

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

Date of Issue	31st October 2019	Notice Number	LF000005-NTM060-Rev01
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Please promulgate the following as a Notice to Mariners:

### Beatrice Offshore Windfarm – Windfarm Aids to Navigation

This Notice to Mariners details the Marine Navigation Aids functioning during the Operational Phase of the windfarm.

#### 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	<a href="mailto:MC.Bowl@sse.com">MC.Bowl@sse.com</a>
Address	BOWL Marine Coordination Centre Grey Coast Building Harbour Quay Wick Caithness KW1 5EN

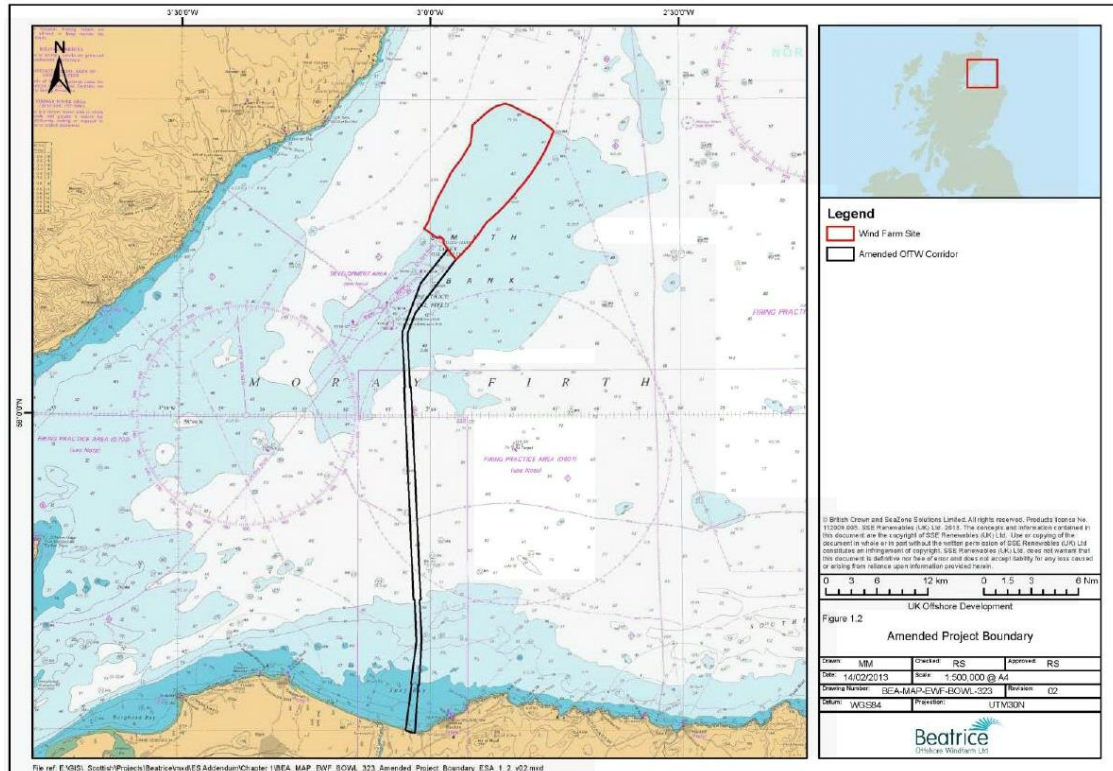


Fig 1. Location of Beatrice OWF and export cable route

## 2. Marine Navigation Lighting and Marking during Operational Phase

2.1 The details of the marking and lighting in the operational phase of the Development have been agreed with NLB in principle and follow the relevant requirements of:

- International Association of Marine Aids to Navigation and Lighthouse Authorities (IALA) Recommendations 0-139 (The Marking of Man-Made Offshore Structures, Edition 2) (IALA, 2013).
- Department For Environment and Climate Change (DECC) Standard Marking Schedule for Offshore Installations (DECC, 2011).
- Maritime and Coastguard Agency (MCA), Marine Guidance Notice (MGN) 371, Offshore Renewable Energy Installations (OREIs) - Guidance on United Kingdom (UK) Navigational Practice, Safety and Emergency Response Issue (MCA, 2008).

Table 1 details the specification required for navigational lighting and sound signals to meet IALA and NLB requirements. Lighting will be provided on Significant Peripheral Structures (SPSs), i.e. those at the corners of the Wind Farm, and on selected Intermediate Peripheral Structures (IPSs).

**Table 1 Marine navigation lights and sound signals specification during operation**

Structure/Type	Specification
<b>Significant Peripheral Structures (SPS)</b>	<ul style="list-style-type: none"> <li>• Located on a corner or other significant point.</li> <li>• Each SPS has 360° visibility, with flashing IALA special mark characteristics (yellow 5 second flash – FL.Y.5s) and with a range of not less than 5 nm.</li> <li>• IALA Category 1 Availability – 99.8%.</li> <li>• All SPS lights are synchronised.</li> <li>• Lights located approx. 22m above Highest Astronomical Tide (HAT).</li> </ul>
<b>Intermediate Peripheral Structure (IPS)</b>	<ul style="list-style-type: none"> <li>• Intermediate structures are those other than a SPS on the periphery.</li> <li>• Each IPS has 360° visibility with a flashing yellow light different to the SPS (2.5 second – FL.Y.2.5s) and at a range of not less than 2 nm.</li> <li>• IALA Category 1 Availability – 99.8%</li> <li>• All IPS lights are synchronised.</li> <li>• Lights located approx. 22m above Highest Astronomical Tide (HAT).</li> </ul>
<b>Sound Signals</b>	<ul style="list-style-type: none"> <li>• Sound signals Morse U in rhythmic blasts every 30 seconds.</li> <li>• The minimum duration of each blast 0.75 seconds.</li> <li>• The range not less than 2 nm.</li> <li>• Sound signals are remotely operated to turn on when visibility drops below 2 nm or less.</li> <li>• 360° audibility</li> <li>• IALA Category 3 Availability - 97.0%.</li> <li>• fitted with a functionality test.</li> <li>• located approx. 22m above Highest Astronomical Tide (HAT).</li> </ul>

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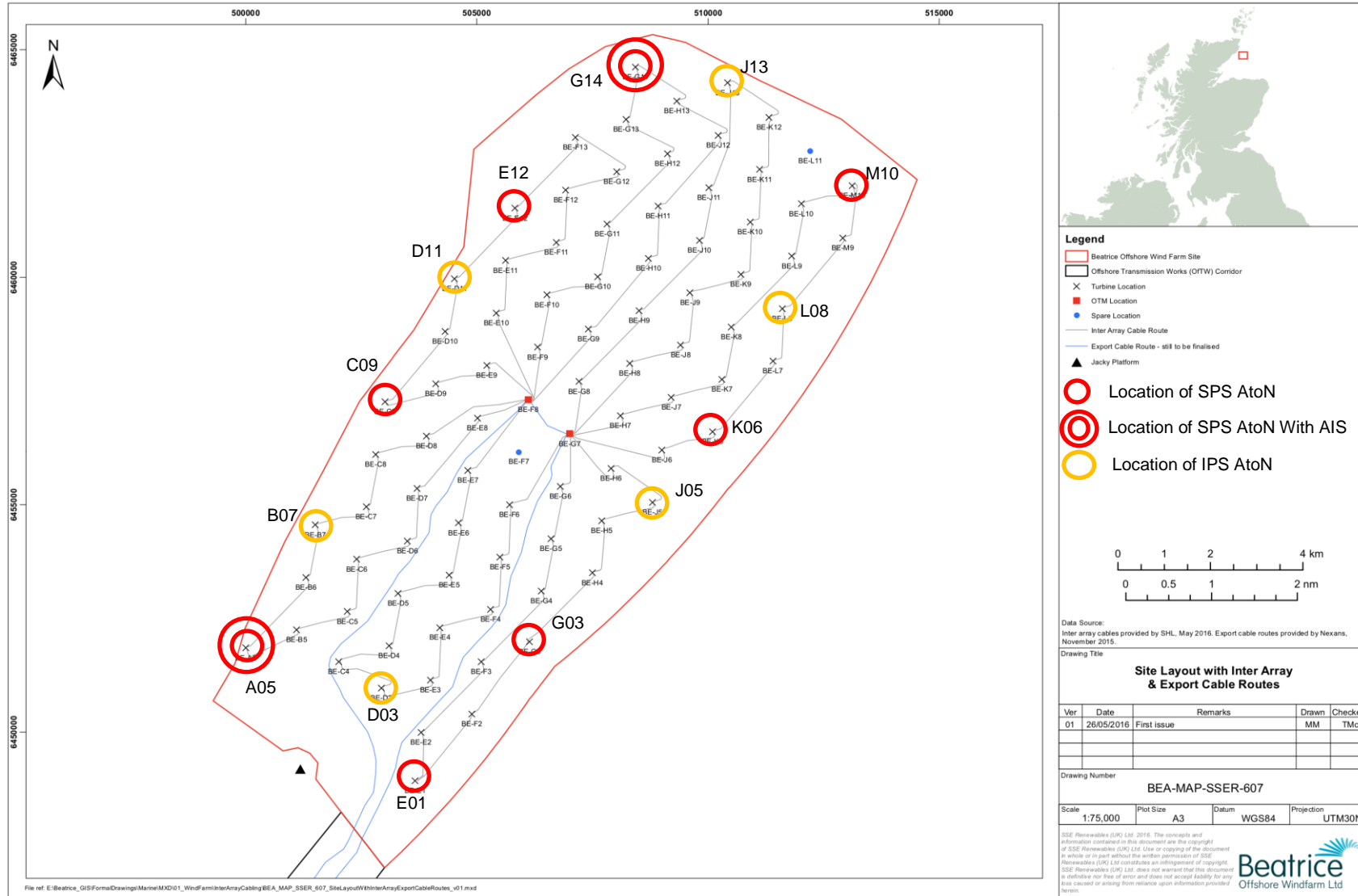


Fig 3 Marine Navigation Lighting and Marking during Operational Phase  
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Table 2 Locations and description of WTG mounted AtoN

Location	Latitude		Description
E01	58° 10.899' N	002° 56.257' W	SPS + SOUND
D03	58° 11.994' N	002° 57.002' W	IPS
A05	58° 12.471' N	002° 59.996' W	SPS + SOUND + AIS MMSI 992356071
B07	58° 13.929' N	002° 58.456' W	IPS
C09	58° 15.386' N	002° 56.915' W	SPS + SOUND
D11	58° 16.844' N	002° 55.353' W	IPS
E12	58° 17.680' N	002° 54.037' W	SPS
G14	58° 19.351' N	002° 51.362' W	SPS + SOUND + AIS MMSI 992356070
J13	58° 19.159' N	002° 49.319' W	IPS
M10	58° 17.938' N	002° 46.571' W	SPS + SOUND
L08	58° 16.482' N	002° 48.122' W	IPS
K06	58° 15.027' N	002° 49.669' W	SPS + SOUND
J05	58° 14.192' N	002° 51.005' W	IPS
G03	58° 12.565' N	002° 53.765' W	SPS

### 3. General Safety Advice

**ALL VESSELS ARE REQUESTED** to give all construction, maintenance 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.

### 4. Fisheries Liaison

Fisheries liaison associated with the activity will be co-ordinated by Brown and May Marine. For any commercial fishery queries please contact:

Jen Hilton-Miller Tel + 44 (0)1379 872144 Mobile +44 (0)7519 106002 jen.miller@brownmay.com

### 5. 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/>

This contains all Notices to Mariners (NtM) published by BOWL and all Weekly Notices of Operations, together with a large amount of general information about the Project.

There is also a Twitter feed at <https://twitter.com/beatricewind>

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