| MORAY EAST | Issue Date | $13 / 05 / 2019$ |
| :--- | :--- | :--- |
| WEEKLY NOTICE OF OPERATIONS | Ref: 8460001-PC0010-MWE-REP-006 | Rev: 01 |

## Work Planned for the Period 13.05.2019 to 19.05.2019

## Construction work for Moray East Offshore Wind Farm will commence from the 15 ${ }^{\text {th }}$ May 2019.

The key aim of the Weekly Notice of Operations is to give a global view of activities and vessels involved. Questions regarding the operations will be welcome preferably well in advance of each construction activity.

Moray East is developing the Moray East Offshore Wind Farm in the Outer Moray Firth on the south eastern area of the Smith Bank located to the north of the Aberdeenshire and Moray coast. The development will consist of 100 offshore wind turbines (WTGs) (with a total capacity of approximately 950 MW ) and three Offshore Substation Platforms (OSPs). Water depths in the Moray East site range from approximately 38 m below LAT to 54 m below LAT. The generated power will be transmitted to the grid via three subsea export cable circuits to the landfall location at Inverboyndie bay on the Aberdeenshire coast. The onshore export cables continue underground to the Moray East substation currently under construction near New Deer. The Moray East offshore development boundary is shown in black on Figure 1 below. Details of location of work activities within this area will be provided as work progresses.


Figure 1 - Moray East Offshore Development Boundary

| MORAY EAST | Issue Date | $13 / 05 / 2019$ |
| :--- | :--- | :--- |
| WEEKLY NOTICE OF OPERATIONS | Ref: 8460001-PC0010-MWE-REP-006 | Rev: 01 |

It is currently anticipated that weather permitting offshore construction works will be carried out year-round and on a continuous basis (i.e. 24 hour working, seven days a week) unless notified otherwise.

Moray East's Marine Coordination Centre in Fraserburgh is manned 24 hours, 7 days per week.
A number of pre-construction activities are continuing offshore, alongside the construction works, which are planned to commence from the $15^{\text {th }}$ May 2019:

- Boulder relocation works (detailed in this notice);
- $\quad$ Subsea debris survey (detailed in this notice);
- Commencement of piling operations (detailed in this notice);
- Guard vessel duties (detailed in this notice).


## 1 Contact Details for Marine Coordination

The following contact can provide more information if required. Please note that specific queries can also be addressed to the relevant vessel or shore based representative.

| Telephone Number (Day Operations) | $+44(0) 7787065714$ |
| :--- | :--- |
| Emergency Contact (24/7) | $+44(0) 1346511838$ |
| Marine Coordinator Email | MarineCoordination.MORAYEAST@Morayeast.com |
| Address | Dalrymple Hall, Dalrymple St, Fraserburgh, AB43 9BD |

## 2 Completed Operations

### 2.1 Moray East Construction Markers

Moray East has completed the deployment of nine construction marker buoys around the Moray East site. The marker buoys will remain in place until after construction of the Moray East Offshore Wind Farm is complete. The co-ordinates for the as-built marker buoys are provided in the Table 1 below.

## Table 1 - Marker buoy locations

| Name | WGS84 |  | WGS84 UTM Zone 30N |  |
| :--- | :---: | :---: | :---: | :---: |
|  | Latitude (dms) | Longitude (dms) | Easting (m) | Northing (m) |
| Buoy 1 - North Cardinal Buoy, <br> Pillar shaped with a north <br> cardinal shaped top mark, <br> exhibiting a Quick (Q) White <br> (W) light character and AIS. | $58^{\circ} 18^{\prime} 6.600^{\prime \prime} \mathrm{N}$ | $2^{\circ} 41^{\prime} 4.800^{\prime \prime} \mathrm{W}$ | 518481.96 | 6462358.27 |
| Buoy 2 - Special Mark Buoy, <br> Pillar shaped with a yellow 'x' <br> shaped top mark, exhibiting a FI | $58^{\circ} 16^{\prime} 48.300 " \mathrm{~N}$ |  |  |  |
| Y 5s light character. |  |  |  |  |


| MORAY EAST | Issue Date | 13/05/2019 |
| :--- | :--- | :--- |
| WEEKLY NOTICE OF OPERATIONS | Ref: 8460001-PC0010-MWE-REP-006 | Rev: 01 |


| Name | WGS84 |  | WGS84 UTM Zone 30N |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Latitude (dms) | Longitude (dms) | Easting (m) | Northing (m) |
| Buoy 3-Special Mark Buoy, <br> Pillar shaped with a yellow ' $x$ ' shaped top mark, exhibiting a Fl Y 5s light character. | $58^{\circ} 15^{\prime} 8.460 " N$ | $2^{\circ} 35{ }^{\prime} 57.3001 \mathrm{~W}$ | 523521.05 | 6456875.58 |
| Buoy 4 - East Cardinal Buoy, Pillar shaped with an east cardinal shaped top mark, exhibiting a Very (V) Q (3) 5 second (s) W light character and AIS. | 58¹0' $44.094{ }^{\prime \prime} \mathrm{N}$ | 2³ 32 '45.804" W | 526698.14 | 6448719.47 |
| Buoy 5-Special Mark Buoy, Pillar shaped with a yellow ' $x$ ' shaped top mark, exhibiting a FI Y 5s light character. | $58^{\circ} 7^{\prime} 49.680^{\prime \prime} \mathrm{N}$ | $2^{\circ} 35^{\prime} 20.640$ ' W | 524201.44 | 6443309.27 |
| Buoy 6-Special Mark Buoy, Pillar shaped with a yellow ' $x$ ' shaped top mark, exhibiting a Fl Y 5s light character. | 58º $6^{\prime} 43.980{ }^{\prime \prime} \mathrm{N}$ | $2^{\circ} 38{ }^{\prime} 19.860$ " W | 521280.40 | 6441260.65 |
| Buoy 7-Special Mark Buoy, Pillar shaped with a yellow ' $x$ ' shaped top mark, exhibiting a Fl Y 5s light character. | $58^{\circ} 4^{\prime} 57.240^{\prime \prime} \mathrm{N}$ | 2º47' 9.360" W | 512624.16 | 6437922.64 |
| Buoy 8 - South Cardinal, Pillar shaped with a south cardinal shaped top mark, exhibiting a $V$ Q (6) + L Fl 10s W light character and AIS. | $58^{\circ} 4^{\prime} 1.140{ }^{\prime \prime} \mathrm{N}$ | 252' 6.660" W | 507757.35 | 6436175.21 |
| Buoy 9-Special Mark Buoy, Pillar shaped with a yellow ' $x$ ' shaped top mark, exhibiting a FI Y 5s light character. | $58^{\circ} 8^{\prime} 37.080^{\prime \prime} \mathrm{N}$ | 2º 50' 37.080" W | 509205.67 | 6444712.15 |


| MORAY EAST | Issue Date | 13/05/2019 |
| :--- | :--- | :--- |
| WEEKLY NOTICE OF OPERATIONS | Ref: 8460001-PC0010-MWE-REP-006 | Rev: 01 |



Figure 2 - Layout of demarcation buoyage

| MORAY EAST | Issue Date | $13 / 05 / 2019$ |
| :--- | :--- | :--- |
| WEEKLY NOTICE OF OPERATIONS | Ref: 8460001-PC0010-MWE-REP-006 | Rev: 01 |

## 3 Boulder Relocation Works

Moray East has contracted Utility ROV Services Limited to carry out boulder relocation work within the Moray East site as detailed within Figure 3 below.

The boulder relocation activities commenced on $4^{\text {th }}$ March 2019, the duration of the campaign is anticipated to last up to 85 days (including weather downtime). The EDT Kennedy will be relocating seabed boulders and debris using an over-the-side Remotely Operated Vehicle (ROV) grab. Vessel details are provided within Section 3.1 below.


Figure 3 - Boulder relocation works area

| MORAY EAST | Issue Date | 13/05/2019 |
| :--- | :--- | :--- |
| WEEKLY NOTICE OF OPERATIONS | Ref: 8460001-PC0010-MWE-REP-006 | Rev: 01 |

3.1 Vessel associated with the planned works

| EDT Kennedy |  |
| :--- | :--- |
| General Description and Dimensions: | DP 2 ROV support vessel <br> LOA: 75 m, Beam: 18 m, Draught: 5.6 |
| Call Sign: | 5BAJ4 |
| MMSI: | 9671400 |
| On Board Contact: | Master |
| Offshore Manager / Party Chief: | N/A |
| E-mail: | kennedy.captain@edtoffshore.com |
| Onshore Representative: | Malgorzata Orlowska |



| MORAY EAST | Issue Date | $13 / 05 / 2019$ |
| :--- | :--- | :--- |
| WEEKLY NOTICE OF OPERATIONS | Ref: 8460001-PC0010-MWE-REP-006 | Rev: 01 |

## 4 Subsea Debris Survey

Moray East has contracted Moray First Marine Limited to carry out subsea debris survey work within the activity area detailed within Figure 4 below.

The MV Coral Wind will be investigating the potential for subsea debris using hull-mounted equipment. If any areas of interest for further inspection are identified, a Remotely Operated Vehicle (ROV) will be deployed to investigate the area further. The earliest commencement date for the works is currently anticipated to be $14^{\text {th }}$ May 2019, and the duration of works will be one day excluding weather downtime. Vessel details are provided within Section 4.1 below.


Figure 4 - Subsea debris survey area

Latitude and longitude co-ordinates for the activity area are provided in Table 2 below.
Table 2 - Coordinates for the subsea debris survey area

| WGS84 |  |
| :---: | :---: |
| Latitude | Longitude |
| $58^{\circ} 12.482^{\prime} \mathrm{N}$ | $2^{\circ} 52.330^{\prime} \mathrm{W}$ |
| $58^{\circ} 14.708^{\prime} \mathrm{N}$ | $2^{\circ} 48.408^{\prime} \mathrm{W}$ |
| $58^{\circ} 11.115^{\prime} \mathrm{N}$ | $2^{\circ} 44.446^{\prime} \mathrm{W}$ |
| $58^{\circ} 09.903^{\prime} \mathrm{N}$ | $2^{\circ} 50.191^{\prime} \mathrm{W}$ |


| MORAY EAST <br> WEEKLY NOTICE OF OPERATIONS | Issue Date | 13/05/2019 |
| :--- | :--- | :--- |
|  | Ref: 8460001-PC0010-MWE-REP-006 | Rev: 01 |

4.1 Vessel associated with the planned works

| MV Coral Wind |  |
| :--- | :--- |
| General Description and Dimensions: | Workboat, UK MCA Cat.2 <br> LOA: 14 m, Beam: 5.1 m, Draught: 1.2 m |
| Call Sign: | 2EMX8 |
| MMSI: | N/A |
| On Board Contact: | Master |
| Offshore Manager / Party Chief: | N/A |
| E-mail: | bill@moraymarine.com |
| Onshore Representative: | Enrique Alvarez |



| MORAY EAST | Issue Date | $13 / 05 / 2019$ |
| :--- | :--- | :--- |
| WEEKLY NOTICE OF OPERATIONS | Ref: 8460001-PC0010-MWE-REP-006 | Rev: 01 |

## 5 Piling Operations

GeoSea NV Geotechnical \& Offshore Solutions have been contracted by Moray East to carry out pile foundation installation at the Moray East site. The vessels associated with the planned works are detailed in Section 5.1 below.

The piling operations are due to commence from the $15^{\text {th }}$ May 2019 and are scheduled to take place over a period of approximately 11 months. Information on the wind turbine foundation locations in the Moray East site and the piling operations anticipated in the next four weeks is provided in Section 5.2 and 5.3 below.

### 5.1 Vessels associated with the planned works

### 5.1.1 Pin Pile Support Vessel

| MV Normand Service |  |  |
| :--- | :--- | :--- |
| General Description and Dimensions: | DP 2 PSV vessel <br> LOA: 88.0 m, Beam: 18.0 m, Draught: 4.5 m |  |
| Call Sign: | LAFR8 |  |
| MMSI: | 257062690 |  |
| On Board Contact: | Mob: +32 486 36 42 31 |  |
| Offshore Manager / Party Chief: | Tobe Possimiers/Hans Miedema |  |
| E-mail: | possemiers.tobe@deme-group.com |  |
| Onshore Representative: | Edward Maycock |  |
|  |  |  |


| MORAY EAST <br> WEEKLY NOTICE OF OPERATIONS | Issue Date | 13/05/2019 |
| :--- | :--- | :--- |
|  | Ref: 8460001-PC0010-MWE-REP-006 | Rev: 01 |

### 5.1.2 Pin Pile Installation Vessel

| MV Apollo |  |
| :--- | :--- |
| General Description and Dimensions: | Offshore Heavy Lift DP2 jack up vessel <br> LOA: 89 m, Beam: 45 m, Draught: 15 m |
| Call Sign: | LXBP |
| MMSI: | 253586000 |
| On Board Contact: | Mob: +32 486 36 42 31 |
| Offshore Manager / Party Chief: | Tobe Possimiers/Hans Miedema |
| E-mail: | Edward Maycock |
| Onshore Representative: |  |


| MORAY EAST | Issue Date | $13 / 05 / 2019$ |
| :--- | :--- | :--- |
| WEEKLY NOTICE OF OPERATIONS | Ref: 8460001 -PC0010-MWE-REP-006 | Rev: 01 |

### 5.2 Foundation Locations

Foundation locations for piling operations are shown in Table 3 below.

Table 3 - WTG locations

| Turbine ID | Latitude (DD MM.mmm) | Longitude (DD MM.mmm) |
| :---: | :---: | :---: |
| ME-A01 | $58^{\circ} 4.550^{\prime} \mathrm{N}$ | $2^{\circ} 52.147{ }^{\prime} \mathrm{W}$ |
| ME-A02 | $58^{\circ} 5.158^{\prime} \mathrm{N}$ | $2^{\circ} 52.144{ }^{\prime} \mathrm{W}$ |
| ME-B02 | $58^{\circ} 5.147{ }^{\prime} \mathrm{N}$ | $2^{\circ} 50.570^{\prime} \mathrm{W}$ |
| ME-B03 | $58^{\circ} 5.755^{\prime} \mathrm{N}$ | $2^{\circ} 50.567{ }^{\prime} \mathrm{W}$ |
| ME-B04 | $58^{\circ} 6.364^{\prime} \mathrm{N}$ | $2^{\circ} 50.564{ }^{\prime} \mathrm{W}$ |
| ME-B05-OFF | $58^{\circ} 6.967^{\prime} \mathrm{N}$ | $2^{\circ} 50.544{ }^{\prime} \mathrm{W}$ |
| ME-B13 | $58^{\circ} 11.838^{\prime} \mathrm{N}$ | $2^{\circ} 50.540{ }^{\prime} \mathrm{W}$ |
| ME-B14 | $58^{\circ} 12.446^{\prime} \mathrm{N}$ | $2^{\circ} 50.538^{\prime} \mathrm{W}$ |
| ME-C05 | $58^{\circ} 6.961^{\prime} \mathrm{N}$ | $2^{\circ} 48.986^{\prime} \mathrm{W}$ |
| ME-C07 | $58^{\circ} 8.177^{\prime} \mathrm{N}$ | $2^{\circ} 48.980^{\prime} \mathrm{W}$ |
| ME-C08 | $58^{\circ} 8.785^{\prime} \mathrm{N}$ | $2^{\circ} 48.977{ }^{\prime} \mathrm{W}$ |
| ME-C09 | $58^{\circ} 9.394^{\prime} \mathrm{N}$ | $2^{\circ} 48.973{ }^{\prime} \mathrm{W}$ |
| ME-C10 | $58^{\circ} 10.002^{\prime} \mathrm{N}$ | $2^{\circ} 48.970^{\prime} \mathrm{W}$ |
| ME-C11 | $58^{\circ} 10.610^{\prime} \mathrm{N}$ | $2^{\circ} 48.967{ }^{\prime} \mathrm{W}$ |
| ME-C12 | $58^{\circ} 11.218^{\prime} \mathrm{N}$ | $2^{\circ} 48.964{ }^{\prime} \mathrm{W}$ |
| ME-C13 | $58^{\circ} 11.826^{\prime} \mathrm{N}$ | $2^{\circ} 48.961{ }^{\prime} \mathrm{W}$ |
| ME-C14 | $58^{\circ} 12.435^{\prime} \mathrm{N}$ | $2^{\circ} 48.958^{\prime} \mathrm{W}$ |
| ME-C15 | $58^{\circ} 13.043^{\prime} \mathrm{N}$ | $2^{\circ} 48.955^{\prime} \mathrm{W}$ |
| ME-C16 | $58^{\circ} 13.651^{\prime} \mathrm{N}$ | $2^{\circ} 48.951{ }^{\prime} \mathrm{W}$ |
| ME-D04 | $58^{\circ} 6.341^{\prime} \mathrm{N}$ | $2^{\circ} 47.414^{\prime} \mathrm{W}$ |
| ME-D05 | $58^{\circ} 6.949^{\prime} \mathrm{N}$ | $2^{\circ} 47.410^{\prime} \mathrm{W}$ |
| ME-D07 | $58^{\circ} 8.166^{\prime} \mathrm{N}$ | $2^{\circ} 47.403{ }^{\prime} \mathrm{W}$ |
| ME-D08 | $58^{\circ} 8.774^{\prime} \mathrm{N}$ | $2^{\circ} 47.399^{\prime} \mathrm{W}$ |
| ME-D09 | $58^{\circ} 9.382^{\prime} \mathrm{N}$ | $2^{\circ} 47.396{ }^{\prime} \mathrm{W}$ |
| ME-D10 | $58^{\circ} 9.990^{\prime} \mathrm{N}$ | $2^{\circ} 47.392{ }^{\prime} \mathrm{W}$ |
| ME-D11 | $58^{\circ} 10.598^{\prime} \mathrm{N}$ | $2^{\circ} 47.389^{\prime} \mathrm{W}$ |
| ME-D12 | $58^{\circ} 11.207^{\prime} \mathrm{N}$ | $2^{\circ} 47.385^{\prime} \mathrm{W}$ |
| ME-D13 | $58^{\circ} 11.815^{\prime} \mathrm{N}$ | $2^{\circ} 47.381{ }^{\prime} \mathrm{W}$ |
| ME-D14 | $58^{\circ} 12.423^{\prime} \mathrm{N}$ | $2^{\circ} 47.378^{\prime} \mathrm{W}$ |
| ME-D15 | $58^{\circ} 13.031^{\prime} \mathrm{N}$ | $2^{\circ} 47.374^{\prime} \mathrm{W}$ |
| ME-D16 | $58^{\circ} 13.639^{\prime} \mathrm{N}$ | $2^{\circ} 47.371{ }^{\prime} \mathrm{W}$ |
| ME-D17 | $58^{\circ} 14.248^{\prime} \mathrm{N}$ | $2^{\circ} 47.367{ }^{\prime} \mathrm{W}$ |
| ME-E04 | $58^{\circ} 6.329^{\prime} \mathrm{N}$ | $2^{\circ} 45.838^{\prime} \mathrm{W}$ |
| ME-E05 | $58^{\circ} 6.937^{\prime} \mathrm{N}$ | $2^{\circ} 45.834^{\prime} \mathrm{W}$ |
| ME-E19 | $58^{\circ} 15.452^{\prime} \mathrm{N}$ | $2^{\circ} 45.778^{\prime} \mathrm{W}$ |
| ME-F04 | $58^{\circ} 6.317^{\prime} \mathrm{N}$ | $2^{\circ} 44.263 ' \mathrm{~W}$ |
| ME-F21 | $58^{\circ} 16.656^{\prime} \mathrm{N}$ | $2^{\circ} 44.187^{\prime} \mathrm{W}$ |
| ME-G05 | $58^{\circ} 6.913^{\prime} \mathrm{N}$ | $2^{\circ} 42.683 ' \mathrm{~W}$ |

OFFSHORE WINDFARM

| MORAY EAST | Issue Date | 13/05/2019 |
| :--- | :--- | :--- |
| WEEKLY NOTICE OF OPERATIONS | Ref: 8460001-PC0010-MWE-REP-006 | Rev: 01 |


| Turbine ID | Latitude (DD MM.mmm) | Longitude (DD MM.mmm) |
| :---: | :---: | :---: |
| ME-G06 | $58^{\circ} 7.521^{\prime} \mathrm{N}$ | $2^{\circ} 42.678{ }^{\prime} \mathrm{W}$ |
| ME-G07 | $58^{\circ} 8.129^{\prime} \mathrm{N}$ | $2^{\circ} 42.673^{\prime} \mathrm{W}$ |
| ME-G09 | $58^{\circ} 9.345^{\prime} \mathrm{N}$ | $2^{\circ} 42.663$ ' W |
| ME-G10 | $58^{\circ} 9.954^{\prime} \mathrm{N}$ | $2^{\circ} 42.658^{\prime} \mathrm{W}$ |
| ME-G11 | $58^{\circ} 10.562^{\prime} \mathrm{N}$ | $2^{\circ} 42.653^{\prime} \mathrm{W}$ |
| ME-G13 | $58^{\circ} 11.778^{\prime} \mathrm{N}$ | $2^{\circ} 42.643^{\prime} \mathrm{W}$ |
| ME-G15 | $58^{\circ} 12.995^{\prime} \mathrm{N}$ | $2^{\circ} 42.633{ }^{\prime} \mathrm{W}$ |
| ME-G16 | $58^{\circ} 13.603^{\prime} \mathrm{N}$ | $2^{\circ} 42.629^{\prime} \mathrm{W}$ |
| ME-G17 | $58^{\circ} 14.211^{\prime} \mathrm{N}$ | $2^{\circ} 42.624^{\prime} \mathrm{W}$ |
| ME-G18 | $58^{\circ} 14.819^{\prime} \mathrm{N}$ | $2^{\circ} 42.619^{\prime} \mathrm{W}$ |
| ME-G19 | $58^{\circ} 15.428^{\prime} \mathrm{N}$ | $2^{\circ} 42.614^{\prime} \mathrm{W}$ |
| ME-G20 | $58^{\circ} 16.036{ }^{\prime} \mathrm{N}$ | $2^{\circ} 42.609^{\prime} \mathrm{W}$ |
| ME-G21 | $58^{\circ} 16.644^{\prime} \mathrm{N}$ | $2^{\circ} 42.604{ }^{\prime} \mathrm{W}$ |
| ME-G22 | $58^{\circ} 17.252^{\prime} \mathrm{N}$ | $2^{\circ} 42.599^{\prime} \mathrm{W}$ |
| ME-H05 | $58^{\circ} 6.900^{\prime} \mathrm{N}$ | $2^{\circ} 41.107{ }^{\prime} \mathrm{W}$ |
| ME-H06 | $58^{\circ} 7.508^{\prime} \mathrm{N}$ | $2^{\circ} 41.102^{\prime} \mathrm{W}$ |
| ME-H07 | $58^{\circ} 8.116^{\prime} \mathrm{N}$ | $2^{\circ} 41.096{ }^{\prime} \mathrm{W}$ |
| ME-H08 | $58^{\circ} 8.724^{\prime} \mathrm{N}$ | $2^{\circ} 41.091{ }^{\prime} \mathrm{W}$ |
| ME-H09 | $58^{\circ} 9.333^{\prime} \mathrm{N}$ | $2^{\circ} 41.086^{\prime} \mathrm{W}$ |
| ME-H10 | $58^{\circ} 9.941^{\prime} \mathrm{N}$ | $2^{\circ} 41.080^{\prime} \mathrm{W}$ |
| ME-H13 | $58^{\circ} 11.765^{\prime} \mathrm{N}$ | $2^{\circ} 41.064{ }^{\prime} \mathrm{W}$ |
| ME-H14 | $58^{\circ} 12.374^{\prime} \mathrm{N}$ | $2^{\circ} 41.059^{\prime} \mathrm{W}$ |
| ME-H16 | $58^{\circ} 13.590^{\prime} \mathrm{N}$ | $2^{\circ} 41.048{ }^{\prime} \mathrm{W}$ |
| ME-H17 | $58^{\circ} 14.198^{\prime} \mathrm{N}$ | $2^{\circ} 41.042^{\prime} \mathrm{W}$ |
| ME-H18 | $58^{\circ} 14.806^{\prime} \mathrm{N}$ | $2^{\circ} 41.037{ }^{\prime} \mathrm{W}$ |
| ME-H19 | $58^{\circ} 15.415^{\prime} \mathrm{N}$ | $2^{\circ} 41.032^{\prime} \mathrm{W}$ |
| ME-H20 | $58^{\circ} 16.023^{\prime} \mathrm{N}$ | $2^{\circ} 41.026^{\prime} \mathrm{W}$ |
| ME-H21 | $58^{\circ} 16.631^{\prime} \mathrm{N}$ | $2^{\circ} 41.021{ }^{\prime} \mathrm{W}$ |
| ME-H22 | $58^{\circ} 17.239^{\prime} \mathrm{N}$ | $2^{\circ} 41.015^{\prime} \mathrm{W}$ |
| ME-I06 | $58^{\circ} 7.495^{\prime} \mathrm{N}$ | $2^{\circ} 39.526^{\prime} \mathrm{W}$ |
| ME-I07 | $58^{\circ} 8.103^{\prime} \mathrm{N}$ | $2^{\circ} 39.520^{\prime} \mathrm{W}$ |
| ME-I19 | $58^{\circ} 15.401^{\prime} \mathrm{N}$ | $2^{\circ} 39.450{ }^{\prime} \mathrm{W}$ |
| ME-I20 | $58^{\circ} 16.010^{\prime} \mathrm{N}$ | $2^{\circ} 39.444{ }^{\prime} \mathrm{W}$ |
| ME-J07 | $58^{\circ} 8.090^{\prime} \mathrm{N}$ | $2^{\circ} 37.943 ' \mathrm{~W}$ |
| ME-J08 | $58^{\circ} 8.698^{\prime} \mathrm{N}$ | $2^{\circ} 37.937{ }^{\prime} \mathrm{W}$ |
| ME-J09 | $58^{\circ} 9.306^{\prime} \mathrm{N}$ | $2^{\circ} 37.930^{\prime} \mathrm{W}$ |
| ME-J10 | $58^{\circ} 9.914^{\prime} \mathrm{N}$ | $2^{\circ} 37.924{ }^{\prime} \mathrm{W}$ |
| ME-J12 | $58^{\circ} 11.131^{\prime} \mathrm{N}$ | $2^{\circ} 37.912^{\prime} \mathrm{W}$ |
| ME-J13 | $58^{\circ} 11.739^{\prime} \mathrm{N}$ | $2^{\circ} 37.905^{\prime} \mathrm{W}$ |
| ME-J14 | $58^{\circ} 12.347^{\prime} \mathrm{N}$ | $2^{\circ} 37.899^{\prime} \mathrm{W}$ |
| ME-J16 | $58^{\circ} 13.563^{\prime} \mathrm{N}$ | $2^{\circ} 37.886^{\prime} \mathrm{W}$ |
| ME-J17 | $58^{\circ} 14.172^{\prime} \mathrm{N}$ | $2^{\circ} 37.880^{\prime} \mathrm{W}$ |
| ME-J18 | $58^{\circ} 14.780^{\prime} \mathrm{N}$ | $2^{\circ} 37.874{ }^{\prime} \mathrm{W}$ |


| MORAY EAST | Issue Date | $13 / 05 / 2019$ |
| :--- | :--- | :--- |
| WEEKLY NOTICE OF OPERATIONS | Ref: 8460001-PC0010-MWE-REP-006 | Rev: 01 |


| Turbine ID | Latitude (DD MM.mmm) | Longitude (DD MM.mmm) |
| :---: | :---: | :---: |
| ME-J19-OFF | $58^{\circ} 15.383^{\prime} \mathrm{N}$ | $2^{\circ} 37.887{ }^{\prime} \mathrm{W}$ |
| ME-K09 | $58^{\circ} 9.292^{\prime} \mathrm{N}$ | $2^{\circ} 36.353^{\prime} \mathrm{W}$ |
| ME-K10 | $58^{\circ} 9.900^{\prime} \mathrm{N}$ | $2^{\circ} 36.346{ }^{\prime} \mathrm{W}$ |
| ME-K11 | $58^{\circ} 10.509^{\prime} \mathrm{N}$ | $2^{\circ} 36.339^{\prime} \mathrm{W}$ |
| ME-K16 | $58^{\circ} 13.550^{\prime} \mathrm{N}$ | $2^{\circ} 36.306^{\prime} \mathrm{W}$ |
| ME-K17-OFF | $58^{\circ} 14.189^{\prime} \mathrm{N}$ | $2^{\circ} 36.133^{\prime} \mathrm{W}$ |
| ME-L09 | $58^{\circ} 9.278^{\prime} \mathrm{N}$ | $2^{\circ} 34.775^{\prime} \mathrm{W}$ |
| ME-L11 | $58^{\circ} 10.494^{\prime} \mathrm{N}$ | $2^{\circ} 34.761{ }^{\prime} \mathrm{W}$ |
| ME-L12 | $58^{\circ} 11.103^{\prime} \mathrm{N}$ | $2^{\circ} 34.754^{\prime} \mathrm{W}$ |
| ME-L13 | $58^{\circ} 11.711^{\prime} \mathrm{N}$ | $2^{\circ} 34.747{ }^{\prime} \mathrm{W}$ |
| ME-E18 | $58^{\circ} 14.844^{\prime} \mathrm{N}$ | $2^{\circ} 45.782^{\prime} \mathrm{W}$ |
| ME-E14 | $58^{\circ} 12.411^{\prime} \mathrm{N}$ | $2^{\circ} 45.798^{\prime} \mathrm{W}$ |
| ME-I18 | $58^{\circ} 14.793^{\prime} \mathrm{N}$ | $2^{\circ} 39.455^{\prime} \mathrm{W}$ |
| ME-F08 | $58^{\circ} 8.750^{\prime} \mathrm{N}$ | $2^{\circ} 44.245^{\prime} \mathrm{W}$ |
| ME-G08 | $58^{\circ} 8.737^{\prime} \mathrm{N}$ | $2^{\circ} 42.668^{\prime} \mathrm{W}$ |
| ME-H11 | $58^{\circ} 10.549^{\prime} \mathrm{N}$ | $2^{\circ} 41.075^{\prime} \mathrm{W}$ |
| ME-C04 | $58^{\circ} 6.353^{\prime} \mathrm{N}$ | $2^{\circ} 48.989^{\prime} \mathrm{W}$ |
| ME-C02 | $58^{\circ} 5.136^{\prime} \mathrm{N}$ | $2^{\circ} 48.995^{\prime} \mathrm{W}$ |
| ME-D06 | $58^{\circ} 7.557^{\prime} \mathrm{N}$ | $2^{\circ} 47.407{ }^{\prime} \mathrm{W}$ |
| ME-OSP1 | $58^{\circ} 7.546^{\prime} \mathrm{N}$ | $2^{\circ} 45.830^{\prime} \mathrm{W}$ |
| ME-OSP2 | $58^{\circ} 13.007^{\prime} \mathrm{N}$ | $2^{\circ} 44.214^{\prime} \mathrm{W}$ |
| ME-OSP3 | $58^{\circ} 9.928^{\prime} \mathrm{N}$ | $2^{\circ} 39.502{ }^{\text {' W }}$ |



Figure 5 - Turbine location map

| MORAY EAST | Issue Date | $13 / 05 / 2019$ |
| :--- | :--- | :--- |
| WEEKLY NOTICE OF OPERATIONS | Ref: 8460001-PC0010-MWE-REP-006 | Rev: 01 |

### 5.3 Piling Operations

Pile foundations will be installed by the Heavy Lift Vessel (HLV) Apollo which will arrive at the proposed foundation installation location and will be positioned in readiness for the foundation installation works. This will involve the vessel entering DP2 and then jacking up to operational draft.

Pile foundations will be installed by the use of a Pile Installation template (see Figure 6 below), where 3 pin piles will be stabbed into the seabed through the piling temple then driven to target depth in readiness for the Jacket installation.

The Piling Template will then be recovered to deck and vessel relocate to the next location for installation.


Figure 6 - Piling Template

### 5.4 Piling works for the month ahead

Piling works are expected to take place for the next four weeks from the date this notice is issued in the area highlighted in yellow in Figure 7 below. Construction works could take place out of this area due to unforeseen circumstances.

| MORAY EAST | Issue Date | 13/05/2019 |
| :--- | :--- | :--- |
| WEEKLY NOTICE OF OPERATIONS | Ref: 8460001-PC0010-MWE-REP-006 | Rev: 01 |




Figure 7 - Piling activity area expected for between 13 May and 10 June 2019

The latitude and longitude for the piling activity in the above highlighted area is referenced in the Table 4 below.

Table 4 - Coordinates for piling activity area expected for between 13 May and 10 June 2019

| WGS84 |  |
| :---: | :---: |
| Latitude | Longitude |
| $58^{\circ} 13.274^{\prime} \mathrm{N}$ | $2^{\circ} 35.651^{\prime} \mathrm{W}$ |
| $58^{\circ} 13.338^{\prime} \mathrm{N}$ | $2^{\circ} 43.185^{\prime} \mathrm{W}$ |
| $58^{\circ} 16.309^{\prime} \mathrm{N}$ | $2^{\circ} 43.100^{\prime} \mathrm{W}$ |
| $58^{\circ} 16.272^{\prime} \mathrm{N}$ | $2^{\circ} 38.561^{\prime} \mathrm{W}$ |
| $58^{\circ} 14.305^{\prime} \mathrm{N}$ | $2^{\circ} 35.618^{\prime} \mathrm{W}$ |

The above figure and coordinates for the area where piling works are expected in the month ahead will be updated on a weekly basis through the Weekly Notice of Operations together with confirmation of the piles that have been installed in the previous week.

| MORAY EAST | Issue Date | $13 / 05 / 2019$ |
| :--- | :--- | :--- |
| WEEKLY NOTICE OF OPERATIONS | Ref: 8460001 -PCO010-MWE-REP-006 | Rev: 01 |

## 6 Guard Vessels

Kinnaird Marine Limited has been appointed by Moray East to provide guard vessels during the piling campaign. Apart from times of extreme weather, there will always be at least one guard vessel on station during piling operations. The guard vessel's primary duty is security of the construction site by informing and warning non-construction vessels of the ongoing activities and associated Safety Zones.

Mariners are requested to navigate with caution and keep continued watch on VHF Ch. 16, 87 and 73 when navigating the area.

### 6.1 Guard Vessel - GV Replenish

| GV Replenish |  |
| :---: | :---: |
| General Description and Dimensions: | Guard Vessel <br> LOA: 24.36 m, Beam: 7.17 m, Draught 3.48 m |
| Call Sign: | MASY7 |
| MMSI: | 235055180 |
| On Board Contact: | Master |
| Offshore Manager / Party Chief: | N/A |
| E-mail: | gvreplenish@gmail.com |
| Onshore Representative: | Enrique Alvarez |
|  |  |


| MORAY EAST | Issue Date | $13 / 05 / 2019$ |
| :--- | :--- | :--- |
| WEEKLY NOTICE OF OPERATIONS | Ref: 8460001 -PC0010-MWE-REP-006 | Rev: 01 |

### 6.2 Guard Vessel - KMS Ability N294

| KMS Ability N294 |  |
| :--- | :--- |
| General Description and Dimensions: | Guard Vessel <br> LOA: 23.14 m, Beam: 6.63 m, Draught: 3.20 m |
| Call Sign: | MDFW3 |
| MMSI: | 235014666 |
| On Board Contact: | Master |
| Offshore Manager / Party Chief: | N/A |
| E-mail: | gvability@gmail.com |
| Onshore Representative: | Enrique Alvarez |



| MORAY EAST | Issue Date | $13 / 05 / 2019$ |
| :--- | :--- | :--- |
| WEEKLY NOTICE OF OPERATIONS | Ref: 8460001-PC0010-MWE-REP-006 | Rev: 01 |

## 7 General Safety Advice

Please be aware that by virtue of its mode of operation and the equipment deployed, the EDT Kennedy (boulder relocation works), the Coral Wind (subsea debris survey work), the MV Apollo and the MV Normand Service (piling operations) will be Restricted in its Ability to Manoeuvre (RAM) as defined under COLREGs (International Regulations for Preventing Collisions at Sea 1972, Rule 3). Masters of vessels are therefore requested to maintain their vessels and gears at a minimum safe distance from these vessels of 500 metres when it is undertaking it work and showing the appropriate shapes and lights in accordance with COLREGs Rule 18.

In order to not compromise the safety of the EDT Kennedy, the Coral Wind, the MV Apollo and the MV Normand Service, the crew of each, and each vessel's ability to undertake its contracted works, fishermen who have static fishing gears deployed within the defined Moray East site (see Figure 2) are requested to provide the coordinates of such deployed gears in DMS and details of whether the surface markers used are visible at all states of visibility to Jen Miller using the below contact information (Section 58 of the Merchant Shipping Act 1995).

Fishermen who have static gears deployed beyond 12 nm are reminded that static gear must be marked in accordance with Commission Implementing Regulation (EU) No. 404/2011 (https://www.gov.uk/guidance/marking-of-fishing-gear-retrieval-and-notification-of-lost-gear\#marking-of-fishing-gear).

The Secretary of State has authorised the use of the following safety zones as per Notice to Mariners to follow:

1. A 500 metre radius around each WTG and OSP where construction works are taking place that include sensitive activities being undertaken by vessels RAM. A maximum of three of such zones is permitted at any one time.
2. A 50 metre radius around partially completed WTGs and OSPs where work is not underway and the risk assessments identify a need.
3. A 50 metre radius around each completed WTG and OSP prior to commissioning and as required by a risk assessment process.

All mariners are requested to give all construction and support vessels a wide berth.
Mariners are requested to navigate with caution, to use all means appropriate to aid safe navigation as defined under COLREGs Rule 7, and keep continued watch on VHF Ch. 16, 87 and 73 when navigating the area.

## 8 Fisheries Liaison

Fisheries liaison associated with the activity will be co-ordinated by Brown and May Marine. For any commercial fishery queries please contact:

Jen Miller - Brown and May Marine Ltd.
Email: jen.miller@brownmay.com
Tel: +44 1379872148 / + 447519106002

| MORAY EAST | Issue Date | $13 / 05 / 2019$ |
| :--- | :--- | :--- |
| WEEKLY NOTICE OF OPERATIONS | Ref: 8460001-PC0010-MWE-REP-006 | Rev: 01 |

Fisheries liaison support is also available through the Fisheries Liaison Officer onboard of the MV Apollo. Contacts provided below:

Name: William Spence
Email: williamspence14@yahoo.co.uk
Mobile: +44 7773880786

## 9 Distribution List

The distribution of this notice is as per email recipient's header. A central list of recipients is maintained by the Marine Coordinator; if you are not the appropriate recipient of these notices, or do not wish to receive the notices in the future, please contact us at the address included in Section 1 of this notice.

## 10 Website

The official website of Moray Offshore Windfarm (East) Limited can be found at:
http://www.morayoffshore.com/moray-east/the-project/
This website will contain all Notices to Mariners (NtMs) published by Moray East during the construction phase of the project, Weekly Notices of Operations and general information about the project.

