Hornsea 2 Offshore Wind Farm

WEEKLY STATUS REPORT

Ørsted

Week Commencing: 20/09/2021 WK 38
Notice no: 074
Issued on the 17th September 2021

Table of Contents

1. Ørsted Marine and Helicopter Coordination Centre (MHCC)
2. HOW02 Guard Vessel Details
3. HOW02 Deployed navigation aids and buoys
4. HOW02 Vessels Operations and Activities
5. HOW02 Vessel Update – Currently On Site
6. HOW02 Vessel Update – Due on Site
7. HOW02 Installation Status
8. HOW02 Current Scope of Works
9. HOW02 Notice to Mariners currently open
10. HOW02 Safety Zones

1. Ørsted Marine and Helicopter Co-ordination Centre (MHCC)

MHCC Routine Enquiries (24 hours)	+44 (0) 207 811 1171
MHCC Emergency Number (24 hours)	+44 (0) 207 811 1170
Email	MHCC_HOW02_ADM@orsted.co.uk

Safety Information

All vessel not involved in construction activities are requested to keep a 500m safety distance from construction and dive support vessels whilst transiting the area

During Construction

- 'Rolling' 500m Safety Zones (SZs) around each wind farm structure and / or their foundations when a construction vessel ***is*** present
- Pre-commissioning 50m SZs around any wind farm structure which is either partially constructed but not yet commissioned where a construction vessel ***is not*** present.

Discrepancies identified between coordinates should be questioned immediately to Ørsted. Information is supplied on a 'not for navigation' basis. All coordinated are WGS84 unless stated otherwise

2. HOW02 Guard Vessel Details

EMSWIND

Bridge: +31 255 787 008
Iridium: +8 816 777 626
Mobile: +34 697676216
emswind@DBconnect.nl
IMO No: 9824540
Call sign: C6DX8
MMSI: 311000812

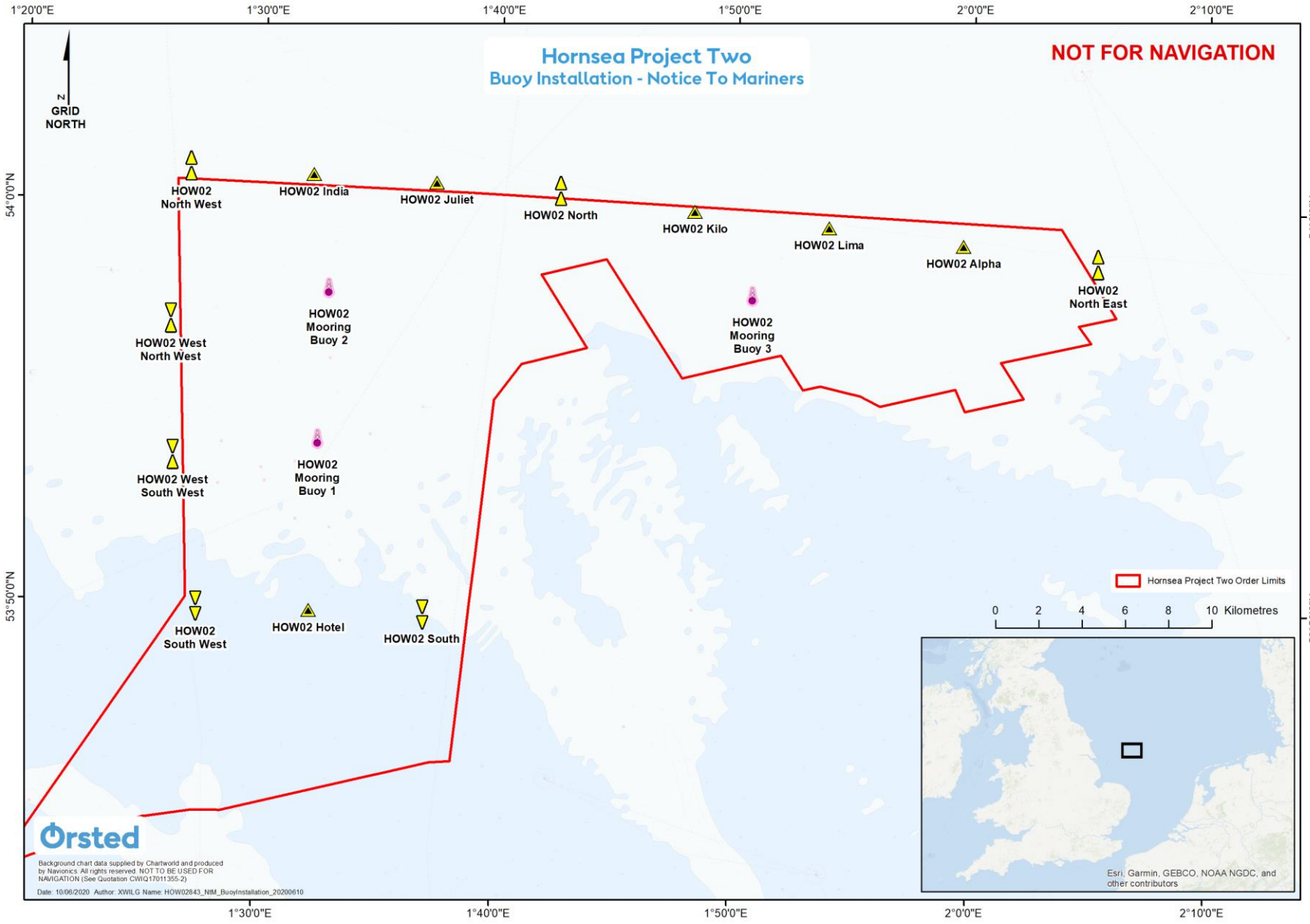
3. HOW02 Deployed navigation aids and buoys

Buoy Name	Longitude (WGS84)	Latitude (WGS84)	Buoy Name	Longitude (WGS84)	Latitude (WGS84)
HOW02 Alpha	1° 59.629' E	53° 59.161' N	HOW02 West South West	1° 26.344' E	53° 53.645' N
HOW02 Hotel	1° 32.225' E	53° 49.820' N	HOW02 West North West	1° 26.152' E	53° 57.041' N
HOW02 India	1° 32.092' E	54° 0.692' N	HOW02 Kilo	1° 48.240' E	53° 59.930' N
HOW02 Juliet	1° 37.306' E	54° 0.542' N	HOW02 Lima	1° 53.935' E	53° 59.573' N
Mooring Buoy 1	1° 32.447' E	53° 53.993' N	HOW02 North East	2° 5.322' E	53° 58.750' N
Mooring Buoy 2	1° 32.808' E	53° 57.757' N	HOW02 North West	1° 26.877' E	54° 0.842' N
Mooring Buoy 3	1° 50.716' E	53° 57.735' N	HOW02 South	1° 37.014' E	53° 49.769' N
HOW02 North	1° 42.544' E	54° 0.395' N	HOW02 South West	1° 27.442' E	53° 49.872' N

Buoy Name	Longitude (WGS84)	Latitude (WGS84
HOW02 RCS North	0° 55.936' E	53° 38.269' N
HOW02 RCS East	0° 56.357' E	53° 37.897' N
HOW02 RCS West	0° 55.560' E	53° 37.830' N

N.B RCS Buoys are being re-deployed 17/09 and these co-ordinates will change please refer to slide 7

HOW02 Demarcation Buoys



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URGENT

LOCATION : ENGLAND - EAST COAST - HORNSEA OFFSHORE WINDFARM (PROJECT 2)

STATION	WITH EFFECT FROM	BROADCAST DETAILS
HOW02 RCS NORTH LIGHTED BUOY DATUM: WGS 84	17.09.21 11:45 UTC	**ISSUED ON BEHALF OF OPTIMUS WIND** BUOY MOVED TO NEW ASSIGNED POSITION: LAT: 53° 38.431' N LONG: 000° 55.929' E
HOW02 RCS EAST LIGHTED BUOY DATUM: WGS 84	17.09.21 11:45 UTC	BUOY MOVED TO NEW ASSIGNED POSITION: LAT: 53° 37.929' N LONG: 000° 56.628' E
HOW02 RCS WEST LIGHTED BUOY DATUM: WGS 84	17.09.21 11:45 UTC	BUOY MOVED TO NEW ASSIGNED POSITION: LAT: 53° 37.772' N LONG: 000° 55.291' E

Additional information for the attention of Trinity House addressees only

Buoy moves carried out by THV Patricia.

AD / PLANNING CENTRE

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4. HOW02 Vessels Operations and Activities

Operations / Package	Vessel(s)	Comments
Construction	MHO Grimsby MHO Esbjerg MHO Gurli M/V Doer Emswind Deep Cygnus GMS Endeavour Seafox 7	Personnel Transfer / Survey Personnel Transfer Personnel Transfer Personnel Transfer Guard Vessel W2W SOV Jack-up Accommodation Jack-up Accommodation
Export Cable Installation	Resilient Blue Norther Island Valiant Ivero Boka Falcon	Guard Vessel CTV CFE Vessel Survey Vessel CFE Vessel
Foundations	Wind Orca	Foundation Installation
Array Cable Installation	Seaway Aimery Seaway Moxie Simar Esperanca	CLV ISV Trenching vessel
WTG Installation	Sea Challenger Sea Installer	WTG Installation Jack Up WTG Installation Jack Up
WTG Commissioning	Acta Auriga WEM 3 Horizon Star Manor Endurance Island Crown	Commissioning SOV Refuelling CTV Refuelling SOV Refuelling CTV Commissioning SOV
Array Cable Terminations	Wind Innovation	W2W SOV

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5. HOW02 Vessel Update

Vessels Currently On Site

Vessel Details			Vessel Communications				Work Schedule		VCC
Vessel Picture	Vessel Name	MMSI	Contact Number	Email	Type	Frequencies Monitored	Start / Arrival	Package	VCC Issued
GUARD VESSELS									
	Emswind	311000812	+31 255 787 008	emswind@DBconnect.nl	VHF	Ch. 16 & P1 @ 162.050 MHz	01.10.2020	Construction	30.09.2020
	Ability	235014666	+44 (0) 1346 490737	kmsability@gmail.com	VHF	Ch. 16 & P1 @ 162.050 MHz	25.10.2020	Export Cable Installation	27.10.2020
	Resilient	232711000	+44 (0) 2841140788	gvresilient@gmail.com	VHF	Ch. 16 & P1 @ 162.050 MHz	27.10.2020	Export Cable Installation	28.10.2020
CREW TRANSFER VESSELS									
	MHO Grimsby	219025992	+45 53 65 46 45	Mho-Grimsby@mho-co.dk	VHF	Ch. 16 & P1 @ 162.050 MHz	01.04.2020	Construction	04.05.2020
	MHO Esbjerg	219023786	+44 7869 303 667	Mho-Esbjerg@mho-co.dk	VHF	Ch. 16 & P1 @ 162.050 MHz	28/07/2020	Construction	13.11.2020
	Doer	219811000	+45 78 78 80 00	doer@n-o-s.eu	VHF	Ch. 16 & P1 @ 162.050 MHz	01.02.2021	Construction	13.11.2020
	MHO Gurli	219023785	+45 53 69 46 45	Mho-Gurli@mho-co.dk	VHF	Ch. 16 & P1 @ 162.050 MHz	01.06.2021	Construction	04.06.2021

HOW02 Vessel Update

Vessels Currently On Site continued.....

Vessel Details			Vessel Communications				Work Schedule		VCC
Vessel Picture	Vessel Name	MMSI	Contact Number	Email	Type	Frequencies Monitored	Start / Arrival	Package	VCC Issued
CONSTRUCTION VESSELS									
	Wind Orca	210548000	+45 89 88 60 67	wind.orca@cadeler.com	VHF	Ch. 16 & P1 @ 162.050 MHz	16.02.2021	Foundation Installation	19.02.2021
	Seaway Moxie	232015469	+49 303 0807 310	SeawayMoxie.Bridge@Subsea7.com	VHF	Ch. 16 & P1 @ 162.050 MHz	26.04.2021	Array Cable Installation	26.04.2021
	Seaway Aimery	232015468	+44 203 1454 129	SeawayAimery.Bridge@Subsea7.com	VHF	Ch. 16 & P1 @ 162.050 MHz	26.04.2021	Array Cable Installation	04.05.2021
	Wind Innovation	235113838	00870773262105	master.wi@c-bed.com	VHF	Ch. 16 & P1 @ 162.050 MHz	19.03.2021	Construction	13.03.2021
	Simar Esperanca	219027989	+44 1224 568827	SimarEsperanca.Bridge@Subsea7.com	VHF	Ch. 16 & P1 @ 162.050 MHz	07.06.2021	Array Cable Installation	24.03.2021
	Sea Installer	219456000	+45521 39519	bridge.seainstaller@deme-group.com	VHF	Ch. 16 & P1 @ 162.050 MHz	07.06.2021	WTG Installation	07.06.2021

HOW02 Vessel Update
Vessels Currently On Site continued...

Vessel Details			Vessel Communications				Work Schedule		VCC
Vessel Picture	Vessel Name	MMSI	Contact Number	Email	Type	Frequencies Monitored	Start / Arrival	Package	VCC Issued
CONSTRUCTION VESSELS									
	MCS Blue Norther	235096374	TBC	TBC	VHF	Ch. 16 & P1 @ 162.050 MHz	13.05.2021	Export Cable Installation	09.05.2021
	Deep Cygnus	257205000	+870 773 945 452	master@deepcygnus.no	VHF	Ch. 16 & P1 @ 162.050 MHz	25.05.2021	Construction	28.05.2021
	Sea Challenger	219019002	+45 5213 95 80	bridge.seachallenger@deme-group.com	VHF	Ch. 16 & P1 @ 162.050 MHz	25.05.2021	WTG Installation	25.05.2021
	Acta Auriga	244090781	TBC	TBC	VHF	Ch. 16 & P1 @ 162.050 MHz	01.06.2021	WTG Commissioning	04.06.2021
	Manor Venture	232007444	+44 740 734854	venture@mreltd.co.uk	VHF	Ch. 16 & P1 @ 162.050 MHz	01.06.2021	WTG Commissioning	06.06.2021
	Ivero	232013165	+44 7917 477 672	master@ivero.gardline.co.uk	VHF	Ch. 16 & P1 @ 162.050 MHz	10.06.2021	Export Cable Installation	03.03.2021
	BOKA Falcon	205787000	+31 6500 81621	bokafalcon-bridge@boskalis.com	VHF	Ch. 16 & P1 @ 162.050 MHz	17.05.2021	Export Cable Installation	12.09.2021

HOW02 Vessel Update
Vessels Currently On Site continued...

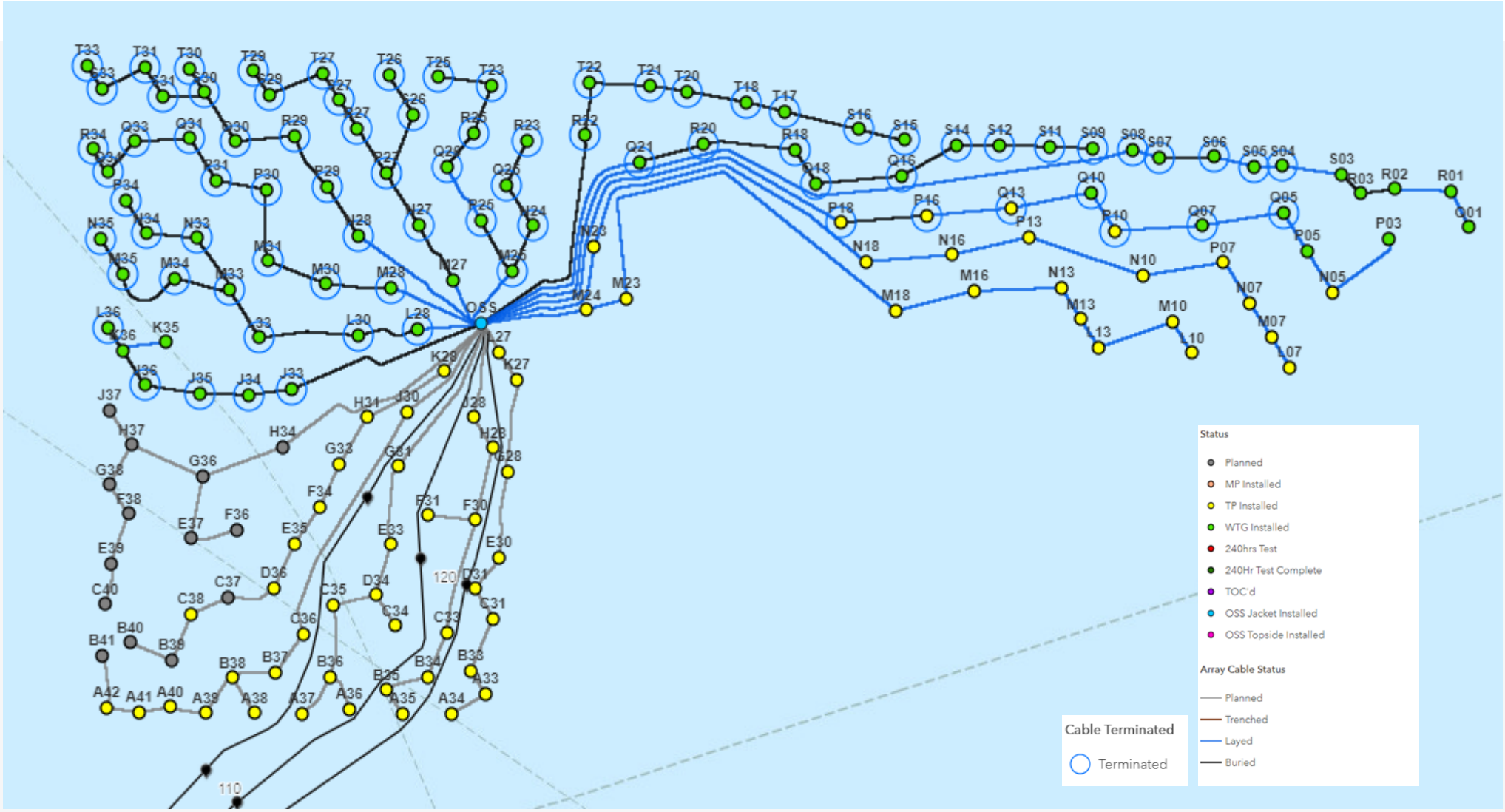
Vessel Details			Vessel Communications				Work Schedule		VCC
Vessel Picture	Vessel Name	MMSI	Contact Number	Email	Type	Frequencies Monitored	Start / Arrival	Package	VCC Issued
	WEM 3	2350035320	+441916220712	wem3@wemmarine.com	VHF	Ch. 16 & P1 @ 162.050 MHz	26.07/2021	WTG Commissioning	23.07.2021
	Horizon Star	314 559 000	+1 (709) 770-3275	bridgestar@horizonmaritime.com captainstar@horizonmaritime.com	VHF	Ch. 16 & P1 @ 162.050 MHz	16.06.2021	Export Cable Installation	22.06.2021
	FOB Swath 9	219027989	TBC	TBC	VHF	Ch. 16 & P1 @ 162.050 MHz	07.06.2021	WTG Commissioning	22.06.2021
	Seafox 7	235065812	+31 (0)23 7920420	radio.sf7@seafox.com	VHF	Ch. 16 & P1 @ 162.050 MHz	15.08.2021	Construction	14.08.2021
	GMS Endeavour	370582000	+442922402028	endeavour.6102@fleet.gmsplc.com	VHF	Ch. 16 & P1 @ 162.050 MHz	15.08.2021	Construction	14.08.2021
	Island Valiant	259367000	+47 95459225/302	captain@valiant.islandoffshore.com	VHF	Ch. 16 & P1 @ 162.050 MHz	22.08.2021	Export Cable Installation	14.08.2021
	Manor Endurance	232030193	+447398 144840	endurance@mreltd.co.uk	VHF	Ch. 16 & P1 @ 162.050 MHz	29.08.2021	WTG Commissioning	29.08.2021
	Island Crown	257245000	TBC	TBC	VHF	Ch. 16 & P1 @ 162.050 MHz	01.09.2021	WTG Commissioning	04.09.2021

6. HOW02 Vessel Update

Vessels Due On Site

Vessel Picture	Vessel Name	MMSI	Contact Number	Email	Type	Frequencies Monitored	Start / Arrival	Package
	Spirit	212471000	+31 655324243	spirit-captain@boskalis.com	VHF	Ch. 16 & P1 @ 162.050 MHz	16.06.2021	Export Cable Installation
	MHO Apollo	219028351	+4553894645	mho-apollo@mho-co.dk	VHF	Ch. 16 & P1 @ 162.050 MHz	20.09.2021	Construction
	MHO Asgard	219028352	+4553874645	mho-asgard@mho-co.dk	VHF	Ch. 16 & P1 @ 162.050 MHz	20.09.2021	Construction
	Normand Jarstein	257001590	+4752858350	bridge@jarstein.solstad.com	VHF	Ch. 16 & P1 @ 162.050 MHz	26.09.2021	Array Cable Termination

7. HOW02 Installation Status



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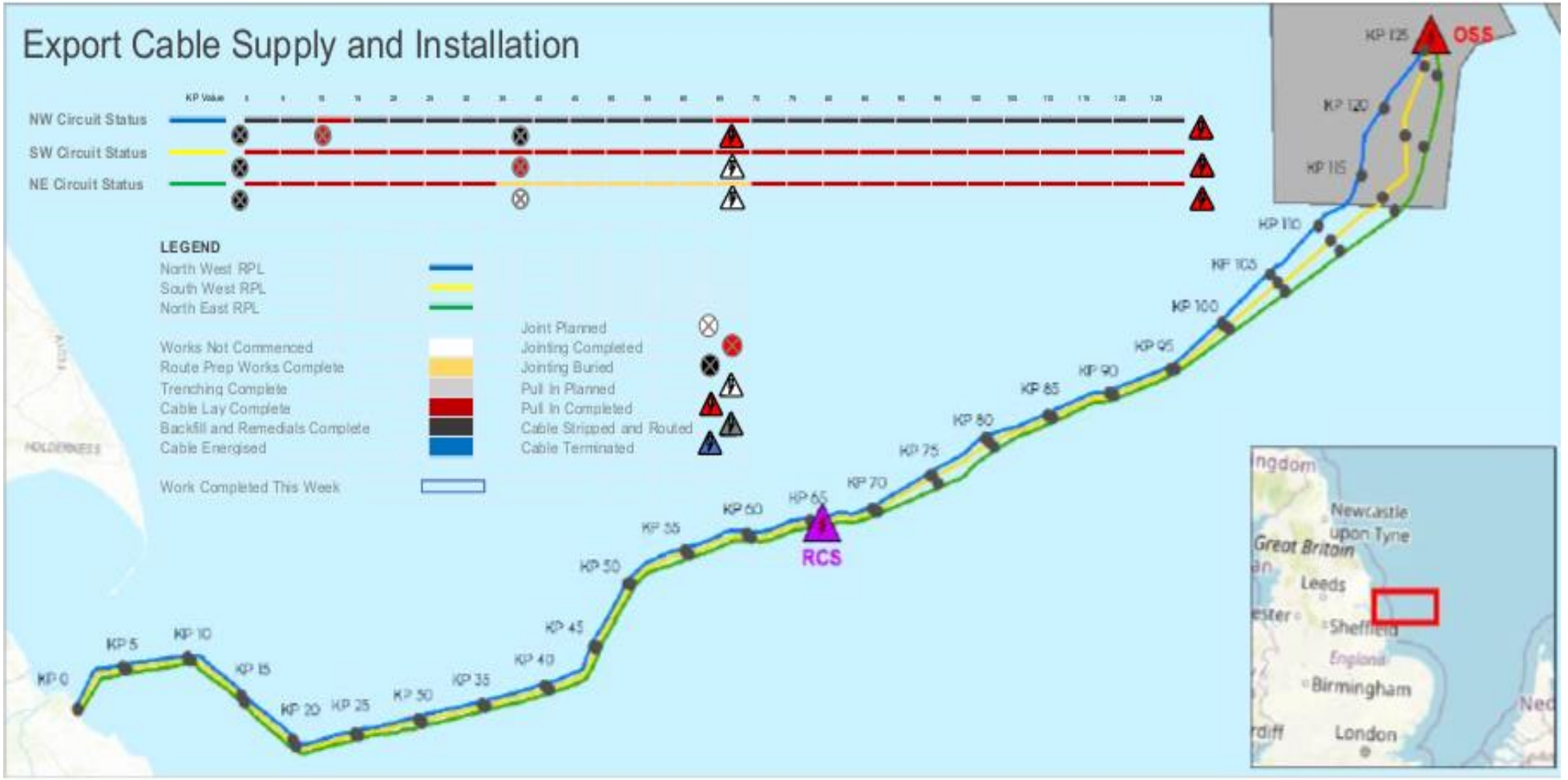
7. HOW02 Installation Status continued



NOTES / CHANGES:

1. Offshore CFE remedial works, with Island Valiant, progressing with CFE across NE FS cable and survey across all areas
2. Final cable trenching and burial campaign, with Boka Falcon, has commenced with trenching for the NE NSb cable
3. Final load out, with Spirit, commenced for NE NSb cable at Nexans factory in Halden, Norway

8. HOW02 Current Scope of Works

Export Cable Installation
- Resilient – Cable Guard Vessel
- Blue Norther– CTV
- Island Valiant – CFE Vessel
- Ivero – Survey Works
- Boka Falcon CFE Vessel

Construction
- MHO Grimsby – Survey / Personnel Transfer
- MHO Esbjerg – Personnel Transfer
- NHO Gurli – Personnel Transfer
- M/V Doer – Personnel Transfer
- Emswind – HOW02 Guard Vessel
- Deep Cygnus – SOV W2W
- Seafox 7 – Jack-up accommodation RCS
- GMS Endeavour - Jack-up accommodation OSS

Foundations
- Wind Orca – MP and TP Installation

Array Cable terminations
- Wind Innovation – SOV

WTG Installation
- Sea Challenger – WTG Installation Vessel
- Sea Installer – WTG Installation Vessel

WTG Commissioning
- Island Crown - SOV
- Acta Auriga – SOV
- WEM 3 – Refuelling CTV
- Horizon Star – Refuelling SOV
- Manor Endurance – Refuelling CTV

Array Cable Installations
- Seaway Aimery – Cable lay vessel for Array Cables
- Seaway Moxie – Installation Support Vessel for CLV
- Simar Esperanca – Cable Trenching vessel

9. HOW02 Notice to Mariners currently open

NtM Title	Document No	Description
HOW02_OFF_EX_NtM Boulder Clearance and Trial Trenching	05970048_J	Notice of Boulder Clearance and Trial Trenching
HOW02_OFF_EX_NtM Notification of UXO	06063171_I	Notice of Further cUXO Identified
HOW02_OFF_EX_NtM Transponder and Metocean Buoy Deployment	06197107_H	Notice of measurement buoy deployment
HOW02_OFF_EX_NtM for beach works	06362764_I	Notice of Beach Works
HOW02_OFF_EX_NtM Commencement of Export Cable Works	06196988_A	Notice of Export Cable Installation
HOW02_OFF_EX_NtM Export Cable Installation Works	06239336_W	Notice of Export Cable Installation Activities
HOW02_OFF_EX_NtM Deployment of Construction Buoys	06230743_E	Construction Demarcation Buoy Deployment
HOW02_OFF_EX_NtM WTF Foundation Installation Works	06478167_D	Notice of Foundation Installation Works – Commencement of Scour protection Installation
HOW02_OFF_EX_NtM Array Cable Installation Works	06478166_E	Notice of Array Cable Installation Works – Commencement of PLGR
HOW02_OFF_EX_NtM OSS RCS Installation	06523452_D	Notice of Foundation Installation Activities – Commencement of OSS and RCS Jacket Installation
HOW02_OFF_EX NtM Construction Activities	06833271_F	Notice of Construction Activities – Vessel Update
HOW02_OFF_EX_NtM WTG Installation Works	07035285_F	Notice of Wind Turbine Generator (WTG) Installation Works

https://doreco.orsted.dk/share/service/doc-rev/revision/revision-linking?latestApproved=true&chronicleId=06512701

10. HOW02 Safety Zones

If there are any questions regarding safety zones please contact MHCC or HOW02 Ops Support

– **During Construction**

- 'Rolling' 500m Safety Zones (SZs) around each wind farm structure and / or their foundations when a construction vessel ***is*** present
- Pre-commissioning 50m SZs around any wind farm structure which is either partially constructed but not yet commissioned where a construction vessel ***is not*** present.

Current HOW02 Active Safety Zones

Asset	Size	Duration
HB Z11	50m	Until further notice
HB Z01	50m	Until further notice
Innovation	500m	Until further notice
S14	50m	Until further notice
S09	50m	Until further notice
P30	50m	Until further notice
R20	50m	Until further notice

HOW02 Safety Zones Continued

Asset	Size	Duration
T18	50m	Until further notice
T20	50m	Until further notice
S07	50m	Until further notice
T21	50m	Until further notice
T22	50m	Until further notice
S04	50m	Until further notice
S15	50m	Until further notice
J35	50m	Until further notice
S16	50m	Until further notice
L30	50m	Until further notice
M35	50m	Until further notice
J34	50m	Until further notice

HOW02 Safety Zones Continued

Asset	Size	Duration
M33	50m	Until further notice
M30	50m	Until further notice
Q16	50m	Until further notice
Q07	50m	Until further notice
S03	50m	Until further notice
S12	50m	Until further notice
S33	50m	Until further notice
T31	50m	Until further notice
S31	50m	Until further notice
R34	50m	Until further notice
T17	50m	Until further notice
R02	50m	Until further notice

HOW02 Safety Zones Continued

Asset	Size	Duration
P16	50m	Until further notice
T33	50m	Until further notice
S11	50m	Until further notice
T27	50m	Until further notice
S08	50m	Until further notice
S06	50m	Until further notice
S05	50m	Until further notice
S30	50m	Until further notice
S27	50m	Until further notice
R01	50m	Until further notice
Q13	50m	Until further notice
T29	50m	Until further notice
Q10	50m	Until further notice

HOW02 Safety Zones Continued

Asset	Size	Duration
S29	50m	Until further notice
S07	50m	Until further notice
S04	50m	Until further notice
M25	50m	Until further notice
T30	50m	Until further notice
P25	50m	Until further notice
R25	50m	Until further notice
P16	50m	Until further notice
N16	50m	Until further notice
P10	50m	Until further notice
N10	50m	Until further notice
R03	50m	Until further notice

HOW02 Safety Zones Continued

Asset	Size	Duration
T23	50m	Until further notice
Q25	50m	Until further notice
M16	50m	Until further notice
P13	50m	Until further notice
N13	50m	Until further notice
Q26	50m	Until further notice
R23	50m	Until further notice
R27	50m	Until further notice
P27	50m	Until further notice
N24	50m	Until further notice
Q33	50m	Until further notice
T26	50m	Until further notice

HOW02 Safety Zones Continued

Asset	Size	Duration
R22	50m	Until further notice
L28	50m	Until further notice
M27	50m	Until further notice
N28	50m	Until further notice
N33	50m	Until further notice
P29	50m	Until further notice
S26	50m	Until further notice
N27	50m	Until further notice
M31	50m	Until further notice
Q30	50m	Until further notice
R29	50m	Until further notice
P31	50m	Until further notice

HOW02 Safety Zones Continued

Asset	Size	Duration
Q31	50m	Until further notice
Q34	50m	Until further notice
L33	50m	Until Further Notice
N34	50m	Until Further Notice
M34	50m	Until Further Notice
N35	50m	Until Further Notice
J36	50m	Until Further Notice
P34	50m	Until Further Notice
J33	50m	Until Further Notice
K36	50m	Until Further Notice
L36	50m	Until Further Notice
K35	50m	Until Further Notice

HOW02 Safety Zones Continued

Asset	Size	Duration
Q21	50m	Until Further Notice
P18	50m	Until Further Notice
Q01	50m	Until Further Notice
R18	50m	Until Further Notice
Q05	50m	Until Further Notice
N05	50m	Until Further Notice
P05	50m	Until Further Notice
N23	50m	Until Further Notice
P03	50m	Until Further Notice
P07	50m	Until Further Notice
M23	50m	Until Further Notice
N18	50m	Until Further Notice

HOW02 Safety Zones Continued

Asset	Size	Duration
M07	50m	Until Further Notice
L07	50m	Until Further Notice
M18	50m	Until Further Notice
M13	50m	Until Further Notice
M24	50m	Until Further Notice
N07	50m	Until Further Notice
M10	50m	Until Further Notice
L10	50m	Until Further Notice
L13	50m	Until Further Notice
L27	50m	Until Further Notice
G28	50m	Until Further Notice
K27	50m	Until Further Notice

HOW02 Safety Zones Continued

Asset	Size	Duration
E30	50m	Until Further Notice
D31	50m	Until Further Notice
C31	50m	Until Further Notice
A33	50m	Until Further Notice
B33	50m	Until Further Notice
A34	50m	Until Further Notice
J28	50m	Until Further Notice
H28	50m	Until Further Notice
F30	50m	Until Further Notice
F31	50m	Until Further Notice
C33	50m	Until Further Notice
B34	50m	Until Further Notice

HOW02 Safety Zones Continued

Asset	Size	Duration
B35	50m	Until Further Notice
A35	50m	Until Further Notice
E33	50m	Until Further Notice
G31	50m	Until Further Notice
D34	50m	Until Further Notice
C34	50m	Until Further Notice
C35	50m	Until Further Notice
A37	50m	Until Further Notice
B36	50m	Until Further Notice
J30	50m	Until Further Notice
A36	50m	Until Further Notice
B37	50m	Until Further Notice

HOW02 Safety Zones Continued

Asset	Size	Duration
C36	50m	Until Further Notice
B38	50m	Until Further Notice
A39	50m	Until Further Notice
K28	50m	Until Further Notice
A40	50m	Until Further Notice
A41	50m	Until Further Notice
B41	50m	Until Further Notice
A42	50m	Until Further Notice
A38	50m	Until Further Notice
A41	50m	Until Further Notice
F34	50m	Until Further Notice
C38	50m	Until Further Notice

HOW02 Safety Zones Continued

Asset	Size	Duration
H32	50m	Until Further Notice
D36	50m	Until Further Notice
G33	50m	Until Further Notice
E35	50m	Until Further Notice