

# Weekly Notice of Operations (WNoO)

## Beatrice Offshore Windfarm Limited

### Construction Operations



Issue Date: 02 July 2018

LF000005-WNO-013: Weekly Notice of Operations - Rev 61

#### Notice of Operations at Beatrice Offshore Wind Farm

Work Planned for the Period 02.07.2018 to 08.07.2018

Construction of the Beatrice Offshore Wind Farm commenced on the 1<sup>st</sup> of April 2017. This notice will be updated weekly giving information on the progress and resources involved in the offshore project. The intention is to give an overview of activities and vessels involved. Should anyone have questions regarding the operations, we kindly ask you to put them forward well in advance.

Beatrice Offshore Windfarm Limited (BOWL) is developing the Beatrice Offshore Wind Farm in the 'Outer' Moray Firth on the north-western point of the Smith Bank, approximately 7 nm off the Caithness coastline. The development site will cover an approximate area of up to 130km<sup>2</sup> and will consist of 84 7MW offshore wind turbines (with a total capacity of 588MW) and two HVAC Offshore Transformer Modules (OTM). Water depths in the area range from approximately 38m below LAT in the south of the field to 60m below LAT in the north. The generated power will be transmitted to the grid via two subsea export / transmission cables with a landfall near Portgordon to the south of the field and grid connection at Blackhillock. The transmission cables will cover a route of approximately 38 nm from the wind farm boundary back to the landfall. The Beatrice Offshore Wind Farm development area is highlighted in red below, the OFTW cable corridor in black.

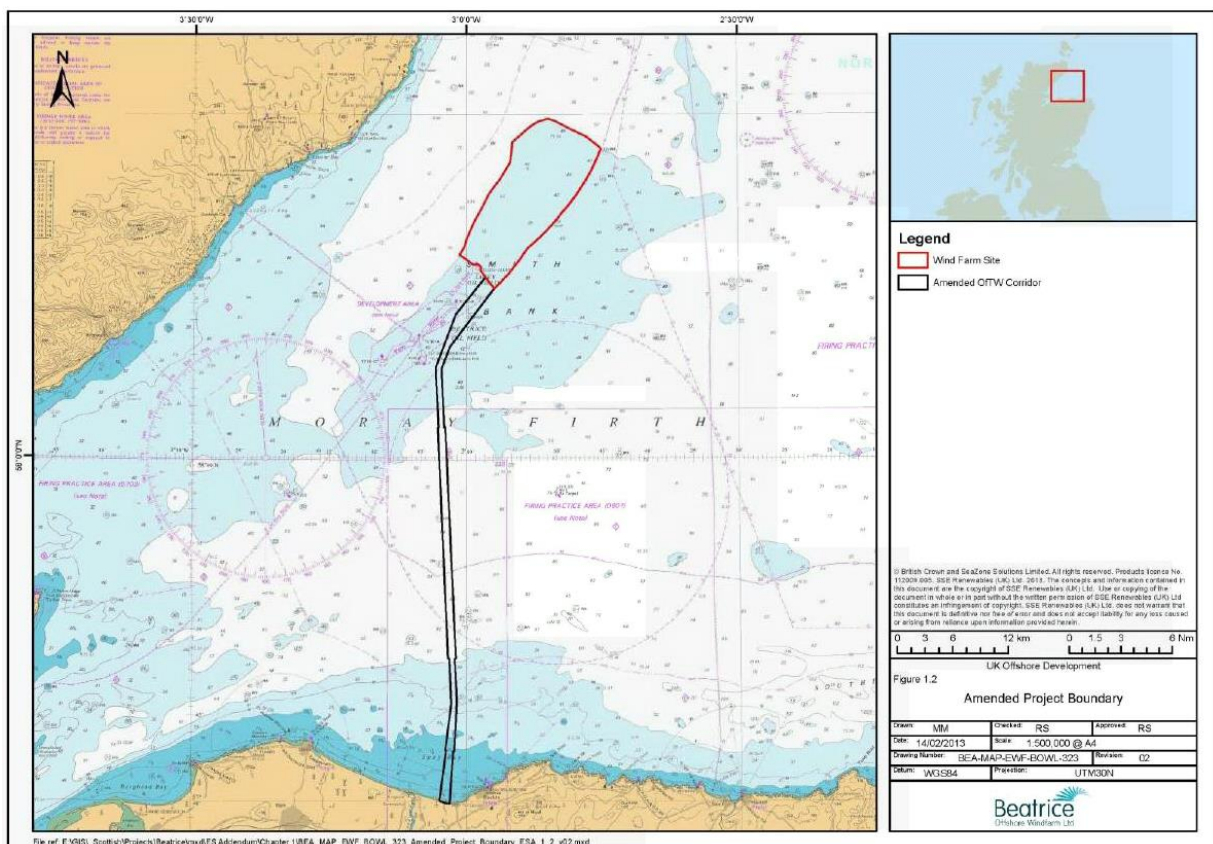


Fig. 1 Beatrice Offshore Wind Farm Location

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#### 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	+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	Unit 1 Harbour Office Wick Caithness KW1 5HA

#### 2. Ongoing Operations

##### 2.1 Beatrice Offshore Wind Farm Jacket Installation Campaign

Project:	Jacket Installation Campaign (See Notice to Mariners) NTM-032 Rev01
Contractor:	SHL
Contract Purpose:	To install WTG & OTM Jackets at completed piled locations within the construction site.
Area:	BOWL Construction Site: Jacket Locations (See Fig. 2 Table1)
Deployment Dates:	08 August 2017 – September 2018
Deployment Vessels:	HLV Oleg Strashnov, AHT Maersk Trader, Bremen Fighter, Britoil 120, VOS Prelude, Rix Lion, Rix Panther, Rix Cheetah
Equipment:	HLV equipment, Pile cleaning equipment, Grouting equipment.

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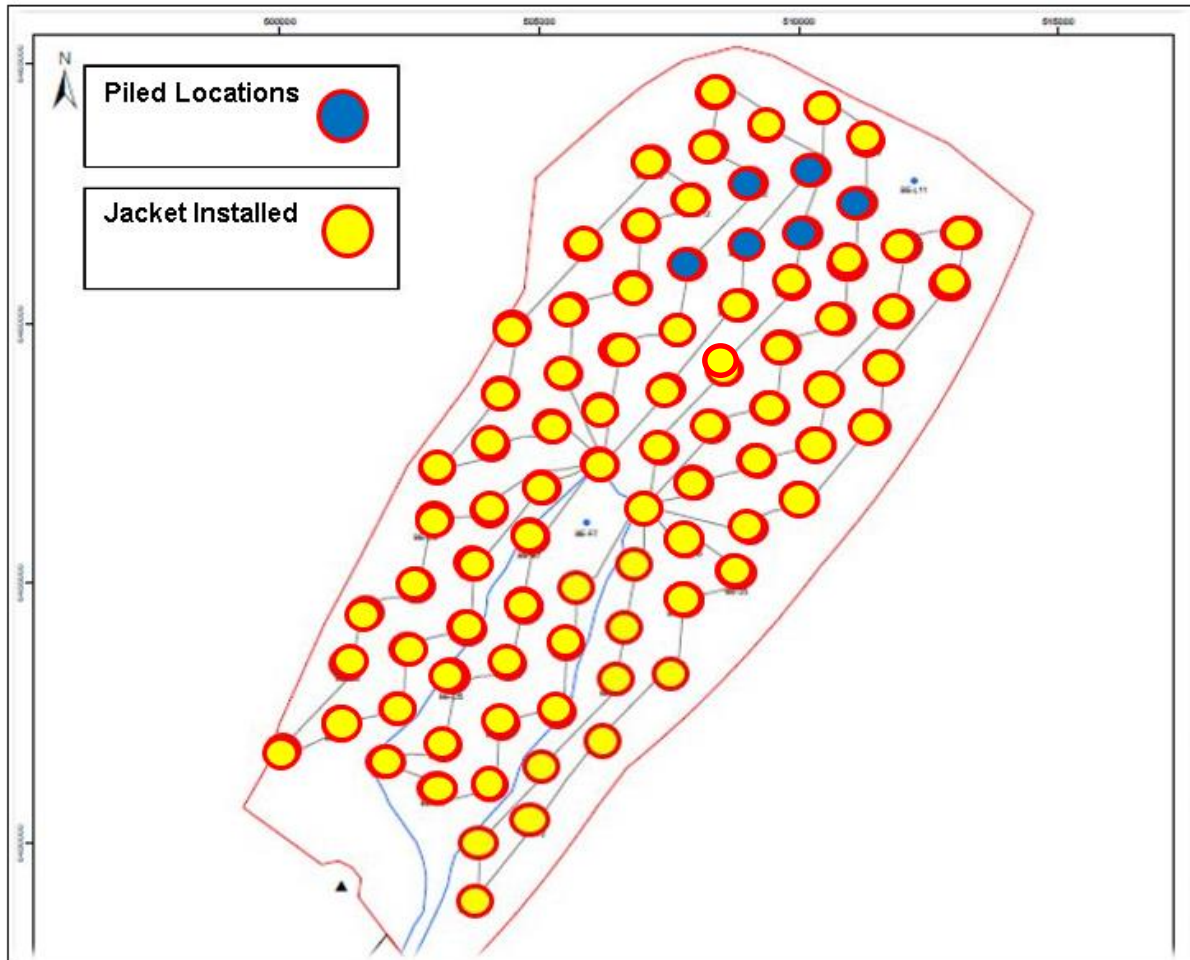


Fig. 2 Pile installation completed at 86 Locations

Foundation installation completed at 80 Locations

Table 1 - WTG and OTM Location Coordinates

Location ID	Latitude WGS84	Longitude WGS84	Piling Complete	Jacket installed
BE-A5	58° 12.471' N	002° 59.996' W	14.07.2017	21.04.2018
BE-B5	58° 12.687' N	002° 58.873' W	12.07.2017	23.03.2018
BE-B6	58° 13.308' N	002° 58.664' W	16.06.2017	22.02.2018
BE-B7	58° 13.929' N	002° 58.456' W	18.07.2017	20.02.2018
BE-C4	58° 12.307' N	002° 57.948' W	23.05.2017	13.12.2017
BE-C5	58° 12.902' N	002° 57.749' W	11.07.2017	09.02.2018
BE-C6	58° 13.524' N	002° 57.541' W	10.07.2017	08.02.2018
BE-C7	58° 14.144' N	002° 57.332' W	15.06.2017	01.09.2017
BE-C8	58° 14.766' N	002° 57.124' W	17.07.2017	20.01.2018

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Location ID	Latitude WGS84	Longitude WGS84	Piling Complete	Jacket installed
BE-C9	58° 15.386' N	002° 56.915' W	28.08.2017	07.06.2018
BE-D3	58° 11.995' N	002° 57.002' W	21.05.2017	12.12.2017
BE-D4	58° 12.497' N	002° 56.834' W	22.06.2017	14.12.2017
BE-D5	58° 13.117' N	002° 56.626' W	26.05.2017	21.01.2018
BE-D6	58° 13.739' N	002° 56.417' W	13.06.2017	31.08.2017
BE-D7	58° 14.359' N	002° 56.209' W	31.05.2017	18.01.2018
BE-D8	58° 14.981' N	002° 55.999' W	02.06.2017	20.12.2017
BE-D9	58° 15.602' N	002° 55.790' W	16.07.2017	21.09.2017
BE-D10	58° 16.223' N	002° 55.582' W	31.08.2017	30.05.2018
BE-D11	58° 16.844' N	002° 55.373' W	13.08.2017	21.06.2018
BE-E1	58° 10.900' N	002° 56.256' W	10.04.2017	01.09.2017
BE-E2	58° 11.470' N	002° 56.128' W	14.04.2017	16.08.2017
BE-E3	58° 12.090' N	002° 55.920' W	19.04.2017	02.12.2017
BE-E4	58° 12.712' N	002° 55.710' W	02.07.2017	20.09.2017
BE-E5	58° 13.333' N	002° 55.502' W	19.05.2017	03.02.2018
BE-E6	58° 13.954' N	002° 55.293' W	18.05.2017	24.08.2017
BE-E7	58° 14.575' N	002° 55.084' W	01.06.2017	25.08.2017
BE-E8	58° 15.196' N	002° 54.875' W	30.05.2017	18.12.2017
BE-E9	58° 15.817' N	002° 54.665' W	15.07.2017	21.09.2017
BE-E10	58° 16.438' N	002° 54.456' W	01.09.2017	08.05.2018
BE-E11	58° 17.059' N	002° 54.247' W	19.09.2017	10.06.2018
BE-E12	58° 17.680' N	002° 54.037' W	14.08.2017	25.06.2018
BE-F2	58° 11.685' N	002° 55.005' W	03.07.2017	06.09.2017
BE-F3	58° 12.306' N	002° 54.796' W	17.04.2017	07.09.2017
BE-F4	58° 12.927' N	002° 54.588' W	04.07.2017	19.09.2017
BE-F5	58° 13.548' N	002° 54.378' W	17.05.2017	14.09.2017
BE-F6	58° 14.168' N	002° 54.169' W	11.05.2017	11.09.2017
BE-F8 (OTM2)	58° 15.411' N	002° 53.750' W	08.04.2017	25.04.2018
BE-F9	58° 16.031' N	002° 53.540' W	22.09.2017	09.06.2018
BE-F10	58° 16.653' N	002° 53.330' W	20.09.2017	16.06.2018
BE-F11	58° 17.274' N	002° 53.120' W	07.09.2017	15.05.2018
BE-F12	58° 17.894' N	002° 52.911' W	05.07.2017	13.05.2018
BE-F13	58° 18.516' N	002° 52.701' W	10.09.2017	17.05.2018
BE-G3	58° 12.544' N	002° 53.726' W	28.05.2017	15.08.2017
BE-G4	58° 13.142' N	002° 53.464' W	17.06.2017	08.09.2017
BE-G5	58° 13.762' N	002° 53.254' W	10.05.2017	09.09.2017
BE-G6	58° 14.384' N	002° 53.044' W	06.05.2017	20.08.2017
BE-G7 (OTM1)	58° 15.004' N	002° 52.834' W	03.04.2017	06.02.2018
BE-G8	58° 15.625' N	002° 52.625' W	07.07.2017	10.09.2017
BE-G9	58° 16.247' N	002° 52.415' W	04.11.2017	18.06.2018
BE-G10	58° 16.867' N	002° 52.204' W	21.09.2017	30.04.2018
BE-G11	58° 17.488' N	002° 51.994' W	20.08.2017	
BE-G12	58° 18.109' N	002° 51.784' W	18.08.2017	26.06.2018
BE-G13	58° 18.730' N	002° 51.574' W	13.09.2017	29.05.2018
BE-G14	58° 19.351' N	002° 51.362' W	14.09.2017	27.05.2018



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BE-H4	58° 13.356' N	002° 52.339' W	19.06.2017	13.08.2017
BE-H5	58° 13.977' N	002° 52.130' W	20.06.2017	27.08.2017
BE-H6	58° 14.598' N	002° 51.920' W	20.04.2017	21.08.2017
BE-H7	58° 15.219' N	002° 51.709' W	08.07.2017	11.05.2018
BE-H8	58° 15.840' N	002° 51.499' W	06.05.2017	13.09.2017
BE-H9	58° 16.461' N	002° 51.289' W	15.11.2017	12.06.2018
BE-H10	58° 17.082' N	002° 51.079' W	27.10.2017	17.06.2018
BE-H11	58° 17.703' N	002° 50.867' W	10.10.2017	
BE-H12	58° 18.324' N	002° 50.657' W	09.09.2017	
BE-H13	58° 18.944' N	002° 50.446' W	07.10.2017	16.05.2018
BE-J5	58° 14.192' N	002° 51.005' W	04.05.2017	26.08.2017
BE-J6	58° 14.812' N	002° 50.795' W	21.06.2017	25.03.2018
BE-J7	58° 15.433' N	002° 50.585' W	06.08.2017	14.05.2018
BE-J8	58° 16.055' N	002° 50.373' W	12.06.2017	22.12.2017
BE-J9	58° 16.675' N	002° 50.163' W	04.08.2017	09.05.2018
BE-J10	58° 17.296' N	002° 49.952' W	03.12.2017	11.06.2018
BE-J11	58° 17.917' N	002° 49.741' W	26.08.2017	
BE-J12	58° 18.538' N	002° 49.530' W	27.08.2017	
BE-J13	58° 19.159' N	002° 49.319' W	08.10.2017	26.05.2018
BE-K6	58° 15.027' N	002° 49.669' W	07.08.2017	24.12.2017
BE-K7	58° 15.648' N	002° 49.459' W	08.08.2017	30.12.2017
BE-K8	58° 16.269' N	002° 49.247' W	31.07.2017	27.04.2018
BE-K9	58° 16.890' N	002° 49.036' W	05.08.2017	29.04.2018
BE-K10	58° 17.510' N	002° 48.825' W	21.08.2017	23.06.2018
BE-K11	58° 18.131' N	002° 48.614' W	25.08.2017	
BE-K12	58° 18.752' N	002° 48.403' W	09.10.2017	18.05.2018
BE-L7	58° 15.862' N	002° 48.333' W	09.08.2017	01.01.2018
BE-L8	58° 16.482' N	002° 48.122' W	25.07.2017	20.04.2018
BE-L9	58° 17.104' N	002° 47.910' W	31.07.2017	24.05.2018
BE-L10	58° 17.724' N	002° 47.698' W	30.07.2017	27.05.2018
BE-M9	58° 17.317' N	002° 46.784' W	27.07.2017	08.06.2018
BE-M10	58° 17.938' N	002° 46.571' W	28.07.2017	30.05.2018

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## 2.2 Inter Array Cable Pre Lay Grapnel Run (PLGR) & Inter Array Cable Installation

Siem Aimery has been on site acting as an accommodation vessel for Siem Offshore Contractors technicians, who have been carrying out testing and remedial works on various strings. Siem Aimery will depart site on 2<sup>nd</sup> July to demobilise in Peterhead and sail for Hartlepool to load cable for the 3<sup>rd</sup> cable installation campaign.

Stril Server will mobilise in Peterhead on 3<sup>rd</sup> July and take over from Siem Aimery on site.

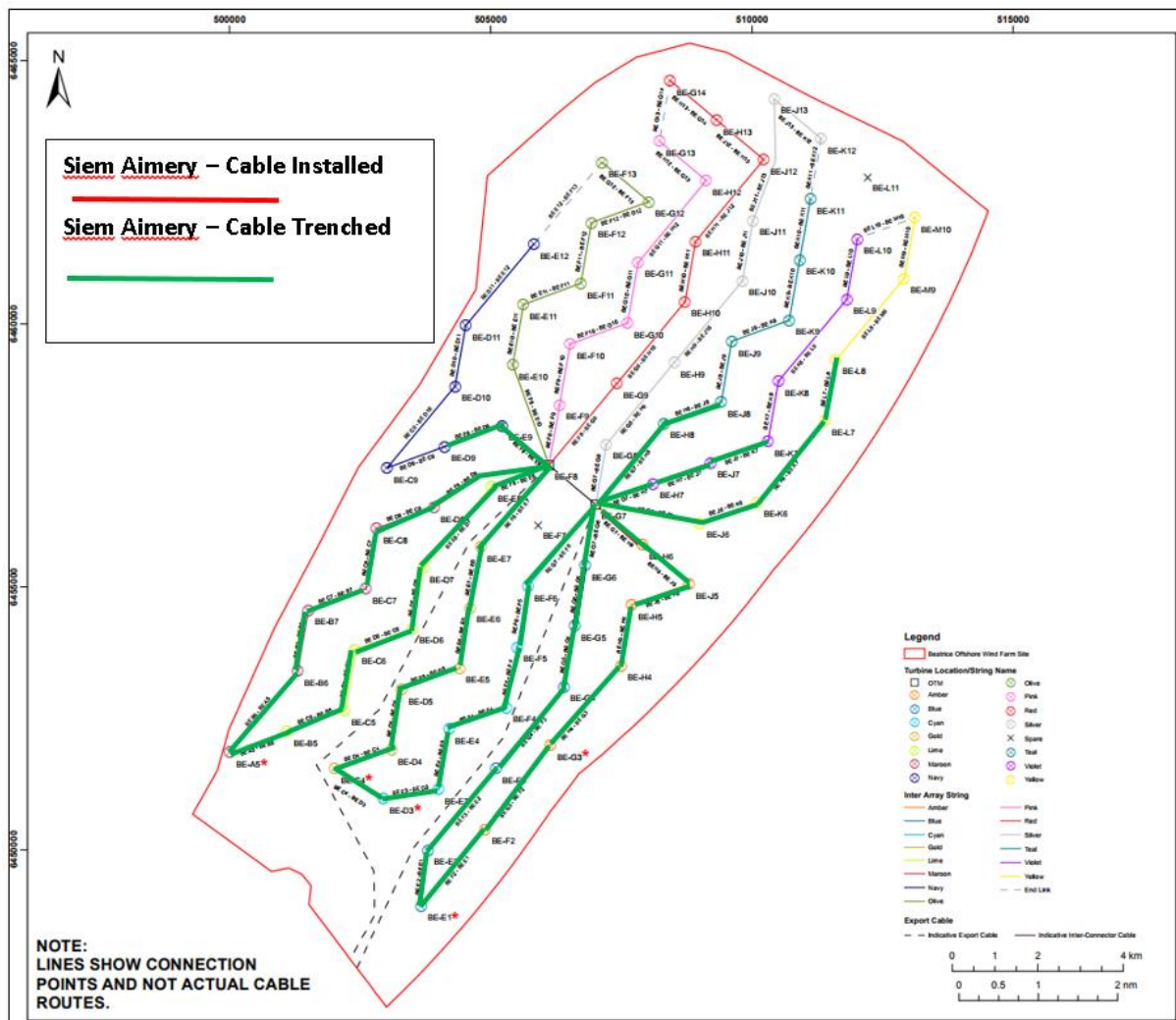


Fig. 3 Cable installation Progress

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Installation Sequence	Cable Name	Seabed Route-length m	Latitude Start	Longitude Start	Latitude Finish	Longitude Finish	Cable laid	Cable buried
17	BE-E3-BE-D3	1300.7	58°12.084N	2°55.908W	58°11.99N	2°56.974W	12.03.2018	13.03.2018
18	BE-D3-BE-C4	1419.8	58°12.010N	2°56.975W	58°12.31N	2°57.918W	13.03.2018	13.03.2018
19	BE-E5-BE-D5	1354.3	58°13.327N	2°55.488W	58°13.12N	2°56.615W	20.03.2018	23.03.2018
20	BE-E6-BE-E5	1235.9	58°13.948N	2°55.279W	58°13.34N	2°55.490W	21.03.2018	23.03.2018
21	BE-D4-BE-C4	1253.0	58°12.491N	2°56.821W	58°12.32N	2°57.920W	19.03.2018	20.03.2018
22	BE-D5-BE-D4	1233.6	58°13.112N	2°56.611W	58°12.50N	2°56.824W	26.03.2018	07.04.2018
23	BE-D7-BE-D6	1257.0	58°14.353N	2°56.196W	58°13.744N	°56.406W	21.03.2018	24.03.2018
24	BE-E8-BE-D7	2086.7	58°14.366N	2°56.198W	58°15.189N	2°54.862W	22.03.2018	24.03.2018
25	BE-D6-BE-C6	1300.5	58°13.733N	2°56.405W	58°13.529N	2°57.531W	09.04.2018	10.04.2018
26	BE-C6-BE-C5	1257.8	58°13.517N	2°57.529W	58°12.908N	2°57.740W	09.04.2018	10.04.2018
27	BE-C5-BE-B5	1291.4	58°12.896N	2°57.736W	58°12.693N	2°58.863W	09.04.2018	10.04.2018
28	BE-J7-BE-K7	1291.5	58°15.439N	2°50.574W	58°15.642N	2°49.445W		
29	BE-H7-BE-J7	1289.3	58°15.224N	2°51.698W	58°15.428N	2°50.572W	21.05.2018	22.05.2018
30	BE-C8-BE-C7	1231.2	58°14.760N	2°57.110W	58°14.150N	2°57.322W	14.04.2018	28.04.2018
31	BE-C7-BE-B7	1334.5	58°14.139N	2°57.320W	58°13.936N	2°58.445W	10.04.2018	12.04.2018
32	BE-D8-BE-C8	1346.3	58°14.975N	2°55.985W	58°14.772N	2°57.113W	20.04.2018	28.04.2018
33	BE-B7-BE-B6	1232.9	58°13.923N	2°58.443W	58°13.314N	2°58.654W	15.04.2018	
34	BE-K6-BE-L7	2087.5	58°15.033N	2°49.659W	58°15.856N	2°48.319W	15.04.2018	18.04.2018
35	BE-E9-BE-D9	1351.8	58°15.811N	2°54.651W	58°15.609N	2°55.780W	21.04.2018	29.04.2018
36	BE-J6-BE-K6	1301.9	58°14.819N	2°50.784W	58°15.021N	2°49.656W	19.04.2018	
37	OTM1 -BE-H6	1624.4	58°14.995N	2°52.838W	58°14.592N	2°51.907W	17.04.2018	
38	OTM1 -BE-F6	2052.5	58°15.004N	2°52.849W	58°14.175N	2°54.158W	18.04.2018	23.04.2018
39	OTM1-BE-G6	1261.5	58°14.995N	2°52.841W	58°14.389N	2°53.033W	19.04.2018	23.04.2018
40	OTM2 -BE-E7	2023.3	58°15.403N	2°53.760W	58°14.584N	2°55.075W	23.05.2018	24.05.2018
41	OTM2 -BE-E8	1146.7	58°15.412N	2°53.765W	58°15.201N	2°54.865W	24.05.2018	25.05.2018
42	BE-H8-BE-J8	1292.3	58°15.846N	2°51.487W	58°16.049N	2°50.359W	21.04.2018	23.04.2018
43	OTM1 -BE-H7	1327.2	58°15.000N	2°52.817W	58°15.213N	2°51.696W	20.05.2018	22.05.2018
44	OTM1 -BE-H8	2116.7	58°15.009N	2°52.822W	58°15.834N	2°51.484W	22.04.2018	23.04.2018
45	OTM2 -BE-D8	2375.6	58°15.414N	2°53.766W	58°14.987N	2°55.989W	24.05.2018	25.05.2018
46	OTM1 -BE-J6	2320.0	58°14.997N	2°52.820W	58°14.806N	2°50.781W	23.04.2018	01.05.2018
47	OTM2 -BE-E9	1462.4	58°15.407N	2°53.733W	58°16.025N	2°53.526W	25.05.2018	25.05.2018
48	BE-L7-BE-L8	1249.0	58°15.868N	2°48.322W	58°16.477N	2°48.108W	24.04.2018	25.04.2018
49	BE-D9-BE-C9	1462.4	58°15.596N	2°55.777W	58°15.381N	2°56.901W		
50	BE-C9-BED10	2084.4	58°15.393N	2°56.904W	58°16.214N	2°55.570W		
51	BE-B6-BE-A5	2030.0	58°13.308N	2°58.664W	58°12.471N	2°59.996W	26.05.2018	27.05.2018
*Trial 1	BE-A6-BE-B5	~100m	58°12.704N	2°59.391W	58°12.701N	2°59.461W		
*Trial 2	BE-H11-BE-J12	~100m	58°18.042N	2°50.221W	58°18.122N	2°50.085W		
*Trial 3	BE-J11-BE-J13	~150m	58°18.166N	2°49.490W	58°18.217N	2°49.458W		

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#### 2.2.1 – Vessels Involved in Activity

On behalf of BOWL, Seaway Heavy Lifting has deployed the Siem Aimery, Stril Server and Marineco Mariah to carry out the aforementioned works.

CLV Siem Aimery	
<b>General Description and Dimensions:</b>	Length overall 95.3 m Breadth moulded 21.5 m Draft max. 7.2 m
<b>Call Sign:</b>	LATX7
<b>MMSI:</b>	258182000
<b>Onshore Representative:</b>	Majbritt Pauladottir, +47 95 93 60 32, mpa@siemoffshore.com
	

Marineco Mariah	
<b>General Description and Dimensions:</b>	Crew Transfer Vessel LOA 27 m Breadth moulded 10m Draft max. 2.2m
<b>Call Sign:</b>	2EXU3
<b>MMSI:</b>	235089035
<b>Onshore Representative:</b>	Auden Oien + 47 38 600 460 Auden.oien@siemoffshore.com
	




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Stril Server	
General Description and Dimensions:	Offshore Supply / Walk to Work Vessel LOA: 85.35 x Breadth:18.63m
Call Sign:	LARP7
MMSI:	258873000
Onshore Representative:	Danny Sprangers Seaway Heavy Lifting Mail: dsprangers@shl.nl
	

### 2.3 Offshore Transmission Modules (OTM) Commissioning Works

Siemens Transmission and Distribution Ltd (STDL) are carrying out commissioning works on OTM1 and OTM2 in preparation for the energisation of the system.

On the 31<sup>st</sup> May at 1800hrs the following assets came under the control of the SSE  
Operational Safety Rules: Shunt Reactor 3, EC1, EC2 up to transition joint bay,  
Interconnector Cable, OTM1, OTM2, Cyan, Blue, Gold and Amber Strings.



Fig. 4 OTM1

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Fig. 5 OTM2

The jack-up vessel, Seajacks Kraken is connected to OTM2 to provide accommodation facilities for commissioning operations.

#### 2.3.1 – Vessels Involved in Activity

Seajacks Kraken	
<b>General Description and Dimensions:</b>	Jack-Up Accommodation vessel L:62m / B:36m
<b>Call Sign:</b>	3ESD6
<b>MMSI:</b>	370267000
<b>Onshore Representative:</b>	Beatrice Offshore Windfarm Ltd. mc.bowl@sse.com



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## 2.4 Offshore Installation of Wind Turbines

Siemens Gamesa Renewable Energy (SGRE) will supply and install 84 x 7.0 MW wind turbines in the Beatrice Offshore Windfarm (BOWL).

Wind turbine installation and commissioning works will commence offshore during July 2018, with completion of the installation expected in the Spring of 2019.

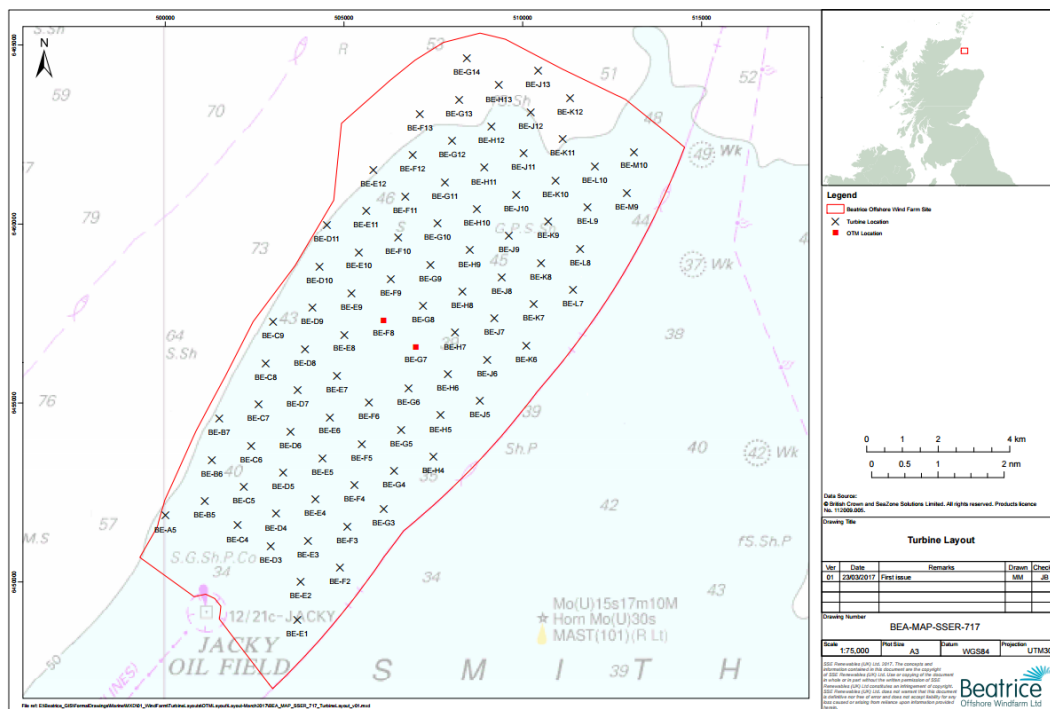


Fig. 6 Locations of WTG in the BOWL Construction Site

### 2.4.1 Activity Description

On behalf of BOWL, Siemens Gamesa Renewable Energy (SGRE) will supply 84 x SWT -7.0-154, 7MW Wind Turbine Generators to the laydown and assembly yard at Nigg Energy Park, in the Moray Firth.

Following pre-assembly, five sets of WTGs will be loaded onto the Offshore Installation / Jack up Vessel Pacific Orca. The vessel will transport the WTGs to the BOWL construction site, installing each of the structures in a pre-programmed installation sequence.

The installation programme will commence in July 2018 and will continue to completion in Spring 2019.

The commissioning works will be carried out using a combination of the Walk to Work (W2W) vessel Island Crown and the Crew Transfer Vessels (CTV), Fob Swath 3 and Seacat Resolute.

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SGRE will also install and commission the Supervisory Control and Data Acquisition (SCADA) system for the operation of the WTGs.



**Fig. 7** Siemens SWT-7.0-154 WTG



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#### 2.4.2 Vessels Involved in Activity

Pacific Orca	
<b>General Description and Dimensions:</b>	Offshore Installation / Jack up Vessel 161m x 49m
<b>Call Sign:</b>	5BRE3
<b>MMSI:</b>	210548000
<b>Onshore Representative:</b>	Gert Christensen, Marine Operation Manager Siemens Gamesa Renewable Energy A/S Fiskergade 1-9, 7100 Vejle, Denmark Mobile: +45 24295577 mailto:gert.christensen@siemensgamesa.com



Island Crown	
<b>General Description and Dimensions:</b>	Accommodation and 'Walk to Work' vessel L:96.8m / B:20m
<b>Call Sign:</b>	LACO8
<b>MMSI:</b>	257245000
<b>Onshore Representative:</b>	Gert Christensen, Marine Operation Manager Siemens Gamesa Renewable Energy A/S Fiskergade 1-9, 7100 Vejle, Denmark Mobile: +45 24295577 mailto:gert.christensen@siemensgamesa.com




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Fob Swath 3	
<b>General Description and Dimensions:</b>	Crew Transfer Vessel (CTV) L: 25m / B: 11m
<b>Call Sign:</b>	OUWY2
<b>MMSI:</b>	219460000
<b>Onshore Representative:</b>	Gert Christensen, Marine Operation Manager Siemens Gamesa Renewable Energy A/S Fiskergade 1-9, 7100 Vejle, Denmark Mobile: +45 24295577 mailto:gert.christensen@siemensgamesa.com
	

Seacat Resolute	
<b>General Description and Dimensions:</b>	Crew Transfer Vessel (CTV) L: 25m / B: 11m
<b>Call Sign:</b>	2FWR9
<b>MMSI:</b>	235094873
<b>Onshore Representative:</b>	Gert Christensen, Marine Operation Manager Siemens Gamesa Renewable Energy A/S Fiskergade 1-9, 7100 Vejle, Denmark Mobile: +45 24295577 mailto:gert.christensen@siemensgamesa.com
	

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## 2.5 Scientific Equipment Removal & Service and Re-installation

Currently the University of Aberdeen has only four sets of acoustic loggers located within the BOWL construction site.

Name	As laid coordinates (WGS84 datum)		Characteristics
160	58° 17.648' N	2° 49.931' W	Subsurface with transponder.
161	58° 12.933' N	2° 55.954' W	Subsurface with transponder.
162	58° 18.176' N	2° 54.124' W	Subsurface with transponder.
164	58° 12.830' N	2° 51.669' W	Subsurface with transponder

The moorings support sound recording equipment and acoustic loggers that record echolocation clicks of dolphins and porpoises (see images at the foot of this notice). Subsurface moorings fitted with acoustic releases extend no more than three metres vertically from the seabed. Subsurface moorings without acoustic releases extend no more than two metres vertically from the seabed.

A Notice to Mariners will be issued when the moorings are permanently discontinued.

For information and enquiries please contact: Tim Candido- Barton,  
Lighthouse Field Station, University of Aberdeen, George St., Cromarty, Ross-shire,  
IV11 8YL.

+44 (0)1381 600548.

[t.r.barton@abdn.ac.uk](mailto:t.r.barton@abdn.ac.uk)



Fig. 8 Examples of equipment which the above moorings support



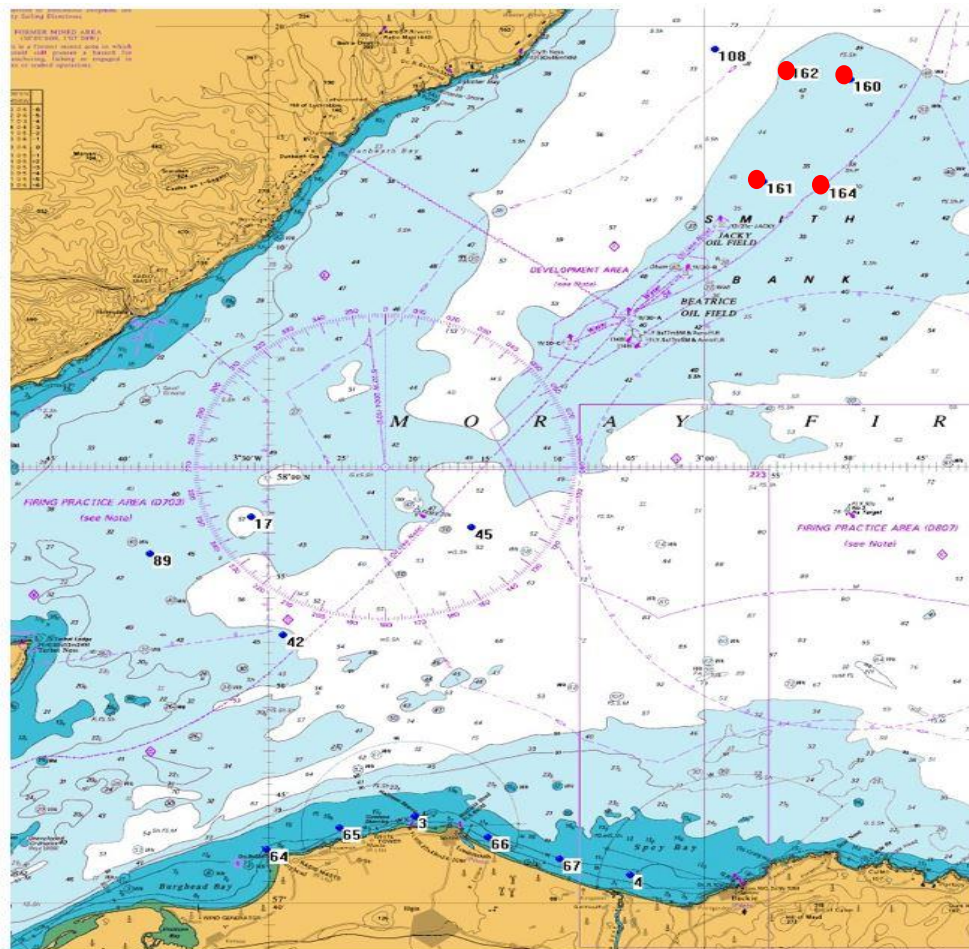
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**Fig. 9** Scientific equipment locations (remaining locations in red)

### 3. General Safety Advice

All vessels engaged in the 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.

The Secretary of State has authorised the use of the following safety zones as per Notice to Mariners LF000005-NTM-004.

1. 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.



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2. 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.

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.

#### 4. Guard Vessel Deployment

Guard vessels currently on the main construction site are Artemis and Horizon II. Both vessels can be contacted on VHF Ch.16. The Horizon II will be relieved by Moremma on 4<sup>th</sup> July.

<b>Project:</b>	Beatrice Offshore Windfarm Guard Vessel Deployment.
<b>Contractor:</b>	SHL
<b>Contract Purpose:</b>	Guard Vessel for the Windfarm site.
<b>Area:</b>	BOWL construction site: within the array cable routes and foundation locations. (See Fig 1 for details)
<b>Deployment Dates:</b>	1 <sup>st</sup> April 2017 – TBC.
<b>Deployment Vessel (s):</b>	Various on a continuous 21 day rotation.
<b>Equipment:</b>	N/A

On behalf of BOWL, Seaway Heavy Lifting has contracted the Scottish Fishermen's Federation (SFF) to provide guard vessels during the piling and foundation installation campaigns.

The guard vessel's primary duty is security of the construction site by informing and warning non-construction vessels of the ongoing activities and associated Safety Zones

#### 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. [alex@brownmay.com](mailto:alex@brownmay.com)

All vessels are to be aware that there has been increased fishing activity close to the BOWL site and vessels may encounter static fishing gear whilst transiting to and from the site. Vessels sheltering to the South and West of the site should pay particular attention and keep a sharp lookout for such static fishing gear. Vessels are reminded that there are recommended transit routes to site, which should help avoid the areas of known fishing activity (See LF000005-MCN-001Rev01 - Marine Coordination Notice - Fishing Gear De-Confliction).

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#### 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.

#### 7. Website

The official website of Beatrice Offshore Windfarm Limited can 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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No Ref	Vessel Picture	Vessel Name / Flag	Type / Function	Operator	Contact / contact details	Call sign / MMSI / IMO	LOA (m) Beam (m) Draft (m)	Date on Site	Marine Licence applicable
1		Pegasus	Anchor Handling Tug	Seaway Heavy Lifting (SHL)	Danny Sprangers (SHL) C/o Subsea 7 East Campus Arnhall Business Park Westhill, Aberdeenshire AB32 6FE +31 653997158 EMAIL:dsprangers@shl.nl	V2ED2 / 305389000	48 x 14m	01.01.2018	OWF
2		Island Crown	Walk to work OTM commissioning	Stålhaugen 12, 6065 Ulsteinvik, Norway +47 70400000	Project Manager Arnt Petter Osnes T +47 704000025 M +47 46829930 arnt@islandoffshore.com	LAC08 / 257245000	96 x 20 m	01.02.2017	OWF & OTTW
3		Seajacks Kraken	Jack Up Accommodation Vessel	Seajacks	BOWI Offshore Windfarm Ltd. mc.bowl@sse.com	3ESD6 / 370267000	62 X 36 m	08.05.2018	OWF & OTTW
4		Rix Lion	Crew Transfer Vessel / CTV	Seaway Heavy Lifting (SHL)	Danny Sprangers (SHL) C/o Subsea 7 East Campus Arnhall Business Park Westhill, Aberdeenshire AB32 6FE +31 653997158 EMAIL:dsprangers@shl.nl	2HOH3 / 235105282	26 x 10 x 2.5m	06.04.2018	OWF
5		Rix Panther	Crew Transfer Vessel / CTV	Seaway Heavy Lifting (SHL)	Danny Sprangers (SHL) C/O Subsea 7 East Campus Arnhall Business Park Westhill, Aberdeenshire, AB32 6FE +31 653997158 Email - dsprangers@shl.nl	2FRT9/ 233093688	19 x 8m	04.05.2018	OWF

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6		Seacat Intrepid	Crew Transfer Vessel / CTV	Seacat Services Ltd	Lea Hurst Marine Manager, Seacat Services Ltd 2 Mariners Way, Cowes, Isle of Wight +44 (0)1983 475315 lea.hurst@seacatservices.co.uk	2HWMU6 / 235107284	27 x 10 x 1.5m	25.09.2017	OWF & OTTW
7		Marineco Mariah	Crew Transfer Vessel / CTV	Seaway Heavy Lifting (SHL) for Siem Offshore Contractors	Danny Sprangers (SHL) C/O Subsea 7 East Campus Arnhall Business Park Westhill, Aberdeenshire, AB32 6FE +31 653997158 Email - dsprangers@shl.nl	2EXU3 / 235089035 / 9638240	27 x 10 x 2.2m	18.06.2018	OWF
8		Maersk Trader	Supply Vessel	Seaway Heavy Lifting (SHL)	Danny Sprangers (SHL) C/O Subsea 7 East Campus Arnhall Business Park Westhill, Aberdeenshire, AB32 6FE +31 653997158 Email - dsprangers@shl.nl	220584000 / OXRO2	73 x 20m	12.04.2018	OWF
9		Oleg Strashnov	Heavy Lift Vessel / HLV	Seaway Heavy Lifting (SHL)	Danny Sprangers (SHL) C/O Subsea 7 East Campus Arnhall Business Park Westhill, Aberdeenshire, AB32 6FE +31 653997158 Email - dsprangers@shl.nl	5BNL2 / 212905000	183.3 / 47 / 13.5	08.08.2017	OWF & OTTW
10		Vos Prelude	Supply Vessel	Seaway Heavy Lifting (SHL)	Danny Sprangers (SHL) C/O Subsea 7 East Campus Arnhall Business Park Westhill, Aberdeenshire, AB32 6FE +31 653997158 Email - dsprangers@shl.nl	2WVKH / 233608006	74m x 16m	16.11.2017	OWF



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11		Bremen Fighter	Barge Tow Vessel	Seaway Heavy Lifting (SHL)	Danny Sprangers (SHL) C/O Subsea 7 East Campus Arnhall Business Park Westhill, Aberdeenshire, AB32 6FE +31 653997158 Email - dsprangers@shl.nl	V20Y1 / 304742000	48.1 x 14.06 x 6.0m	14.12.2017	OWF
12		Britoil 120	Barge Tow Vessel	Seaway Heavy Lifting (SHL)	Danny Sprangers (SHL) C/O Subsea 7 East Campus Arnhall Business Park Westhill, Aberdeenshire, AB32 6FE +31 653997158 Email - dsprangers@shl.nl	9V7116 / 564104000	59 x 16m	09.03.2018	OWF
13		Dalby Aire	Crew Transfer Vessel / CTV	Seacat Services Ltd	Lea Hurst Marine Manager, Seacat Services Ltd 2 Mariners Way, Cowes, Isle of Wight +44 (0)1983 475315 lea.hurst@seacatservices.co.uk	2HWW6 / 235097362	19 x 8 x 1.7m	16.05.2018	OWF
14		Rix Cheetah	Crew Transfer Vessel / CTV	Seaway Heavy Lifting (SHL)	Danny Sprangers (SHL) C/O Subsea 7 East Campus Arnhall Business Park Westhill, Aberdeenshire, AB32 6FE +31 653997158 Email - dsprangers@shl.nl	2GGY7 / 235097312	25 x 7m	04.06.2018	OWF
15		Dalby Ribble	Crew Transfer Vessel / CTV	Seacat Services Ltd	Lea Hurst Marine Manager, Seacat Services Ltd 2 Mariners Way, Cowes, Isle of Wight +44 (0)1983 475315 lea.hurst@seacatservices.co.uk	2IVX5 / 235113236	25.75 x 10.06m	01.07.2018	OWF

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16		Seacat Resolute	Crew Transfer Vessel / CTV	Seacat Services Ltd	Lea Hurst Marine Manager, Seacat Services Ltd 2 Mariners Way, Cowes, Isle of Wight +44 (0)1983 475315 lea.hurst@seacatservices.co.uk	2FWR9 / 235094873	24 x 7m	30.06.2018	OWF
17		Pacific Orca	Offshore Supply Ship	Siemens Gamesa Renewable Energy (SGRE)	Gert Christensen Siemens Wind Power A/S WP OF CNS MAOP Marine Operations Manager Fiskergade 1-9 7100 Vejle DENMARK gert.christensen@siemensgamesa.com + 45 242 95577	5BRE3 / 210548000	161.3 x 49.02m	TBC	OWF
18		FOB Swath 3	Crew Transfer Vessel / CTV	Siemens Gamesa Renewable Energy (SGRE)	Gert Christensen Siemens Wind Power A/S WP OF CNS MAOP Marine Operations Manager Fiskergade 1-9 7100 Vejle DENMARK gert.christensen@siemensgamesa.com + 45 242 95577	OUWY2 / 219460000	24.97 x 10.83m	TBC	OWF
19		Offshore Waddenzee	Crew Transfer Vessel / CTV	Seaway Heavy Lifting (SHL)	Danny Sprangers (SHL) C/O Subsea 7 East Campus Arnhall Business Park Westhill, Aberdeenshire, AB32 6FE +31 653997158 Email - dsprangers@shl.nl	2HSC3 / 235106183	19.7 x 8.2m	02.07.2018	OWF
20		Stril Server	Offshore Supply Ship	Seaway Heavy Lifting (SHL)	Danny Sprangers (SHL) C/O Subsea 7 East Campus Arnhall Business Park Westhill, Aberdeenshire, AB32 6FE +31 653997158 Email - dsprangers@shl.nl	LARP7 / 258873000	85.35 x 18.63m	03.07.2018	OWF

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21		Horizon II	Guard Vessel	Scottish Fishermens Federation (SFF) for Seaway Heavy Lifting (SHL)	Danny Sprangers (SHL) C/O Subsea 7 East Campus Arnhall Business Park Westhill, Aberdeenshire, AB32 6FE +31 653997158 Email - dsprangers@shl.nl	234839000 / 895562	16.75 X 5.8m	16.06.2018	OWF
22		Artemis	Guard Vessel	Scottish Fishermens Federation (SFF) for Seaway Heavy Lifting (SHL)	Danny Sprangers (SHL) C/O Subsea 7 East Campus Arnhall Business Park Westhill, Aberdeenshire, AB32 6FE +31 653997158 Email - dsprangers@shl.nl	MVIX5 / 233975000	28 x 8m	08.06.2018	OWF
23		Moremma	Guard Vessel	Scottish Fishermens Federation (SFF) for Seaway Heavy Lifting (SHL)	Danny Sprangers (SHL) C/O Subsea 7 East Campus Arnhall Business Park Westhill, Aberdeenshire, AB32 6FE +31 653997158 Email - dsprangers@shl.nl	MKHC6 / 232007170	24 x 7m	04.07.2018	OWF