

Ørsted - East Coast Operational Assets

Notice to Mariners

Period of Notice: April 2023

Version: 6

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1 Introduction

Ørsted is an offshore wind farm owner and operator with ten operational wind farms in UK waters. Of these ten, the following offshore wind farms are located off the East Coast of England:

- Gunfleet Sands
- Westermost Rough
- Race Bank
- Lincs
- Hornsea One
- Hornsea Two

The purpose of this monthly Notice to Mariners (NtM) is to ensure that mariners are aware of any non-routine operations across the East Coast assets that could pose a risk to other sea users. Safety is paramount to Ørsted and this notice should assist in ensuring that both mariners and the Ørsted operational team can operate safely offshore. This NtM will provide:

- A regular, clear and consistent overview of non-routine operations
- Updates relating to lighting and marking
- Key contact details
- Access to detailed site information and figures
- Clarity on when Safety Zones and recommended safe separation distances are in force or requested



This Notice to Mariners will not provide:

- Information relating to routine maintenance carried out by Crew Transfer Vessels (CTV) or Service Operation Vessels (SOV).
- Any information relating to export cables
- Any information relating to offshore wind farms currently in development, construction or not operated by Ørsted

Subsea Cables

Subsea cables are installed across each offshore wind farm and are marked on the KIS ORCA charts referenced in Section 1.2. Please note the following advice from NP 100 The Mariners Handbook “Every care should be taken to avoid anchoring, trawling, fishing, dredging, drilling, or carrying out any other activity in the vicinity of cables which might damage them.” This warning is repeated on all admiralty charts.

Wind Farm Positional Data

KIS ORCA Awareness Charts (including the layout and coordinates) and Fishing Plotter Files of the offshore assets referenced in this NtM can be found via the KIS ORCA website: <https://kis-orca.org/downloads/> Should mariners require further information or any data in a format that can be used in a plotter or other device, please contact the Company Fisheries Liaison Officer, listed in Section 2 below.

2 Key Contacts

For further information on any of the activities listed within this notice, please use the contact details listed below.

Site	Ørsted Mailbox/ Offshore Coordination	Fisheries Industry Representative
Race Bank	Phone: 07826 943808 Email: rowoffshorec@orsted.com	Ady Woods Phone: 07468 898948 Email: firwoods@hotmail.com
Westernmost Rough	Phone: 07867 674941 Email: wmroffshorec@orsted.com	Guy Pasco Phone: 07880 362082 Email: guy@seascopefisheries.co.uk
Lincs	Phone: 07766443319 Email: lincsoffshorec@orsted.com	Ady Woods Phone: 07468 898948 Email: firwoods@hotmail.com
Gunfleet Sands		Merlin Jackson Phone: 07989 520484 Email: merlinjackson@btinternet.com
Hornsea One	Phone: 07775005465 Email: HOWoffshoreC@orsted.com	Nick Garside Phone: 07538 827013 Email: nick.garside@live.co.uk
Hornsea Two	Phone: 07775005465 Email: HOW02offshoreC@orsted.com	Nick Garside Phone: 07538 827013 Email: nick.garside@live.co.uk

Company Fisheries Liaison Officer

The Ørsted Company Fisheries Liaison Officer can be contacted using the details below:

Lee Thompson

Email: LEETH@orsted.com

3 Notice to Mariners Summary:

Site	Lighting and Marking Status	Survey	Jack-Up Vessel	Other Works
Race Bank	OK	None	None	Below water inspections***
Westermost Rough	OK	None	None	Blade LEP***, Below water inspections**
Lincs	OK	None	Yes	Below water inspections** Oil exchange Generator exchange***
Gunfleet Sands	OK	None	None	WTG inspections. Blade LEP***
Hornsea One	OK	None	None	None
Hornsea Two	<p>T29 – Fog signal constantly sounding</p> <p>N35, T25, T29 and T33, will be inoperable from the 17th until the 26th of April approx</p> <p>A36, A39, A42, E39, J37, R01, S05, S11, S16, T21, will be inoperable from the 22nd = 26th of April approx</p> <p>All Marine Lanterns will be replaced with Temporary Marine Lanterns for the above duration.</p>	None	None	Below water inspections**, TMO Offshore Substation and RCS works.

- * Formal 500m safety zone in place
- ° Licensable activity
- ** 500m safety distance requested
- *** 100m safety distance requested
- **** 250m safety distance requested

Status of lighting & marking is correct at time of issue; any changes will be communicated through an updated version being issued.

4 Race Bank – Notice to Mariners

4.1 Lighting and Marking Status

The lighting and/ or navigational warning systems are currently operational. No planned outages.

4.2 Other Operations

Nothing planned.

4.2.1 Below water inspections

The vessel Curtis Marshall is undertaking below water inspections at Westermost Rough, Hornsea 2, Racebank and Lincs windfarms. The inspections will be carried out by ROV and diving operations. Mariners are advised that a safe distance of 500m is required whilst divers are in the water. Buoys will be placed in the water to identify whilst diving operations are underway.


The planned dates are shown below, however dates are subject to change –

Hornsea 2 – 3rd April -17th April
 Westermost Rough – 17th April to 7th May
 Racebank – 7th May to 27th May
 Lincs – 27th May to 10th June

Locations

ROW01		
ID	WGS84 (Deg, decimal Minutes)	
	LONGITUDE	LATITUDE
A02	000° 46.39246873' E	53° 19.60211918' N
A06	000° 46.27385363' E	53° 17.76367980' N
B04	000° 47.06811240' E	53° 18.25361035' N
B05	000° 46.98256021' E	53° 17.80719695' N
B07	000° 46.91275421' E	53° 16.90710905' N
C06	000° 47.76375163' E	53° 17.76551653' N
D05	000° 48.82012878' E	53° 18.57565677' N
D06	000° 48.77004175' E	53° 18.08704817' N
E09	000° 48.93852646' E	53° 14.89596701' N
F06	000° 49.58502941' E	53° 15.14631826' N
G04	000° 50.63256729' E	53° 15.81100077' N
G06	000° 50.38632136' E	53° 14.80419226' N
J04	000° 51.93423211' E	53° 14.79411505' N
K05	000° 52.63349150' E	53° 14.61948155' N

L03	000° 53.63247634' E	53° 15.25408489' N
M03	000° 54.42481079' E	53° 15.06218910' N
N02	000° 54.75884544' E	53° 14.48642004' N
P02	000° 55.17151347' E	53° 14.93026804' N

General Information		Vessel Picture
Name	Curtis Marshall	
Flag	UK	
Year Built	2015	
MMSI Number	235107219	
Call Sign	SHWN3	
Vessel Contact Details		
Bridge		
Party Chief		
Email	info@bmarshallmarine.co.uk	

5 Westermost Rough – Notice to Mariners

5.1 Lighting and Marking Status


The lighting and/ or navigational warning systems are currently operational. No planned outages.


5.2 Other Operations

5.2.1 Blade LEP campaign

In mid-April we are starting an LEP campaign which we anticipate will take between 3-4 months. The SOV CF Explorer and with CTV will support the project. The work scope involves rope access technicians. When the technicians are on the ropes, we will require a 100m exclusion zone.

Vessel Information

General Information		Vessel Picture
Name	CF EXPLORER	
Flag	Cyprus	
Year Built	2008	
MMSI Number	209816000	
Call Sign	5BKK5	
Vessel Contact Details		
Bridge	+31686489927	
Party Chief	master.cfexplorer@tsmvessel.com	
Email	master.cfexplorer@tsmvessel.com	

General Information		Vessel Picture
Name	Iceni Warrior	
Flag	UK	
Year Built	2010	
MMSI Number	235087484	
Call Sign	2ERD5	
Vessel Contact Details		
Bridge	+44 7809 727 397	
Party Chief		
Email	warrior@turnericensi.com	

5.2.2 Below water inspections


The vessel Curtis Marshall is undertaking below water inspections at Westernmost Rough, Hornsea 2, Racebank and Lincs windfarms. The inspections will be carried out by ROV and diving operations. Mariners are advised that a safe distance of 500m is requested whilst divers are in the water. Buoys will be placed in the water to identify whilst diving operations are underway.

The planned dates are shown below, however dates are subject to change –

Hornsea 2 – 3rd April -17th April
 Westernmost Rough – 17th April to 7th May
 Racebank – 7th May to 27th May
 Lincs – 27th May to 10th June

Locations

WMR01		
ID	WGS84 (Deg, decimal Minutes)	
	LONGITUDE	LATITUDE
A03	000° 07.37885722' E	53° 47.04119733' N
A04	000° 06.85818950' E	53° 47.47696658' N
B04	000° 07.70116565' E	53° 47.83499605' N
C01	000° 10.06644598' E	53° 46.92462112' N
C02	000° 09.57049861' E	53° 47.34205597' N
D07	000° 07.90033622' E	53° 49.78462890' N
F07	000° 09.60859260' E	53° 50.49184716' N

General Information		Vessel Picture
Name	Curtis Marshall	
Flag	UK	
Year Built	2015	
MMSI Number	235107219	
Call Sign	SHWN3	
Vessel Contact Details		
Bridge		
Party Chief		
Email	info@bmarshallmarine.co.uk	

6 Lincs – Notice to Mariners

6.1 Lighting and Marking Status

The lighting and/ or navigational warning systems are currently operational. No planned outages.

6.2 Other Operations

6.2.1 Below water inspections

The vessel Curtis Marshall is undertaking below water inspections at Westermost Rough, Hornsea 2, Racebank and Lincs windfarms. The inspections will be carried out by ROV and diving operations. Mariners are advised that a safe distance of 500m is required whilst divers are in the water. Buoys will be placed in the water to identify whilst diving operations are underway.

The planned dates are shown below, however dates are subject to change –

Hornsea 2 – 3rd April -17th April


Westermost Rough – 17th April to 7th May

Racebank – 7th May to 27th May

Lincs – 27th May to 10th June

Locations

LIC01		
ID	WGS84 (Deg, decimal Minutes)	
	LONGITUDE	LATITUDE
LS49	000° 30.19540736' E	53° 09.12686464' N
LS51	000° 30.18309978' E	53° 08.36483805' N
LS44	000° 30.22573833' E	53° 11.01627043' N
LS45	000° 30.21984534' E	53° 10.63850150' N
LS66	000° 31.04737522' E	53° 10.11685148' N
LS38	000° 29.81422658' E	53° 13.25407838' N
LS53	000° 30.14917186' E	53° 14.51056753' N
LS54	000° 30.29313320' E	53° 14.16938999' N
LS03	000° 27.86626870' E	53° 13.77233327' N
LS18	000° 28.84003737' E	53° 13.51083924' N
LS06	000° 28.48706290' E	53° 12.29867449' N
LS08	000° 28.60398324' E	53° 11.53237203' N
LS20	000° 29.14500121' E	53° 12.78627019' N
LS09	000° 28.57553167' E	53° 10.99227302' N
LS26	000° 29.37666510' E	53° 10.19241312' N
LS27	000° 29.36436664' E	53° 09.81882249' N
LS74	000° 28.73796525' E	53° 07.99340828' N
LS75	000° 28.75361655' E	53° 07.72614788' N

General Information		Vessel Picture
Name	Curtis Marshall	
Flag	UK	
Year Built	2015	
MMSI Number	235107219	
Call Sign	SHWN3	
Vessel Contact Details		
Bridge		
Party Chief		
Email	info@bmarshallmarine.co.uk	

6.2.2 WTG Oil exchange

On the 1st May, the vessel Spectrum 4 will be on site conducting an oil exchange. All 75 locations will be visited with the scope anticipated on taking just over 3 months.

Vessel information

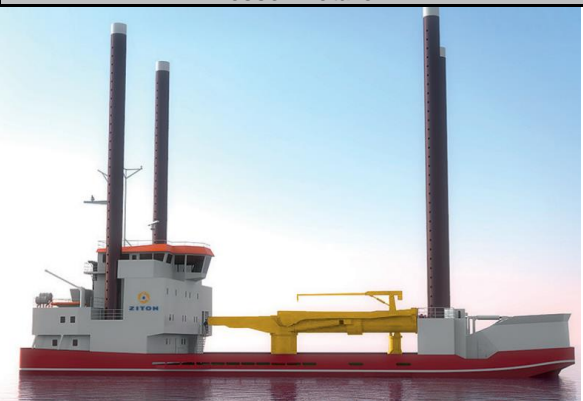
General Information		Vessel Picture
Name	Spectrum 4	
Flag	UK	
Year Built	2016	
MMSI Number	235080287	
Call Sign	2DMP7	
Vessel Contact Details		
Bridge	07496690608	
Party Chief		
Email	Spectrum4@spectrum-offshore.com	

6.2.3 Generator exchange

On the 17th April the Jack Up Vessel Wind will be on site to conduct a Generator exchange on LS50, the CTV MMS Superior will also be on site in support of the workscope. Mariners must observe an approved safety zone of 500m whenever Wind is attached to a WTG. A minimum separation distance of 500m is also requested when the vessel is observed manoeuvring into position

Vessel information

General Information		Vessel Picture
Name	Wind	
Flag	Danish	
Year Built	1996	
MMSI	220520000	
Call Sign	OXSW2	
Vessel Contact Details		
Bridge	+45 20 48 55 86	
Party Chief		
Email	master.wind@ziton.eu	



7 Gunfleet Sands – Notice to Mariners

7.1 Lighting and Marking Status


The lighting and/ or navigational warning systems are currently operational. No planned outages.

7.2 Other Operations

7.2.1 Statutory Inspections Above Water

From the 1st February the vessel Commander P will be on site completing WTG inspections, the scope is anticipated to take until the end of March.

Vessel information

General Information		Vessel Picture
Name	Commander P	
Flag	UK	
Year Built		
MMSI	235097748	
Call Sign	2GIU6	
Vessel Contact Details		
Bridge	07807007849	
Party Chief		
Email	commanderp@offshoreturbineservices.co.uk	

7.2.2 GFS LEP Campaign

Start date: 14th April 2023

Duration of work scope: 110 days

Description of work: Rope Access Blade Maintenance Blade Repair across all 48 WTGs at Gunfleet Sands

Safety zone required. 100m exclusion zone around the WTG on Gunfleet Offshore windfarm

Vessel Information

General Information		Vessel Picture
Name	NSL DISCOVERY	
Flag	UK	
Year Built	2012	
MMSI	235096731	
Call Sign	2GEQ9	
Vessel Contact Details		
Bridge	TBC	
Party Chief	TBC	
Email	discovery@northsealogistics.co.uk	

7.2.3 GFS EBI Drone Inspections

Start date: 4th April 2023

Duration of work scope:

Description of work: Drone blade inspections to be carried out from Site and LEP campaign CTVs (Above) across all 48 WTGs at Gunfleet Sands.

Safety zone required. 100m exclusion zone around the WTG on Gunfleet Offshore windfarm

7.3 Cable exposure

There are subsea cables currently exposed as shown on the below chart and coordinates

WGS84 Degrees, decimal Minutes						
ID	ArrayCableID	Length_m	StartCoord_Longitude	StartCoord_Latitude	EndCoord_Longitude	EndCoord_Latitude
GFS_MBES_TO_01-UnidentifiedOther	F08-F09	13.4	1° 17.383' E	51° 44.721' N	1° 17.396' E	51° 44.723' N
GFS_MBES_TO_02-CableExposure	F08-F09	790.93	1° 16.787' E	51° 44.486' N	1° 17.376' E	51° 44.718' N
GFS_MBES_TO_03-CableExposure	F07-F08	533.19	1° 16.562' E	51° 44.401' N	1° 16.726' E	51° 44.466' N
GFS_MBES_TO_04-CableExposure	F06-F07	25.25	1° 16.059' E	51° 44.203' N	1° 16.075' E	51° 44.210' N

8 Hornsea One – Notice to Mariners

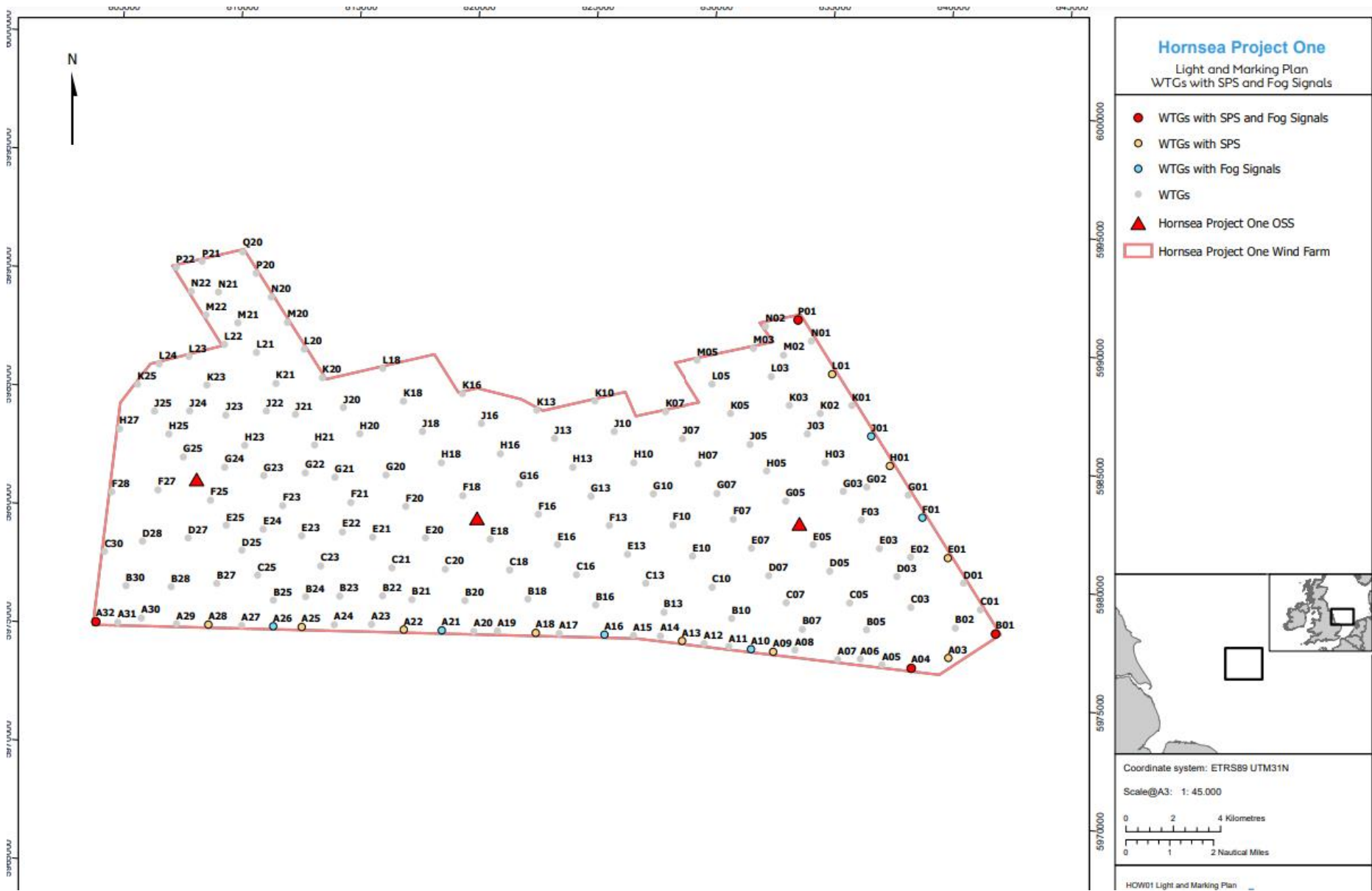
8.1 Lighting and Marking Status

The lighting and/ or navigational warning systems are currently operational. No planned outages

Mariners are advised that the marine navigation lighting and foghorns on turbines situated on the Hornsea Project One / Two adjoining perimeter have now been extinguished. Marine navigation lighting will now alight the combined perimeter of Hornsea Project One and Two.

Please see the table below showing the locations where the foghorns/marine navigation lighting has been discontinued (indicated with an X)

Turbine	Marine Navigation Lights	Foghorns
K25	X	
Q20	X	X
C30	X	X
H27	X	X
P22	X	X
L20		X
K16		X
K10		X
M05		X



8.2 Other Operations

Nothing planned.

9 Hornsea Two – Notice to Mariners

9.1 Lighting and Marking Status

T29 fog signal is constantly sounding, this will be investigated at the earliest opportunity. (Will be inoperable as per dates below).

Due to OSS and RCS Maintenance, we expect the below

4x Fog Horns on the North West Park N35, T25, T29 and T33, will be inoperable from the 17th - 26th April

5x Fog Horns on the South West Park A36, A39, A42, E39 and J37, will be inoperable from the 22nd - 26th April

5x Fog Horns on the North East Park R01, S05, S11, S16 and T21, will be inoperable from the 22nd - 26th April

Dates are approx., based on UPS battery backup of 96hrs

All Marine Lanterns will be replaced with Temporary Marine Lanterns for the above duration.

9.2 Other Operations


9.2.1 TMO Offshore Substation and RCS works

Start date: 6th April 2023 for both SOVs

Duration of work scope: up to 30 days excluding weather days for both SOVs

Description of work: Deep Cygnus to operate at HB-Z11 Offshore Substation at HOW02, transfer teams to and from the Substation.


General Information		Vessel Picture
Name	Deep Cygnus	
Flag	Norway	
Year Built	2009	
MMSI	257205000	
Call Sign	LACV8	
Vessel Contact Details		
Bridge		
Party Chief		
Email		



The image shows the Deep Cygnus, a blue and white offshore supply vessel, at sea. The vessel has 'DEEP CYGNUS' written on its side. In the background, there are industrial structures, likely part of an offshore substation or port facility.

Description of work: Notus to operate at HB-Z01 RCS at HOW02, transfer teams to and from the Substation.

General Information		Vessel Picture
Name	Notus	
Flag	Denmark	
Year Built	1999	
MMSI	219812000	
Call Sign	OXDR2	
Vessel Contact Details		
Bridge		
Party Chief		
Email		



The image shows the Notus, a red and white offshore supply vessel, at sea. The vessel has 'WILSON ARCTIC' written on its side. It features a prominent crane and other deck equipment.

9.2.1 Below water inspections


The vessel Curtis Marshall is undertaking below water inspections at Westermost Rough, Hornsea 2, Racebank and Lincs windfarms. The inspections will be carried out by ROV and diving operations. Mariners are advised that a safe distance of 500m is required whilst divers are in the water. Buoys will be placed in the water to identify whilst diving operations are underway.

The planned dates are shown below, however dates are subject to change –

Hornsea 2 – 3rd April -17th April
 Westermost Rough – 17th April to 7th May
 Racebank – 7th May to 27th May
 Lincs – 27th May to 10th June

Locations

HOW02		
ID	WGS84 (Deg, decimal Minutes)	
	LONGITUDE	LATITUDE
A35	1° 35' 38.774" E	53° 50' 10.691" N
A37	1° 32' 51.300" E	53° 50' 11.208" N
A39	1° 30' 10.393" E	53° 50' 11.644" N
B34	1° 36' 21.475" E	53° 50' 45.917" N
F31	1° 36' 23.015" E	53° 53' 19.654" N
F36	1° 31' 2.021" E	53° 53' 5.936" N
H31	1° 34' 39.604" E	53° 54' 52.656" N
H37	1° 28' 6.654" E	53° 54' 26.729" N
L33	1° 31' 40.802" E	53° 56' 8.350" N
M24	1° 40' 45.114" E	53° 56' 34.784" N
M31	1° 31' 54.019" E	53° 57' 21.279" N
N35	1° 27' 15.289" E	53° 57' 42.582" N
P13	1° 53' 6.341" E	53° 57' 43.849" N
P27	1° 35' 11.471" E	53° 58' 44.648" N
Q05	2° 0' 9.715" E	53° 58' 7.107" N
Q16	1° 49' 32.934" E	53° 58' 41.824" N
R20	1° 44' 0.321" E	53° 59' 10.892" N
S03	2° 1' 46.296" E	53° 58' 43.592" N
S11	1° 53' 39.979" E	53° 59' 9.818" N
S30	1° 30' 8.867" E	54° 0' 1.305" N
Z11	001.630687°E	53.939408°N
Z01	000.932264°E	53.633372°N

General Information		Vessel Picture
Name	Curtis Marshall	
Flag	UK	
Year Built	2015	
MMSI Number	235107219	
Call Sign	SHWN3	
Vessel Contact Details		
Bridge		
Party Chief		
Email	info@bmarshallmarine.co.uk	