

Appendix A – Agency Correspondence



Bureau of Ocean Energy Management

Kimberly Q Lanterman (Services - 6)

From: Reeves, Casey [casey.reeves@boem.gov]
Sent: Thursday, January 30, 2014 3:52 PM
To: al.christopher@dm.mc.virginia.gov
Co: Mohy P Plautz (Services - 6); Kimberly Q Lanterman (Services - 6); Byron, Algene D; Trager, Erin C; Sid Falk; Daniel O'Connell; Matzat, Greg; Massaua, Moghar (FELLOW); John.D.Lvans@usace.army.mil; Morin, Michelle; Francois, Dany- K
Subject: VOWTAP RAP Comments
Attachments: EBRF_Sufficiency Review- RAP Comment Matrix_BOEM_01302014.pdf; VOWTAP RAP PCB Comment Matrix 01-302014.pdf; USACE- RE_ [EXTERNAL] VOWTAP Research Activities Plan (UNCLASSIFIED).pdf

Al, et al.,

Please find BOEM's comments on the VOWTAP Research Activities Plan (RAP) and Certified Verification Agent (CVA) nomination attached. In general, the Plan received favorable comments and responses from the Subject Matter Experts who conducted the review. Speaking on my own behalf I believe this document sets a good bar and will serve the project well. That being said, there are some questions and clarifications that can be found in the attached matrices along with a copy of preliminary comments received from the USACE on the main report.

Once the requested revisions and comments within the attached matrices related to the Plan have been addressed BOEM intends on posting the Plan and Appendices to the BOEM website for public information and review, other than those appendices annotated to be withheld (B, N & O). If there is any other information that DMME would like to withhold please let me know. Once the revisions have been made to the RAP BOEM intends to move forward with the NEPA process and further information may be requested in the future.

The comments on the CVA nomination are more specific in nature and we look forward to meeting with both you and them in the near future to fill in any necessary gaps and information requirements. As always feel free to contact me if you have any questions.

BOEM
 Bureau of Ocean Energy Management
 Casey Reeves
 Project Coordinator
 703.787.1672

"How inappropriate to call this planet Earth when it is quite clearly Ocean."
 - Arthur C. Clarke

From: Spangler, Conrad (DMME)
Sent: Wednesday, December 04, 2013 6:29 PM
To: 'darryl.francois@boem.gov'
Cc: Christopher, Al (DMME); 'Casey.Reeves@boem.gov'; 'Michelle.Morin@boem.gov'
Subject: Re: DMME Research Leases -- Update and future activities

Darryl: thank you for letting us know and a special thanks for all the help and direction you, Mo, Casey, Erin and everyone have provided. We appreciate your confidence that Virginia is able to successfully carry-out the proposed activities in the lease areas. We look forward to working with BOEM in the next steps of the process, and the exciting prospects of seeing offshore wind in the U.S. become a physical reality. Please let me know when you see ways we can improve our efforts. Conrad

From: Francois, Darryl [<mailto:darryl.francois@boem.gov>]
Sent: Wednesday, December 04, 2013 05:51 PM
To: Spangler, Conrad (DMME)
Cc: Christopher, Al (DMME); Casey L Reeves <Casey.Reeves@boem.gov>; Morin, Michelle <Michelle.Morin@boem.gov>
Subject: DMME Research Leases -- Update and future activities

Dear Conrad,

I wanted to alert you that the BOEM Determination of No Competitive Interest in the area that the Virginia Department of Mines Minerals and Energy (DMME) proposed for a research lease under 30 CFR 585.238 will be available in the Federal Register reading room on Friday, December 6, 2013, and officially published the following Monday. I look forward to working with you and your staff to process both of DMME's research lease applications.

As the Bureau of Ocean Energy Management (BOEM) and DMME, as the potential lessee, proceed through the regulatory process for the proposed research leases, it is imperative that DMME directly initiate and be present at any meetings (either in person or remote) with BOEM staff that discuss proposed research activities or the content of proposed plans to conduct those activities.

In addition, as the entity legally qualified to hold these research leases, any formal written communication or submittal of plans concerning them must be provided under the auspices of DMME and your signature as the authorized representative of DMME. Casey Reeves remains the BOEM primary point of contact for DMME, and will keep our lease administration, environmental and engineering staff informed and involved as we proceed.

Sincerely,

Darryl

Darryl K. Francois
Chief Projects and Coordination Branch

Lavallee, Janelle

From: Kimberly Q Lanterman (Services - 6) <kimberly.q.lanterman@dom.com>
Sent: Tuesday, December 03, 2013 9:12 AM
To: Daniels, Jennifer; Lavallee, Janelle
Subject: VOWTAP Research Activities Plan - Confirmation Email from BOEM
Attachments: Draft_Schedule_VA_ResearchLease2_111413.pdf

Importance: High

Follow Up Flag: Follow up
Flag Status: Flagged

From: Bornholdt, Maureen <maureen.bornholdt@boem.gov>
Date: Mon, Dec 2, 2013 at 12:44 PM
Subject: Re: DMME Research Activities Plan
To: Conrad Spangler@dmme.virginia.gov, "Christopher, Al (DMME)" <Al.Christopher@dmme.virginia.gov>
Cc: Darryl K Francois <Darryl.Francois@boem.gov>, Michelle Morin <Michelle.Morin@boem.gov>

Conrad and Al,

I appreciate the time that you took after the Fugro briefing to work through the Research Lease #2 process. Your understanding is correct with the following refinements:

- Filing two plans (RAPs) is acceptable. For clarity instead of calling them both "RAPs," let's agree to call the "RAP" covering the installation of the meteorological facilities a SAP. That SAP must include the information requirements found at 585.610 and 611. We will process the SAP, as agreed to at our meeting, following the process at 585.613.
- With the exception of required consultations under Section 106 of the National Historic Preservation Act, no additional consultations will be required if the activities proposed in your SAP fall within the range of activities analyzed in previous consultations. BOEM will evaluate your SAP to determine whether the activities proposed are covered by the Mid Atlantic EA (see process outlined on the Gantt chart provided a few weeks ago (attached)). If they are, no additional NEPA analysis will be required and BOEM will document its review in a Determination of NEPA Adequacy. However, pursuant to BOEM's Section 106 Programmatic Agreement, a Finding of No Historic Properties Affected (Finding) must be prepared upon receipt of the SAP; consulting parties would have 30 days to review the Finding. That said, we believe we can complete the SAP review and Section 106 consultation in the Spring.
- The RAP describing the technology demonstration (turbine and cable installation) must meet the information requirements of 585.626 and 585.627. We will begin our completeness review of that document as soon as it is received.
- The concurrent processing of the two plans, SAP and RAP, will not negatively affect each other.

Also, the publication of the DNCI is imminent—perhaps in the Federal Register's Reading Room later this week.

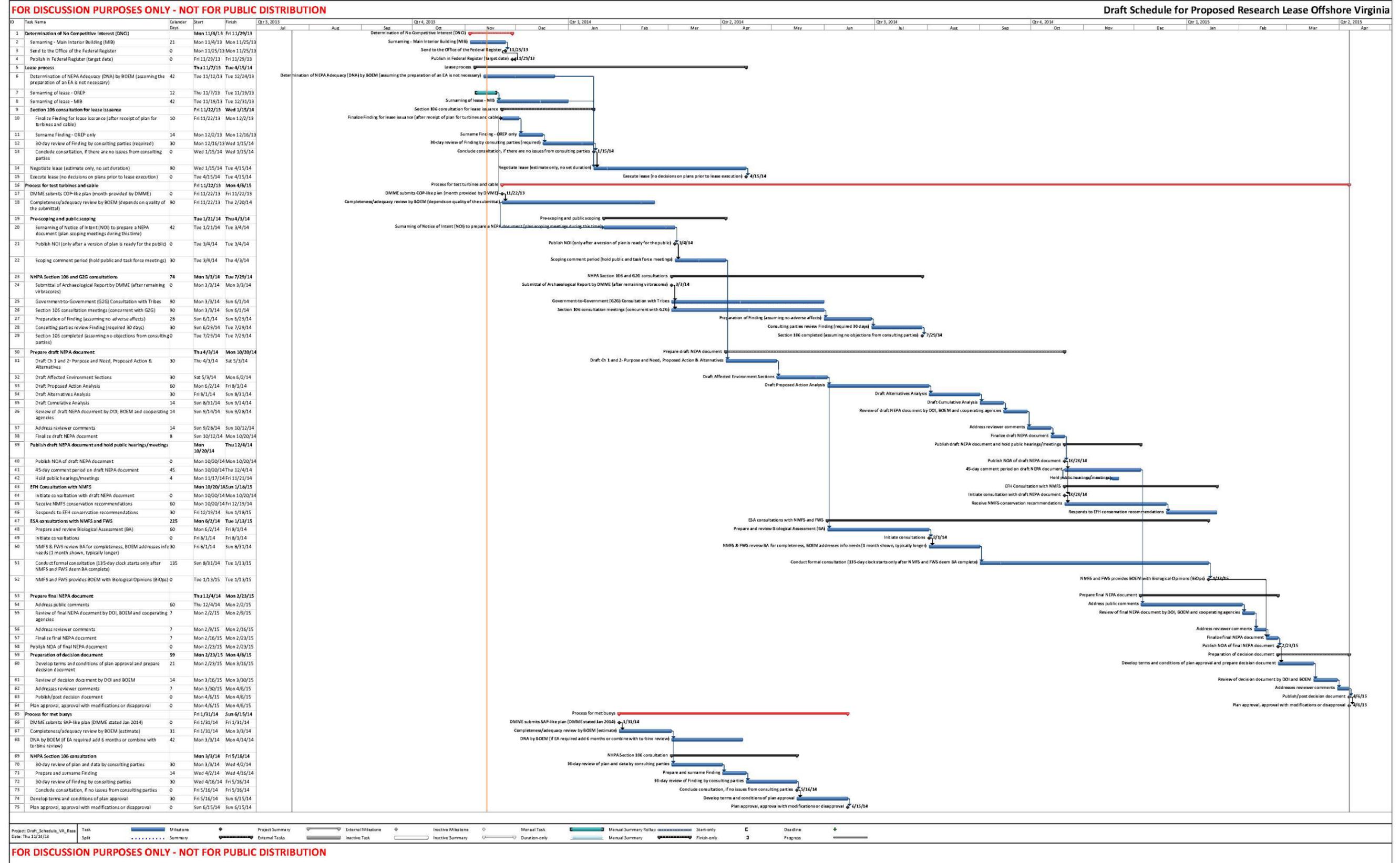
If you have any questions, please do not hesitate to contact me or Darryl at 703.787.1300.

Again, I appreciate your time and look forward to receiving the plans.

Mo

—

Maureen "Mo" Bornholdt
Program Manager
Office of Renewable Energy
Bureau of Ocean Energy Management
381 Elden Street HM 1328
Herndon, Virginia 20170



From: Spangler, Conrad (DMME)

Sent: Wednesday, December 04, 2013 6:29 PM

To: 'darryl.francois@boem.gov'

Cc: Christopher, Al (DMME); 'Casey.Reeves@boem.gov'; 'Michelle.Morin@boem.gov'

Subject: Re: DMME Research Leases -- Update and future activities

Darryl: thank you for letting us know and a special thanks for all the help and direction you, Mo, Casey, Erin and everyone have provided. We appreciate your confidence that Virginia is able to successfully carry-out the proposed activities in the lease areas. We look forward to working with BOEM in the next steps of the process, and the exciting prospects of seeing offshore wind in the U.S. become a physical reality. Please let me know when you see ways we can improve our efforts.

Conrad

From: Francois, Darryl [mailto:darryl.francois@boem.gov]

Sent: Wednesday, December 04, 2013 05:51 PM

To: Spangler, Conrad (DMME)

Cc: Christopher, Al (DMME); Casey L Reeves <Casey.Reeves@boem.gov>; Morin, Michelle <Michelle.Morin@boem.gov>

Subject: DMME Research Leases -- Update and future activities

Dear Conrad,

I wanted to alert you that the BOEM Determination of No Competitive Interest in the area that the Virginia Department of Mines Minerals and Energy (DMME) proposed for a research lease under 30 CFR 585.238 will be available in the Federal Register reading room on Friday, December 6, 2013, and officially published the following Monday. I look forward to working with you and your staff to process both of DMME's research lease applications.

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activities.

In addition, as the entity legally qualified to hold these research leases, any formal written communication or submittal of plans concerning them must be provided under the auspices of DMME and your signature as the authorized representative of DMME. Casey Reeves remains the BOEM primary point of contact for DMME, and will keep our lease administration, environmental and engineering staff informed and involved as we proceed.

Sincerely,

Darryl

Darryl K. Francois

Chief Projects and Coordination Branch

Office of Renewable Energy Programs

Bureau of Ocean Energy Management

703-787-1305

703-787-1708 (FAX)

darryl.francois@boem.gov

<http://emailcharter.org/>

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United States Department of Defense



ACQUISITION,
TECHNOLOGY
AND LOGISTICS

OFFICE OF THE UNDER SECRETARY OF DEFENSE
3400 DEFENSE PENTAGON
WASHINGTON, DC 20301-3400

24 December 2013

Suzanne Johnson
Capitol Airspace Group
5400 Shawnee Road, Suite 304
Alexandria, VA 22312
suzanne.johnson@capitolairspace.com

Dear Ms. Johnson:

As requested, the Department of Defense (DoD) Siting Clearinghouse coordinated within DoD an informal review of the Dominion Resources, Inc. proposed project. The results of our informal review indicated that the two wind turbine Virginia Offshore Wind Technology Advancement Project (VOWTAP), located approximately 26 miles east of Virginia Beach, Virginia, as proposed, will have minimal impact on military training, operations and testing conducted in this area.

Please note that this informal review by the DoD Siting Clearinghouse does not constitute an action under 49 United States Code section 44718 and that neither the DoD nor the Secretary of Transportation are bound by the conclusion arrived at under this informal review. Please call me at 703-571-0076 with any questions.

Sincerely,

A handwritten signature in black ink, appearing to read "SJS", written over a light blue background.

Steven J. Sample
Chief, Mission Evaluation Branch
DoD Siting Clearinghouse

United States Department of Energy

From: Ring, Bradley [<mailto:brad.ring@go.doe.gov>]

Sent: Friday, April 19, 2013 10:58 AM

To: Kimberly Q Lanterman (Services - 6); Matzat, Greg; Mauer, Erik; Guy Chapman (Services - 6); Molly P Plautz (Services - 6); Gray, Lori; Margason, Laura; Daigle, Kelly

Subject: Dominion Award EE0005985 Avian and Bat Surveys

Guy, Molly and Kimberly,

In follow up to our discussions this week regarding your plans to initiate non-invasive avian and bat survey plans, your NEPA officers agree that these activities are approved within your NEPA determination.

We ask that you ensure you comply with the terms of this NEPA determination in that all field studies under subtask 3.4 be designed in conformance with applicable requirements and best management practices to limit the potential effects of any resultant ground disturbance. To avoid harassment to marine mammals during boat based passive visual observations, VEPC is required to follow best management practices for boating under NOAA regulations for the Northeast region.

Please let us know if you have any questions.

Thank you,

Brad Ring

U.S. Department of Energy

Golden Field Office

Office: 720-356-1768

Fax: 303-275-4753

brad.ring@go.doe.gov

National Oceanic and Atmospheric Administration

From: David O'Brien - NOAA Federal [mailto:david.l.o'brien@noaa.gov]
Sent: Thursday, June 13, 2013 2:20 PM
To: Kimberly Q Lanterman
Cc: Hooker, Brian; Reeves, Casey; al.christopher@dmme.virginia.gov; Guy Chapman; Molly P Plautz; Miller, Kathleen; Hall, Callie
Subject: Re: VOWTAP Recommended Sediment Sample Locations & Updated Marine Survey Milestone Schedule

Hello Kim,

I have reviewed the proposed benthic grab sample locations you provided and discussed with Brian Hooker moving one of them in order to collect a sample within a swale of the sand ridge complex. Therefore, NOAA Fisheries concurs with Brian's recommendation to relocate GS-002 into a swale of the sand ridge complex in order to better characterize this habitat. Thank you for the opportunity to review the sample locations and please contact me if you have any questions.

Regards,

Dave

David L. O'Brien

Fisheries Biologist

NOAA Fisheries Service

1375 Greate Rd.

P.O. Box 1346

Gloucester Point, VA 23062

804-684-7828 phone

804-684-7910 fax

david.l.o'brien@noaa.gov

On Thu, Jun 13, 2013 at 1:25 PM, Kimberly Q Lanterman <kimberly.q.lanterman@dom.com> wrote:

Brian – Thank you so much for reviewing and getting us a quick response. We really appreciate it. We will pass the information along to the folks that will be conducting the benthic sampling. We will also let you know if there are any questions or feedback regarding your recommendations.

Kim

From: Hooker, Brian [mailto:brian.hooker@boem.gov]

Sent: Thursday, June 13, 2013 1:18 PM

To: Kimberly Q Lanterman (Services - 6)

Cc: David O'Brien - NOAA Federal; Reeves, Casey; al.christopher@dmme.virginia.gov; Guy Chapman (Services - 6); Molly P Plautz (Services - 6); Miller, Kathleen; Hall, Callie

Subject: Re: VOWTAP Recommended Sediment Sample Locations & Updated Marine Survey Milestone Schedule

Kim et al, attached is my recommendation for the movement of GS-002 to the northwest to sample a swale area between sand ridges. I noted three different possible locations, I am not recommending 3 additional locations. I believe GS-004 will cover the same benthic habitat type as GS-002 would have. My rationale for the change is that swales have greater benthic macrofaunal density, species richness, and biomass due, in part, to the increased abundance of detrital food and the physically less rigorous conditions (NMFS 2004).

Thanks for the opportunity to review and please let me know if you have any questions.

Sincerely,

Brian

National Marine Fisheries Service (NMFS). 2004. Characterization of the Fishing Practices

and Marine Benthic Ecosystems of the Northeast U.S. Shelf, and an Evaluation of the Potential Effects of Fishing on Essential Fish Habitat. NOAA Technical Memorandum NMFS-NE-181.

On Mon, Jun 10, 2013 at 5:47 PM, Kimberly Q Lanterman <kimberly.q.lanterman@dom.com> wrote:

Hello Dave and Brian - I apologize for getting this information to you so late today. Attached please find the recommended benthic grab sample locations for VOWTAP in both image and pdf formats. The sediment sampling effort is overlaid on the bathymetry and sidescan sonar data. All samples will be tested for benthic, TOC, grainsize, and moisture/water content. A pdf of the survey area is also attached that includes a north arrow and aliquot identification numbers to assist you with orienting yourselves to the site.

We would appreciate your review and comment/concurrence on the proposed sample locations. We would appreciate your feedback ASAP, but no later than Thursday (June 13th), since the current schedule to commence the seismic surveys is Friday, June 14th .

The current plan, as indicated in the attached updated milestone schedule, is to collect benthic grab samples at night while running the boomer/bubble pulser during the day (pursuant to regulatory requirement to run seismic equipment during daylight hours only).

If you have any questions regarding this information, please let us know. We look forward to hearing from you by Thursday. Thanks in advance for your assistance!

Have a nice day!

Kim Lanterman

Dominion Resources

Environmental Business Support

Email: Kimberly.O.Lanterman@dom.com

Office: [803-273-3051](tel:803-273-3051)

Mobilw: [803-516-0949](tel:803-516-0949)

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--

Brian R. Hooker

Marine Biologist

[Bureau of Ocean Energy Management](#)

Office of Renewable Energy Programs

Herndon, Virginia

[703-787-1634](tel:703-787-1634)

[571-393-4359](tel:571-393-4359) (mobile)

[703-787-1708](tel:703-787-1708) (fax)

United States Fish and Wildlife Service

From: Troy Andersen <troy_andersen@fws.gov>
Date: April 26, 2013, 11:07:50 AM EDT
To: "Kimberly Q Lanterman (Services - 6)" <kimberly.q.lanterman@dom.com>
Subject: RE: Revised Wildlife Assessment Plan and Response to Agency Comments Document for the Virginia Offshore Wind Technology Advancement Project (VOWTAP)

Kim – received, reviewed and appreciate of the additional survey in May 2013.

Thanks,
Troy

Troy M. Andersen

Endangered Species/Conservation Planning Assistance Supervisor

USFWS – Virginia Field Office

Phone: 804-693-6694 Ext. 166

Mobile: 804-654-9235

Visit us at: <http://www.fws.gov/northeast/virginiafield/>

From: Kimberly Q Lanterman [mailto:kimberly.q.lanterman@dom.com]
Sent: Tuesday, April 23, 2013 1:42 PM
To: 'Reeves, Casey'; 'troy_andersen@fws.gov'; 'Aschenbach, Ernie (DGIF)'
Cc: 'Miller, Kathleen'; 'Daniels, Jennifer'; 'Svedlow, Aaron'; 'Matzat, Greg'; 'Ring, Bradley (GO)'; 'Mauer, Erik'; 'Christopher, Al (DMME)'; Guy Chapman; Molly P Plautz
Subject: Revised Wildlife Assessment Plan and Response to Agency Comments Document for the Virginia Offshore Wind Technology Advancement Project (VOWTAP)
Importance: High

Hello Everyone – Please find attached a revised version of the Wildlife Assessment Plan (WAP) and a Response to Agency Comments document for the VOWTAP. We have addressed all the agency comments received on the draft WAP. If you have any additional comments on the attached WAP, please let us know asap. We plan to commence the avian surveys on April 29, 2013.

Please share the revised WAP with others in your organization. If you can acknowledge your receipt and acceptance of the revised WAP by April 26, 2013, via email, we would greatly appreciate it. Thanks for your assistance!

Kim Lanterman

Manager, Environmental

Dominion Resources, Inc.

Office: 804-273-3051

Mobile: 804-516-0949

Email: Kimberly.Q.Lanterman@dom.com

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United States Army Corps of Engineers

Dominion Resources Services, Inc.
5900 Dominion Boulevard, Glen Allen, VA 23060
Web Address: www.dominion.com



April 23, 2013

Mr. John Evans
Regulatory Wind Energy Project Manager
U.S. Army Corps of Engineers
Norfolk District Office – Regulatory Branch
803 Front Street
Norfolk, Virginia 23510

**RE: Preconstruction Notification (PCN): Nationwide Permit 6, Survey Activities
Virginia Offshore Wind Technology Advancement Project (VOWTAP) Marine
Surveys**

Dear Mr. Evans,

Dominion Resources, Inc. (Dominion) is proposing site characterization survey activities to support the Virginia Offshore Wind Technology Advancement Project (VOWTAP), a two turbine (12 megawatts) offshore wind demonstration Project proposed in state and federal waters off the coast of Virginia Beach, Virginia. These surveys will be performed in compliance with the U.S. Army Corps of Engineers' currently authorized Nationwide Permit (NWP) 6 for Survey Activities and in compliance with the associated NWP 6 Regional and General Conditions.

The proposed site characterization activities are described in the following marine survey plans prepared for the VOWTAP and submitted to the U.S. Army Corps of Engineers (USACE) and other regulatory agencies electronically on April 12, 2013 (and attached):

- Geophysical and Shallow Geotechnical Survey Plan;
- Benthic Survey Plan; and
- Survey Plan for Marine Archeological Resources Assessments

Dominion is performing these site characterization activities to support regulatory filings required to support issuance of an offshore research lease from the federal Bureau of Ocean Energy Management (BOEM) and for the filing of a General Activities Plan (GAP) with BOEM. The proposed survey activities will be performed in compliance with BOEM Guidelines as specified in the above-referenced Survey Plans. In addition, the proposed survey activities were evaluated in the BOEM *Final Environmental Assessment (FA) for Commercial Wind Lease Issuance and Site Assessment Activities on the Atlantic Outer Continental Shelf Offshore New Jersey, Delaware, Maryland, and Virginia* dated January 2012 (OCS EIS/EA BOEM 2012-003), which evaluated the cumulative effects of performing these same site characterization activities in support of commercial-scale wind energy

Classification: UNCLASSIFIED

Caveats: DNODS and Transmission corridor.

Kathleen:

Thanks for asking!

Please see my attached PDF that shows a revised line adjustment. My written description may not have been as clear as needed, as the intent was to describe a line crossing inside cells 2 and 5, away from (i.e. north of) the boundary of cells 3 and 6.

Sincerely,

John

=====
The Norfolk District is committed to providing the highest level of support to the public. In order for us to better serve you, we would appreciate you completing our Customer Satisfaction Survey located at <http://per2.nwp.usace.army.mil/survey.html>. We value your comments and appreciate your taking the time to complete the survey.

-----Original Message-----

From: Miller, Kathleen [<mailto:Kathleen.Miller@tetrattech.com>]

Sent: Friday, April 12, 2013 3:02 PM

To: Evans, John D NAO; Welz, Nick

Cc: Daniels, Jennifer; Kimberly.Q.Lanterman@dom.com; guy.chapman@dom.com; Molly P Plautz (molly.p.plautz@dom.com)

Subject: DNODS and Proposed VOWTAP Subsea Transmission Cable (UNCLASSIFIED)

Hi John,

Thanks very much for the information below regarding the planned use of the Dam Neck Ocean Disposal Site (DNODS) by the U.S. Army Corps of Engineers (USACE) and your recommendations to avoid future conflicts associated with projects that may pursue borrowing/dredging sands.

In response to your feedback, Tetra Tech has coordinated with Dominion Resources and the VOWTAP team and have adjusted the proposed subsea cable route for the VOWTAP so that it is now proposed north of the line between cells 2&5 and 3&6 of the DNODS, as you recommended (please see attached figure).

We would greatly appreciate your confirmation that this cable route adjustments adequately addresses your concerns with regard to potential future conflicts with use of the DNODS and installation of the VOWTAP offshore cable route in this location. We sincerely appreciate your efforts in assisting us to locate the proposed cable route in the least-constrained location.

Your prompt response would be very much appreciated as we are finalizing plans for marine surveys this week and will be communicating with regulatory agencies (including the USACE) on these surveys over the next couple of weeks.

Respectfully Submitted,

Kathleen R. Miller | Senior Energy Consultant

Direct: 207.893.1262 | Cell: 207.409.9738 | Portland: 207.879.9496 | Boston: 617.443.7500 | Fax: 617.737.3480 |

kathleen.miller@tetrattech.com

Tetra Tech | Energy Programs

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-----Original Message-----

From: Evans, John D NAO [<mailto:John.D.Evans@usace.army.mil>]

Sent: Thursday, March 28, 2013 2:56 PM

To: Welz, Nick

Cc: Daniels, Jennifer; Miller, Kathleen

Subject: DNODS and transmission corridor. (UNCLASSIFIED)

Classification: UNCLASSIFIED

Caveats: DNODS and Transmission corridor.

Nick:

Per the DNODS SMMP zones 1, 3, and 4 are set aside for placement of sands. DNODS zones 2, 5, 6, and 7 are designated for finer material. We currently use Cells 1, 2, and 5 depending on the physical characteristics of the dredged material being placed. Cells 3, 4, 6, and 7 will be used in out-years. It is possible that in the future a project may pursue borrowing/dredging sands that have been or will be placed in DNODS zones 1, 3, and 4.

To avoid potential future conflicts I would recommend the transmission route alignment be located through zones 2 & 5, north of the border between zones 2 & 5 to the north and 3 & 6 to the south.

To my knowledge there are currently no projects proposing sand borrow in these DNODS zones. However, as sand resources become more limited and/or regulatory

environment becomes more constraining these areas may be viable alternatives as a sand source (i.e. dredging).

Hope this helps,

John

=====

The Norfolk District is committed to providing the highest level of support to the public. In order for us to better serve you, we would appreciate you completing our Customer Satisfaction Survey located at <http://per2.nwp.usace.army.mil/survey.html>. We value your comments and appreciate your taking the time to complete the survey.

-----Original Message-----

From: Welz, Nick [<mailto:Nick.Welz@tetrattech.com>]

Sent: Monday, March 18, 2013 2:11 PM

To: Evans, John D NAO

Cc: Daniels, Jennifer; Miller, Kathleen

Subject: RE: Electronic Copy of VOWTAP Interagency Kick-off Meeting Letter (UNCLASSIFIED)

John,

Thank you again for the information below and for your continued cooperation. While we look forward to meeting Tom or Peter in Norfolk next week, we're sorry that we won't see you in person. Maybe next time.

In the interest of assisting you as you gather input from your colleagues, we wanted to provide you with the attached image from the 2009 Dam Neck ODS Site Management and Monitoring Plan. This image divides the DNODS into 7 smaller areas within the larger polygon. As you know, our transmission route crosses the DNODS on a generally east/west bearing near the border between zones 2 & 5 to the north and 3 & 6 to the south - ~16,000 feet south of the northern border.

We were hoping that you or your colleagues might have some specific information about these smaller, sub-areas such as their current status, future capacities, planned work schedules etc... Also, I wonder if it might be best for the VOWTAP route to follow the boundary line between zones more precisely? Again, our overriding concern is that we might survey a transmission route in the coming weeks and subsequently learn that area X cannot be traversed by a cable because of conditions X, Y & Z. That, as you know, would require the re-mobilization of a second survey and would impact both the project's budget and overall schedule.

We realize that perhaps this level of detailed review normally takes place after you receive an application for an individual permit. In this case, however, with marine survey mobilizing so soon, we hope that you can assist as soon as possible. Thank you in advance and we look forward to your reply.

Nicholas G. Welz | Senior Marine Scientist

Direct 617.443.7539 | Business 617.443.7500 | Fax 617.737.3480 | Mobile 781.789.2837

Nick.Welz@tetrattech.com

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-----Original Message-----

From: Miller, Kathleen
Sent: Thursday, March 14, 2013 9:35 AM
To: Evans, John D NAO
Cc: Welz, Nick; Daniels, Jennifer
Subject: RE: Electronic Copy of VOWTAP Interagency Kick-off Meeting Letter (UNCLASSIFIED)

Excellent! Thanks very much John.

Kathleen R. Miller | Senior Energy Consultant
Direct: 207.893.1262 | Cell: 207.409.9738 | Portland: 207.879.9496 | Boston: 617.443.7500 | Fax: 617.737.3480 | kathleen.miller@tetrattech.com

Tetra Tech | Energy Programs
451 Presumpscot Street | Portland, ME 04103 | www.tetrattech.com
160 Federal Street 3rd Floor | Boston, MA 02110 | www.tetrattech.com PLEASE
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P Think Green - Not every email needs to be printed.

-----Original Message-----

From: Evans, John D NAO [<mailto:John.D.Evans@usace.army.mil>]
Sent: Thursday, March 14, 2013 9:26 AM
To: Miller, Kathleen
Subject: FW: Electronic Copy of VOWTAP Interagency Kick-off Meeting Letter (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: VOWTAP Kick-off Meeting 25 March

Kathleen:

Here are some comments that I sent to Dominion, and they do apply to the upcoming G&G work. Please forward to Nick Wells, as I don't have his email address. I am still waiting on District and EPA preliminary comments about crossing the DNODS with the transmission line.

Best Wishes,

John

=====

The Norfolk District is committed to providing the highest level of support to the public. In order for us to better serve you, we would appreciate you completing our Customer Satisfaction Survey located at <http://per2.nwp.usace.army.mil/survey.html>. We value your comments and appreciate your taking the time to complete the survey.

-----Original Message-----

From: Evans, John D NAO
Sent: Wednesday, March 13, 2013 10:00 AM
To: 'Kimberly Q Lanterman'; Walker, Tom NAO
Cc: Darrow, Michael R. NAO; Kube, Peter R NAO; Cathie France (Cathie.France@dmme.virginia.gov)
Subject: RE: Electronic Copy of VOWTAP Interagency Kick-off Meeting Letter (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: VOWTAP Kick-off Meeting 25 March

Kim:

Thank you for the invitation to the VOWTAP Interagency meeting on 25 March at the Half Moone Center from 11 AM to 2 PM. While I do not believe that I can attend due to prior travel commitments, I do trust that Tom or Peter, my Regulatory Section Chief, will be able to participate in my absence.

As we have noted in prior discussions, the pilot project does not appear to meet the criteria to use Nationwide Permit 52 (NWP-52) (Water based wind energy pilot projects) due to project duration and existing conditions within the proposed transmission corridor. As such, an individual permit will be required and that process could take a minimum of four months -- depending in part on public and agency comments to our public notice of the permit application.

In that BOEM would appear to be the lead federal agency to lease the research aliquots and transmission corridor, and to conduct the associated coordination regarding navigation, national security, endangered species, historic resources, and other maritime interests; I would expect that all matters associated with the Corps permit would be addressed and resolved before the submission of a permit application.

With regards to the site characterization activities, also known as Geological and Geophysical Activities (G&G), a Corps permit would be required only for the discharge of dredged or fill materials within 3 miles of shore, or structures attached to the bottom, out to the limits of the continental shelf. I believe that VOWTAP G&G activities will meet the criteria of Nationwide

Permit 6 (NWP-6) (Survey activities), but caution that endangered species are present in the project area, that the Endangered Species Act (ESA) requires consultation, and that ESA consultation must be completed before using NWP-6. As BOEM has completed an assessment of the effect of G&G activities, including ESA consultation, I would not expect any ESA delay as long as the G&G activities comply with BOEM conditions for G&G activities.

Again, we appreciate this opportunity for early coordination and look forward to participation at the kickoff meeting.

Best Wishes,

John

=====
The Norfolk District is committed to providing the highest level of support to the public. In order for us to better serve you, we would appreciate you completing our Customer Satisfaction Survey located at <http://per2.nwp.usace.army.mil/survey.html>. We value your comments and appreciate your taking the time to complete the survey.

-----Original Message-----

From: Kimberly Q Lanterman [<mailto:kimberly.q.lanterman@dom.com>]
Sent: Wednesday, March 13, 2013 8:47 AM
To: Walker, Tom NAO
Cc: Evans, John D NAO
Subject: Electronic Copy of VOWTAP Interagency Kick-off Meeting Letter
Importance: High

Hello Mr. Walker - I am sending you an upfront, electronic copy of a letter (with attachments) inviting you to an interagency kickoff meeting for the Virginia Offshore Wind Technology Advancement Project (VOWTAP). You will also be receiving a hard copy of this letter within the next couple of days. Information on the project and the interagency kickoff meeting is contained in the letter. We hope you and/or someone from your team will be able to attend the meeting to help kick off this exciting offshore wind demonstration project. If you have any questions or would like additional information, please let me know. Thanks.

Kim Lanterman
Manager, Environmental
Dominion Resources, Inc.
Office: 804-273-3051
Mobile: 804-516-0949
Email: Kimberly.Q.Lanterman@dom.com

From: "Evans, John D NAO" <John.D.Evans@usace.army.mil>
Date: May 15, 2013, 2:58:25 PM EDT
To: "Kimberly Q Lanterman (Services - 6)" <kimberly.q.lanterman@dom.com>, "Miller, Kathleen" <Kathleen.Miller@tetrattech.com>
Cc: 'David O'Brien - NOAA Federal' <david.i.o'brien@noaa.gov>, 'Troy Andersen' <troy_andersen@fws.gov>, "'Aschenbach, Ernie (DGIF)'" <Ernie.Aschenbach@dgif.virginia.gov>, "Kube, Peter R NAO" <Peter.R.Kube@usace.army.mil>
Subject: RE: Pre-Construction Notification (PCN) for Nationwide Permit 6, Survey Activities - VOWTAP Marine Surveys (UNCLASSIFIED)

Classification: UNCLASSIFIED

Caveats: VOWTAP NWP-6 Verification

Kim and Kathleen:

The VOWTAP "Marine Survey" consists primarily of Geological and Geophysical (G&G) activities. As such, most G&G actions do not constitute a discharge of dredged or fill material and therefore do not require a Corps Section 10 and/or Section 404 permit. Where there are Corps regulated activities, such as sediment sampling, Nationwide Permit 6 (NWP-6) may authorize those survey activities that have minimal adverse environmental impact. NWP-6 is normally "non-reporting". That is, if the survey activity meets the terms and conditions of the NWP, then the activity may proceed without Corps notification. However, where endangered species may be present, the permit applicant must provide pre-construction notification (PCN) to the Corps and cannot proceed until we determine and notify the applicant that the activity will have "no effect" on endangered species; or we complete endangered species consultation.

The VOWTAP bottom disturbing/bottom contact activities are the only activities that require Section 10 and/or Section 404 authorization. The bottom impacts are limited to grab samples, vibracores, and cone penetration tests at the proposed turbine locations. These survey activities are of such minimal impact that they clearly meet the terms and conditions for NWP-6. Further, as the bottom disturbing activities are so inconsequential, we have determined that they will have no effect on any endangered sea turtle, whale, sturgeon, or any other listed species that might be present in the vicinity of the bottom disturbance. Therefore, this digitally signed email is our verification that the proposed bottom disturbance activities of the VOWTAP Marine Survey are permitted by NWP-6.

Please let me know if you have any questions regarding this verification.

Sincerely,

John

=====
The Norfolk District is committed to providing the highest level of support to the public. In order for us to better serve you, we would appreciate you completing our Customer Satisfaction Survey located at <http://per2.nwp.usace.army.mil/survey.html>. We value your comments and appreciate your taking the time to complete the survey.

From: Kimberly Q Lanterman [<mailto:kimberly.q.lanterman@dom.com>]

Sent: Tuesday, April 23, 2013 1:13 PM

To: Evans, John D NAO

Subject: Pre-Construction Notification (PCN) for Nationwide Permit 6, Survey Activities - VOWTAP Marine Surveys

Importance: High

Hello John – I am attaching the PCN for NWP 6 for the marine surveys for the Virginia Offshore Wind Technology Advancement Project (VOWTAP). The attachments to the PCN are also attached. We would like to start marine survey activities on May 20, 2013, if possible. We would appreciate your authorization that we are approved to conduct the VOWTAP marine surveys under NWP 6 prior to May 20, 2013.

If you have any questions or need additional information, please let me know. We look forward to working with you on this project.

Kim Lanterman
Manager, Environmental
Dominion Resources, Inc.
Office: 804-273-3051
Mobile: 804-516-0949
Email: Kimberly.Q.Lanterman@dom.com

Virginia Marine Resources Commission



COMMONWEALTH of VIRGINIA

Marine Resources Commission

2600 Washington Avenue

Third Floor

Newport News, Virginia 23607

Douglas W. Darnese
Secretary of Natural Resources

Jack C. Trueland
Commissioner

April 24, 2013

Dominion Resources, Inc.
Attention: Kimberly Lanterman
5000 Dominion Boulevard
Glen Allen, VA 23060

RE: VMRC Permit #13-0614

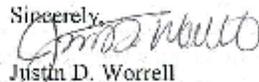
Dear Ms. Lanterman:

This will acknowledge receipt of your application describing various benthic survey techniques proposed to aid in the future plans of the Virginia Offshore Wind Technology Advancement Project in the Atlantic Ocean. As discussed previously, only such surveying techniques that directly or physically impact the submerged bottomlands of the Atlantic Ocean within the State's three-mile territorial limit will require a permit from the Virginia Marine Resources Commission. This will include benthic grab sampling and vibracore sampling. Surveying techniques not physically impacting the bottomlands or occurring outside of the three-mile territorial limit will not require a permit from our agency.

For your information, you may also need permits from the following agencies:

1. U.S. Army Corps of Engineers, 803 Front Street, Norfolk, VA 23510
2. Department of Environmental Quality, 5636 Southern Boulevard, Virginia Beach, VA 23462
3. City of Virginia Beach, Office of the City Engineer, Municipal Center, Virginia Beach, VA 23456

Your application has been forwarded to each agency as necessary for processing. Our public interest review will now commence with a project notice being sent to Camp Pendleton and the Virginia-Pilot. If you should have further questions, feel free to call me at 757-247-8063.

Sincerely,

 Justin D. Worrell
 Environmental Engineer, Sr.

JDW/and
HM

cc: U. S. Army Corps of Engineers#6
 Virginia Beach Waterfront Operations
 DEQ#6 *An Agency of the Natural Resources Secretariat*
www.mrc.virginia.gov

Telephone (757) 247-2200 (757) 247-2292 V/TDD Information and Emergency Hotline: 1-800-541-4646 V/TDD

Virginia Department of Historical Resources



COMMONWEALTH of VIRGINIA

Douglas W. Domsach
Secretary of Natural Resources

Department of Historic Resources
2801 Kensington Avenue, Richmond, Virginia 23221

Kathleen S. Kilpatrick
Director

Tel: (804) 367-2323
Fax: (804) 367-2391
TDD: (804) 367-2386
www.dhr.virginia.gov

October 10, 2013

Ms. Kimberly Q. Lanterman
Dominion Resources, Inc.
Innsbrook Technical Center
5000 Dominion Blvd.
Glen Allen, VA 23060

Re: Virginia Offshore Wind Technology Advancement Project (VOWTAP)
DHR File No. 2013-0452

Dear Ms. Lanterman:

We have received the document entitled *Cultural Resource Survey Plans: Terrestrial Archaeology, Historic Architecture, Visual Impacts* prepared by Tetra Tech, Inc. for Dominion Resources, Inc. in support of the project referenced above. We previously approved the plan for terrestrial archaeology and recently issued a permit to complete the recommended studies on Camp Pendleton.

Regarding the proposed historic architectural survey and assessment of visual impacts, we generally concur with the plan; however, we suggest that regardless of public accessibility, visual impacts to the Chesapeake Light Tower, if it is determined eligible for listing in the National Register of Historic Places, should be assessed. We concur that the National Register evaluation of the light tower could be limited to archival research and contextual study. Finally, we recommend that any visual simulations to assess potential impacts to historic properties include a consideration of night time visibility to do lighting requirements.

Thank you for the opportunity to review this plan. If you have any questions concerning these comments or if we may be of further assistance at this time, please contact me at roger.kirchen@dhr.virginia.gov.

Sincerely,

Roger W. Kirchen, Manager
Office of Review and Compliance

Administrative Services
10 Courthouse Ave.
Petersburg, VA 23803
Tel: (804) 862-6416
Fax: (804) 862-6196

Capital Region Office
2801 Kensington Ave.
Richmond, VA 23221
Tel: (804) 367-2323
Fax: (804) 367-2391

Tidewater Region Office
14415 Old Courthouse Way
2nd Floor
Newport News, VA 23608
Tel: (757) 886-2807
Fax: (757) 886-2808

Western Region Office
962 Kimo Lane
Salem, VA 24153
Tel: (540) 387-5443
Fax: (540) 387-5446

Northern Region Office
5357 Main Street
P.O. Box 519
Stephens City, VA 22655
Tel: (540) 868-7029
Fax: (540) 868-7033

From: "Kirchen, Roger (DHR)" <Roger.Kirchen@dhr.virginia.gov>
Date: April 26, 2013, 10:02:27 AM EDT
To: "Kimberly Q Lanterman (Services - 6)" <kimberly.q.lanterman@dom.com>
Cc: "kathleen.miller@tetrattech.com" <kathleen.miller@tetrattech.com>
Subject: RE: Marine Site Characterization Survey Plans for the Virginia Offshore Wind Technology Advancement Project (VOWTAP) - For Review and Comment

Thank you for the opportunity to review the marine site characterization survey plans for the VOWTAP. The Virginia Department of Historic Resources, serving as the State Historic Preservation Office, has reviewed and accepts the provided survey plans. It is our opinion that the proposed surveys will be sufficient to identify submerged resources and potentially significant paleolandforms and determine the need for additional evaluative studies. We look forward to working with Dominion, DOE, BOEM, and your partners on this important project.

Roger

Roger W. Kirchen, Manager

Office of Review and Compliance

Division of Resource Services and Review

Department of Historic Resources

2801 Kensington Avenue

Richmond, VA 23221

phone: 804-482-6091 (NEW!)

fax: 804-367-2391

roger.kirchen@dhr.virginia.gov

From: Kimberly Q Lanterman [<mailto:kimberly.q.lanterman@dom.com>]
Sent: Friday, April 12, 2013 12:17 PM
To: 'Casey Reeves'; 'Erin Trager'; 'Algene Byrum'; 'brian.hooker@boem.gov'; 'Evans, John D NAO'; Watkinson, Tony (MRC); Worrell, Justin (MRC); 'Jim Casey (james.casey@navy.mil)';

'John.R.Walters@uscg.mil'; 'David O'Brien - NOAA Federal'; 'denise.gruccio@noaa.gov'; Kirchen, Roger (DHR); 'Troy Andersen'; Aschenbach, Ernie (DGIF)

Cc: 'Mauer, Erik'; 'Matzat, Greg'; 'Smentek-Duerr, Alana'; 'Ring, Bradley (GO)'; Guy Chapman; Molly P Plautz; 'Miller, Kathleen'; 'Daniels, Jennifer'

Subject: Marine Site Characterization Survey Plans for the Virginia Offshore Wind Technology Advancement Project (VOWTAP) - For Review and Comment

Importance: High

Hello Everyone - As many of you know from our interagency kickoff meeting on March 25th, Dominion is commencing the regulatory permitting process for the Virginia Offshore Wind Technology Advancement Project (VOWTAP). One of the first steps in this process is to perform marine site characterization surveys in accordance with the Bureau of Ocean Energy Management's (BOEM's) Guidelines. If you are interested in learning more about these Guidelines, they can be found at the following link: [http://www.boem.gov/Renewable-Energy-Program/Regulatory-Information/Index.aspx#Notices to Lessees, Operators and Applicants](http://www.boem.gov/Renewable-Energy-Program/Regulatory-Information/Index.aspx#Notices%20to%20Lessees,%20Operators%20and%20Applicants)

Dominion has contracted the services of Tetra Tech to conduct the marine site characterization surveys and to perform the associated regulatory permitting for the VOWTAP. Tetra Tech has prepared the attached Geophysical and Shallow Geotechnical Survey Plan, Benthic Survey Plan, and Marine Archaeological Survey Plan (Survey Plans) in accordance with BOEM's Guidelines. We would appreciate your review and comments on these Survey Plans prior to commencement of the surveys. We realize that all of the plans may not be applicable to all of the agencies represented on this email communication. Therefore, please feel free to only review and comment on the specific Survey Plan(s) that you believe are applicable to your agency's jurisdiction.

Dominion and Tetra Tech understand that the offshore wind regulatory review process established by BOEM is new and that participating agencies may not be familiar with some of these survey activities. We would like to provide you plenty of opportunity to ask questions and to understand this process as we move forward. We will schedule a conference call on Monday, April 22nd to review the Survey Plans and to invite participating agencies to ask questions and provide comments. You will be receiving a separate meeting invite for the call. If you would like to submit written comments, we ask that you provide them via email no later than Friday, April 26, 2013. If you do not intend to submit written comments, an email confirmation of your receipt and review of the Survey Plans, as applicable, would be very much appreciated by Friday, April 26th to Kimberly.Q.Lanterman@dom.com and Kathleen.Miller@Tetrattech.com.

Our goal is to schedule a required Pre-Survey Meeting with BOEM in early May, so we would very much appreciate your timely review and comments on the attached Survey Plans.

Please let us know if you have any questions regarding the attached Survey Plans or the VOWTAP in general. Thank you in advance for your review, and we look forward to working with you on this project.

Kim Lanterman

Manager, Environmental

Dominion Resources, Inc.

Office: 804-273-3051

Mobile: 804-516-0949

Email: Kimberly.Q.Lanterman@dom.com

CONFIDENTIALITY NOTICE: This electronic message contains information which may be legally confidential and/or privileged and does not in any case represent a firm ENERGY COMMODITY bid or offer relating thereto which binds the sender without an additional express written confirmation to that effect. The information is intended solely for the individual or entity named above and access by anyone else is unauthorized. If you are not the intended recipient, any disclosure, copying, distribution, or use of the contents of this information is prohibited and may be unlawful. If you have received this electronic transmission in error, please reply immediately to the sender that you have received the message in error, and delete it. Thank you.

Virginia Department of Conservation and Recreation

Copyright © DCR-Natural Heritage ---- Project Title:



INFORMATION SERVICES ORDER FORM
Updated 11/10



Mail or Email to: Project Review Coordinator
DCR Division of Natural Heritage
217 Governor Street
Richmond, VA 23219
Voice: (804) 371-2708 Fax: (804) 371-2674
nhreview@dcr.virginia.gov

ENVIRONMENTAL REVIEW SERVICES:

- Project Review** (30 calendar day turnaround)..\$90 per site; add \$35 for 1-5 natural heritage occurrences (rare plants, rare animals, significant communities and karst) and \$60 for 6 or more occurrences.
Multi-quad project area \$90 per quad.
- Project Review with Accompanying Map...**\$250 per site; for projects including alternative energy projects with potential impact to Natural Heritage Resources, written comments with 8.5 X 11 map displaying Natural Heritage Screening Coverage.
- Priority Service** (5 business day turnaround)..\$500 surcharge

Details: Describe project in the space below, please include detailed project description, project location information including **latitude, longitude**, acreage, and existing site conditions (photographs if available). Attach additional information as necessary. In order to ensure an accurate assessment, please submit **an electronic copy of a site map** (preferably from a USGS topo map with identified project boundaries) and all other information to **nhreview@dcr.virginia.gov** or fax a map to: **Environmental Review Coordinator @ (804) 371-2674**. Please include the project title on all correspondence. **Incomplete submittal of information will delay the review process.**

Project Title: Virginia Offshore Wind Technology Advancement Project (VOWTAP) onshore electrical transmission line.

Project Description:

Dominion Resources, Inc. (Dominion) is proposing the Virginia Offshore Wind Technology Advancement Project (VOWTAP or Project), a 12 megawatt (MW), two turbine offshore wind demonstration project located approximately 23 nautical miles (26 statute miles, 42 kilometers) offshore of Virginia Beach, Virginia. The electricity generated from the two 6 MW turbines will be transmitted to shore through a 34.5 kV electric transmission cable.

Two cable landfall alternative sites are being evaluated, one at Camp Pendleton in the Rifle Range Road parking lot, and one at the Croatan Beach parking lot. The cable will be installed below the beach at either alternative, using Horizontal Directional Drilling (HDD). HDD will allow Dominion to avoid impacts to sensitive coastal habitats. From the landfall location, the onshore transmission cable will follow one of three potential alternatives to an existing substation on South Birdneck Road.

Please see the attached Project Description, map, and GIS shapefiles for the proposed onshore components of the VOWTAP.

(DCR199-005) (11/2010)

Douglas W. Domenech
Secretary of Natural Resources



David A. Johnson
Director

COMMONWEALTH of VIRGINIA
DEPARTMENT OF CONSERVATION AND RECREATION

600 East Main Street, 24th Floor
Richmond, Virginia 23219
(804) 786-6124

October 17, 2013

Aaron Svedlow
Tetra Tech, Inc.
451 Presumpscot Street
Portland, ME 04103

Re: Virginia Offshore Wind Technology Advancement Project (VOWTAP) Onshore Electrical Transmission Line

Dear Mr. Svedlow:

The Department of Conservation and Recreation's Division of Natural Heritage (DCR) has searched its Biotics Data System for occurrences of natural heritage resources from the area outlined on the submitted map. Natural heritage resources are defined as the habitat of rare, threatened, or endangered plant and animal species, unique or exemplary natural communities, and significant geologic formations.

Alternatives 1, 2, 3A and 3B

According to the information currently in our files, the Camp Pendleton – Dam Neck Dune and Swale Conservation Site is located adjacent to the project site. Conservation sites are tools for representing key areas of the landscape that warrant further review for possible conservation action because of the natural heritage resources and habitat they support. Conservation sites are polygons built around one or more rare plant, animal, or natural community designed to include the element and, where possible, its associated habitat, and buffer or other adjacent land thought necessary for the element's conservation. Conservation sites are given a biodiversity significance ranking based on the rarity, quality, and number of element occurrences they contain; on a scale of 1-5, 1 being most significant. Camp Pendleton – Dam Neck Dune and Swale Conservation Site has been given a biodiversity significance ranking of B3, which represents a site of high significance. The natural heritage resources of concern at this site are:

<i>Quercus incana</i>	Bluejack oak	G5/S2/NL/NL
<i>Ludwigia brevipes</i>	Long beach seedbox	G2G3/S2/SOC/NL
<i>Rhynchospora fascicularis</i>	Fasciculate beakrush	G5/S1/NL/NL
<i>Juncus elliotii</i>	Bog rush	G4G5/S1S2/NL/NL
<i>Erigeron vernus</i>	White-top fleabane	G5/S2/NL/NL
<i>Lipocarpha maculata</i>	American halfchaff sedge	G5/S1/NL/NL
<i>Cicindela trifasciata</i>	A Tiger beetle	G5/S1/NL/NL

*State Parks • Nonpoint Pollution Prevention • Outdoor Recreation Planning
Natural Heritage • Dam Safety and Floodplain Management • Land Conservation*

In addition, Dune marsh-elder (*Iva imbricata*, G5?/S1S2/NL/NL), Carolina yellow-eyed grass (*Xyris caroliniana*, G4G5/S1/NL/NL) and Glossy-seed yellow stargrass (*Hypoxis sessilis*, G4/SH/NL/NL) have been historically documented within the project area.

Due to the potential for this site to support populations of Bluejack oak, Long beach seedbox, Fasciculate beakrush, Bog rush, White-top fleabane, American halfchaff sedge, Dune marsh-elder, Carolina yellow-eyed grass and a Tiger beetle, DCR recommends an inventory for the resources in the study area. With the survey results we can more accurately evaluate potential impacts to natural heritage resources and offer specific protection recommendations for minimizing impacts to the documented resources.

DCR-Division of Natural Heritage biologists are qualified and available to conduct inventories for rare, threatened, and endangered species. Please contact J. Christopher Ludwig, Natural Heritage Inventory Manager, at chris.ludwig@dcr.virginia.gov or 804-371-6206 to discuss arrangements for field work.

Under a Memorandum of Agreement established between the Virginia Department of Agriculture and Consumer Services (VDACS) and the DCR, DCR represents VDACS in comments regarding potential impacts on state-listed threatened and endangered plant and insect species. The current activity will not affect any documented state-listed plants or insects.

There are no State Natural Area Preserves under DCR's jurisdiction in the project vicinity.

New and updated information is continually added to Biotics. Please contact DCR for an update on this natural heritage information if a significant amount of time passes before it is utilized.

A fee of \$750.00 has been assessed for the service of providing this information. Please find enclosed an invoice for that amount. Please return one copy of the invoice along with your remittance made payable to the Treasurer of Virginia, DCR - Division of Natural Heritage, 600 East Main Street, 24th Floor, Richmond, VA 23219. Payment is due within thirty days of the invoice date. Please note the change of address for remittance of payment as of July 1, 2013. Late payment may result in the suspension of project review service for future projects.

The Virginia Department of Game and Inland Fisheries (VDGIF) maintains a database of wildlife locations, including threatened and endangered species, trout streams, and anadromous fish waters that may contain information not documented in this letter. Their database may be accessed from <http://vafwis.org/fwis/> or contact Gladys Cason (804-367-0909 or Gladys.Cason@dgif.virginia.gov).

Should you have any questions or concerns, feel free to contact me at (804) 692-0984. Thank you for the opportunity to comment on this project.

Sincerely,



Alli Baird, LA, ASLA
Coastal Zone Locality Liaison

Cc: Troy Andersen, USFWS