



Notice to Mariners – Hornsea Project Two

Notice of Findings of Unexploded Ordnance and Commencement of Explosive Ordnance Detonation – Issued 23/08/2019

1. INTRODUCTION

Hornsea Project Two is carrying out unexploded ordnance (UXO) investigations for the proposed Hornsea Project Two Offshore Wind Farm located within the UK Sector of the North Sea, off the coast of East Yorkshire. Mariners are advised that Hornsea Project Two confirms the presence of 23 confirmed unexploded ordnance (UXO) within the export cable corridor as shown in Figure 1.

All vessels are requested to maintain the required safe distances as defined from the coordinates set out in Table 1 around the locations shown in Figure 1 below. During EOD a 1,000 m exclusion radius is recommended for the safety of Mariners.

Mariners are advised that Explosive Ordnance Detonation (EOD) will commence on or after 27th August 2019 using the Voe Vanguard and Kamara at the locations shown in Table 1 below. The EOD works will be supported by the Guard Vessel Faxaborg.

Table 1: Coordinates of Identified UXO

UXO ID	Exclusion Zone Radius before EOD	Exclusion Zone Radius During EOD	Longitude (WGS84)	Latitude (WGS84)
1	200m	1000m	1° 38' 6.593" E	53° 55' 29.438" N
2	200m	1000m	1° 36' 41.141" E	53° 54' 14.925" N
3	200m	1000m	1° 38' 6.265" E	53° 55' 26.862" N
4	200m	1000m	1° 30' 49.621" E	53° 48' 2.912" N
5	300m	1000m	1° 33' 57.814" E	53° 52' 30.210" N
6	200m	1000m	1° 25' 16.656" E	53° 46' 37.565" N
7	200m	1000m	1° 20' 43.098" E	53° 44' 10.243" N
8	200m	1000m	1° 23' 46.540" E	53° 45' 20.441" N
9	200m	1000m	1° 25' 23.878" E	53° 46' 16.509" N
10	50m	1000m	0° 19' 7.142" E	53° 29' 25.914" N
11	200m	1000m	0° 59' 27.301" E	53° 38' 23.072" N
12	300m	1000m	0° 54' 7.184" E	53° 37' 58.815" N
13	200m	1000m	0° 59' 28.357" E	53° 38' 23.211" N
14	200m	1000m	0° 14' 52.409" E	53° 31' 10.473" N

UXO ID	Exclusion Zone Radius before EOD	Exclusion Zone Radius During EOD	Longitude (WGS84)	Latitude (WGS84)
15	200m	1000m	0° 26' 8.044" E	53° 29' 51.651" N
16	200m	1000m	0° 10' 15.562" E	53° 31' 56.776" N
17	50m	1000m	0° 10' 22.457" E	53° 32' 0.756" N
18	100m	1000m	0° 9' 55.717" E	53° 31' 55.194" N
19	10m	1000m	0° 5' 47.991" E	53° 31' 17.194" N
20	100m	1000m	0° 8' 23.451" E	53° 31' 42.509" N
21	100m	1000m	0° 10' 56.232" E	53° 32' 3.307" N
22	300m	1000m	0° 15' 0.023" E	53° 31' 9.969" N
23	300m	1000m	0° 54' 7.599" E	53° 37' 56.169" N

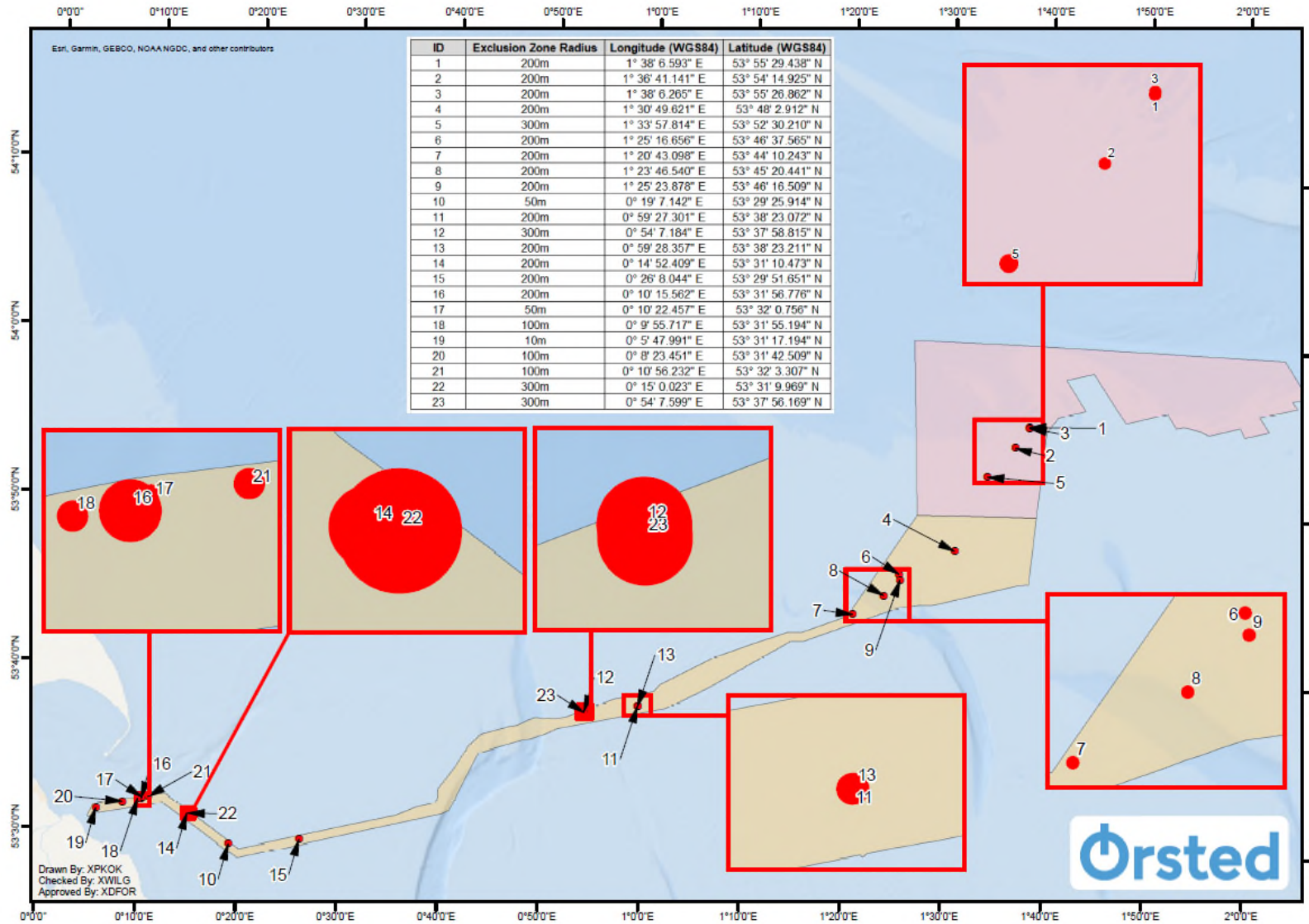
In addition to the Inspection and EOD works, Hornsea Project Two will be deploying underwater noise monitoring equipment alongside the EOD campaign. It is currently expected that these works will commence on or after 29th August 2019 using the Forth Joust. Up to six devices will be placed on the seabed prior to the detonation of certain cUXO as shown in Table 2. The devices will be recovered following detonation and redeployed for the next detonation. The locations will depend on the order of EOD. The devices will be marked with a yellow surface buoy.

Table 2. Proposed Locations of Temporary Monitoring Devices

Device ID	UXO ID	Longitude (WGS84)	Latitude (WGS84)
1	12	0° 54' 17.723" E	53° 38' 10.138" N
2	12	0° 54' 22.093" E	53° 38' 23.132" N
3	12	0° 54' 35.271" E	53° 38' 47.811" N
4	12	0° 56' 30.429" E	53° 38' 57.732" N
5	12	0° 55' 57.788" E	53° 41' 15.158" N
6	12	0° 55' 9.304" E	53° 44' 51.258" N
7	11 & 13	0° 59' 14.384" E	53° 38' 33.136" N
8	11 & 13	0° 59' 1.705" E	53° 38' 44.012" N
9	11 & 13	0° 58' 34.274" E	53° 39' 4.139" N
10	11 & 13	0° 56' 43.191" E	53° 38' 57.832" N
11	11 & 13	0° 56' 17.293" E	53° 41' 16.661" N
12	11 & 13	0° 55' 36.632" E	53° 44' 53.879" N
13	9	1° 25' 8.338" E	53° 46' 25.601" N
14	9	1° 24' 41.315" E	53° 46' 22.346" N
15	9	1° 23' 56.502" E	53° 46' 16.950" N
16	9	1° 22' 29.941" E	53° 46' 6.505" N
17	9	1° 19' 38.276" E	53° 45' 45.719" N
18	9	1° 13' 55.756" E	53° 45' 4.124" N
19	2	1° 36' 21.447" E	53° 54' 9.248" N
20	2	1° 35' 59.869" E	53° 54' 6.213" N
21	2	1° 35' 18.134" E	53° 53' 58.287" N
22	2	1° 33' 53.468" E	53° 53' 44.707" N

Device ID	UXO ID	Longitude (WGS84)	Latitude (WGS84)
23	2	1° 31' 17.166" E	53° 55' 34.258" N
24	2	1° 43' 38.843" E	53° 59' 47.785" N
25	1&3	1° 37' 44.678" E	53° 55' 29.122" N
26	1&3	1° 37' 22.758" E	53° 55' 30.094" N
27	1&3	1° 36' 38.998" E	53° 55' 32.027" N
28	1&3	1° 35' 11.067" E	53° 55' 30.326" N
29	1&3	1° 32' 16.569" E	53° 55' 43.491" N
30	1&3	1° 45' 47.963" E	54° 0' 41.694" N

Figure 1. Identified UXO Locations



2. SAFETY

The contents of this Notice are based on our current understanding of Hornsea Project Two requirements. Further notices shall be issued with further updates as the inspection campaign progresses.

Vessels are required to maintain a minimum 1,000m exclusion zone radius during the EOD works.

During the works, a listening watch will be maintained on VHF Channel 12 and 16 when within the appropriate port authority area and will actively transmit an AIS signal. The survey vessels will also broadcast at regular daily intervals the vessel position, operational information and intentions.

3. IMMEDIATE CONTACTS

Enquiries regarding the contents of this Notice to Mariners or any other matters should be directed to:

Project Manager (Ørsted) (Office hours only)	Mira Rosten	
	Mob: +44 (0)7824 545178	E-mail: mirro@orsted.co.uk

4. VESSELS

The UXO inspections and EOD are being conducted by the Voe Vanguard and the Kamara and supported by a Guard Vessel; Faxaborg. Contact can be made directly with the vessels, where necessary, using the contact details listed below. Client and contractor contact details are provided in Section 3 and 5 of this NtM.

Vessel Contact Details – Voe Vanguard	
Vessel telephone	M: +44 7766 798 481 S: +881 631 448 600 T: +44 1595 922 073
Vessel email	voevanguard@deltamarine.scot

Vessel Contact Details – Kamara	
Vessel telephone	Bridge: +47 23678262 Mobile: +44 7773541492
Vessel email	Kamara-survey@boskalis.com

Vessel Contact Details – Faxaborg (Guard Vessel)	
Vessel telephone	S: 00870 773992758 T: +31 2557 87001
Vessel email	faxaborg@dbconnect.nl

Vessel Contact Details – Forth Jouster	
Vessel telephone	T: +447969 515016
Vessel email	mvjouster@briggsmarine.co.uk

Vessel Contact Details – Shelf Express	
Vessel telephone	T: +45 2158 4845 S: +45 8988 1104
Vessel email	shelfbridge@a1offshore.dk

5. FISHERIES LIAISON

Project Two Onshore Fisheries Liaison for this survey is provided by Nick Garside and Alex Winrow-Griffin who can be contacted on:

E-mail: nick.garside@live.co.uk	Mob: +44 (0) 7538 827013
Email: alex@brownmay.com	Mob: +44 (0) 7760 160039

An Offshore FLO will be present on the Faxaborg Guard Vessel.

In the event the Onshore Fisheries Liaison is not contactable please direct fisheries enquiries related to the survey works to the Ørsted Company Fisheries Liaison Officer:

Company Fisheries Liaison Officer – Courtney French	Tel: +44 (0)7796 447 372	E-mail: CONFR@orsted.co.uk
--	--------------------------	---