the Search Point

#### Show Position Rings

Yes  No

4 miles and 1 mile at the Search Point

#### Show Search Area

Yes  No

2 Search distance miles buffer

Display Search Point is not at center at map center

#### Base Map Choices

Topography ▼

#### Map Overlay Choices

Current List: Position, Search, Anadromous

#### Map Overlay Legend

##### Anadromous Fish Reach

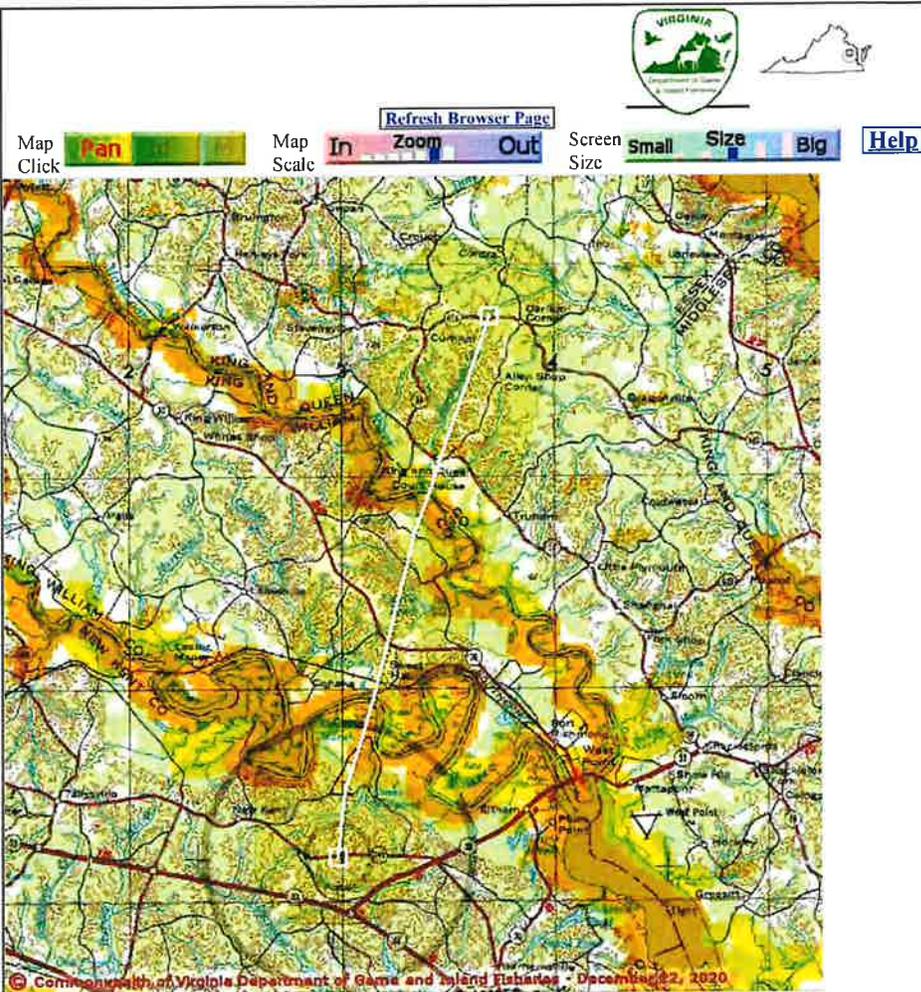
 Confirmed

 Potential

 Impediment

 Position Rings  
4 miles and 1 mile at the Search Point

 2 mile radius Search Area



Point of Search 37,30,03.2 -76,55,24.4

Map Location 37,36,58.6 -76,53,09.2

Select Coordinate System:  Degrees,Minutes,Seconds Latitude - Longitude

Decimal Degrees Latitude - Longitude

Meters UTM NAD83 East North Zone

Meters UTM NAD27 East North Zone

Base Map source: USGS 1:250,000 topographic maps (see [Microsoft terra-server-usa.com](http://Microsoft.terra-server-usa.com) for details)

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**Threatened and Endangered Waters where Sturgeon, Atlantic (010032) observed**

37,30,03.2 -76,55,24.4 is the Search Point

**Show Position Rings**

Yes  No  
4 miles and 1 mile at the Search Point

**Show Search Area**

Yes  No  
2 Search distance miles buffer

Display Search Point is not at center at map center

**Base Map Choices**

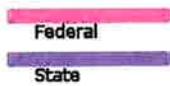
Topography

**Map Overlay Choices**

Current List: Position, Search, TEWaters

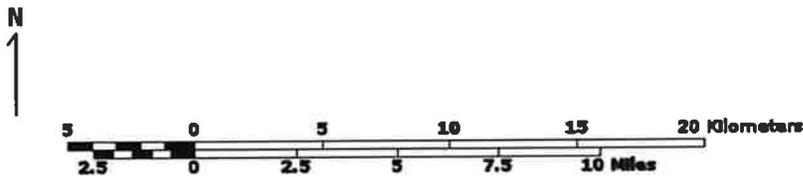
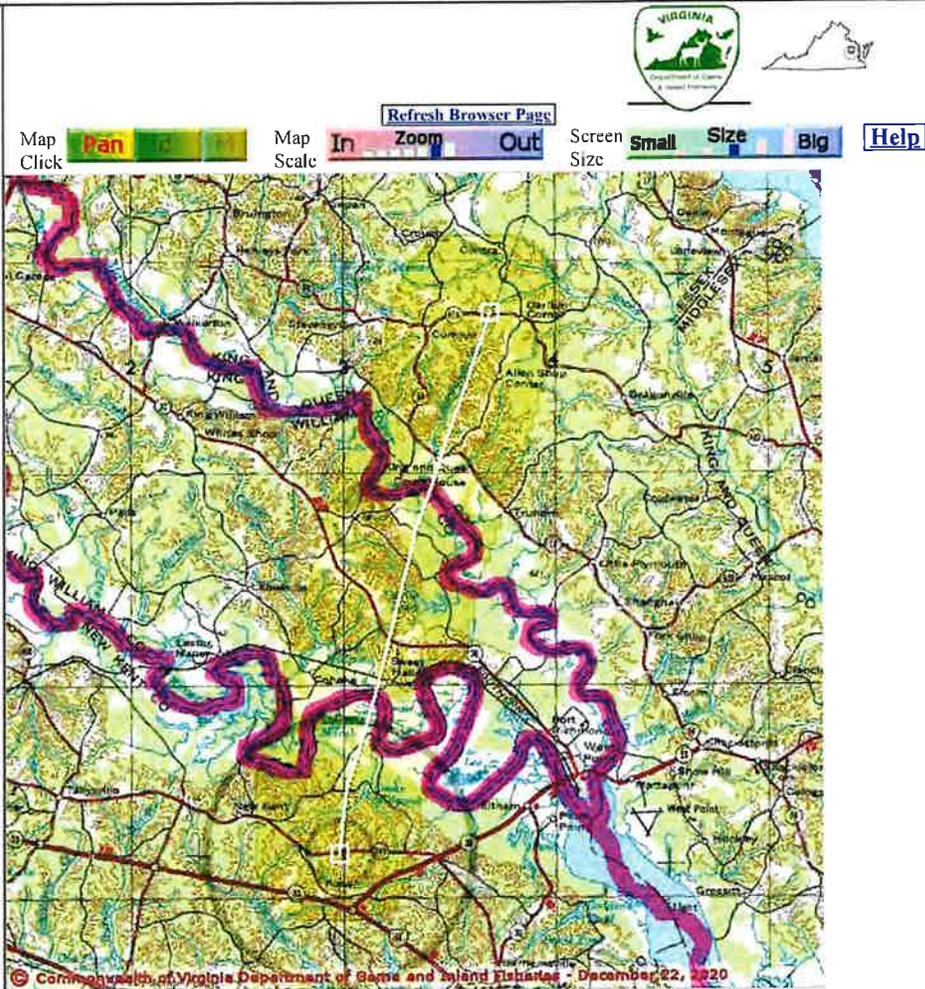
**Map Overlay Legend**

**T & E Waters**



Position Rings 4 miles and 1 mile at the Search Point

2 mile radius Search Area



Point of Search 37,30,03.2 -76,55,24.4

Map Location 37,36,58.6 -76,53,09.2

- Select Coordinate System:
- Degrees, Minutes, Seconds Latitude - Longitude
  - Decimal Degrees Latitude - Longitude
  - Meters UTM NAD83 East North Zone
  - Meters UTM NAD27 East North Zone

Base Map source: USGS 1:250,000 topographic maps (see [Microsoft terraserver-usa.com](http://Microsoft.terraserver-usa.com) for details)

Map projection is UTM Zone 18 NAD 1983 with left 314359 and top 4184115. Pixel size is 53. Coordinates displayed are Degrees, Minutes, Seconds North and West. Map is currently displayed as 600 columns by 600 rows for a total of 360000 pixels. The map display represents 38400 meters east to west by 38400 meters north to south for a total of 1474.5 square kilometers. The map display represents 126005 feet east to west by 126005 feet north to south for a total of 569.5 square miles.

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25 Bald Eagle Nests

37,30,03.2 -76,55,24.4 is the Search Point

Show Position Rings

Yes  No  
4 miles and 1 mile at the Search Point

Show Search Area

Yes  No  
2 Search distance miles buffer

Display Search Point is not at center at map center

Base Map Choices

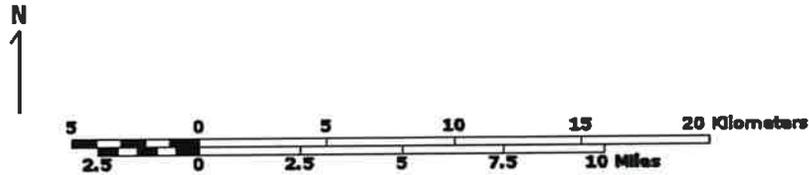
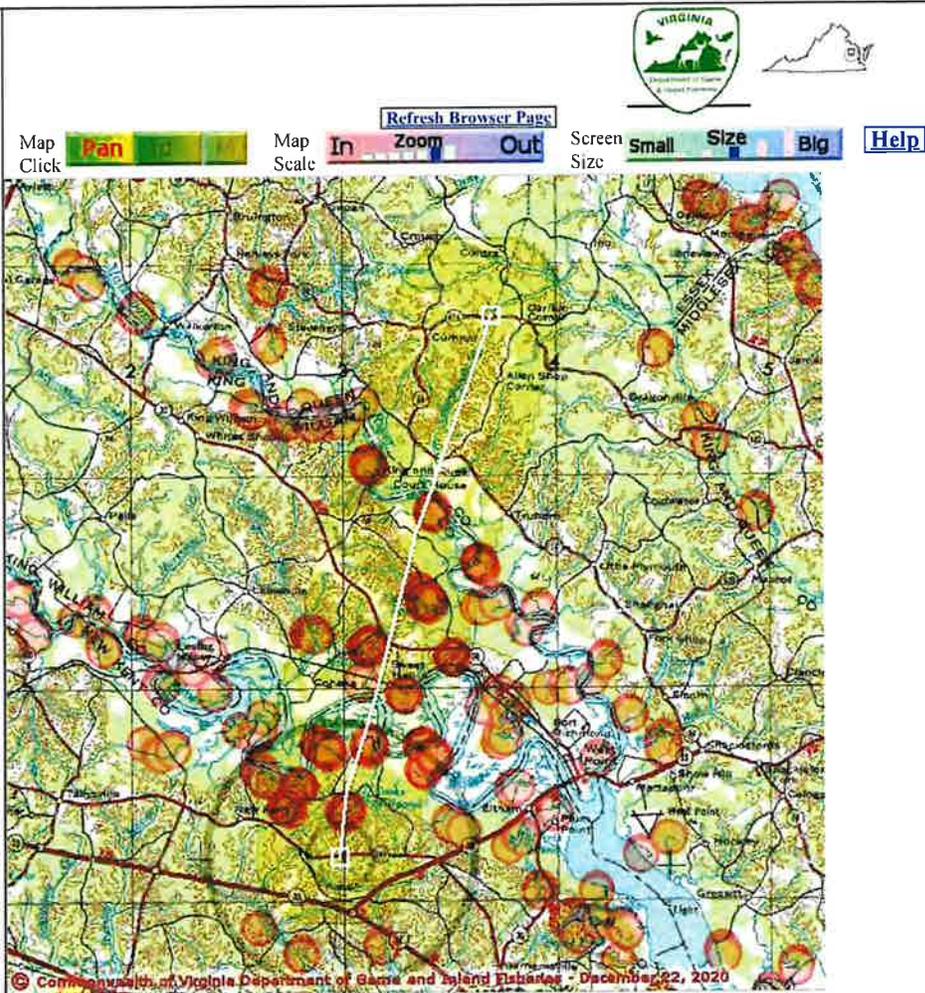
Topography

Map Overlay Choices

Current List: Position, Search, BAEANests

Map Overlay Legend

-  Position Rings 4 miles and 1 mile at the Search Point
-  2 mile radius Search Area
-  Bald Eagle Nests



Point of Search 37,30,03.2 -76,55,24.4

Map Location 37,36,58.6 -76,53,09.2

- Select Coordinate System:
- Degrees, Minutes, Seconds Latitude - Longitude
  - Decimal Degrees Latitude - Longitude
  - Meters UTM NAD83 East North Zone
  - Meters UTM NAD27 East North Zone

Base Map source: USGS 1:250,000 topographic maps (see [Microsoft terraservertusa.com](https://microsoft.terraservertusa.com) for details)

Map projection is UTM Zone 18 NAD 1983 with left 314359 and top 4184115. Pixel size is 53. . Coordinates displayed are Degrees, Minutes, Seconds North and West. Map is currently displayed as 600 columns by 600 rows for a total of 360000 pixels. The map display represents 38400 meters east to west by 38400 meters north to south for a total of 1474.5 square kilometers. The map display represents 126005 feet east to west by 126005 feet north to south for a total of 569.5 square miles.

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### 7 Colonial Water Bird Survey

37,30,03.2 -76,55,24.4 is the Search Point

#### Show Position Rings

Yes  No  
4 miles and 1 mile at the Search Point

#### Show Search Area

Yes  No  
2 Search distance miles buffer

Display Search Point is not at center at map center

#### Base Map Choices

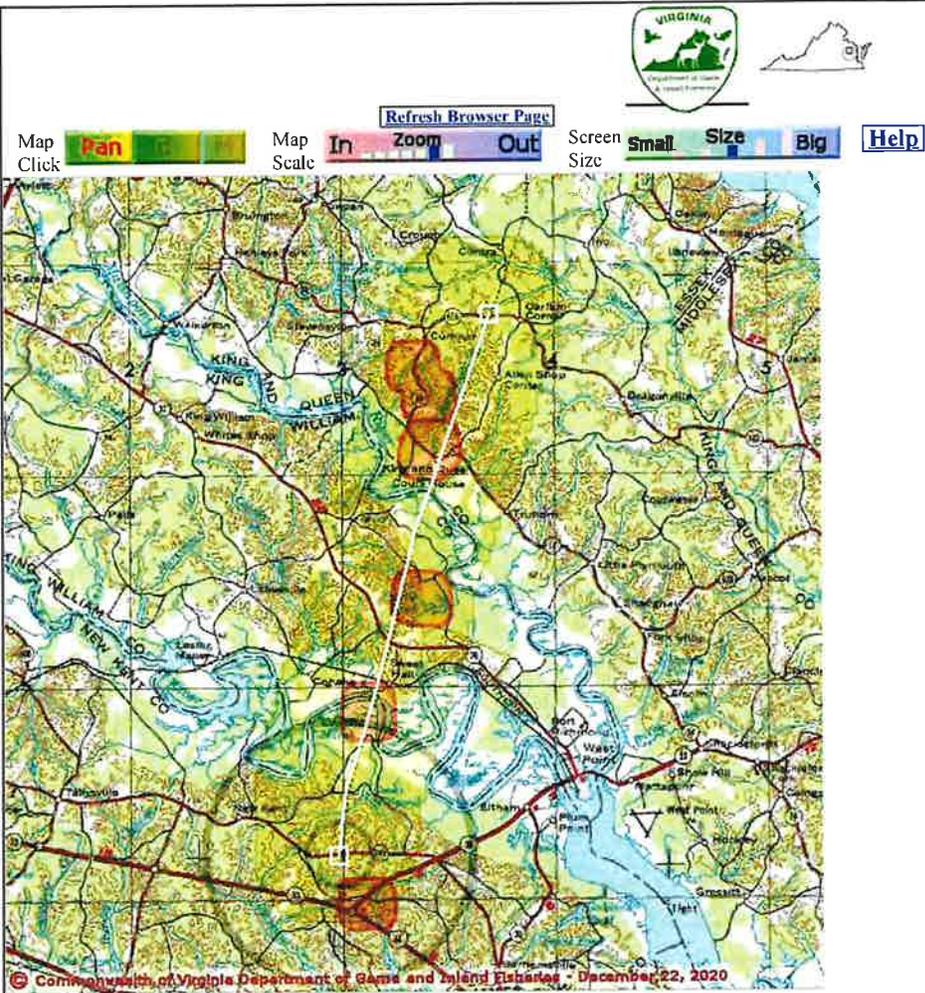
Topography

#### Map Overlay Choices

Current List: Position, Search, CWB

#### Map Overlay Legend

-  Position Rings 4 miles and 1 mile at the Search Point
-  2 mile radius Search Area
-  Data Observation Site



Point of Search 37,30,03.2 -76,55,24.4

Map Location 37,36,58.6 -76,53,09.2

- Select Coordinate System:
- Degrees, Minutes, Seconds Latitude - Longitude
  - Decimal Degrees Latitude - Longitude
  - Meters UTM NAD83 East North Zone
  - Meters UTM NAD27 East North Zone

Base Map source: USGS 1:250,000 topographic maps (see [Microsoft terraserver-usa.com](http://Microsoft.terraserver-usa.com) for details)

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1 Species Observations where Sparrow, Henslow's (040379) observed

37,30,03.2 -76,55,24.4 is the Search Point

Show Position Rings

Yes  No

4 miles and 1 mile at the Search Point

Show Search Area

Yes  No

2 Search distance miles buffer

Display Search Point is not at center

Base Map Choices

Topography

Map Overlay Choices

Current List: Position, Search, SppObs

Map Overlay Legend

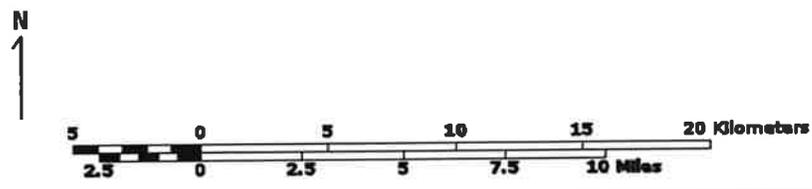
-  Position Rings 4 miles and 1 mile at the Search Point
-  2 mile radius Search Area
-  Data Observation Site

Refresh Browser Page

Map Click  Map Scale   Screen Size    



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Point of Search 37,30,03.2 -76,55,24.4

Map Location 37,36,58.6 -76,53,09.2

Select Coordinate System:  Degrees, Minutes, Seconds Latitude - Longitude

Decimal Degrees Latitude - Longitude

Meters UTM NAD83 East North Zone

Meters UTM NAD27 East North Zone

Base Map source: USGS 1:250,000 topographic maps (see [Microsoft terraServer-usa.com](http://Microsoft.terraServer-usa.com) for details)

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