

REPORT



Hornsea Project One Offshore Windfarm

Weekly Notice of Operations

For Week Commencing	25 nd September 2017
Notice Number	2
Issue Date:	29 th September 2017

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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1.1 DONG Energy 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@dongenergy.co.uk

1.2 The UK main ports supporting current operations

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

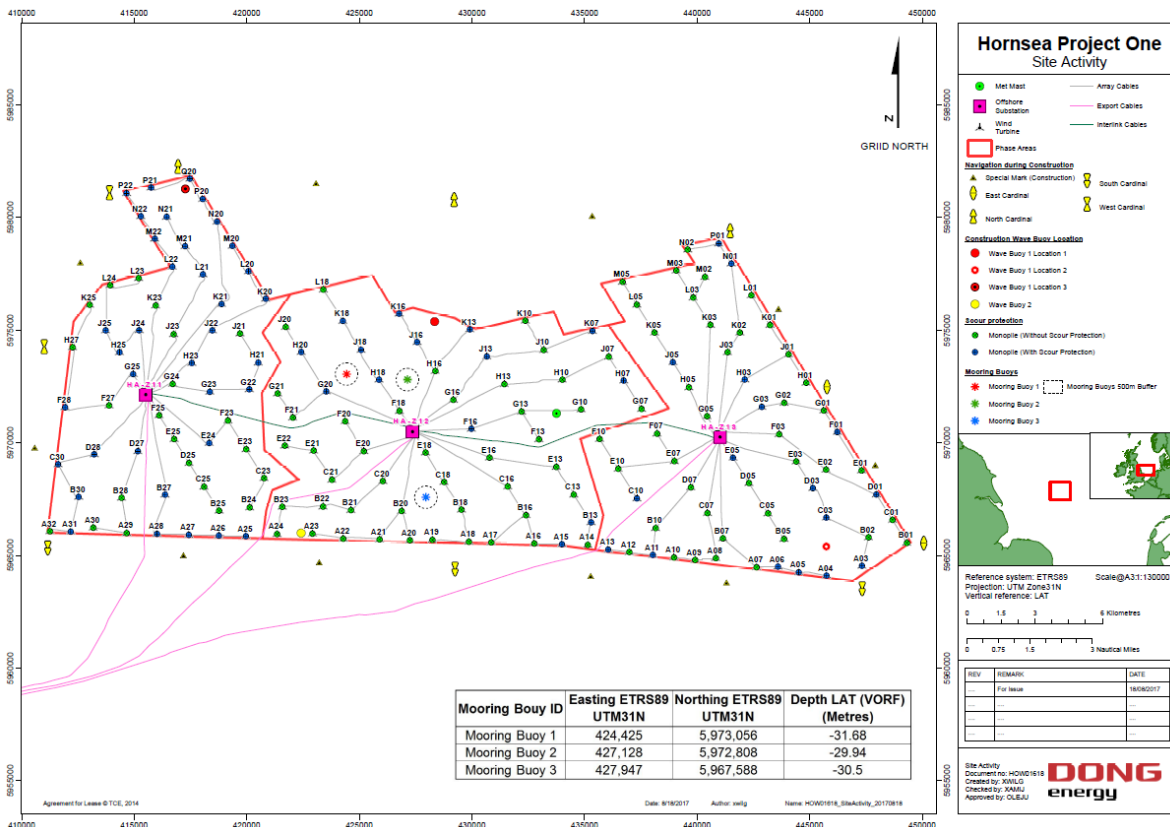
1.3 Safety Information

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

1.4 Site Boundary and Navigation Aids

The offshore site boundary for HOW01 is shown as below, and will be marked by standard IALA navigation marks. Deployed are highlighted yellow in the tables below.



Buoy	Latitude	Longitude	Details
North Cardinal	53° 58.928'N	001° 44.004'E	Pillar, V Q light character
Special Mark	53° 58.586'N	001° 49.624'E	Pillar, yellow 'X' topmark, FI Y 5s light character
North Cardinal	53° 58.244'N	001° 55.244'E	Pillar, Q light character
Special Mark	53° 57.903'N	002° 00.863'E	Pillar, yellow 'X' topmark, FI Y 5s light character
North Cardinal	53° 57.590'N	002° 06.473'E	Pillar, V Q light character
Special Mark	53° 55.734'N	002° 08.474'E	Pillar, yellow 'X' topmark, FI Y 5s light character
East Cardinal	53° 53.878'N	002° 10.474'E	Pillar, Q (3) 10s light character
Special Mark	53° 52.021'N	002° 12.473'E	Pillar, yellow 'X' topmark, FI Y 5s light character
East Cardinal	53° 50.165'N	002° 14.470'E	Pillar, V Q (3) 5s light character
South Cardinal	53° 49.056'N	002° 12.000'E	Pillar, V Q (6) + L FI 10s light character
Special Mark	53° 49.170'N	002° 06.502'E	Pillar, yellow 'X' topmark, FI Y 5s light character
Special Mark	53° 49.283'N	002° 01.003'E	Pillar, yellow 'X' topmark, FI Y 5s light character
South Cardinal	53° 49.396'N	001° 55.504'E	Pillar, Q (6) + L FI 15s light character
Special Mark	53° 49.510'N	001° 50.006'E	Pillar, yellow 'X' topmark, FI Y 5s light character
Special Mark	53° 49.623'N	001° 44.506'E	Pillar, yellow 'X' topmark, FI Y 5s light character
South Cardinal	53° 49.736'N	001° 39.007'E	Pillar, V Q (6) + L FI 10s light character

Buoy	Latitude	Longitude	Details
Special Mark	53° 52.133'N	001° 38.400'E	Pillar, yellow 'X' topmark, Fl Y 5s light character
West Cardinal	53° 54.551'N	001° 38.708'E	Pillar, Q (9) 15s light character
Special Mark	53° 56.589'N	001° 40.109'E	Pillar, yellow 'X' topmark, Fl Y 5s light character
West Cardinal	53° 58.263'N	001° 41.238'E	V Q (9) 10s light character

1.5 RCS Site

Buoy	Latitude	Longitude	Details
South Cardinal	53°37.385'N	000°56.164E	VQ (6) +LFl 10s (White) Racon: Tango
East Cardinal	53°37.586'N	000°56.619'E	VQ (3) 5s (White)
North Cardinal	53°37.925'N	000°56.164'E	VQ (White)
West Cardinal	53°37.754'N	000°55.689'E	VQ (9) 10s (White)

1.6 Mooring buoys

Buoy	Latitude	Longitude	Details
HOW01 MRG 1	53°53.910'N	01°50.907'E	Special Mark
HOW01 MRG 2	53°53.8'N	01°53.378'E	Special Mark
HOW01 MRG 3	53°50.992'N	01°54.199'E	Special Mark

1.7 Wave Buoys

Buoy	Latitude	Longitude	Details
Wave 1	53° 55.316' N	001° 54.519' E	FUGRO wave buoy CHARACTERISTICS: SPECIAL MARK YELLOW BOUY, Q (5) 20s – (YELLOW) TOPMARK; YELLOW CROSS
Wave 2	53° 50.203' N	001° 49.253' E	FUGRO wave buoy CHARACTERISTICS: SPECIAL MARK YELLOW BOUY, Q (5) 20s – (YELLOW) TOPMARK; YELLOW CROSS

1.8 HOW01 Vessel Update

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

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

1.8.1 Guard Vessels

None

1.8.2 Other Vessels

Vessel	Start/Arrive	Package	VCC issued	VCC Number
Siem Ruby	07-09-2017	Cables	09-09-2017	HOW01-VCC-001
Galatea	15-09-2017	CON	15-09-2017	HOW01-VCC-002
Ginny Louise	18-09-2017	Measurements	19-09-2017	HOW01-VCC-003
Lange Wapper	24-09-2017	Cables	24-09-2017	HOW01-VCC-004
Foryd Bay	26-09-2017	Cables	25-09-2017	HOW01-VCC-005
Noordhoek Pathfinder	Week 40	Cables	26-09-2017	HOW01-VCC-006

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

 - Complete

WTG ID	Foundation			Turbine			WTG ID	Foundation			Turbine		
	Scour	MP	TP	Tower	Nacelle	Blades		Scour	MP	TP	Tower	Nacelle	Blades
A03							C03						
A04							C05						
A05							C07						
A06							C10						
A07							C13						
A08							C16						
A09							C18						
A10							C20						
A11							C21						
A12							C23						
A13							C25						
A14							C30						
A15							D01						
A16							D03						
A17							D05						
A18							D07						
A19							D25						
A20							D27						
A21							D28						
A22							E01						
A23							E02						
A24							E03						
A25							E05						
A26							E07						
A27							E10						
A28							E13						
A29							E16						
A30							E18						
A31							E20						
A32							E21						
B01							E22						
B02							E23						
B05							E24						
B07							E25						
B10							F01						
B13							F03						
B16							F07						
B18							F10						
B20							F13						
B21							F16						
B22							F18						
B23							F20						
B24							F21						
B25							F23						
B27							F25						
B28							F27						
B30							F28						
C01							G01						

WTG ID	Foundation			Turbine			WTG ID	Foundation			Turbine		
	Scour	MP	TP	Tower	Nacelle	Blades		Scour	MP	TP	Tower	Nacelle	Blades
G02							J25						
G03							K01						
G05							K02						
G07							K03						
G10							K05						
G13							K07						
G16							K10						
G20							K13						
G21							K16						
G22							K18						
G23							K20						
G24							K21						
G25							K23						
H01							K25						
H03							L01						
H05							L03						
H07							L05						
H10							L18						
H13							L20						
H16							L21						
H18							L22						
H20							L23						
H21							L24						
H23							M02						
H25							M03						
H27							M05						
J01							M20						
J03							M21						
J05							M22						
J07							N01						
J10							N02						
J13							N20						
J16							N21						
J18							N22						
J20							P01						
J21							P20						
J22							P21						
J23							P22						
J24							Q20						

1.10 Cable Progress

1.11 Inter - Array Cable Status

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

To be added at a later date

1.12 Export Cable Status

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

Landfall – RCS – Z11

Landfall – RCS – Z12

Landfall – RCS – Z13

1.13 OSS Interlink Cable Status

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

Z11 – Z12

Z12 – Z13

1.14 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)	Lange Wapper commenced work on export cable route 24-09-2017.
07/09/2017	Export Cable Boulder Clearance Works	Foryd Bay have commenced survey work on export cable route 26-09-2017. Noordhoek Pathfinder will commence boulder clearance expected mobilisation 02-10-2017.