

Notice to Activities Associated with the Development of Beatrice Offshore Wind Farm

Date of Issue	13.11.2017	Notice Number	LF000005-NTM-032 Rev01
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Please promulgate the following as a notice to mariners:

Jacket Installation for Wind Turbine Generators & Offshore Transmission Modules.

Work Planned for the Period of 16th November 2017 – 31st December 2018.

The second part of the foundation installation campaign will commence with the return to construction site of the Heavy Lift Vessel (HLV) Oleg Strashnov and her associated support vessels. She will continue to install foundation jackets for approximately one month.

1. Contact Details for Marine Coordination

The following contact can provide more information if required. Please note that specific queries can also be addressed to the relevant vessel or shore based representative.

Telephone Number (Day Operations)	+44 (0) 3302 020329
Emergency Contact (24/7)	+44 (0) 7342 028207
Email for Marine Coordinator	MC.Bowl@sse.com
Address	Unit 1 Harbour Office Wick Caithness KW1 5HA

2. Area of Planned Activity

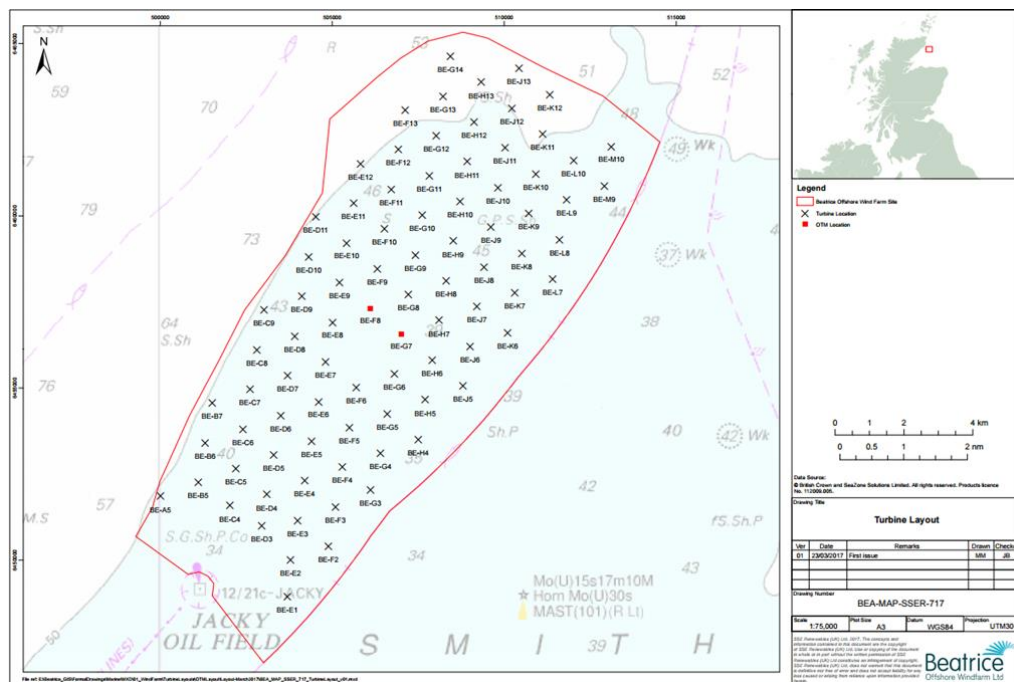


Fig 1. BOWL construction site showing proposed Jacket locations

NOTICE TO MARINERS

Table 1 WTG and OTM Location Coordinates

Locations highlighted in Yellow show the 24 foundations that have already been installed

Location ID	Latitude (ddm) WGS84	Longitude (ddm) WGS84	Jacket installed
BE-A5	58 12.471' N	002 59.996' W	
BE-B5	58 12.687' N	002 58.873' W	
BE-B6	58 13.308' N	002 58.664' W	
BE-B7	58 13.929' N	002 58.456' W	
BE-C4	58 12.307' N	002 57.948' W	
BE-C5	58 12.902' N	002 57.749' W	
BE-C6	58 13.524' N	002 57.541' W	
BE-C7	58 14.144' N	002 57.332' W	01.09.2017
BE-C8	58 14.766' N	002 57.124' W	
BE-C9	58 15.386' N	002 56.915' W	
BE-D3	58 11.995' N	002 57.002' W	
BE-D4	58 12.497' N	002 56.834' W	
BE-D5	58 13.117' N	002 56.626' W	
BE-D6	58 13.739' N	002 56.417' W	31.08.2017
BE-D7	58 14.359' N	002 56.209' W	
BE-D8	58 14.981' N	002 55.999' W	
BE-D9	58 15.602' N	002 55.790' W	21.09.2017
BE-D10	58 16.223' N	002 55.582' W	
BE-D11	58 16.844' N	002 55.373' W	
BE-E1	58 10.900' N	002 56.256' W	01.09.2017
BE-E2	58 11.470' N	002 56.128' W	16.08.2017
BE-E3	58 12.090' N	002 55.920' W	
BE-E4	58 12.712' N	002 55.710' W	20.09.2017
BE-E5	58 13.333' N	002 55.502' W	
BE-E6	58 13.954' N	002 55.293' W	24.08.2017
BE-E7	58 14.575' N	002 55.084' W	25.08.2017
BE-E8	58 15.196' N	002 54.875' W	
BE-E9	58 15.817' N	002 54.665' W	21.09.2017
BE-E10	58 16.438' N	002 54.456' W	
BE-E11	58 17.059' N	002 54.247' W	
BE-E12	58 17.680' N	002 54.037' W	
BE-F2	58 11.685' N	002 55.005' W	06.09.2017
BE-F3	58 12.306' N	002 54.796' W	07.09.2017
BE-F4	58 12.927' N	002 54.588' W	19.09.2017
BE-F5	58 13.548' N	002 54.378' W	14.09.2017
BE-F6	58 14.168' N	002 54.169' W	11.09.2017
BE-F8 (OTM)	58 15.411' N	002 53.750' W	
BE-F9	58 16.031' N	002 53.540' W	
BE-F10	58 16.653' N	002 53.330' W	
BE-F11	58 17.274' N	002 53.120' W	
BE-F12	58 17.894' N	002 52.911' W	
BE-F13	58 18.516' N	002 52.701' W	

NOTICE TO MARINERS

Location ID	Latitude (ddm) WGS84	Longitude (ddm) WGS84	Jacket installed
BE-G3	58 12.544' N	002 53.726' W	15.08.2017
BE-G4	58 13.142' N	002 53.464' W	08.09.2017
BE-G5	58 13.762' N	002 53.254' W	09.09.2017
BE-G6	58 14.384' N	002 53.044' W	20.08.2017
BE-G7 (OTM)	58 15.004' N	002 52.834' W	
BE-G8	58 15.625' N	002 52.625' W	10.09.2017
BE-G9	58 16.247' N	002 52.415' W	
BE-G10	58 16.867' N	002 52.204' W	
BE-G11	58 17.488' N	002 51.994' W	
BE-G12	58 18.109' N	002 51.784' W	
BE-G13	58 18.730' N	002 51.574' W	
BE-G14	58 19.351' N	002 51.362' W	
BE-H4	58 13.356' N	002 52.339' W	13.08.2017
BE-H5	58 13.977' N	002 52.130' W	27.08.2017
BE-H6	58 14.598' N	002 51.920' W	21.08.2017
BE-H7	58 15.219' N	002 51.709' W	
BE-H8	58 15.840' N	002 51.499' W	13.09.2017
BE-H9	58 16.461' N	002 51.289' W	
BE-H10	58 17.082' N	002 51.079' W	
BE-H11	58 17.703' N	002 50.867' W	
BE-H12	58 18.324' N	002 50.657' W	
BE-H13	58 18.944' N	002 50.446' W	
BE-J5	58 14.192' N	002 51.005' W	26.08.2017
BE-J6	58 14.812' N	002 50.795' W	
BE-J7	58 15.433' N	002 50.585' W	
BE-J8	58 16.055' N	002 50.373' W	
BE-J9	58 16.675' N	002 50.163' W	
BE-J10	58 17.296' N	002 49.952' W	
BE-J11	58 17.917' N	002 49.741' W	
BE-J12	58 18.538' N	002 49.530' W	
BE-J13	58 19.159' N	002 49.319' W	
BE-K6	58 15.027' N	002 49.669' W	
BE-K7	58 15.648' N	002 49.459' W	
BE-K8	58 16.269' N	002 49.247' W	
BE-K9	58 16.890' N	002 49.036' W	
BE-K10	58 17.510' N	002 48.825' W	
BE-K11	58 18.131' N	002 48.614' W	
BE-K12	58 18.752' N	002 48.403' W	
BE-L7	58 15.862' N	002 48.333' W	
BE-L8	58 16.482' N	002 48.122' W	
BE-L9	58 17.104' N	002 47.910' W	
BE-L10	58 17.724' N	002 47.698' W	
BE-M9	58 17.317' N	002 46.784' W	
BE-M10	58 17.938' N	002 46.571' W	

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3. Vessels Associated with the Activity

Below are details of vessels involved with the Jacket Installation campaign.

Oleg Strashnov	
General Description and Dimensions:	Heavy Lift Vessel: 183m x 47m
Call Sign:	5BNL2
MMSI:	212905000
Onshore Representative:	d.sprangers@shl.com



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MAERSK TRADER	
General Description and Dimensions:	Anchor Handling Tug: 73.2m x 20m
Call Sign:	OXRO2
MMSI:	220584000
Onshore Representative:	d.sprangers@shl.com



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VOS PRELUDE	
General Description and Dimensions:	Supply Vessel: 73.2m x 20m
Call Sign:	PBZK
MMSI:	245969000
Onshore Representative:	d.sprangers@shl.com



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Vessels towing barges containing Turbine & OTM Jackets for the Oleg Strashnov to Install.

ERACLEA	
General Description and Dimensions:	Anchor Handling Tug: 50m x 15m
Call Sign:	IITX2
MMSI:	247278500
Onshore Representative:	d.sprangers@shl.com



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CENTAURUS	
General Description and Dimensions:	Anchor Handling Tug: 48.81m x 14.06m
Call Sign:	V2ED3
MMSI:	305820000
Onshore Representative:	d.sprangers@shl.com



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PEGASUS	
General Description and Dimensions:	Anchor Handling Tug: 48.81m x 14.06m
Call Sign:	V2ED2
MMSI:	305389000
Onshore Representative:	d.sprangers@shl.com



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KAMARINA	
General Description and Dimensions:	Anchor Handling Tug: 50m x 15m
Call Sign:	IITW2
MMSI:	247278400
Onshore Representative:	d.sprangers@shl.com



4. Activity Description

Jacket Installation Process.

The HLV Oleg Strashnov will continue to install foundation jacket substructures into the pre-installed piles.

Prior to jacket substructure installation, pile cleaning is undertaken to ensure there is no soil remaining on the inside surface of the pile after soil plug removal. The inside of the pile needs to be clean so that the grout bonds between the jacket stab in and the internal pile wall. Inside pile cleaning will be performed by means of a combination of steel brushes and high pressure water jets.

The jacket substructures will then be delivered to sites by cargo barge in a vertical secured position which will be moored alongside the HLV. The HLV will then lift the jacket from the cargo barge onto the deck of the HLV.

The jacket is then lifted from the HLV and the HLV then lowers the jacket so that the connection between the seabed piles and the jacket legs is made before grouting is conducted.



Fig.12 Jackets are transported in the vertical position secured on a cargo barge ready for installation.

5. General Safety Advice

All vessels engaged in the construction activity will exhibit appropriate lights and shapes prescribed by the International Regulations for Preventing Collisions at Sea; relative to their operations. All vessels engaged in the activity will also transmit an Automatic Identification System (AIS) message.

Use of Safety Zones within the Beatrice Offshore Windfarm Construction Area:

The Secretary of State for Business, Energy and Industrial Strategy (BEIS) has approved the use of safety zones under the Energy Act 2004 for the installation of wind turbines and offshore transformer module foundations/substructures within the Beatrice Offshore Windfarm. The approval was granted on the 17th March 2017.

The Secretary of State has declared Safety Zones under the following terms: During Construction

- 500 metres radius around each wind turbine, offshore transformer module and/or their substructures and foundations comprising the Beatrice Offshore Wind Farm whilst work is being performed as indicated by the presence of construction vessels.
- It is noted that the 500 metre safety zones will roll with the installation activity with no more than two construction vessels working at any one time. Vessels are advised that anchors associated with the construction vessels may extend outside of the 500 metre safety zone.
- A 50 metres radius around each wind turbine, offshore transformer module and / or their substructure and foundations installed but waiting to be commissioned as part of the Beatrice Offshore Wind Farm.
- Positions of foundations installed will be promulgated within the Weekly Notice of Operations.

NOTICE TO MARINERS



Only vessels associated with the Beatrice Offshore Wind Farm construction may enter statutory Safety Zones with prior permission.

The duty Guard Vessels and Marine Coordination centre will be responsible for monitoring and policing the Safety Zones; and can be contacted directly for advice.

Further information on the application of Safety Zones can be obtained from the Marine Coordinator. Users are advised to keep clear of construction activities, including Safety Zones, within the Beatrice Offshore Windfarm construction area in line with Marine Guidance Note 372.

ALL VESSELS ARE REQUESTED to give all construction and support vessels a wide berth.

MARINERS ARE REMINDED to navigate with caution and keep continued watch on VHF Ch. 70 / 16 when navigating the area.

6. Dedicated Guard Vessels

The Guard Vessels Moremma PD135 and Pleiades BF155, are currently carrying out guard vessel duties in the BOWL construction site. All vessels can be contacted on VHF CH16

7. Fisheries Liaison

Fisheries liaison associated with the activity will be co-ordinated by Brown and May Marine. For any commercial fishery queries please contact: Alex Winrow-Giffin, telephone: +44 (0)1379 872144 and mobile: +44 (0)7760 160039 or email: alex@brownmay.com

8. Distribution List

The distribution of this notice is as per email recipient's header. A central list of recipients is maintained by the Marine Coordinator; if you are not the appropriate recipient of these notices, or do not wish to receive the notices in the future, please contact us at the address included in Section 1 of this notice.

A copy of this notice can also be found at <https://www.beatricewind.com/>