

### VINEYARD WIND

# Draft Construction and Operations Plan

# Volume III Appendices

## Vineyard Wind Project

June 3, 2020

Submitted by

Vineyard Wind LLC 700 Pleasant Street, Suite 510 New Bedford, Massachusetts 02740

#### Submitted to

Bureau of Ocean Energy Management 45600 Woodland Road Sterling, Virginia 20166

#### Prepared by

Epsilon Associates, Inc. 3 Mill & Main Place, Suite 250 Maynard, Massachusetts 01754



# Draft Construction and Operations Plan Volume III Text

# Vineyard Wind Project

Submitted to:

BUREAU OF OCEAN ENERGY MANAGEMENT 45600 Woodland Rd Sterling, VA 20166

Submitted by:

#### VINEYARD WIND LLC

700 Pleasant Street, Suite 510 New Bedford, MA 02740

Prepared by:

#### **EPSILON ASSOCIATES, INC.**

3 Mill & Main Place, Suite 250 Maynard, MA 01754

In Association with:

Baird & Associates
Biodiversity Research Institute
C2Wind
Capitol Air Space Group
Clarendon Hill Consulting
Ecology and Environment
Foley Hoag
Geo SubSea LLC
Gray & Pape

JASCO Applied Sciences Morgan, Lewis & Bockius LLP Public Archaeology Laboratory, Inc. RPS Saratoga Associates Swanson Environmental Associates Wood Thilsted Partners Ltd WSP Terrestrial Archaeology Resources Reports and Permits



November 14, 2017

Brona Simon State Archaeologist State Historic Preservation Officer Massachusetts Historical Commission 220 Morrissey Boulevard Boston, Massachusetts 02125

Re: Vineyard Wind Upland Cabling Project
Barnstable, Yarmouth and Nantucket, Massachusetts
Archaeological Reconnaissance Survey
PAL #3384

Dear Ms. Simon:

Enclosed please find a Project Notification Form and application for a permit to conduct an archaeological reconnaissance survey within the proposed Vineyard Wind Upland Cabling project area in Barnstable, Yarmouth and Nantucket, Massachusetts. The project area is located on the New Bedford and Nantucket, MA USGS quadrangles. Thank you in advance for your time and attention to this matter.

If you have any questions or concerns, please do not hesitate to contact Duncan Ritchie, Senior Archaeologist, or me, at your convenience.

Sincerely,

Deborah C. Cox, RPA

President

Enclosure

cc: Eric Peckar, Vineyard Power (w/encl.)
Rachel Pachter, Vineyard Wind (w/encl.)
Brian Lever, Epsilon Associates, Inc. (w/encl.)

(Note: no surveys on Nantucket are planned. The reference to an upland route on Nantucket is an error.)

#### 950 CMR: OFFICE OF THE SECRETARY OF THE COMMONWEALTH

## APPENDIX A MASSACHUSETTS HISTORICAL COMMISSION 220 MORRISSEY BOULEVARD BOSTON, MASS 02125 617-727-8470, FAX: 617-727-5128

#### PROJECT NOTIFICATION FORM

Project Name:	vineyard wind Opiand C	abling	
Location / Address:	see Project Description b	elow vasam tanks	to the total nemino of the m
City / Town:	Barnstable, Yarmouth and	d Nantucket	
Project Proponent	malitair	A const	hashoW
ANTER			
Name:	Vineyard Wind		
Address:	700 Pleasant Street	25168	padatorom.
City/Town/Zip/Telephone:	New Bedford, MA 02740		rodoud pip to aktinien typ st ting
Agency license or funding for state and federal agencies).		s, permits, approvals, grants or o	other entitlements being sought from
Agency Name:		Type of License or fundi	ing (specify)
Bureau of Ocean Energy Ma	nagement (BOEM)		
Federal Aviation Agency (FA			
Army Corps of Engineers (A		Clean Water Act (Section	on 404), Section 106 Consultation
Environmental Protection A		NPDES Construction G	eneral Permit
Massachusetts Environmenta	al Policy Act (MEPA)	Environmental Notificat	tion Form
Massachusetts Department o	f Environmental Protection	(DEP)	

#### Project Description (narrative):

The routes within Barnstable and Yarmouth being considered include a Preferred and Notice Alternative Route as well as six variants and one substation parcel. The five Preferred variants include Seagull Beach, New Hampshire Avenue, Willow Street, Eversource ROW and Bike Path. The single Notice Alternative variant is at Attucks Lane. The preferred landing site is at New Hampshire Avenue in Yarmouth and the preferred grid interconnection point is the Barnstable Switching Station. (Note: The Preferred variant from Seagull Beach (Great Island) is no longer under consideration.)

The potential upland cabling route on Nantucket consists of two routes at the west end of the island that extend from the southern shoreline near Cisco Beach along the Madaket Road bicycle path and Barrett Farm Road. They converge at the northern end of Barrett Farm Road to form a single route that follows Eel Point Road to Dionis Beach on the north side of the island. (Note: no surveys on Nantucket are planned. The reference to an upland route on Nantucket is an error.)

Does the project include demolition? If so, specify nature of demolition and describe the building(s) which are proposed for demolition.

No

Does the project include rehabilitation of any existing building? If so, specify nature of rehabilitation and describe the building(s) which are proposed for rehabilitation.

No

## 950 CMR: OFFICE OF THE SECRETARY OF THE COMMONWEALTH

Does the project include new construct	tion? If so, des	cribe (attach plans and	elevations if necessary).
Yes			
To the best of your knowledge, are any project's area of potential impact? If s		haeological properties l	known to exist within the
Thirteen pre-contact and 2 post-contact a overland routes in Barnstable, Yarmouth		ites may be located within	and/or adjacent to the
What is the total acreage of the projec	t area?		
Woodland Wetland Floodplain Open Space Developed	acres acres	Productive Resource Agriculture Forestry Mining Total Project Acreas	acres acres
What is the acreage of the proposed no			
What is the present land use of the pro- Mixed residential and commercial develor way and existing roadways in the Barnsta The Nantucket section of the project area Eel Point Roads) through open land and a (Note: no surveys on Nantucket are plant Please attach a copy of the section of the Use This Project Notification Form has been subtraction	opment and utility able and Yarmout a land use is with low density residued. The references GS quadrangle	oth project area.  In existing roadways and dential development in More to an upland route on More which clearly marks to	bicycle paths (Madaket and adaket. Nantucket is an error.) The project location.
Signature of Person submiting this form  Name: The Public Archaeology I  Address: 26 Main Street	Duy Laboratory, Inc.	Plehio	Date: 11/13/2017
City / Town: Pawtucket, Rhode Island	02860		

# 950 CMR: OFFICE OF THE SECRETARY OF THE COMMONWEALTH

## <u>APPENDIX A</u> (continued)

Telephone: 401-728-8780

#### REGULATORY AUTHORITY

930CMR 71.00: M.G.L. c. 9, §§ 26-27C as amended by St.1988, c.254.

# 950 CMR: OFFICE OF THE SECRETARY OF THE COMMONWEALTH <u>APPENDIX A</u> (continued)

7/1/93 950 CMR - 276

#### 950 CMR: DEPARTMENT OF THE STATE SECRETARY

#### APPENDIX B **COMMONWEALTH OF MASSACHUSETTS**

#### SECRETARY OF STATE: MASSACHUSETTS HISTORICAL COMMISSION

#### PERMIT APPLICATION: ARCHAEOLOGICAL FIELD INVESTIGATION

#### A. General Information

Pursuant to Section 27(c) of Chapter 9 of the General Laws and according to the regulations outlined in 950 CMR 70.00, a permit to conduct a field investigation is hereby requested.

1. Name(s): Duncan Ritchie

2. Institution: The Public Archaeology Laboratory, Inc.

Address:

26 Main Street

Pawtucket, Rhode Island 02860

Project Location: Vineyard Wind Upland Cabling Project

see attached proposal

Town(s):

Barnstable, Yarmouth and Nantucket

Attach a copy of a USGS quadrangle with the project area clearly marked. 5.

see attached

6.

Property Owner(s): Towns of Barnstable, Yarmouth and Nantucket, MA;

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Eversource

- The applicant affirms that the owner has been notified and has agreed that the applicant may perform the proposed field investigation.
- The proposed field investigation is for a(n): 8.
  - (a) Reconnaissance Survey
  - b. Intensive Survey
  - c. Site Examination
  - d. Data Recovery

#### **B.** Professional Qualifications

Attach a personnel chart and project schedule as described in 950 CMR 70.11 (b).

#### a. Personnel

Principal Investigator(s): Duncan Ritchie Project Archaeologist(s): Colin Stephenson

Field Crew:

#### b. Schedule

Fieldwork:

November, 2017

Laboratory:

December, 2017

Report:

January, 2018

Include copies of curriculum vitae of key personnel (unless already on file with the State Archaeologist).

#### C. Research Design

- Attach a narrative description of the proposed Research Design according to the requirements of 950 CMR 70.11.
- The Applicant agrees to perform the field investigations according to the standards outlined in 950 CMR 70.13.
- The Applicant agrees to submit a Summary Report, prepared according to the standards outlined in 950 CMR 70.14 by:
- The specimens recovered during performance of the proposed field investigation will be curated at:

The Public Archaeology Laboratory, Inc.

26 Main Street

Pawtucket, Rhode Island 02860

**SIGNATURE** 



December 19, 2017

Rachel Pachter
Vice President, Permitting Affairs The Commonwealth of Massachusetts

Vineyard Wind, LLC 700 Pleasant Street, Suite 510 William Francis Galvin, Secretary of the Commonwealth

700 Pleasant Street, Suite 510
New Bedford, MA 02740

Massachusetts Historical Commission

RE: Vineyard Wind Offshore Wind Energy Project, Massachusetts, BOEM Lease Area OCS-A 0501. MHC # RC.62940

#### Dear Ms. Pachter:

Staff of the Massachusetts Historical Commission (MHC), office of the Massachusetts State Historic Preservation Officer, have reviewed the Project Notification Form (PNF), submitted by the PAL, Inc., for the Upland Cabling aspect of the project referenced above in Barnstable and Yarmouth.

The MHC will continue to review the project pursuant to the Programmatic Agreement with the Bureau of Ocean Energy Management (BOEM) for Section 106 of the National Historic Preservation Act of 1966, as amended (36 CFR 800). The MHC looks forward to consultation with the involved federal and state agencies. A copy of the Environmental Notification Form (ENF) should be submitted to the MHC for review and comment when it is filed with the MEPA office.

The MHC looks forward to reviewing additional project information, including scaled existing and proposed conditions project plans, sized no larger than 11" by 17" for the preferred project alternative to assist BOEM in determining what effect, if any, the proposed project may have on significant historic and archaeological resources. Project information should also be submitted by project planners concurrently to the Massachusetts Board of Underwater Archaeological Resources (MBUAR). Project plans should show all proposed terrestrial and marine project impact areas, including materials staging and equipment storage areas, intertidal horizontal directional drilling entrance and/or exit pits, cable routes, turbine foundation and associated vessel anchorage locations within state and/or federal waters.

The State Archaeologist's permit (950 CMR 70) has been issued to the PAL to conduct the terrestrial archaeological reconnaissance survey for the Upland Cabling aspect of the project. The marine archaeological reconnaissance survey for the Export Cable aspect of the project is being conducted by Gray & Pape, Inc., in consultation with the MHC and MBUAR. The draft technical archaeological reports for the terrestrial upland cabling and marine export cable aspects of the project should be submitted to the MHC for review and comment.

These comments are offered to assist in compliance with Section 106 of the National Historic Preservation Act of 1966, as amended (36 CFR 800), Massachusetts General Laws Chapter 9, Sections 26-27C (950 CMR 70-71) and MEPA (301 CMR 11). If you have any questions concerning this review, please contact Jonathan K. Patton, at this office.

Sincerely,

Brona Simon

State Historic Preservation Officer

Executive Director State Archaeologist

Massachusetts Historical Commission

xc: Richard Warner, BOEM

Barbara Newman, USACOE-New England District Kate Atwood, USACOE-New England District

Bettina Washington, Tribal Historic Preservation Officer, Wampanoag Tribe of Gay Head (Aquinnah)

Ramona Peters, Mashpee Wampanoag Tribe

Victor Mastone, MBUAR

Deborah C. Cox, PAL, Attn: Duncan Ritchie

Mike Tuttle, Gray & Pape, Inc.



# The Commonwealth of Massachusetts

William Francis Galvin, Secretary of the Commonwealth Massachusetts Historical Commission

PERMI	т то	CONDUCT	ARCHAEOLOGICAL I	FIELD INVESTIGAT:	ION
Permit Number	3795		Date of Issue	December 18, 20	)17
			Expiration Date	December 18, 20	18
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## The Commonwealth of Massachusetts

William Francis Galvin, Secretary of the Commonwealth Massachusetts Historical Commission

Expiration Date September 28, 2019  PAL is hereby authorized to conduct an archaeological field investigation pursuant to Section 27C of Chapter 9 of General Laws and according to the regulations outlined in 950 CMR 70.00.  Vineyard Wind Upland Cabling Project, Barnstable & Yarmouth  Project Location	<del></del>				
Expiration Date September 28, 2019  PAL is hereby authorized to conduct an archaeological field investigation pursuant to Section 27C of Chapter 9 of General Laws and according to the regulations outlined in 950 CMR 70.00.  Vineyard Wind Upland Cabling Project, Barnstable & Yarmouth Project Location	PERMIT	TO CONDUCT	F ARCHAEOLOGICAL F	'IELD INVESTIGATIO	N
Expiration Date September 28, 2019  PAL is hereby authorized to conduct an archaeological field investigation pursuant to Section 27C of Chapter 9 of General Laws and according to the regulations outlined in 950 CMR 70.00.  Vineyard Wind Upland Cabling Project, Barnstable & Yarmouth  Project Location					
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Authorized to conduct an archaeological field investigation pursuant to Section 27C of Chapter 9 of General Laws and according to the regulations outlined in 950 CMR 70.00.  Vineyard Wind Upland Cabling Project, Barnstable & Yarmouth  Project Location			Expiration Date	September 28, 20	19
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Brona Simon, State Archaeologist Massachusetts Historical Commission					2



### The Commonwealth of Massachusetts

William Francis Galvin, Secretary of the Commonwealth Massachusetts Historical Commission

March 5, 2020

Deborah C. Cox President PAL 26 Main Street Pawtucket, RI 02860

Attn: Duncan Ritchie

RE: Vineyard Wind Offshore Wind Energy Project, Massachusetts, BOEM Lease Area OCS-A 0501. MHC #RC.62490. PAL #3384.

#### Dear Deborah:

Staff of the Massachusetts Historical Commission (MHC), have reviewed your request to amend State Archaeologist's Permit #3868 to conduct supplemental intensive (locational) archaeological survey for the expanded upland cable substation aspect of the project in Barnstable. The results of the archaeological monitoring are proposed to be submitted as an addendum to the 2018 survey report.

State Archaeologist's Permit #3868 has been amended to expire March 5, 2021 to include the supplemental archaeological testing. I look forward to reviewing the results of the investigation.

These comments are provided to assist in compliance with the Secretary of the Interior's *Standards & Guidelines for Archeology and Historic Preservation* (48 Fed. Reg. 190)(1983)), Massachusetts General Laws, Chapter 9, Section 26-27C (950 CMR 70). If you have any questions, please contact Jonathan K. Patton at this office.

Sincerely,

Brona Simon

State Historic Preservation Officer

Executive Director State Archaeologist

Massachusetts Historical Commission