

# Notice to Mariners

**Beatrice Offshore Windfarm Limited (BOWL) – Notice to Mariners June 2017.**

## Foundation Pile Cleaning Test Operation

|                       |                                 |
|-----------------------|---------------------------------|
| <b>Date of Notice</b> | <b>5<sup>th</sup> June 2017</b> |
|-----------------------|---------------------------------|

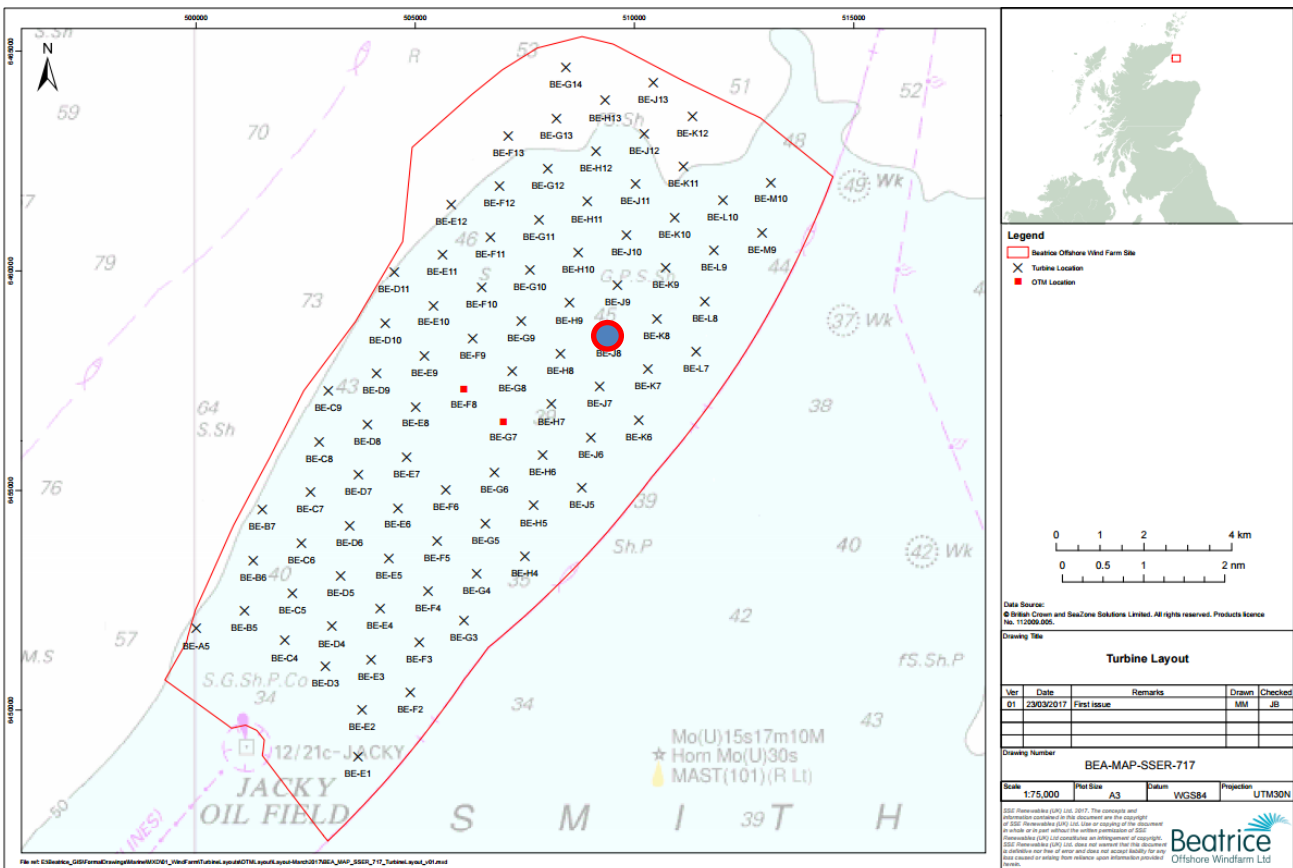
Please promulgate the following as a notice to mariners:

### Foundation Pile Cleaning Tool, Test Piece Installation

In preparation for the installation of wind turbine foundations in the Beatrice Offshore Windfarm construction site, pre-driven piles are currently being installed by the Heavy Lift Vessel (HLV) Stanislav Yudin

Prior to jacket installation, the soil within the piles and the marine growth need to be cleaned. As a result, the soil plug removal tool (SPRT) and the cleaning tool (PCT) are introduced. To demonstrate those tools, a test piece will be deployed at the same location of the piles preinstalled during the WTG pile installation campaign. After approximate 3 months, prior to the jacket installation campaign, a cleaning trial will be performed to the test piece. Eventually the test piece will be retrieved back to HLV deck.

On behalf of BOWL, Seaway Heavy Lifting will carry out the aforementioned work during the period 05/06/2017 – 11/06/2017, at location BE-J08 within the boundary of the BOWL construction site.



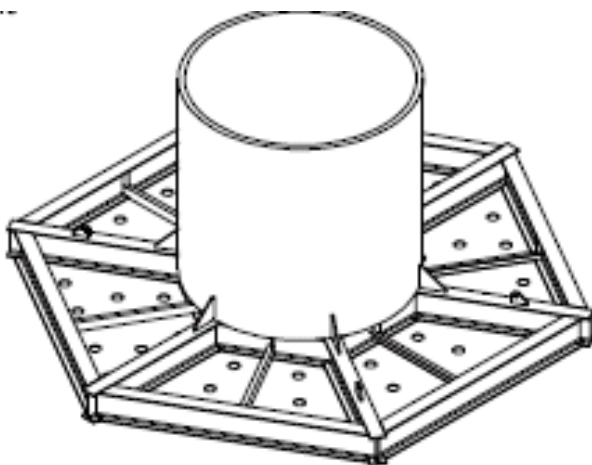
**Fig 1** BOWL construction site showing test pile cleaning location BE-J08

The Heavy Lift Vessel installing the pile cleaning test piece is the Stanislav Yudin shown Fig 2.

| STANISLAV YUDIN                            |  |
|--|--|
| <b>General Description and Dimensions:</b> | Heavy Lift Vessel LOA 183.3m Breadth 40.0m |
| <b>Call Sign:</b>                          | 5BYM2                                      |
| <b>MMSI:</b>                               | 210334000                                  |
| <b>Onshore Representative:</b>             | Steve Bell – sbell@shl.nl                  |



**Fig 2** Stanislav Yudin



**Fig 3** Test piece mounted on mud mat.

SHL has designed the test piece, which consists of a test tube and a mud mat. The test piece will be fabricated on board of HLV. The lift will be executed by ILT (Internal Lifting Tool). Therefore, the dimension of the test tube is same as the piles in Beatrice project (OD2200xWT60mm). The length of the test tube is 2100mm.

To realize sufficient stability, a mud mat is required. The mud mat is in a hexagon shape, composed of 6mm thick plates and a support

frame. This frame is made by a series of IPE 300 beams, and part of it is welded to bottom of test tube.

### Test piece installation sequence.

1. Verify weather is acceptable for test piece installation
2. Perform pre-installation ROV seabed survey
3. Carry out pre-lifting checks on lifting equipment (lifting rigging, ILT, etc.)
4. Connect aux. hook to ILT rigging
5. Remove test piece seafastening, if applicable
6. Stab and engage ILT into test piece
7. Lift off test piece from HLV by ILT
8. Lift test piece through splash zone and lower to 3-5m above seabed
9. Set-down test piece at the planned location
10. ROV to monitor status of test piece and seabed
11. Confirm coordinates of location
12. Disconnect ILT and retrieve it to HLV Deck



**Fig 4** ILT – Internal Lifting Tool – used to stab and lift piles

### General Safety Advice

All vessels engaged in the activity will exhibit appropriate lights and shapes prescribed by the International Regulations for Preventing Collisions at Sea; relative to their operations. All vessels engaged in the activity will also transmit an Automatic Identification System (AIS) message.

The Secretary of State has authorised the use of the following safety zones as per Notice to Mariners LF000005-NTM-005 Notification of Safety Zones.

- 500 metres radius around each wind turbine, offshore transformer module and/or their substructures and foundations comprising the Beatrice Offshore Wind Farm whilst work is being performed as indicated by the presence of construction vessels.
- 50 metres radius around each wind turbine, offshore transformer module and/or their substructure and foundations installed but waiting to be commissioned as part of the Beatrice Offshore Wind Farm.

ALL VESSELS ARE REQUESTED to give all construction and support vessels a wide berth.

MARINERS ARE REMINDED to navigate with caution and keep continued watch on VHF Ch. 70 / 16 when navigating the area.

LF000005-NTM-009 Rev 02 Notice to Mariners Foundation Pile Cleaning Tool Test Piece Installation

Fisheries liaison associated with the activity will be co-ordinated by Brown and May Marine. For any commercial fishery queries please contact: Alex Winrow-Giffin, telephone: +44 (0)1379 872145 and mobile: +44 (0)7702 710178

Any questions regarding this Notice to Mariners should be directed to Beatrice Offshore Wind Farm Marine Coordination office.

Notice issued by:

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