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Project Title	Seagreen Wind Energy Ltd
Document Reference Number	LF000009-MIP-MA-MAN-NOT-0001

Seagreen Offshore Wind Farm. Weekly Notice of Operations 26/2022

Issue Date - 27th June 2022.

Notice of Operations on Seagreen Offshore Wind Farm.

Work planned for the period 27-06-2022 to 03-07-2022.

Construction activities commenced on Seagreen Offshore Wind Farm on Thursday 17th December 2021 with works at the export cable landfall site. This notice will be updated weekly giving information of the progress and resources involved in the construction of the windfarm. The intention is to give notice of the activities involved in the construction phase of the project. Should anyone have any questions regarding construction operations we kindly ask that you put them forward well in advance.

The Seagreen Offshore Wind Farm is located in the outer Firth of Forth and Firth of Tay region of the North Sea. The site is situated approximately 17.5 nautical miles East-southeast of the Port of Montrose where the project Marine Coordination Centre will be located during the construction and operational phases. The first phase of the development will consist of 114 suction bucket foundation structures, with associated 114 10MW offshore wind turbine generators, 1 HVAC offshore substation platform, associated inter array and export cabling. The generated power will be transmitted to the National Grid via 3 subsea transmission



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cables making landfall at Carnoustie, Angus, to the Southwest of the development site. Grid connection will be achieved at the Tealing onshore substation. The second phase of the project will consist of 36 piled foundation structures, with associated 36 Wind Turbine Generators, associated inter array and export cabling and one additional 1 HVAC offshore substation platform. The phase 2 transmission cable is proposed to make landfall at Cockenzie, East Lothian (subject to appropriate licensing).

The Seagreen development site is highlighted below in red, the export cable corridor is highlighted in blue.

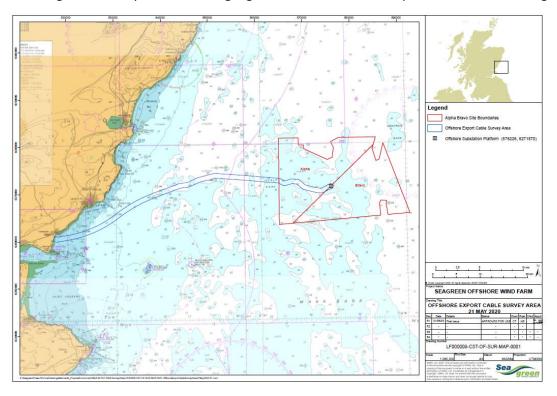


Fig 1 – Seagreen offshore wind farm location and export cable corridor.

1. Contact details for Marine Coordination

The following contact can provide more information if required.

Telephone Number (24/7 Operations)	+44 (0) 333 344 5255
Email for Marine Coordinator	seagreenmarinecoordination@sse.com
Address	Seagreen Wind Energy Ltd, O&M Building,
	Windy Waves House, South Quay
	Ferryden, Montrose, Angus
	DD10 9SL
	Seagreen Wind Energy Ltd, O&M Building, Windy Waves House, South Quay Ferryden, Montrose, Angus



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2. Export cable works.

2.1 Export Cable Landfall works.

Works on the export cable protection pipes continues. Further details are below in section 2.2. The landfall works area is shown below in Fig 2.



Fig 2 – Landfall works area located at Carnoustie Barry Golf Links.

2.2 Nearshore export cable protection and diving works.

Operations on the self-submersible cable protection pipes continues. Works will be conducted from the DSV Sophie, the Tug Teddy will join the project this week to assist the DSV Sophie, vessel details below. Export Cables 1 & 2 have been pulled in at the landfall site at Carnoustie, surface laid and pulled into the Offshore Substation Platform.

Six temporary anchors have been placed on the seabed to secure the self-submersible cable protection pipes prior to export cable pull in activities. These temporary anchors are surface marked by day-glo pellet buoys. The coordinates and locations of the anchors are shown below in fig 3 and table 1.



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Vessel - MPV Sophie Contact Details Call Sign LK7943 MMSI 258003500 Vessel Details Length 14.9m Beam 7.0m Draft 1.0m Vessel Contact +47 928 35 222



Contact Details		
Call Sign	PBFE	
MMSI	244630458	
Vessel Details		
Length	23.4m	
Beam	8.0m	
Draft	2.3m	
Vessel Contact	ТВС	

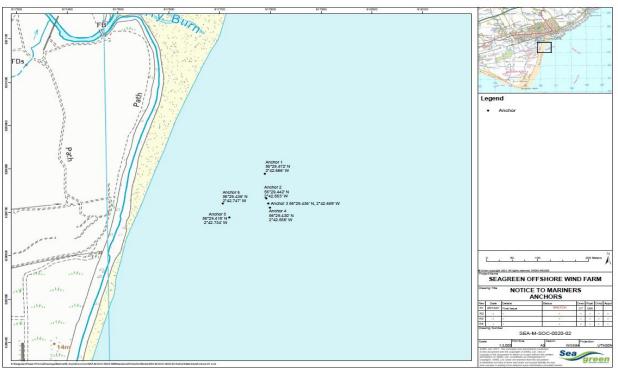


Fig 3



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ID	Latitude (DDM WGS 84)	Longitude (DDM WGS 84)
Anchor 1	56° 29.472' N	2° 42.666' W
Anchor 2	56° 29.442' N	2° 42.663' W
Anchor 3	56° 29.436' N	2° 42.659' W
Anchor 4	56° 29.430' N	2° 42.656' W
Anchor 5	56° 29.418' N	2° 42.734' W
Anchor 6	56° 29.436' N	2° 42.747' W

 ${\it Table~1-Temporary~anchor~coordinates}.$

2.3 Export Cable Installation

Export cables 1 & 2 have now been installed and trenched, three guard vessels remain on station to guard exposed sections of export cable 1 & 2.

3. Offshore Platform (OSP) Topside Structure Hook up and Commissioning

On behalf of Seagreen Wind Energy Ltd, Petrofac will commission the Seagreen Offshore Sub-station.

The self-elevating jack up barge Ran is in position alongside the sub-station platform and shall provide accommodation facilities for those personnel involved in the commissioning of the platform. It is expected that the Ran will be on location for a number of months whilst these activities take place.





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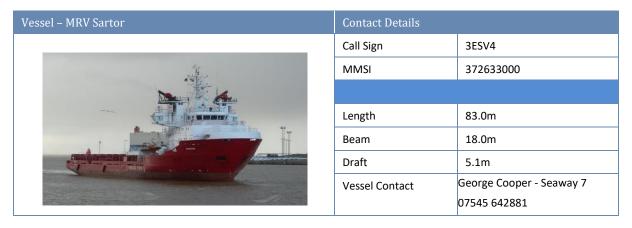
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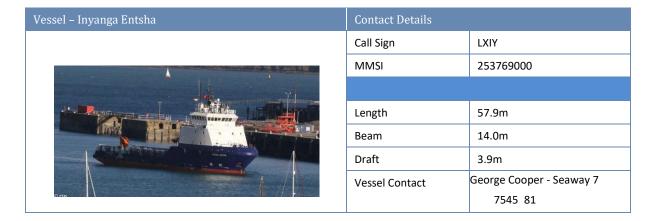
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4. Boulder clearance works.

Boulder clearance operations will continue within the Seagreen Offshore Windfarm site boundary. The boulder clearance vessels Sartor and Inyanga Entsha are equipped with an ROV and integrated tine grab tool. The vessels will relocate boulders which are considered a hazard to the inter array cable routes and areas surrounding the wind turbine generator locations.

Vessels details are shown below.





5. Inter Array Cable Installation.

On behalf of Seagreen Wind Energy Ltd, Seaway 7 will install and trench inter-array cabling between the wind turbine generator foundation structures and offshore sub-station platform within the Seagreen site boundary as shown in fig 1. The Installation Support Vessel Siem Stingray will support the cable laying vessel. The Cable Laying Vessel will be the Seaway Phoenix.

Already installed inter-array cable details including coordinates of installed foundation structures can be found in Section 8.



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Siem Stingray – This vessel will act as the Installation Support vessel. Cable installation technicians will be deployed to the wind turbine generator foundation structures and Sub-station platform using the vessels' motion compensated gangway system.



Seaway Phoenix – This vessel will install and trench the inter array cables between adjacent wind turbine foundation structures and the offshore sub-station platform. This vessel will also conduct pre-lay grapnel runs along the planned cable routes prior to installation.

This week Seaway Phoenix plans to install inter-array cables at the assets in the below table. Already installed inter-array cable details including coordinates of installed foundation structures can be found in Section 8.

1.	SN-OSP – SN-M14
2.	SN-M14 – SN-P14

Vessel – Seaway Phoenix	Contact Details	
	Call Sign	2EEZ6
	MMSI	235084529
	Length	129.9m
	Beam	27.8m
550.6	Draft	7.4m
	Vessel Contact	George Cooper - Seaway 7 07545 642881



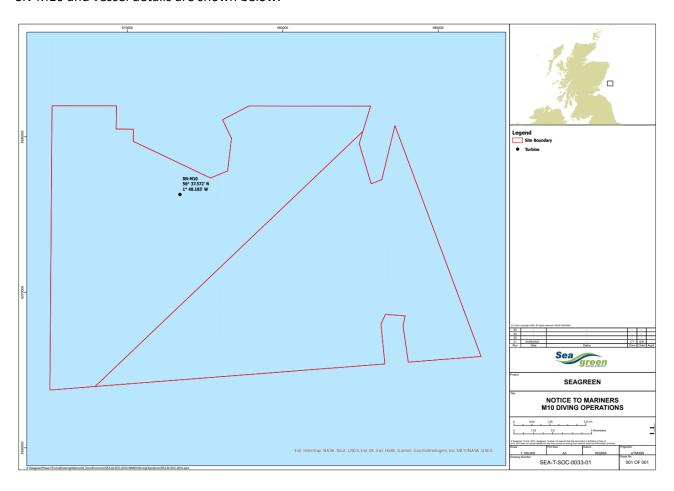
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5.1 Diving Operations

On behalf of Seagreen Wind Energy Ltd, Seaway 7 will conduct diving operations on SN-M10 foundation structure. The Diving Support Vessel, Seven Kestel is expected on site to commence operations on or around the 29th of June. Diving operations are expected to be completed within 24 hours. The location of SN-M10 and vessel details are shown below.







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6. Wind Turbine Generator Installation & Commissioning.

On behalf of Seagreen Wind Energy Ltd, MHI Vestas Offshore Wind continue installation and commissioning of wind turbine generators.

There shall be three vessels utilised during this operation.

The Jack-up vessel, Wind Orca, will install the wind turbine generator components.

The Service Operation Vessel (SOV) Acta Centaurus will provide accommodation for the WTG commissioning technicians. Personnel will utilise the Acta Centaurus's walk to work gangway system to access the WTG structures for commissioning activities.

The Crew Transfer Vessel, HST Harri will support the Acta Centaurus.

Wind turbine generators have been installed on 24 foundation structures.

A table of installed WTG's and their coordinates is shown below in Section 8.



Contact Details	
Call Sign	OZSB2
MMSI	219029786
Length	161.3m
Beam	49.03m
Draft	5.7m
Vessel Contact	Morten Guldberg – Installation Manager +45 314 314 63

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ELE	3000	. 4.11	No.	
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	4	Control of the last		

Contact Details		
	Call Sign	PBOI
	MMSI	244341000
	Length	93.4m
	Beam	18.0m
	Draft	5.6m
	Vessel Contact	Paul Grant – Commissioning Manager +44 7587630374



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7. Crew Transfer Vessels (CTV's).

A number of crew transfer vessels support operations within the Seagreen site, please see details below.

Vessel – Seacat Sceptre	Contact Details	
	Call Sign	N
	MMSI	2
	Length	2
	Beam	8
OFFSHORE ENERGY SUPPORT	Draft	1
	Vessel Contact	G +

Contact Details	
Call Sign	MKOU6
MMSI	2322039754
Length	24m
Beam	8m
Draft	1.4m
Vessel Contact	Graeme Watters, +44 (0) 7932 229828

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Contact Details		
Call Sign	2FJE2	
MMSI	235091722	
Length	21.0m	
Beam	6.0m	
Draft	1.4m	
Vessel Contact	Onshore Rep: George Cooper George.Cooper@seaway7.com	

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Contact Details				
Call Sign	MIDM7			
MMSI	232030193			
Length	24.0m			
Beam	10m			
Draft	2.5m			
Vessel Contact	Onshore Rep: George Cooper George.Cooper@seaway7.com			



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Vessel – HST Harri	Contact Details	
	Call Sign	MGBN4
	MMSI	23202433
T.		
	Length	27.0m
HST	Beam	11.0m
	Draft	2.4m
	Vessel Contact	Onshore Rep: Paul Grant – 07587 630374



8. Construction progress update.

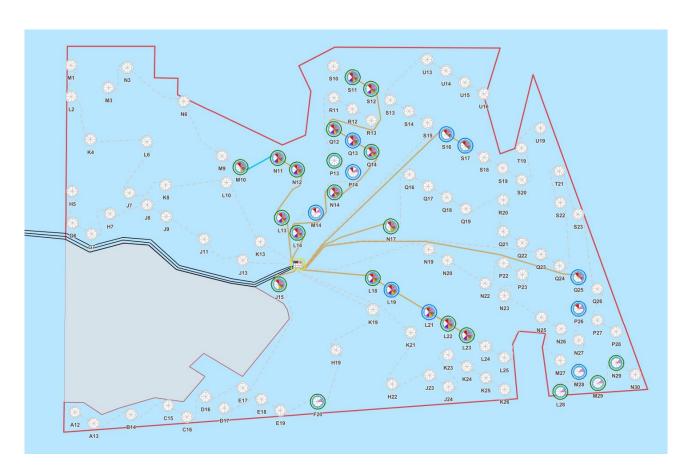
Please see below the current state of construction activity within the Seagreen site including coordinates of already installed assets, this will be updated weekly within this notice. Outside the issue of this notice updates can be obtained from the Duty Marine Coordinator, contact details are in section 1.



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Installed Foundation and Wind Turbine Generators

WTG ID	ID Lat & Long (WGS84 DDM)		Lat & Long (WGS84 DDM)
OSP	OSP 56° 35.094'N 1° 45.537'W		56° 37.509'N 1° 45.577'W
J15	J15 56° 34.579'N 1° 46.396'W		56° 36.929'N 1° 43.832'W
L13	56° 36.279'N 1° 46.272'W	N17	56° 36.060'N 1° 41.215'W
L14	56° 35.899'N 1° 45.551'W	S16	56° 38.408'N 1° 38.643'W
L18	56° 34.740'N 1° 42.063'W	S17	56° 38.118'N 1° 37.771'W
L19	56° 34.450'N 1° 41.191'W	P14	56° 37.444'N 1° 42.971'W
L21 56° 33.869'N 1° 39.449'W		P26	56° 33.958'N 1° 32.515'W
L22	L22 56° 33.579'N 1° 38.578'W		56° 38.539'N 1° 43.857'W
L23	L23 56° 33.289'N 1° 37.708'W		56° 38.249'N 1° 42.984'W
M10	56° 37.572'N 1° 48.183'W	Q14	56° 37.959'N 1° 42.111'W
M14	56° 36.414'N 1° 44.691'W	Q25	56° 34.763'N 1° 32.524'W
M28	56° 32.349'N 1° 32.498'W	S11	56° 39.859'N 1° 43.009'W
M29	M29 56° 32.057'N 1° 31.628'W		56° 39.569'N 1° 42.135'W
N11	N11 56° 37.798'N 1° 46.450'W		56° 37.734' N 1° 43.844' W
L28	L28 56° 31.835' N 1° 33.358' W		56° 32.571' N 1° 30.767' W
F20	56° 31.585' N 1° 44.614' W		

Installed Inter Array Cables

Array Cable Cable Status		Array Cable	Cable Status
OSP – J15 Trenched		L21 – L22	Trenched
OSP – L13 Trenched		L22 – L23	Trenched
OSP - L14	Trenched	N14 – Q14	Trenched
OSP - L18	Trenched	Q13 – Q12	Trenched



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OSP – N17	Trenched	Q12 – S12	Trenched
OSP – S16	Trenched	Q14 – Q13	Trenched
OSF – 21P Lieucued		Q14 - Q13	Treficieu
OSP -Q25	Trenched	S11 – S12	Trenched
L18 – L19	Trenched	N11 – M10	Surface Laid
L19 – L21 Trenched		L13 – N12	Trenched
L14 - N14	Trenched	S16 – S17	Trenched
N12 – N11	Trenched		

9. Guard Vessel Deployment.

In line with ongoing inter-array cable installation activities Seaway 7 have deployed two Guard Vessels. Six hourly VHF radio broadcasts shall be made containing information regarding the Seagreen development including installation activity, safety zone information and site demarcation buoyage information. The Guard Vessels shall be relieved regularly, the Guard Vessels Ocean Dawn and GV Helenus are currently on station. GV Ocean Quest shall arrive this week.





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Vessel – GV Helenus	Contact Details	
	Call Sign	MHCJ4
	MMSI	233353000
	Length	26.61m
	Beam	7.5m
PRIER . (2)	Draft	4.5m
	Vessel Contact	Onshore Rep:_George Cooper George.Cooper@seaway7.com

9.1 Export Cable Guard Vessels

In line with ongoing Export cable installation works there will be three Guard Vessels deployed to guard any exposed cable, details below.

Vessel – Ocean Maid	Contact Details	
*	Call Sign	MVWI7
35	MMSI	235008862
95 8 95 8	Length	22.0m
	Beam	6.0m
	Draft	3.5m

Vessel – Sardonyx	Contact Details	
<u> </u>	Call Sign	MQUY6
	MMSI	234311000
	Length	18.38m
1141 35/506 WWW. = N	Beam	6.5m
	Draft	2.5m



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Vessel – Ocean Quest	Contact Details		
	Call Sign	MSBS6	
	MMSI	232004618	
	Length	21.2m	
	Beam	6.6m	
FX. 373	Draft	3.0m	
MANUAL TO THE RESIDENCE OF THE PARTY OF THE	Vessel Contact	Onshore Rep:	
		per- kristian.pederson@nexans.com	

Offshore Fisheries Liaison Officers.

During the construction phase of the Seagreen project there will be Offshore Fisheries Liaison Officers (OFLO) deployed on selected construction vessels. The principal role of the OFLO is to establish and maintain effective communications with any fishing vessels encountered and to monitor compliance with good practice guidelines whilst doing so. The OFLO will record details of any fishing activity in and around the site including fishing vessels, gear and communications with fishing vessels and will provide regular updates to the Seagreen FLO. Please contact Seagreen Marine Coordination for further information.

11. Safety Zones.

Following consideration by Scottish government ministers it has been agreed that during the construction phases of the Seagreen development mandatory rolling 500m safety zones will be established around each Wind Turbine Generator and/or their foundations whilst construction works are in progress, as indicated by the presence of a construction vessel. The safety zones will be triggered whenever a vessel is on station at a WTG and undertaking construction activities.

In addition, mandatory pre commissioning 50m safety zones will be established around each Wind Turbine Generator and/or their foundations when construction works have been completed but prior to Wind Farm commissioning or where construction works have only been partially completed. These safety zones will be active at any structure during the construction phase where a construction vessel is not present at a Wind Turbine Generator.



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12. Website

The official website for Seagreen Offshore Wind Farm can be found at

https://seagreenwindenergy.com

This contains all Seagreen Weekly Notices of Operations and Notices to Mariners, together with a large amount of general information about the project.

There is also a Twitter feed at @seagreenwind

13. Distribution List

A central list of recipients is maintained by Seagreen Marine Coordination, if you are not the appropriate recipient or do not wish to receive these notices, please contact Marine Coordination as per the details in section 1 of this notice.

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14. Seagreen weekly vessel report.

	eagreen Offshore Windfarm essels & Operators Sea								
Condi Bravo	Reference to Marine Licence Conditions 3.1.2 (OWF Alpha and Brave ML).3.1.2 (OTA ML) and Vessel Data Matrix OWF/OTA/Open Cut at Landfall								
3.1.2 (No Be =	Open Cut at Landfall ML) Vessel Picture	Yessel Name / Flag	Type / Function	Operator	Contact / contact details	Call sign / MMSI / IMO	LOA (m) Beam (m) Draft (m)	Date on Site	Marine Licence(s) applicable
1		Seacat Sceptre	Crew Transfer vessel	SWEL	Graeme Watters Lead Marine Coordinator +44 (0) 7932 229828	MKOU6 232039754	24m 8m	15/10/2021	OWF Alpha & Bravo ML
2		Wind Orca	Jack-up vessel	Vestas	Morten Guldberg Vestas +45 31431463	LXIY 253769000	57.9m x 14.0m	15/06/2022	OWF Alpha & Bravo ML
3		Acta Centaurus	Multi Purpose Offshore Vessel	Vestas	Paul Grant Vestas +44 7587630374	PBOI 244341000	93.4 x 18m	06/11/2021	OWF Alpha & Bravo ML
4	The state of the s	HST Harri	Crew Transfer vessel	Vestas	Paul Grant Vestas +44 7587630374	MGBN4 232024313	27 x 11m	06/11/2021	OWF Alpha & Bravo ML
5		Inyanga Entsha	Multi Purpose Vessel	Seaway7	George Cooper Seaway 7 +44 (0) 2031454129	LXIY 253769000	57.9m x 14.0m	28/05/2022	OWF Alpha & Bravo ML
6		Teddy	Tug	Nexans Norway AS	Per-Kristian Pederson Nexans Norway +47 476 40 021	PBFE 244630458	23.4m x 8.0m	30/06/2022	OTA ML & Open Cut at Landfall ML
7		MPV Sophie	Multi Purpose Vessel	Nexans AS	Per-Kristian Pederson Nexans Norway +47 476 40 021	LK7943 25800350"	14.9m x 7m x 1m	20/08/2021	OTA ML & Open Cut at Landfall ML
8		Sartor	Multi Purpose Vessel	Seaway7	George Cooper Seaway 7 +44 (0) 2031454129	3ESV4 372633000	82.5 x 18.83	23/12/2021	OWF Alpha & Bravo ML
9	A. A.	Seaway Phoenix	Cable Laying Vessel	Seaway7	George Cooper Seaway 7 +44 (0) 2031454129	2EEZ6 235084529	129.9 x 27.8	10/04/2022	OWF Alpha & Bravo ML
10	The R	Seven Kestrel	Dive Support Vessel	Seaway7	George Cooper Seaway 7 +44 (0) 2031454129	2HDM7 235103286	125.3m x 24.0m	29/06/2022	OWF Alpha & Bravo ML
11		GV Sardonyx	Guard Vessel	Seaway7	George Cooper Seaway 7 +44 (0) 7545 642881	MQUY6 234311000	18.38m x 6.5m	11/06/2022	OWF Alpha & Bravo ML
12	71	Siem Stingray	Installation Support Vessel	Seaway7	George Cooper Seaway 7 +44 (0) 7545 642881	LAFP8 258783000	120.8 x 27.0	10/04/2022	OWF Alpha & Bravo ML
13		RAN	Accomodation Jack Up	Petrofac	Ram Jeyaraman ram.jeyaraman@petrofac.com	D5DC3 636015838	74.95m x 83.52m x 10.1m	16/03/2022	OTA ML & Open cut at landfall ML
14	nar i	Ocean Dawn	Guard vessel	Seaway7	George Cooper Seaway 7 +44 (0) 7545 642881	MQFJ6 235006956	26m x 7m	12/06/2022	OWF Alpha & Bravo ML
15	200	GV Ocean Maid	Guard Vessel	Nexans Norway AS	Per-Kristian Pederson Nexans Norway +47 476 40 021	MVWI7 235008862	22.0m x 6.0m	16/06/2022	OTA ML & Open cut at landfall ML
16		Manor Enterprise	стv	Seaway7	George Cooper Seaway 7 +44 (0) 7545 642881	2FJE2 235091722	21.0m x 6.0m	03/04/2022	OWF Alpha & Bravo ML
17	The state of the s	Manor Endurance	ctv	Seaway7	George Cooper Seaway 7 +44 (0) 7545 642881	MIDM7 232030193	24.0m x 10.0m	11/04/2022	OWF Alpha & Bravo ML
18		MMS Superior	сти	Petrofac	Ram Jeyaraman ram.jeyaraman@petrofac.com	MGFO9 232024742	26.0mx 10.0mx2.1m	01/05/2022	OTA ML & Open cut at landfall ML
19	and the same of th	GV Helenus	Guard Vessel	Seaway7	George Cooper Seaway 7 +44 (0) 7545 642881	MHCJ4 233353000	26.61m x 7.5m	04/06/2022	OWF Alpha & Bravo ML
20		GV Ocean Quest	Guard Vessel	Nexans Norway AS	Per-Kristian Pederson Nexans Norway +47 476 40 021	MSBS6	21.2m x 6.6m	20/06/2022	OTA ML & Open cut at landfall ML



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