



REPORT



Hornsea Project One Offshore Windfarm

Weekly Notice of Operations

| | |
|---------------------|--------------------------------|
| For Week Commencing | 26 th November 2018 |
| Notice Number | 63 |
| Issue Date: | 26 th November 2018 |

Prepared Benjamin Skelly (BESKE), 6 September 2017
Checked Benjamin Skelly (BESKE), 15 September 2017
Accepted Marc Browne (MBROW), 15 September 2017
Approved Ole Juulsgaard (OLEJU), 15 September 2017

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1. Ørsted Marine & Helicopter Co-ordination Centre

| | |
|------------------------------|--|
| Routine enquiries (24 hours) | 0044 (0) 207 811 1171 |
| Emergency number (24 hours) | 0044 (0) 207 811 1170 |
| Email | MHCC_HOW01_ADM@orsted.co.uk |

2. The UK main ports supporting current operations

Grimsby - Crew Transfer Vessels (CTV), light logistics (personnel, tools and equipment) & main vessel port logistics

3. Safety Information

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

All vessels should proceed with caution whilst navigating and/or working in the area and be aware of the statutory 50m safety zone around each fixed asset.

The Self-Propelled Jack Up Barge (JUB) GMS Endeavour is jacked up at Z13 and requires a 500m exclusion zone. The Self-Propelled Jack Up Barge (JUB) GMS Evolution is jacked up at Z01 and requires a 500m exclusion zone.

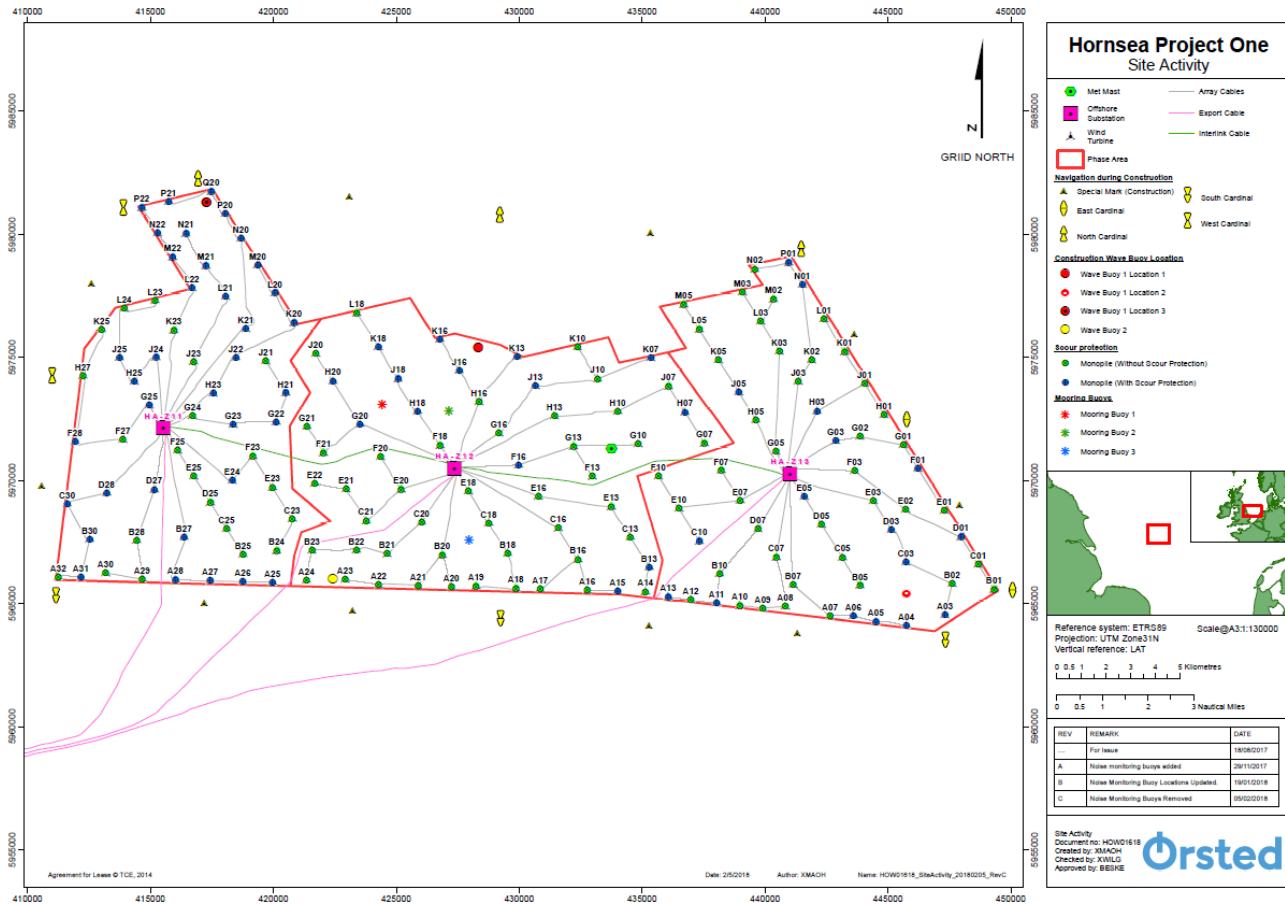
Z01 "RCS" is now installed and in position 52°32.11'N 00°57.07'E.

Installation vessels Innovation and Sea Installer on site to continue monopile and TP installation.

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

4. Deployed navigation aids and buoys

The offshore site boundary for HOW01 is shown as below, and will be marked by standard IALA navigation marks. All buoys have been deployed as per below tables.



4.1 Demarcation Buoys

| Station | Coordinates | Broadcast Details |
|----------------------|---------------------------------|---|
| HOW01 DELTA | 53° 49.170' N 002° 06.502' E | SPECIAL MARK, YELLOW PILLAR, YELLOW CROSS LIGHT:FL Y 5S |
| HOW01 ECHO | 53° 49.283' N 002° 01.003' E | SPECIAL MARK, YELLOW PILLAR, YELLOW CROSS LIGHT:FL Y 5S |
| HOW01 ALPHA | 53° 57.903' N 002° 00.863' E | SPECIAL MARK, YELLOW PILLAR, YELLOW CROSS LIGHT: FL Y 5S |
| HOW01 BRAVO | 53° 55.734' N 002° 08.474' E | SPECIAL MARK, YELLOW PILLAR, YELLOW CROSS LIGHT: FL Y 5S |
| HOW01 CHARLIE | 53° 52.021' N 002° 12.474' E | SPECIAL MARK, YELLOW PILLAR, YELLOW CROSS LIGHT: FL Y 5S |

| | | |
|-----------------------------------|---------------------------------|---|
| HOW01 FOXTROT | 53° 49.510' N 001° 50.006' E | SPECIAL MARK, YELLOW PILLAR, YELLOW CROSS LIGHT: FL Y 5S |
| HOW01 GOLF | 53° 49.623' N 001° 44.506' E | SPECIAL MARK, YELLOW PILLAR, YELLOW CROSS LIGHT: FL Y 5S |
| HOW01 HOTEL | 53° 52.133' N 001° 38.400' E | SPECIAL MARK, YELLOW PILLAR, YELLOW CROSS LIGHT: FL Y 5S |
| HOW01 INDIA | 53° 56.589' N 001° 40.109' E | SPECIAL MARK, YELLOW PILLAR, YELLOW CROSS LIGHT: FL Y 5S |
| HOW01 JULIET | 53° 58.586' N 001° 49.624' E | SPECIAL MARK, YELLOW PILLAR, YELLOW CROSS LIGHT: FL Y 5S |
| HOW01 WEST | 53° 54.551' N 001° 38.708' E | WEST CARDINAL YELLOW BLACK YELLOW PILLAR, Q (9) 15s, 2 CONES APEX INWARDS |
| HOW01 WEST NORTH WEST | 53° 58.263' N 001° 41.238' E | WEST CARDINAL YELLOW BLACK YELLOW PILLAR, VQ (9) 10s, 2 CONES APEX INWARDS |
| HOW01 SOUTH | 53° 49.396' N 001° 55.504' E | SOUTH CARDINAL YELLOW OVER BLACK PILLAR: 2 CONES APEX DOWNWARDS LIGHT: Q (6) + 1L FL 15s |
| HOW01 SOUTH WEST | 53° 49.500' N 001° 39.007' E | SOUTH CARDINAL YELLOW OVER BLACK PILLAR: 2 CONES APEX DOWNWARDS LIGHT: VQ (6) + 1L FL 10s |
| HOW01 NORTH WEST | 53° 58.928' N 001° 44.004' E | NORTH CARDINAL, BLACK OVER YELLOW PILLAR, VQ, TOPMARK; 2 CONES APEX UPWARDS |
| HOW01 NORTH | 53° 58.244' N 001° 55.244' E | NORTH CARDINAL, BLACK OVER YELLOW PILLAR, Q, TOPMARK; 2 CONES APEX UPWARDS |
| HOW01 NORTH EAST | 53° 57.590' N 002° 06.473' E | NORTH CARDINAL, BLACK OVER YELLOW PILLAR, VQ, 2 CONES APEX UPWARDS |
| HOW01 EAST | 53° 53.878' N 002° 10.474' E | EAST CARDINAL BLACK YELLOW BLACK PILLAR, Q(3) 10s, 2 CONES APEX OUTWARDS |
| HOW01 SOUTH EAST | 53° 50.165' N 002° 14.470' E | EAST CARDINAL BLACK YELLOW BLACK PILLAR, VQ(3) 5s, 2 CONES APEX OUTWARDS |
| HOW01 SOUTH SOUTH EAST | 53° 49.056' N 002° 12.000' E | SOUTH CARDINAL YELLOW OVER BLACK PILLAR, VQ (6) + L fl 10s, 2 CONES APEX DOWNWARDS |

4.2 RCS Site

| | | |
|------------------------|-----------------------------|--|
| HOW01 RCS S | 53°37.385'N 000°56.164'E | South Cardinal VQ (6) +LFL 10s (White) Top Mark: South Day Mark: Yellow Black Racon: Tango REMOVED UNTIL FURTHER NOTICE |
| HOW01 RCS E | 53°37.586'N 000°56.619'E | East Cardinal VQ (3) 5s (White) Top Mark: East Day Mark: Black Yellow Black REMOVED UNTIL FURTHER NOTICE |
| HOW01 RCS N | 53°37.925'N 000°56.164'E | North Cardinal VQ (White) Top Mark: North Day Mark: Black Yellow |
| HOW01 RCS W | 53°37.754'N 000°55.689'E | West Cardinal VQ (9) 10s (White) Top Mark: West Day Mark: Yellow Black Yellow |

4.3 Mooring buoys

| | | |
|----------------------------|---------------------------------|---|
| HOW01 MOORING 3 | 53° 51.107' N 001° 54.279' E | SPECIAL MARK, YELLOW PILLAR, NO TOPMARK LIGHT: FL Y 5S |
| HOW01 MOORING 2 | 53° 53.915' N 001° 53.457' E | SPECIAL MARK, YELLOW PILLAR, NO TOPMARK LIGHT:FL Y 5S |
| HOW01 MOORING 1 | 53° 54.025' N 001° 50.986' E | SPECIAL MARK, YELLOW PILLAR, NO TOPMARK LIGHT:FL Y 5S |

4.4 Wave Buoys

| | | |
|-------------------------|---------------------------------|---|
| HOW01 Wave 1 | 53° 50.033' N 002° 10.316' E | SPECIAL MARK YELLOW BOUY, Q (5) 20s – (YELLOW) TOPMARK; YELLOW CROSS |
| HOW01 Wave 2 | 53° 50.123' N 001° 49.152' E | SPECIAL MARK YELLOW BOUY, Q (5) 20s – (YELLOW) TOPMARK; YELLOW CROSS |

4.5 Subsea Monuments – On Seabed

| | |
|-----------------------|---------------------------------|
| Monument 1 | 53° 51.647' N 001° 48.904' E |
| Monument 2 | 53° 44.466' N 001° 24.407' E |

5. HOW01 Vessel Update

Below is a list of vessels working on the Hornsea One Project.

VCC – Vessel Clearance Certificate, this ensure all procedures have been followed to allow a vessel to begin operations.

| Vessel Details | | Summary of Vessel Communications | | | | Work Schedule | | Vessel Clearance Certificate | |
|------------------------------|------------|----------------------------------|--------------------------------|------|---------------------------|---------------|--------------|------------------------------|---------------|
| Vessel Name | MMSI | Contact Number | E-mail | Type | Frequencies Monitored | Start/Arrival | Work Package | VCC Issued | VCC Number |
| GUARD VESSELS | | | | | | | | | |
| Esvagt Castor | 220003000 | (+45) 61 62 67 74 | castor@esvagtvesel.com | VHF | Ch. 16 & P1 @ 162.050 MHz | 24/10/2017 | Construction | 27/10/2017 | HOW01-VCC-009 |
| Rover Alpha | 235010380 | +44 (0) 7947402153 | george.west533@btinternet.com | VHF | Ch. 16 & P1 @ 162.050 MHz | 06/04/2018 | Export Cable | 06/04/2018 | HOW01-VCC-036 |
| Natalie C | 232004523 | +44(0)7786512045 | natalieb@e-catch.info | VHF | Ch. 16 & P1 @ 162.050 MHz | 10/04/2018 | Export Cable | 10/04/2018 | HOW01-VCC-039 |
| Resolute | 2350690136 | | russel@drdiesel.co.uk | VHF | Ch. 16 & P1 @ 162.050 MHz | 13/04/2018 | Export Cable | 13/04/2018 | HOW01-VCC-041 |
| VikingFjord | 258493000 | +4790638579 | vikingfjord@mmred.no | VHF | Ch. 16 & P1 @ 162.050 MHz | 21/04/2018 | Construction | 20/04/2018 | HOW01-VCC-043 |
| Adventure | 235109237 | +44 7446 054547 | gvadventure@gmail.com | VHF | Ch. 16 & P1 @ 162.050 MHz | 18/05/2018 | Export Cable | 18/05/2018 | HOW01-VCC-064 |
| CREW TRANSFER VESSELS | | | | | | | | | |
| MCS Pampero | 235092103 | 07769934448 | mcsbampero@maritimecraft.co.uk | VHF | Ch. 16 & P1 @ 162.050 MHz | 31/05/2018 | Construction | 30/05/2018 | HOW01-VCC-067 |
| OOC Nerz | 232010560 | +45 53 65 46 45 | occ-nerz@mho-co.dk | VHF | Ch. 16 & P1 @ 162.050 MHz | 25/07/2018 | Construction | 27/07/2018 | HOW01-VCC-080 |

| Vessel Details | | Summary of Vessel Communications | | | | Work Schedule | | Vessel Clearance Certificate | |
|----------------------------------|-----------|----------------------------------|---|------|---------------------------|---------------|--------------|------------------------------|---------------|
| Vessel Name | MMSI | Contact Number | E-mail | Type | Frequencies Monitored | Start/Arrival | Work Package | VCC Issued | VCC Number |
| Rix Leopard | 235113904 | +44 (0) 07702 657434 | rix.leopard@rix.co.uk | VHF | Ch. 16 & P1 @ 162.050 MHz | 13/03/2018 | Construction | 22/03/2018 | HOW01-VCC-021 |
| Rix Lynx | 235115745 | +07836615491 | rix.lynx@rix.co.uk | VHF | Ch. 16 & P1 @ 162.050 MHz | 11/04/2018 | Construction | 11/04/2018 | HOW01-VCC-023 |
| JACK UP SHIPS | | | | | | | | | |
| Sea Installer | 219456000 | 020 3145 4420 | bridge_si@a2sea.com | VHF | Ch. 16 & P1 @ 162.050 MHz | 13/09/2018 | Foundations | 13/09/2018 | HOW01-VCC-095 |
| GMS Endeavour | 370582000 | +44 07379 922184 | endeavour.master@fleet.gmsuae.com | VHF | Ch. 16 & P1 @ 162.050 MHz | 13/03/2018 | Construction | 15/04/2018 | HOW01-VCC-025 |
| GMS Evolution | 374250000 | +870773261545 | evolution.master@fleet.gmsuae.com | VHF | Ch. 16 & P1 @ 162.050 MHz | 15/06/2018 | Construction | 16/06/2018 | HOW01-VCC-010 |
| Innovation | 218781000 | - | bridge.innovation@ships.deme.be | VHF | Ch. 16 & P1 @ 162.050 MHz | 23/12/2017 | Foundations | 22/01/2018 | HOW01-VCC-016 |
| CABLE LAYING VESSELS | | | | | | | | | |
| Living Stone | 245746000 | +49 42 15 17 219 | captain.livingstone@ships.deme-group.be | VHF | Ch. 16 & P1 @ 162.050 MHz | 03/11/2018 | Export Cable | 03/11/2018 | HOW01-VCC-81 |
| Connector | 373479000 | +47 528 583 56 | master@connector.solstadarstad.com | VHF | Ch. 16 & P1 @ 162.050 MHz | 04/04/2018 | Export Cable | 04/04/2018 | HOW01-VCC-040 |
| Seaway Aimery | 232015468 | (0)203 145 41 22 | MSV_SeawayAimery.Bridge@Subsea7.com | VHF | Ch. 16 & P1 @ 162.050 MHz | 15/10/2018 | Array Cable | 14/10/2018 | HOW01-VCC-099 |
| SERVICE OPERATION VESSELS | | | | | | | | | |

| Vessel Details | | Summary of Vessel Communications | | | | Work Schedule | | Vessel Clearance Certificate | |
|--------------------------|-----------|----------------------------------|--|------|---------------------------|---------------|--------------|------------------------------|---------------|
| Vessel Name | MMSI | Contact Number | E-mail | Type | Frequencies Monitored | Start/Arrival | Work Package | VCC Issued | VCC Number |
| Seaway Moxie | 232015469 | +47 47793558 | SeawayMoxie.Captain@Subsea7.com | VHF | Ch. 16 & P1 @ 162.050 MHz | 11/10/2018 | Array Cable | 11/10/2018 | HOW01-VCC-091 |
| Edda Mistral | 232008600 | +44 1472 86 8003 | master.nb470@ostensjo.no | VHF | Ch. 16 & P1 @ 162.050 MHz | 10/09/2018 | Construction | 09/09/2018 | HOW01-VCC-092 |
| Wind Innovation | 235113838 | +45 21 325 431 | master.wi@c-bed.nl | VHF | Ch. 16 & P1 @ 162.050 MHz | 07/07/2018 | Construction | 06/07/2018 | HOW01-VCC-029 |
| TRENCHING VESSELS | | | | | | | | | |
| Havila Phoenix | 311000229 | (+47) 21 038 800 | bridge.phoenix@havalaship.com | VHF | Ch. 16 & P1 @ 162.050 MHz | 26/02/2018 | Array Cable | 07/07/2018 | HOW01-VCC-018 |
| Grand Canyon | 257031820 | +4721034500 | master@grand-canyon.no | VHF | Ch. 16 & P1 @ 162.050 MHz | 29/10/2018 | Array Cable | 27/10/2018 | HOW01-VCC-044 |
| Lange Wapper | 250309000 | (+44) 07702 657434 | bridge.langewapper@ships.deme-group.com | VHF | Ch. 16 & P1 @ 162.050 MHz | 24/09/2017 | Export Cable | 24/09/2017 | HOW01-VCC-004 |
| SURVEY VESSELS | | | | | | | | | |
| SeaZip Fix | 244170283 | +31 610390664 | pcde@seazip.com | VHF | Ch. 16 & P1 @ 162.050 MHz | 22/11/2018 | Export Cable | 22/11/18 | HOW01-VCC-107 |
| MISCELLANEOUS | | | | | | | | | |

6. Asset Installation Status

Foundations Scour Protection, Monopiles (MP), Transition piece (TP) and Turbine Installation Progress

- Complete
- Not required

| WTG ID | Foundation | | | Turbine | | | WTG ID | Foundation | | | Turbine | | |
|--------|--------------|----------|----------|---------|---------|--------|--------|--------------|----------|----------|---------|---------|--------|
| | Scour | MP | TP | Tower | Nacelle | Blades | | Scour | MP | TP | Tower | Nacelle | Blades |
| A03 | Complete | Complete | Complete | | | | B25 | Not required | Complete | Complete | | | |
| A04 | Complete | Complete | Complete | | | | B27 | Complete | Complete | | | | |
| A05 | Complete | Complete | Complete | | | | B28 | Not required | Complete | Complete | | | |
| A06 | Complete | Complete | Complete | | | | B30 | Complete | Complete | Complete | | | |
| A07 | Not required | Complete | Complete | | | | C01 | Not required | Complete | Complete | | | |
| A08 | Not required | Complete | Complete | | | | C03 | Complete | Complete | Complete | | | |
| A09 | Not required | Complete | Complete | | | | C05 | Not required | Complete | Complete | | | |
| A10 | Not required | Complete | Complete | | | | C07 | Not required | Complete | Complete | | | |
| A11 | Complete | Complete | Complete | | | | C10 | Complete | Complete | Complete | | | |
| A12 | Not required | Complete | Complete | | | | C13 | Not required | Complete | Complete | | | |
| A13 | Complete | Complete | Complete | | | | C16 | Not required | Complete | Complete | | | |
| A14 | Not required | Complete | Complete | | | | C18 | Not required | Complete | Complete | | | |
| A15 | Complete | Complete | Complete | | | | C20 | Not required | Complete | Complete | | | |
| A16 | Not required | Complete | Complete | | | | C21 | Not required | Complete | Complete | | | |
| A17 | Not required | Complete | Complete | | | | C23 | Not required | Complete | Complete | | | |
| A18 | Not required | Complete | Complete | | | | C25 | Not required | Complete | Complete | | | |
| A19 | Not required | Complete | Complete | | | | C30 | Complete | Complete | Complete | | | |
| A20 | Not required | Complete | Complete | | | | D01 | Complete | Complete | Complete | | | |
| A21 | Not required | Complete | Complete | | | | D03 | Complete | Complete | Complete | | | |
| A22 | Not required | Complete | Complete | | | | D05 | Not required | Complete | Complete | | | |
| A23 | Not required | Complete | Complete | | | | D07 | Not required | Complete | Complete | | | |
| A24 | Not required | Complete | Complete | | | | D25 | Not required | Complete | Complete | | | |
| A25 | Complete | Complete | Complete | | | | D27 | Complete | Complete | Complete | | | |
| A26 | Complete | Complete | Complete | | | | D28 | Complete | Complete | Complete | | | |
| A27 | Complete | Complete | Complete | | | | E01 | Not required | Complete | Complete | | | |
| A28 | Complete | Complete | Complete | | | | E02 | Not required | Complete | Complete | | | |
| A29 | Not required | Complete | Complete | | | | E03 | Not required | Complete | Complete | | | |
| A30 | Not required | Complete | Complete | | | | E05 | Complete | Complete | Complete | | | |
| A31 | Complete | Complete | Complete | | | | E07 | Not required | Complete | Complete | | | |
| A32 | Not required | Complete | Complete | | | | E10 | Not required | Complete | Complete | | | |
| B01 | Not required | Complete | Complete | | | | E13 | Not required | Complete | Complete | | | |
| B02 | Not required | Complete | Complete | | | | E16 | Not required | Complete | Complete | | | |
| B05 | Not required | Complete | Complete | | | | E18 | Not required | Complete | Complete | | | |
| B07 | Not required | Complete | Complete | | | | E20 | Not required | Complete | Complete | | | |
| B10 | Not required | Complete | Complete | | | | E21 | Not required | Complete | Complete | | | |
| B13 | Complete | Complete | Complete | | | | E22 | Not required | Complete | Complete | | | |
| B16 | Not required | Complete | Complete | | | | E23 | Not required | Complete | Complete | | | |
| B18 | Not required | Complete | Complete | | | | E24 | Complete | Complete | Complete | | | |
| B20 | Not required | Complete | Complete | | | | E25 | Not required | Complete | Complete | | | |
| B21 | Not required | Complete | Complete | | | | F01 | Complete | Complete | Complete | | | |
| B22 | Not required | Complete | Complete | | | | F03 | Not required | Complete | Complete | | | |
| B23 | Not required | Complete | Complete | | | | F07 | Not required | Complete | Complete | | | |
| B24 | Not required | Complete | Complete | | | | F10 | Not required | Complete | Complete | | | |

| WTG ID | Foundation | | | Turbine | | |
|--------|------------|----|----|---------|---------|--------|
| | Scour | MP | TP | Tower | Nacelle | Blades |
| F13 | | | | | | |
| F16 | | | | | | |
| F18 | | | | | | |
| F20 | | | | | | |
| F21 | | | | | | |
| F23 | | | | | | |
| F25 | | | | | | |
| F27 | | | | | | |
| F28 | | | | | | |
| G01 | | | | | | |
| G02 | | | | | | |
| G03 | | | | | | |
| G05 | | | | | | |
| G07 | | | | | | |
| G10 | | | | | | |
| G13 | | | | | | |
| G16 | | | | | | |
| G20 | | | | | | |
| G21 | | | | | | |
| G22 | | | | | | |
| G23 | | | | | | |
| G24 | | | | | | |
| G25 | | | | | | |
| H01 | | | | | | |
| H03 | | | | | | |
| H05 | | | | | | |
| H07 | | | | | | |
| H10 | | | | | | |
| H13 | | | | | | |
| H16 | | | | | | |
| H18 | | | | | | |
| H20 | | | | | | |
| H21 | | | | | | |
| H23 | | | | | | |
| H25 | | | | | | |
| H27 | | | | | | |
| J01 | | | | | | |
| J03 | | | | | | |
| J05 | | | | | | |
| J07 | | | | | | |
| J10 | | | | | | |
| J13 | | | | | | |
| J16 | | | | | | |
| J18 | | | | | | |
| J20 | | | | | | |
| J21 | | | | | | |
| J22 | | | | | | |
| J23 | | | | | | |
| J24 | | | | | | |
| J25 | | | | | | |
| K01 | | | | | | |
| K02 | | | | | | |
| K03 | | | | | | |
| K05 | | | | | | |

| WTG ID | Foundation | | | Turbine | | |
|--------|------------|----|----|---------|---------|--------|
| | Scour | MP | TP | Tower | Nacelle | Blades |
| K07 | | | | | | |
| K10 | | | | | | |
| K13 | | | | | | |
| K16 | | | | | | |
| K18 | | | | | | |
| K20 | | | | | | |
| K21 | | | | | | |
| K23 | | | | | | |
| K25 | | | | | | |
| L01 | | | | | | |
| L03 | | | | | | |
| L05 | | | | | | |
| L18 | | | | | | |
| L20 | | | | | | |
| L21 | | | | | | |
| L22 | | | | | | |
| L23 | | | | | | |
| L24 | | | | | | |
| M02 | | | | | | |
| M03 | | | | | | |
| M05 | | | | | | |
| M20 | | | | | | |
| M21 | | | | | | |
| M22 | | | | | | |
| N01 | | | | | | |
| N02 | | | | | | |
| N20 | | | | | | |
| N21 | | | | | | |
| N22 | | | | | | |
| P01 | | | | | | |
| P20 | | | | | | |
| P21 | | | | | | |
| P22 | | | | | | |
| Q20 | | | | | | |

7. Cable Installation Status

The installation of cables is shown in the below tables.

7.1 Inter - Array Cable Status

Black: Designed Red: Laid Green: Cable Fully Buried Blue: Accepted

**E03-D03 F03-E02 J01-H01 N01-P01 G02-G01 Z13-J03 H05-J05 J03-K02 K05-L05 L03-M03 L05-M05
K03-L03 E05-D05 G03-G02 Z13-G05 C03-B02 D01-C01 B02-A03 C01-B01 D05-C05 B10-A11
A12-A13 E10-C10 B07-A07 A08-A09 D07-B10 Z13-C07 Z13-E03 Z13-E05 Z13-D07 Z13-F03 L03-M02
E10-F10 B28-A29 Z13-E07 A11-A12 A09-A10 C07-A08 Z13-B07 A07-A06 A06-A05 A05-A04 C05-B05
E02-D01 Z13-G03 G01-F01 F01-E01 H03-J01 J01-K01 K01-L01 Z13-H03 K02-N01 P01-N02 G05-K03
J05-K05 Z13-H05 D03-C03 E07-F07 E07-E10 B30-A31 D27-B28 A28-A27 A27-A26 A26-A25 D25-C25
E25-D25 F25-E25 F23-E23 E23-C23 H21-J21 B27-A28 A31-A32 D28-C30 C30-B30 C23-B24 G24-G23
A29-A30 E24-F23 G23-G22 C25-B25 G22-H21 Z12-H16 H16-J16 H16-K13 J16-K16 Z12-G16 G16-J13
J10-K07 J10-K10 J13-J10 Z12-H13 H07-G07 H10-J07 H13-H10 J07-H07 Z12-F16 F16-G13 G13-F13
G13-G10 Z12-E16 B13-A14 C13-B13 E13-C13 E16-E13 Z12-C16 A16-A15 B16-A16 B16-A17 C16-B16
Z12-E18 A18-A19 B18-A18 C18-B18 E18-C18 Z12-B20 A21-A22 A22-A23 B20-A20 B20-A21 Z12-C20
B21-B22 B22-B23 B23-A24 C20-B21 Z12-E20 C21-E21 E20-C21 E20-F20 E21-E22 Z12-G20 G20-H20
H20-J20 F21-G21 G20-F21 Z12-F18 H18-J18 J18-K18 K18-L18 F18-H18 F27-F28 F28-H27 G25-F27
H27-K25 Z11-G25 H25-J25 J24-H25 J25-L24 L24-L23 Z11-J24 K23-L22 L22-M22 M22-N22 N22-P22
Z11-K23 J23-L21 L21-M21 M21-N21 Z11-J23 K21-N20 N20-P20 P20-Q20 Q20-P21 Z11-K21 H23-J22
J22-K20 K20-L20 L20-M20 Z11-H23 Z11-B27 Z11-D27 Z11-D28 Z11-E24 Z11-F25 Z11-G24**

7.2 Export Cable Status

Black: Designed Red: Laid Green: Cable Fully Buried Blue: Accepted

**Western (Landfall – KP32) – (KP32 – RCS) - (RCS - KP100) – (KP100 - Z11)
Central (Landfall – KP32) – (KP32 – RCS) - (RCS - KP100) – (KP100 - Z12)
Eastern (Landfall – KP32) – (KP32 – RCS) - (RCS - KP100) – (KP100 – KP115) – (KP115 - Z13)**

7.3 OSS Interlink Cable Status

Black: Designed Red: Laid Green: Cable Fully Buried Blue: Accepted

Z11 – Z12

Z12 – Z13

8. Notice to Mariners updates

Below is a list of the current Notice to Mariners;

| Date | Subject | Updates |
|------------|---|---|
| 15/09/2017 | Export Cable Trenching Works – Tideway Offshore (Lange Wapper) | Vessels work for next 7 days per below map. |
| 07/09/2017 | Export Cable Boulder Clearance Works | Vessels work for next 7 days per below map. |
| 20/10/2017 | Hornsea One UXO Detonation, Update 8. | UXO detonation delayed due to weather |
| 03/11/2017 | Met mast Works | None |
| 17/11/2017 | offshore boulder clearance works in the offshore wind farm area | |
| 17/11/2017 | offshore installation works in the offshore Wind Farm area with the installation of scour protection and foundations. | |
| 04/12/2017 | Deployment of Acoustic Waves and Current (AWAC) Profiler | |
| 04/12/2017 | Deployment of Noise Monitoring Equipment | Revision C- updated coordinates |
| 26/01/2018 | Export Cable and Interconnector Boulder Clearance | Update 4 issued 27/02/18 |
| 13/02/2018 | Export Cable Rock Placement | |
| 24/02/2018 | TP Installation – Sea Installer | |
| 01/03/2018 | Export Cable Soundwave Clearance | |
| 02/03/2018 | Pre- lay Works for Crossing Third Party Cables/Pipelines | |
| 13/03/2018 | Export Cable and Interlink Cable Laying Works | |
| 23/03/2018 | Commencement of Jack Up Accommodation platform operations | |
| 27/03/2018 | Intertidal and Nearshore Export Cable Works | |
| 06/04/2018 | Offshore Substation Installation | |
| 03/05/2018 | Transition Piece bolt tightening vessel – Eurus Express | |
| 17/05/2018 | Status of Confirmed Unexploded Ordnance | |
| 29/05/2018 | Array Cables Installation | |
| 05/06/2018 | Array Cables Boulder Clearance | |
| 12/06/2018 | OSS installation update | |
| 14/06/2018 | UXO detonation - Update | |
| 29/06/2018 | UXO Detonation - Complete | |
| 27/07/2018 | Offshore Substation Topside Installation – Z11 & Z13 | |
| 27/07/2018 | Monopile and Transition Piece Installation Update - Innovation return to field | |
| 23/08/2018 | HOW01 NtM – Export Cable and Interlink Cable Installation Update (Vessel: Living Stone) | |
| 31/08/2018 | Transition piece installation - update | |
| 31/08/2018 | Intertidal and Nearshore Export Cable Works | |
| 19/09/2018 | Diving Met Mast Removal Preparation Campaign | |

| | | |
|------------|---|--|
| 31/10/2018 | Post lay rock placement r1 | |
| 09/11/2018 | Notus Express TP bolt tightening vessel | |
| 13/11/2018 | UXO Detonation | |

9. Safety Zones

The Secretary of State for the United Kingdom has declared safety zones under the following terms:

During Construction

1. 500 metres radius around each installation of wind turbine, collector substations and/or their substructures and foundations comprising the Hornsea One Offshore Wind Farm whilst work is being performed as indicated by the presence of construction vessels including jack ups.
2. 50 metres radius around each wind turbine, collector substations and/or their substructures and foundations installed but waiting to be commissioned as part of the Hornsea One Offshore Wind Farm. All fixed structures, including partially constructed structures such as turbine foundations, will be mounted and marked with a Flashing Yellow 2.5s light visible through 360 degrees with a 2nm range.

The table below indicates the Safety Zones that are active.

| Asset | Size | Duration |
|---------------|------|--|
| Z13 | 500m | During the presence of the GMS Endeavour |
| Z01 | 500m | During the presence of the GMS Evolution |
| All locations | 500m | During the presence of the Wind Innovation |
| All locations | 500m | During the presence of the Innovation |
| All locations | 500m | During the presence of the Sea Installer |
| All locations | 500m | During the presence of the Edda Mistral |
| All locations | 500m | During the presence of the Seaway Aimery |
| All locations | 500m | During the presence of the Seaway Moxie |
| All locations | 500m | During the presence of the Connector |
| All locations | 500m | During the presence of the Living Stone |

10. WTG & Substation Positions

Below are the positions of locations referred to throughout this document.

| WTG ID | WGS84 | |
|--------|-------------------|------------------|
| | Latitude | Longitude |
| A03 | 53° 49' 36.362" N | 2° 11' 58.401" E |
| A04 | 53° 49' 21.635" N | 2° 10' 32.853" E |
| A05 | 53° 49' 25.952" N | 2° 09' 25.058" E |
| A06 | 53° 49' 33.690" N | 2° 08' 34.653" E |
| A07 | 53° 49' 32.464" N | 2° 07' 42.469" E |
| A08 | 53° 49' 44.789" N | 2° 06' 03.244" E |
| A09 | 53° 49' 41.917" N | 2° 05' 12.846" E |
| A10 | 53° 49' 45.144" N | 2° 04' 21.583" E |
| A11 | 53° 49' 48.364" N | 2° 03' 30.317" E |
| A12 | 53° 49' 51.969" N | 2° 02' 32.812" E |
| A13 | 53° 49' 55.157" N | 2° 01' 41.865" E |
| A14 | 53° 50' 01.402" N | 2° 00' 51.654" E |
| A15 | 53° 50' 01.857" N | 1° 59' 49.102" E |
| A16 | 53° 50' 02.288" N | 1° 58' 42.072" E |
| A17 | 53° 50' 02.970" N | 1° 56' 57.238" E |
| A18 | 53° 50' 03.298" N | 1° 56' 03.042" E |
| A19 | 53° 50' 05.340" N | 1° 54' 34.121" E |
| A20 | 53° 50' 04.153" N | 1° 53' 39.481" E |
| A21 | 53° 50' 04.804" N | 1° 52' 25.513" E |
| A22 | 53° 50' 05.059" N | 1° 50' 57.533" E |
| A23 | 53° 50' 11.478" N | 1° 49' 42.519" E |
| A24 | 53° 50' 10.027" N | 1° 48' 16.430" E |
| A25 | 53° 50' 06.274" N | 1° 47' 01.273" E |
| A26 | 53° 50' 06.589" N | 1° 45' 55.315" E |
| A27 | 53° 50' 06.928" N | 1° 44' 42.213" E |
| A28 | 53° 50' 07.271" N | 1° 43' 25.130" E |
| A29 | 53° 50' 07.587" N | 1° 42' 11.275" E |
| A30 | 53° 50' 14.642" N | 1° 40' 49.816" E |
| A31 | 53° 50' 08.135" N | 1° 39' 55.428" E |
| A32 | 53° 50' 08.329" N | 1° 39' 04.642" E |
| B01 | 53° 50' 09.901" N | 2° 13' 47.045" E |
| B02 | 53° 50' 17.294" N | 2° 12' 13.611" E |
| B05 | 53° 50' 13.568" N | 2° 08' 48.444" E |
| B07 | 53° 50' 13.231" N | 2° 06' 19.895" E |
| B10 | 53° 50' 26.838" N | 2° 03' 35.969" E |
| B13 | 53° 50' 33.950" N | 2° 00' 59.064" E |
| B16 | 53° 50' 42.731" N | 1° 58' 20.716" E |
| B18 | 53° 50' 49.438" N | 1° 55' 43.634" E |
| B20 | 53° 50' 46.022" N | 1° 53' 18.081" E |
| B21 | 53° 50' 46.266" N | 1° 51' 15.197" E |
| B22 | 53° 50' 50.737" N | 1° 50' 07.208" E |
| B23 | 53° 50' 49.291" N | 1° 48' 27.938" E |
| B24 | 53° 50' 47.725" N | 1° 47' 09.129" E |
| B25 | 53° 50' 42.299" N | 1° 45' 54.571" E |
| B27 | 53° 51' 03.865" N | 1° 43' 42.917" E |
| B28 | 53° 50' 58.198" N | 1° 41' 57.356" E |
| B30 | 53° 50' 58.492" N | 1° 40' 12.842" E |
| C01 | 53° 50' 42.749" N | 2° 13' 11.280" E |
| C03 | 53° 50' 44.945" N | 2° 10' 30.295" E |

| WTG ID | WGS84 | |
|--------|-------------------|------------------|
| | Latitude | Longitude |
| C05 | 53° 50' 50.038" N | 2° 08' 08.696" E |
| C07 | 53° 50' 49.261" N | 2° 05' 41.602" E |
| C10 | 53° 51' 09.122" N | 2° 02' 49.679" E |
| C13 | 53° 51' 13.312" N | 2° 00' 15.913" E |
| C16 | 53° 51' 23.712" N | 1° 57' 35.260" E |
| C18 | 53° 51' 28.777" N | 1° 55' 00.387" E |
| C20 | 53° 51' 28.596" N | 1° 52' 31.220" E |
| C21 | 53° 51' 29.321" N | 1° 50' 27.756" E |
| C23 | 53° 51' 30.170" N | 1° 47' 42.830" E |
| C25 | 53° 51' 16.144" N | 1° 45' 17.179" E |
| C30 | 53° 51' 44.759" N | 1° 39' 21.566" E |
| D01 | 53° 51' 19.036" N | 2° 12' 31.748" E |
| D03 | 53° 51' 27.125" N | 2° 09' 57.215" E |
| D05 | 53° 51' 33.204" N | 2° 07' 21.543" E |
| D07 | 53° 51' 26.092" N | 2° 05' 00.231" E |
| D25 | 53° 51' 49.986" N | 1° 44' 39.770" E |
| D27 | 53° 52' 05.499" N | 1° 42' 34.723" E |
| D28 | 53° 51' 59.883" N | 1° 40' 49.047" E |
| E01 | 53° 51' 53.062" N | 2° 11' 54.701" E |
| E02 | 53° 51' 53.838" N | 2° 10' 28.350" E |
| E03 | 53° 52' 05.000" N | 2° 09' 15.872" E |
| E05 | 53° 52' 09.257" N | 2° 06' 42.135" E |
| E07 | 53° 52' 03.296" N | 2° 04' 19.517" E |
| E10 | 53° 51' 51.400" N | 2° 02' 03.364" E |
| E13 | 53° 51' 52.670" N | 1° 59' 32.740" E |
| E16 | 53° 52' 04.770" N | 1° 56' 50.156" E |
| E18 | 53° 52' 10.657" N | 1° 54' 14.317" E |
| E20 | 53° 52' 11.164" N | 1° 51' 44.332" E |
| E21 | 53° 52' 10.815" N | 1° 49' 42.004" E |
| E22 | 53° 52' 17.258" N | 1° 48' 31.781" E |
| E23 | 53° 52' 11.044" N | 1° 46' 57.697" E |
| E24 | 53° 52' 19.198" N | 1° 45' 28.085" E |
| E25 | 53° 52' 23.825" N | 1° 44' 02.344" E |
| F01 | 53° 52' 48.086" N | 2° 10' 54.639" E |
| F03 | 53° 52' 43.967" N | 2° 08' 33.310" E |
| F07 | 53° 52' 42.594" N | 2° 03' 36.484" E |
| F10 | 53° 52' 33.673" N | 2° 01' 17.023" E |
| F13 | 53° 52' 32.023" N | 1° 58' 49.544" E |
| F16 | 53° 52' 45.823" N | 1° 56' 05.028" E |
| F18 | 53° 53' 09.705" N | 1° 53' 09.308" E |
| F20 | 53° 52' 53.727" N | 1° 50' 57.418" E |
| F21 | 53° 52' 57.834" N | 1° 48' 50.122" E |
| F23 | 53° 52' 51.913" N | 1° 46' 12.540" E |
| F25 | 53° 52' 57.661" N | 1° 43' 24.901" E |
| F27 | 53° 53' 10.480" N | 1° 41' 22.750" E |
| F28 | 53° 53' 06.724" N | 1° 39' 35.969" E |
| G01 | 53° 53' 18.707" N | 2° 10' 21.214" E |
| G02 | 53° 53' 29.078" N | 2° 08' 44.887" E |
| G03 | 53° 53' 22.930" N | 2° 07' 50.725" E |

| WTG ID | WGS84 | |
|--------|-------------------|------------------|
| | Latitude | Longitude |
| G05 | 53° 53' 08.418" N | 2° 05' 37.418" E |
| G07 | 53° 53' 17.692" N | 2° 02' 58.029" E |
| G10 | 53° 53' 15.940" N | 2° 00' 30.655" E |
| G13 | 53° 53' 11.371" N | 1° 58' 06.326" E |
| G16 | 53° 53' 26.870" N | 1° 55' 19.875" E |
| G20 | 53° 53' 36.285" N | 1° 50' 10.477" E |
| G21 | 53° 53' 32.086" N | 1° 48' 12.302" E |
| G22 | 53° 53' 37.322" N | 1° 47' 03.356" E |
| G23 | 53° 53' 32.777" N | 1° 45' 27.359" E |
| G24 | 53° 53' 43.034" N | 1° 43' 56.495" E |
| G25 | 53° 53' 56.193" N | 1° 42' 20.081" E |
| H01 | 53° 53' 58.413" N | 2° 09' 37.848" E |
| H03 | 53° 54' 01.889" N | 2° 07' 08.119" E |
| H05 | 53° 53' 49.595" N | 2° 04' 52.339" E |
| H07 | 53° 53' 58.250" N | 2° 02' 13.562" E |
| H10 | 53° 53' 58.203" N | 1° 59' 44.261" E |
| H13 | 53° 53' 50.715" N | 1° 57' 23.085" E |
| H16 | 53° 54' 07.913" N | 1° 54' 34.697" E |
| H18 | 53° 53' 54.332" N | 1° 52' 18.349" E |
| H20 | 53° 54' 32.240" N | 1° 49' 08.214" E |
| H21 | 53° 54' 15.717" N | 1° 47' 23.896" E |
| H23 | 53° 54' 13.636" N | 1° 44' 42.152" E |
| H25 | 53° 54' 27.208" N | 1° 41' 45.708" E |
| H27 | 53° 54' 33.076" N | 1° 39' 51.158" E |
| J01 | 53° 54' 38.756" N | 2° 08' 53.756" E |
| J03 | 53° 54' 40.844" N | 2° 06' 25.490" E |
| J05 | 53° 54' 25.489" N | 2° 04' 13.018" E |
| J07 | 53° 54' 32.071" N | 2° 01' 36.460" E |
| J10 | 53° 54' 40.460" N | 1° 58' 57.842" E |
| J13 | 53° 54' 30.055" N | 1° 56' 39.821" E |
| J16 | 53° 54' 48.951" N | 1° 53' 49.494" E |
| J18 | 53° 54' 36.702" N | 1° 51' 33.414" E |
| J20 | 53° 55' 07.841" N | 1° 48' 29.133" E |
| J21 | 53° 54' 57.164" N | 1° 46' 38.273" E |
| J22 | 53° 55' 01.037" N | 1° 45' 30.774" E |
| J23 | 53° 54' 54.490" N | 1° 43' 56.922" E |
| J24 | 53° 54' 59.363" N | 1° 42' 32.793" E |
| J25 | 53° 54' 58.220" N | 1° 41' 11.321" E |
| K01 | 53° 55' 20.531" N | 2° 08' 08.070" E |
| K02 | 53° 55' 09.158" N | 2° 06' 54.890" E |
| K03 | 53° 55' 19.794" N | 2° 05' 42.840" E |

| WTG ID | WGS84 | |
|---------------|-------------------|------------------|
| | Latitude | Longitude |
| K05 | 53° 55' 07.572" N | 2° 03' 26.888" E |
| K07 | 53° 55' 08.764" N | 2° 00' 56.185" E |
| K10 | 53° 55' 22.065" N | 1° 58' 12.108" E |
| K13 | 53° 55' 08.466" N | 1° 55' 57.552" E |
| K16 | 53° 55' 29.495" N | 1° 53' 04.806" E |
| K18 | 53° 55' 17.753" N | 1° 50' 48.118" E |
| K20 | 53° 55' 47.974" N | 1° 47' 39.416" E |
| K21 | 53° 55' 39.082" N | 1° 45' 51.896" E |
| K23 | 53° 55' 35.340" N | 1° 43' 11.666" E |
| K25 | 53° 55' 34.661" N | 1° 40' 30.893" E |
| L01 | 53° 56' 03.134" N | 2° 07' 21.448" E |
| L03 | 53° 55' 58.740" N | 2° 05' 00.167" E |
| L05 | 53° 55' 47.400" N | 2° 02' 43.201" E |
| L18 | 53° 56' 02.272" N | 1° 49' 58.961" E |
| L20 | 53° 56' 26.853" N | 1° 46' 56.064" E |
| L21 | 53° 56' 21.088" N | 1° 45' 05.390" E |
| L22 | 53° 56' 31.415" N | 1° 43' 50.684" E |
| L23 | 53° 56' 14.047" N | 1° 42' 28.756" E |
| L24 | 53° 56' 03.076" N | 1° 41' 20.144" E |
| M02 | 53° 56' 28.418" N | 2° 05' 28.078" E |
| M03 | 53° 56' 37.189" N | 2° 04' 18.012" E |
| M05 | 53° 56' 19.915" N | 2° 02' 07.514" E |
| M20 | 53° 57' 02.945" N | 1° 46' 15.897" E |
| M21 | 53° 57' 01.186" N | 1° 44' 20.968" E |
| M22 | 53° 57' 11.249" N | 1° 43' 06.483" E |
| N01 | 53° 56' 48.110" N | 2° 06' 32.147" E |
| N02 | 53° 57' 07.493" N | 2° 04' 45.238" E |
| N20 | 53° 57' 37.337" N | 1° 45' 37.518" E |
| N21 | 53° 57' 42.938" N | 1° 43' 34.681" E |
| N22 | 53° 57' 43.069" N | 1° 42' 31.534" E |
| P01 | 53° 57' 16.754" N | 2° 06' 00.804" E |
| P20 | 53° 58' 09.550" N | 1° 45' 01.601" E |
| P21 | 53° 58' 24.599" N | 1° 42' 55.249" E |
| P22 | 53° 58' 15.790" N | 1° 41' 55.576" E |
| Q20 | 53° 58' 38.484" N | 1° 44' 29.435" E |
| Substation ID | Latitude | Longitude |
| HA-Z01 | 53° 37,655' N | 0° 56,163' E |
| HA-Z11 | 53° 53' 26.979" N | 1° 42' 51.851" E |
| HA-Z12 | 53° 52' 40.210" N | 1° 53' 42.938" E |
| HA-Z13 | 53° 52' 38.856" N | 2° 6' 9.807" E |