

NOTICE TO MARINERS

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

Date of Issue	29th October 2017	Notice Number	LF000005-NTM-030-Rev01
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Please promulgate the following as a Notice to Mariners:

BOWL Export Cable EC1. Cable Jointing and Installation of length EC1-2

The second campaign of the installation of two export cables (EC) in the Beatrice Offshore Windfarm export corridors and construction site will commence around 2nd November 2017.

The second length of export cable EC1 (EC1-2) will be jointed to the end of installed cable length EC1-1, then laid to a wet store area in the vicinity of the planned Offshore Transmission Module, within the windfarm array.

The estimated duration of work associated with the EC1-2 cable installation is 10 days, unweathered.

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

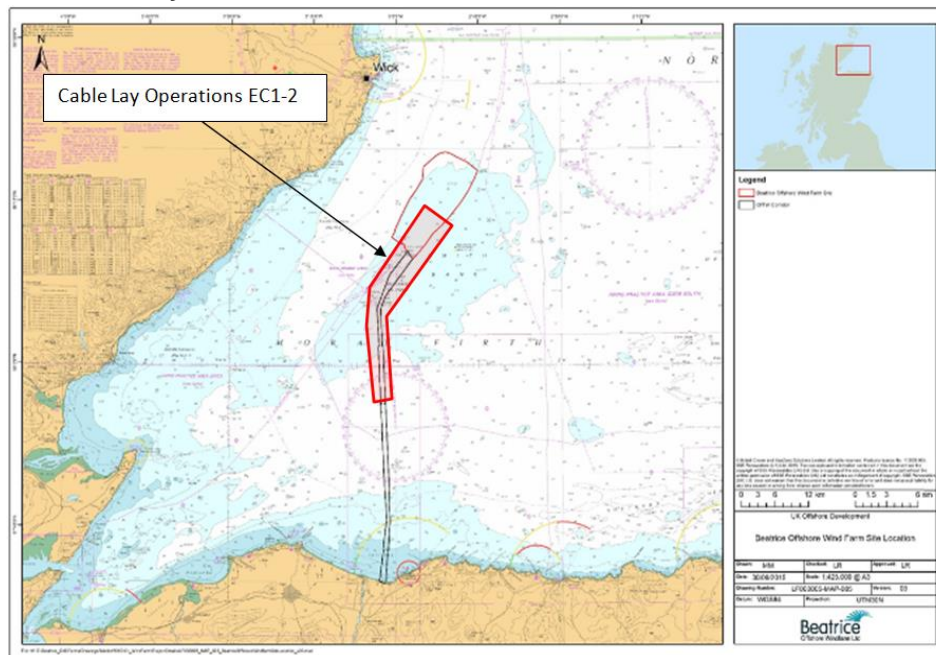


Figure 1 Cable lay operations, approximately 33.5km – 69km from Portgordon Beach
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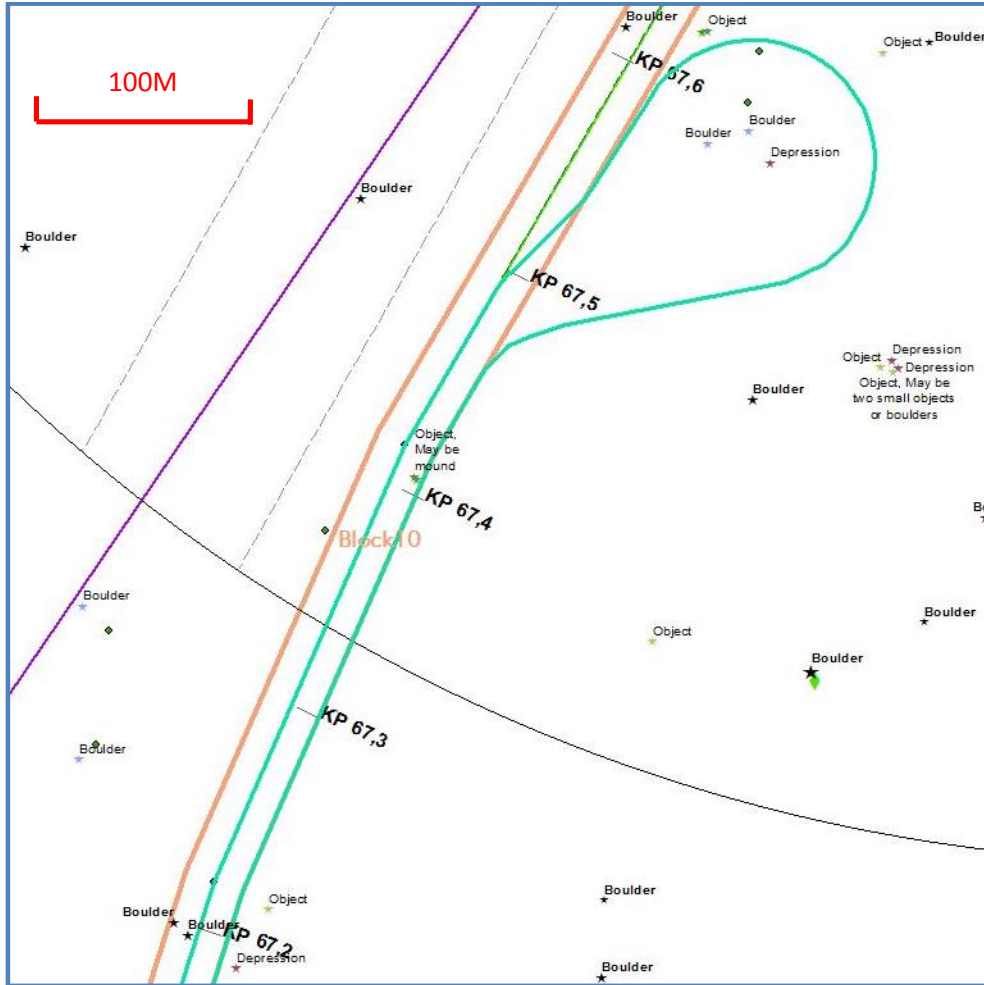


Figure 2 Cable Wet store location within the array area

The locations of the start and end of the cable lay route are presented in the following table:

Approximate location of cable laydown end EC1.1	Latitude WGS84	Longitude WGS84
KP 34 on EC1	57° 58.0615'N	003°02.2797'W
Approximate location of cable wet store loop EC1.2	Latitude WGS84	Longitude WGS84
KP 67.7 on EC1	58° 14.806'N	002°53.028'W

Table 1 Cable installation operations, approximately 33.9 km – 68 km from Portgordon Beach

3. Activity Description

On behalf of BOWL, Nexans Norway AS using the CLV Nexans Skagerrak will install the second section of an export cable. The work will commence with preparatory work consisting of:

- Prelay survey by the Skagerrak from KP34 to KP68
- Recovery of the end of EC1.1 to the deck of Skagerrak, then performing the jointing of EC1-1 to EC1-2 on board the vessel, in the vicinity of KP34

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- Laydown the joint

On completion of the jointing work, the vessel will commence the cable lay from KP34, to the wind farm area (Figure 1), where the end will be laid down in a loop on the seabed for recovery and connection at a later stage (Figure 2).

The cable lay will be supported by two guard vessels, Artemis INS564 and Atlas FR101 which will guard the operations during cable jointing and lay and thereafter guard the unprotected cable on the seabed.

A further guard vessel, Morning Dawn PD359, will continue to operate to the south of the EC1-2 cable length, to guard the unprotected sections of cable EC1-1.

4. Vessels Associated with the Activity

The vessels that are involved with the described operation are the CLV Nexans Skagerrak and the guard vessels Artemis INS564, Atlas FR101, and Morning Dawn PD359.

CLV Nexans 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



GV Atlas FR101

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General Description and Dimensions:	Guard Vessel, L:20m / B: 6m
Call Sign:	MPUD3
MMSI:	235001670
Onshore Representative:	Øyvind Haug BEATRICE Installation Engineering Manager Mob: +47 916 27 674 Office: +47 22 88 65 09



GV Artemis INS569	
General Description and Dimensions:	Guard Vessel L 27.6m / B 8.7m / D 5.1m
Call sign	MVIX5
MMSI	233975000
Onshore representative	Øyvind Haug – Nexans Norway AS BEATRICE Installation Engineering Manager Mob: +47 916 27 674 Office: +47 22 88 65 09



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GV Morning Dawn PD359	
General Description and Dimensions:	Guard vessel, L 44.98m, B9.00 m,
Call sign	MHEU3
MMSI	232253000
Onshore representative	Øyvind Haug – Nexans Norway AS BEATRICE Installation Engineering Manager Mob: +47 916 27 674 Office: +47 22 88 65 09
	

5. Crew transfers

None anticipated.

6. Adverse Weather Conditions

Should adverse weather occur during the jointing and / or laying, the CLV Nexans Skagerrak will cease cable lay operations and hold position until suitable working weather returns. The vessel is severely restricted in manoeuvrability in the event of adverse weather.

The operational limits for the CLV Nexans Skagerrak are listed below:

Weather limit	Pick Up cable	Jointing	Laydown Joint	Laying
Max Wind Force	10 m/s	18 m/s	8 m/s	15 m/s
Max Wave Height, Hs	1.5 m	2.0 m	1.0 m	3.0 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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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.

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 Vessels Artemis INS564 and Atlas FR101, will be in attendance along the cable route and at the Cable Lay Vessel Nexans Skagerrak. Morning Dawn PD359 will remain to the south of the operational area to protect parts of cable length EC1-1.

All vessels can be contacted on VHF CH16

9. 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

10. 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/>