

# NOTICE TO MARINERS

**Issue Date: 12<sup>th</sup> May, 2015**

**Western Link Project**

## **Pre-mattressing operation in the Irish Sea**

Mariners are advised that prior to Western Link HVDC cable installation activities there is a requirement to install mattresses as a means of protection and separation over existing crossing with cables and pipelines at eight locations along the Western Link Project route (see Figure 2 and Table 1). The installation of the mattresses will commence around the 1 June 2015 in the Wirral area progressing north with an expected completion by 10 June 2015.

The mattress installation operations work will be carried out by **Deep Ocean 1 UK** using **Surf Ranger** (IMO 9064657; Call Sign V7FU2) multi-purpose vessel.

**During such times the vessels will have restricted ability to manoeuvre and other vessels are requested to pass at a safe speed and distance.**

**The vessel will monitor VHF Channel 16 at all times.**



*Surf Ranger*

## Project Description

The Western Link Project consists of installing two 600 kV DC submarine cables in the Irish Sea from Ardnail (Scotland) to Wirral (England) for a total route length of about 385 km (Figure 3). The cables will usually be laid as two separate cables approximately 30 metres apart at crossings the cables will be laid in close proximity to each other.

A mattress installation vessel, Surf Ranger will utilise an ROV to install the mattresses at each of the eight locations with the following sequence of operations.

## Pre-installation survey

Starting from South a pre- installation survey will be performed at each location prior to the undertaking of any mattress installation activities to confirm the positions of the cable and pipeline by detection & tracking system mounted on an ROV.

## Mattresses Installation

Following positive location of the crossing, the Surf Ranger will deploy the mattresses of an over-trawlable design installed as a single layer, using a frame operated by ROV. This process will be repeated to construct the crossing specification before moving to the next crossing location progressing north along the Western Link HVDC Route.

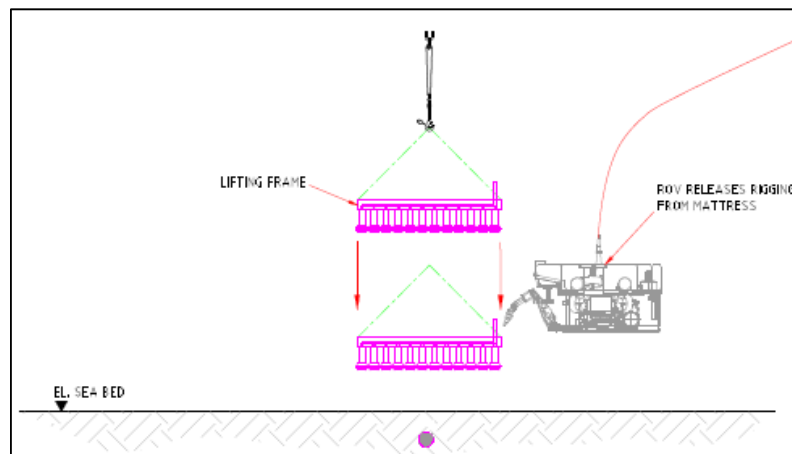


Figure 1 – Mattress installation arrangement

## Post-installation survey

Following the installation of the mattresses a post-installation survey by ROV will be carried out to confirm the mattresses have been positioned as set out in the design.

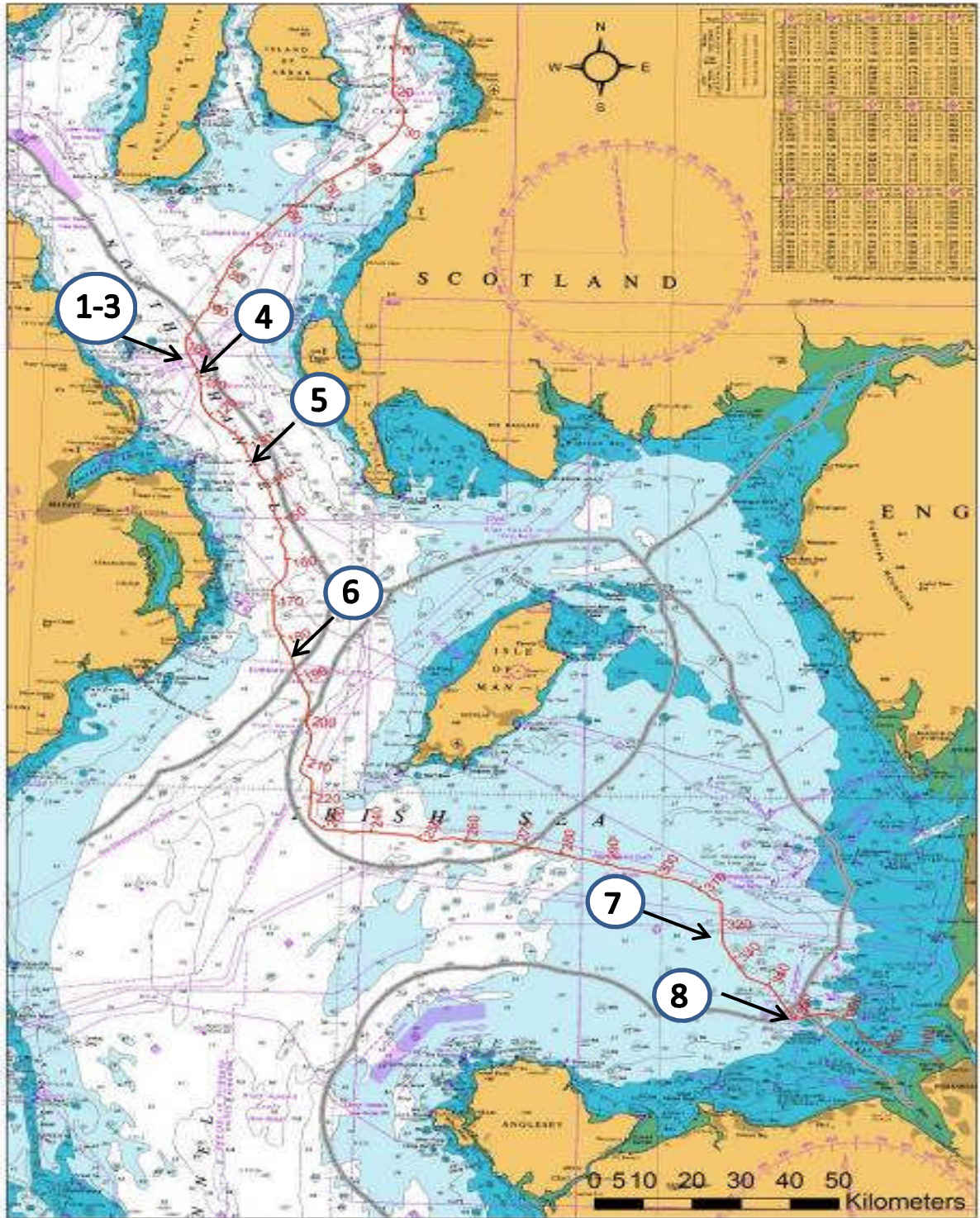


Figure 2 –Western Link HVDC cable route and pre-installed mattress locations

**Table 1 – Pre-installed mattress locations**

Item	ID (Position Name / Event)	WGS84 - UTM 30 N		WGS84		Water Depth referred to LAT (m)	Number of Mattresses to be installed	KP (km) from Ardneil (North)
		Easting	Northing	Latitude	Longitude			
1	Scotland_North-Ireland_2_Cable_IS	336823	6090496	54° 56.083'N	005° 32.823'W	149	5	103,747
2	MOYLE_Interconnector_North_Cable_IS	337099	6089922	54° 55.779'N	005° 32.545'W	151	3	104,388
3	Scotland_to_Northern_Ireland_(SNIP)_Pipeline_IS	337929	6088285	54° 54.913'N	005° 31.714'W	148	3	106,225
4	LANIS_3_(3)_Cable_IS	338976	6086206	54° 53.814'N	005° 30.664'W	139	1	108,563
5	Scotland-North_Ireland_1_Cable_IS	351058	6062757	54° 41.405'N	005° 18.647'W	157	5	136,437
6	Manx-Northern_Ireland_Cable_IS	358485	6015925	54° 16.299'N	005° 10.394'W	115	3	186,916
7	ESAT2_Cable_IS	446485	5951362	53° 42.492'N	003° 48.646'W	39	5	323,159
8	PL_1030_Pipeline_IS	461493	5930815	53° 31.491'N	003° 34.852'W	30	11	350,058
	PL_1032/1033_Pipeline_IS	461506	5930814	53° 31.490'N	003° 34.840'W	30		350,071

**Contact Details:**

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