

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

Date of Issue	26 th March 2018	Notice Number	LF000005-NTM-043-Rev01
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Please promulgate the following as a Notice to Mariners:

BOWL Export Cable pull in and lay down EC2.1

This Notice to Mariners details the second campaign of the installation of two export cables (EC) in the Beatrice Offshore Windfarm construction site. The installation will commence with the pull in and laydown of the second 33km section of EC2 from the nearshore area close to Portgordon. In this respect the work listed here is due to be carried out as described below starting around 28th March 2018 for approximately fourteen days.

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

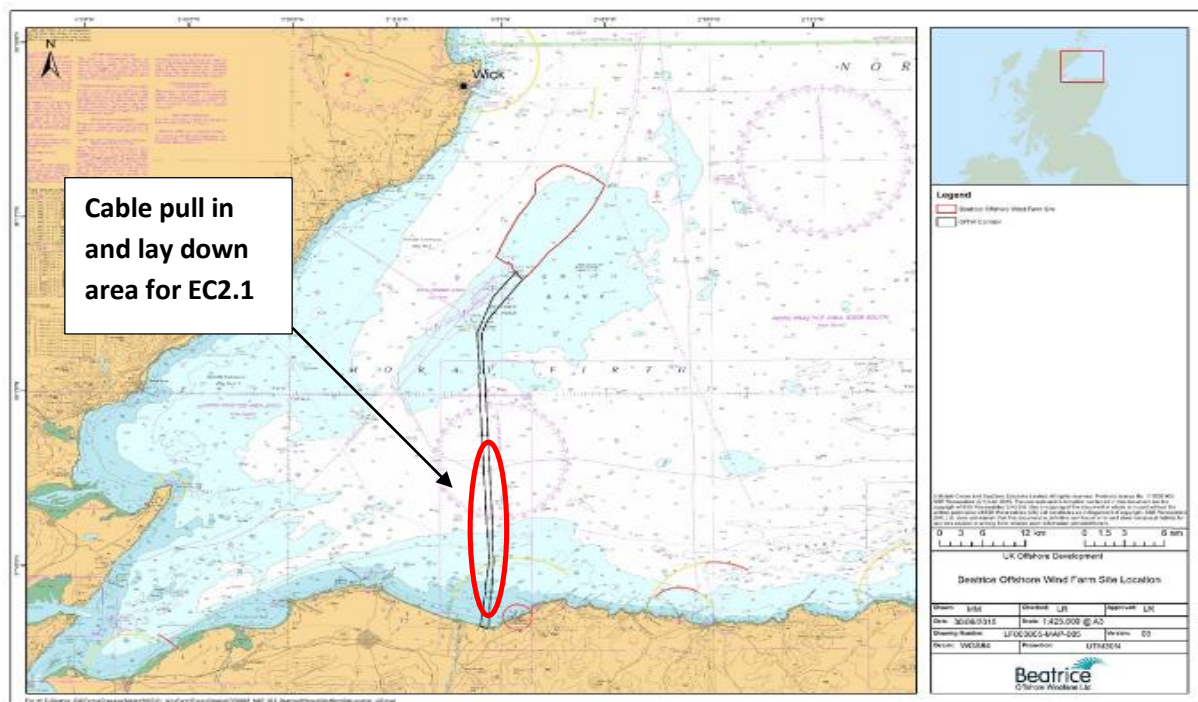


Fig.1 Cable laydown location, approximately 450m – 33km from the Portgordon Beach
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Approximate location of cable pull in end EC2.1 near shore	Latitude WGS84	Longitude WGS84
KP 0.450 on EC2	57° 40.143'N	003°02.655'W
Approximate location of cable laydown end EC2.1	Latitude WGS84	Longitude WGS84
KP 33 on EC2	57° 57.598'N	003°02.661'W

3. Activity Description

On behalf of BOWL, Nexans Norway AS using the cable laying vessel Skagerrak will pull-in Export Cable 2.1 and lay the cable to KP33. The work will commence with preparatory work consisting of:

- Preparation of the cable pull in pipe entrance by a work boat (deployed from Skagerrak) at approximately 450m North of the landfall. This includes recovering the end of a wire from a land based winch and marking with a buoy.
- Prelay survey by the Skagerrak from KP4.5 to KP10

The vessel will commence the cable lay at the nearshore end, where the cable will be deployed onto floats while the vessel is positioned around 1-1.5km North of landfall. As the cable is fed out, it will be tendered by small work boats (deployed from the Skagerrak) and lead towards the cable pull-in pipe.

The end of the cable will be connected to the end of the land based winch via the pull-in pipe and the cable will then be pulled through the pipe to the onshore jointing location (approximately 560m from the pipe entrance). At this point there will be approximately 1-1.5km of cable floating on the sea surface. This will represent a particular hazard to any vessels and to the cable at this stage of the operation.

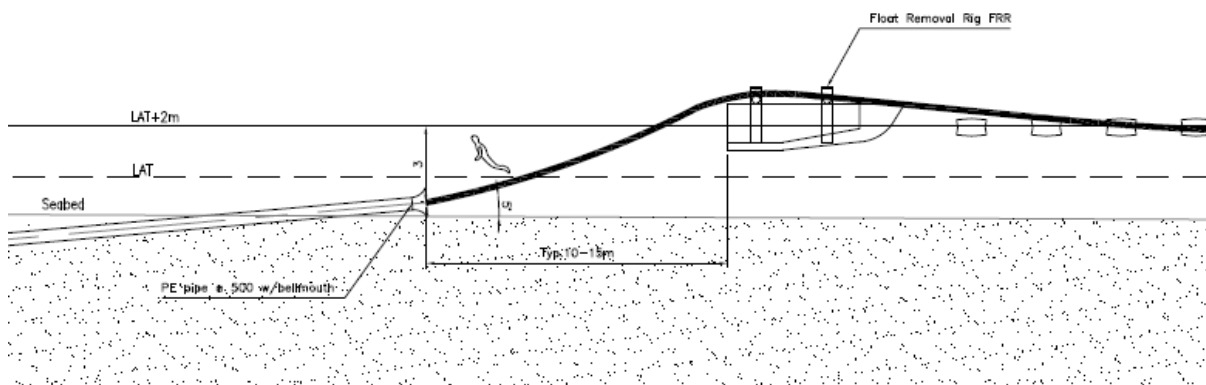


Fig 2. Detail of PE pipe and float rig at shore pull in location KP 0.450

Once the pull-in is complete, the cable floats will be removed working from the pull-in pipe entrance towards the Skagerrak thereby laying the cable on the seabed along the pre-prepared cable route. The cable will remain exposed on the seabed.




Fig 3 Cable being floated ashore from CLV Skagerrak

4. Vessels Associated with the Activity

Skagerrak	
General Description and Dimensions:	Cable Layer L:99.75m / B:35.41m
Call Sign:	LCEK
MMSI:	257253000
Onshore Representative:	Øyvind Haug BEATRICE Installation Engineering Manager Mob: +47 916 27 674 Office: +47 22 88 65 09



NOTICE TO MARINERS

DSV Aramis	
General Description and Dimensions:	Aluminium Workboat; 15.7m, 4.95m 0.80m
Call Sign:	LDEH
MMSI:	257167000
Onshore Representative:	Øyvind Haug BEATRICE Installation Engineering Manager Mob: +47 916 27 674 Office: +47 22 88 65 09
	

5. Crew transfers

Several (5-8) small work boats will be deployed from the Skagerrak to assist with the cable lay. The crews will transfer from the Skagerrak to the work boats.

Crew changes may be made using the DSV Aramis as a CTV using the purpose built crew transfer ladder on the Skagerrak.

6. Adverse Weather Conditions

The most weather sensitive operations are closest to the shore. Those operations will be performed first and require a suitable weather window to complete (i.e. they shall not be started if the weather outlook does not allow completion of the nearshore float out works). Should adverse weather occur during the laying, the Skagerrak will cease cable lay and hold position until suitable working weather returns.

The operational limits for the Skagerrak are listed in below table:

Weather limit	Shore end Floating	Work boat	Laying
Max Wind speed	8 m/s	8 m/s	15 m/s
Max Wave Height, Hs	1m	1 m	3 m

7. 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:

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NOTICE TO MARINERS

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. **The Floating cable extending up to 1500m from the stern of the CLV Skagerrak will be within such an extended safety zone until it is surface laid on the seabed.**
- 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.

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.

8. Dedicated Guard Vessels

The Guard Vessel Shemarah II (LH65) will be in attendance along the cable route and at the Cable Lay Vessel 'Skagerrak'. A second guard vessel may be deployed when the Skagerrak leaves site following the cable laying and jointing operation.

All vessels can be contacted on VHF CH16

5. 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

6. 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/>

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