

NOTICE TO MARINERS

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

Date of Issue	01.09.2017	Notice Number	LF000005-NTM-012
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Please promulgate the following as a Notice to Mariners:

Pre-Lay Grapnel Run and Route Clearance.

Work Planned for the Period of 6th- 13th September 2017.

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.

BOWL Marine Coordinator
Beatrice Offshore Windfarm Limited
Unit 1
Harbour Office
Wick
Caithness
KW1 5HA
email: mc.bowl@sse.com
phone: +44 (0) 3302020329
web site: www.sse.com/beatrice

2. Area of Planned Activity

From: Export Cable 1, EC1 End of Trench KP4.5	To: Export Cable 1, EC1 OTM1	Approximate length (KM)
57° 42.236' N 003° 01.956' W	58° 15.004' N 002° 52.834' W	63.3km

Table.1 Latitude and Longitude of start and finish EC1 PLGR works.

From: Export Cable 2, EC2 End of Trench KP4.5	To: Export Cable, EC2 OTM2	Approximate length (KM)
57° 42.272' N 003° 02.299' W	58° 15.411' N 002° 53.750' W	64.5km

Table.2 Latitude and Longitude of start and finish EC2 PLGR works.

From: Interconnector Cable IC OTM1	To: Interconnector Cable IC OTM2	Approximate length (KM)
58° 15.004' N 002° 52.834' W	58° 15.411' N 002° 53.750' W	1.2km

Table.3 Latitude and Longitude of start and finish OTM Interconnector PLGR works.

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Fig 1. BOWL Export Cable routes Portgordon landfall to OTM's.

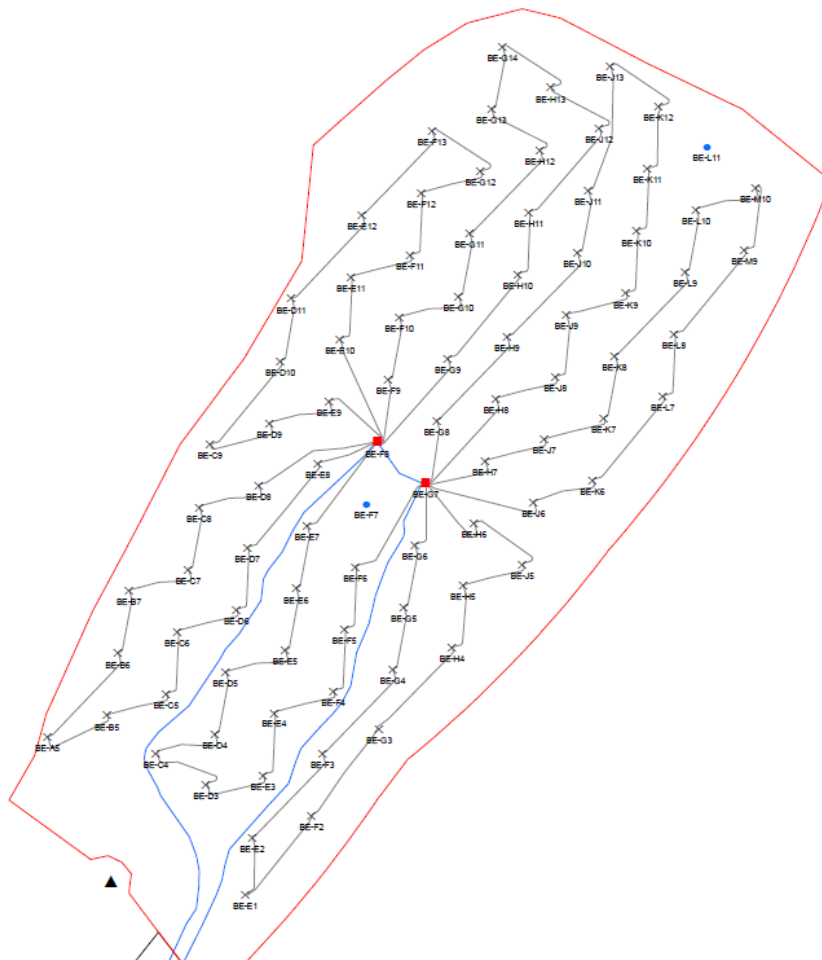


Fig 2. BOWL Export Cable routes inside construction site (in Blue)

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3. Vessels Associated with the Activity

Blue Castor	
General Description and Dimensions:	46.02m x 7.95m x 5.6m
Call Sign:	OUKR2
MMSI:	220294000
Onshore Representative:	Rob Brown E-mail: rob.brown@nexans.com



Fig.3 Blue Castor

4. Activity Description

Pre-Lay Grapnel Run and Route Clearance procedure

Pre-Lay Grapnel Run (PLGR) will be carried by the vessel Blue Castor, to a minimum 0.5 m depth into the seabed, along the centreline of the export (EC1 and EC2) and Interconnector (IC) cable routes, a total of approximately 129 km PLGR.

PLGR is to be performed where new power cable will be protected by jetting. This is to ensure that the burial area is clear of debris. The operation has the aim of clearing any debris (such as discarded rope or fishing nets) from the route, to prevent damage to the jetting tool, or any hindrance to the burial.

A grapnel designed to hook surface debris such as fish nets, wires and ropes will be used as a minimum. Where any significant debris is recovered a second run will be performed with at least 100m overlap over the same area to ensure no additional debris remains.

A diagram of the grapnels and arrangement is shown below. There is no weak link in this rigging.



Fig.4 Grapnel array.

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The method is to deploy the grapnel array and pay out a towing line to the appropriate length relative to the water depth. The towing line is passed over a sensitive load cell, which is monitored continuously both visually and recorded by the online computer. Changes in recorded tension may indicate that debris has been encountered. The grapnel is recovered and any debris cleared and retained on board. The grapnel array is then redeployed with an overlap of at least 100 meters. It shall be noted that these operations cannot guarantee that all seabed debris will be removed from the route. Should any significant sub-surface debris be determined then a minor deviation from planned route may be considered.

During the UXO-survey some possible UXOs have been detected along the cable routes. The PLGR will follow the cable route centre lines and avoid any possible UXO target by at least 10 meters.

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.

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.

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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 Vessel

At present the Guard Vessels in place at Beatrice Offshore Windfarm Development Site include the Opportune WK171 and Sardonyx II BF206.

Currently Guard Vessels rotate every 21 days with two permanently on location and can be contacted on VHF Ch. 16.

Updates on Guard Vessels on location will be promulgated within the Weekly Notice of Operations.

7. Fisheries Liaison

Fisheries liaison associated with the activity will be co-ordinated by Brown and May Marine. A Fisheries Liaison Officer FLO will be aboard the Blue Castor during this operation. For any commercial fishery queries please contact: Alex Winrow-Giffin, telephone: +44 (0)1379 872144 and mobile: +44 (0)7760 160039.

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/>