


<b>Notice to Mariners</b> <b>Updated Maritime Safety Information</b>	
<b>Organisation submitting information and for whom the work is being conducted</b>	Tom Wills: (Tel) 0131 241 2034; (Mob) 07958 943 038. tom.wills@novainnovation.com Nova Innovation Ltd, 45 Timber Bush, Edinburgh, EH6 6QH
<b>Notes</b>	
All positions are quoted in World Geodetic System 1984 [WGS84], lat. / long., in decimal degrees to six decimal places.	
<b>1 Details of work programme including period and purpose</b>	
The purpose of the work programme is to conduct operations on a subsea tidal energy array in Bluemull Sound, Shetland. A multi-category (“multicat”) workboat vessel the Leask Marine MV C-Odyssey (pictured below, call sign 2ETW7) will conduct offshore and subsea operations on the tidal turbines and their ancillary equipment. Works will include loading and preparatory work at Cullivoe Pier. The work will be conducted from August to November 2017 and operations could take place during the day or at night.	
	
Source: Leask Marine	

**2 Positions of maximum extent of projected works**

Operations will be conducted within a 300m radius of the central area location noted in the table below and indicated with a large red circle on the chart. Operations will also be conducted up to 40m either side of the offshore cable corridor leading out to this location. Cable corridor central waypoints are listed and indicated in the chart below.

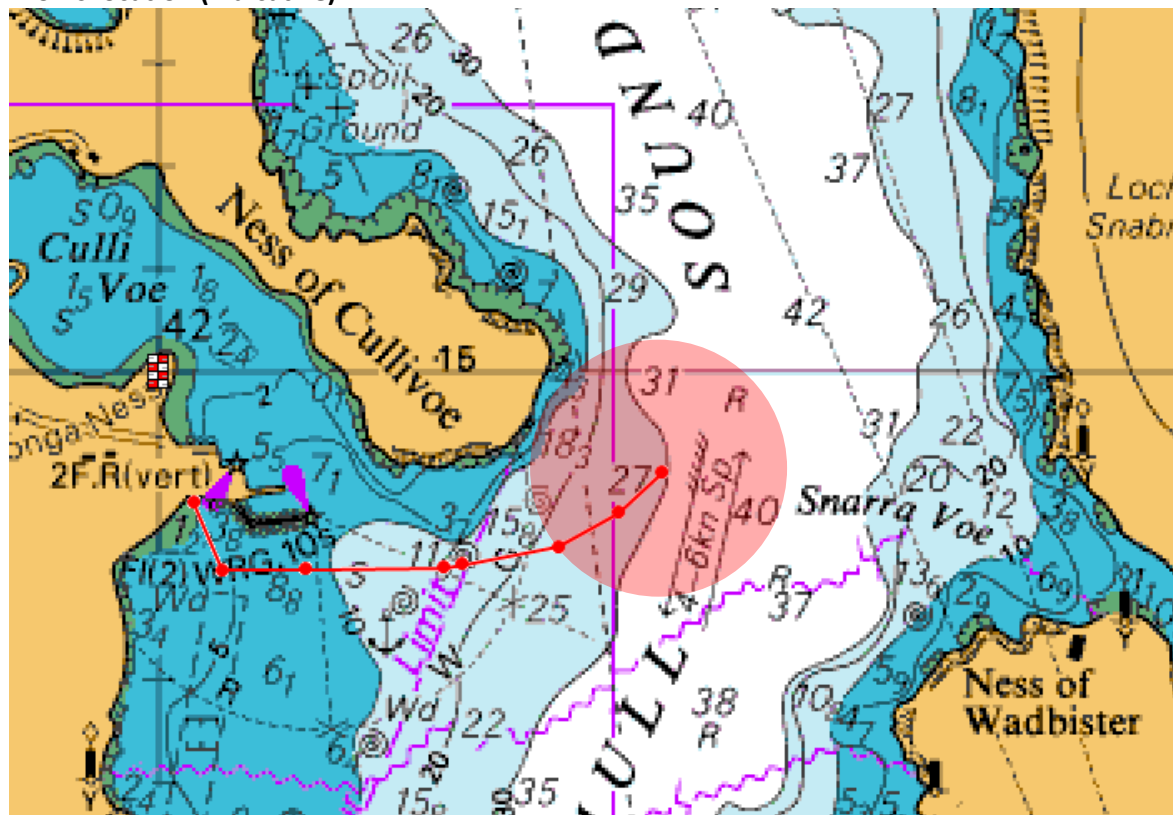
**Works area (300m radius around this location):**

Longitude	Latitude
-0.982970	60.698606

**Centre of cable corridor waypoints:**

Longitude	Latitude
-0.982970	60.698606
-0.983032	60.697916
-0.984641	60.697383
-0.987115	60.697079
-0.989177	60.696912
-0.991308	60.696828
-0.993542	60.696843
-0.996067	60.696899
-0.997712	60.696959
-0.998680	60.697800

**Works location (indicative):**



Source: Nova Innovation 2017 and Admiralty Charts

**3 Details of lights, buoys and other navigational aids – positions / descriptions / whether temporary or permanent, and whether buoys likely to be submerged at certain states of the tide (if applicable)**

During some operations, temporary yellow can surface buoys with special marks lit by flashing yellow lights may be deployed at the site in the vicinity of the deployment location.

The vessel will display the appropriate day marks, as required by the International Regulations for Preventing Collisions at Sea, and/or lights for vessels having their ability to manoeuvre restricted. Clump weights will be used to maintain moorings during on-site operations.

During the work period, underwater operations with an ROV and other equipment will be conducted. Divers may also be used. The construction vessel will fly an Alpha flag during ROV or diving operations.

**4 Proposed routes of vessels involved in operations (from port to site)**

The vessel will make passage to and from Cullivoe Pier to the deployment site.

**5 Changes to existing route measures/vessel movement**

None

**6 Details of any areas to be avoided**

Mariners are requested to keep well clear of the vessels and works area.

During operations, the vessel will be restricted in the ability to manoeuvre. It is requested that all vessels operating within this area keep their distance and pass at minimum speed.

**7 Details of any extraction areas or dumping grounds**

None

**8 Proposed position of devices and other associated features on completion of works**

The three tidal turbines in the array are located at the positions indicated in the table below.

Turbine	Longitude	Latitude
T1	-0.983633	60.69850
T2	-0.982970	60.69861
T3	-0.984100	60.69885

Each turbine is connected to shore by a dedicated subsea cable deployed from the turbine to Cullivoe Pier. The cable corridor is indicated in Section 2 above.

**INSTRUCTIONS TO VESSELS**

Vessels involved will be keeping continuous listening watch on Channel 16 and will display appropriate lights and marks as required by the International Rules for Preventing Collisions at Sea.

Mariners are requested to give the works a wide berth.

<b>Name:</b>	Tom Wills	<b>Signature:</b>	By email	<b>Date:</b>	11/08/2017
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