


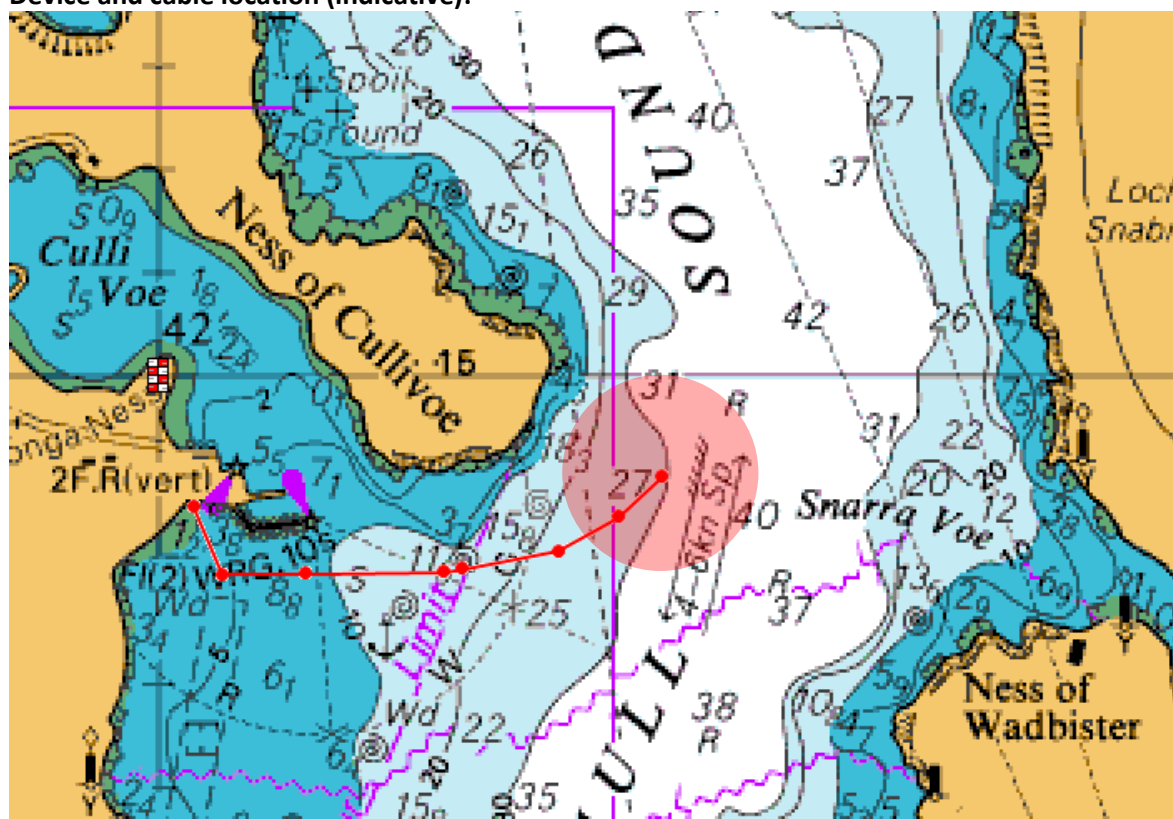
Notice to Mariners		
Updated Maritime Safety Information		
Organisation submitting information and for whom the work is being conducted	Patrick Ross-Smith: (Tel) 01595 830 461; (Mob) 07584 625 441. patrick.ross-smith@novainnovation.com Nova Innovation Ltd The Clock House, 72 Newhaven Road, Leith, Edinburgh. EH6 5QG	
Notes		
All positions are quoted in World Geodetic System 1984 [WGS84], lat. / long., in decimal degrees to six decimal places.		
1 Details of work programme including period and purpose		
<p>The purpose of the operation is to conduct construction operations on a subsea tidal energy array in the Bluemull Sound, Shetland.</p> <p>Multicat vessel MV C-Odyssey (pictured below, call sign 2ETW7) will conduct offshore and subsea operations. Works will include loading and preparatory work at Belmont Pier and Cullivoe Pier. The work will be conducted from July 2016 to August 2016; operations could take place during day or night.</p>		
		
Source: Leask Marine		
2 Positions of maximum extent of projected works		
Turbine installation work will be conducted within a 300 m radius of the turbine deployment site, noted in the table below and indicated with a red circle in the chart. Works will involve a 4 point mooring extending a maximum radius of 200m from metres from this location.		
Turbine deployment location:		
Turbine	Longitude	Latitude
T2	-0.98297	60.698606

Work will also be conducted along the cable route; cable waypoints are listed and indicated in the chart below.

Cable waypoints:

Longitude	Latitude
-0.98297	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

Device and cable location (indicative):



Source: Nova Innovation 2016 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 buoys with special marks lit by flashing yellow lights will be deployed at the site in the vicinity of the deployment location.

The construction 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 underwater operations with an ROV will be conducted, and potentially also diving work. The construction vessel will fly an Alpha flag during ROV or diving operations; a 200 m exclusion zone is requested.

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

The construction vessel will make passage to and from Cullivoe Pier to the deployment site. The vessel will also travel to and from Belmont Pier, Cullivoe Pier, and the anchorage location to the south of Cullivoe Pier and will undertake operations at each 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 installation vessels and deployment area.

During operations, the construction 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

Three subsea turbines will be installed in total during this phase of construction work. The first turbine (T1) was deployed in February at the location indicated below. T2 will be deployed in Summer 2016 at the location below. T3 will be installed in Q4 2016; coordinates will be circulated in subsequent Notices to Mariners in advance of deployment. The minimum clearance of all turbine from MLWS will be 15m.

Turbine	Longitude	Latitude
T1	-0.983633	60.69850
T2	-0.982970	60.69861
T3	Tbc	Tbc

Each turbine will be connected to shore by a dedicated subsea cable deployed from the turbine to Cullivoe Pier. The cable route is indicated in the map 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.

Name:	Patrick Ross-Smith	Signature:	By email	Date:	07/07/2016
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