

Neart na Gaoithe

DOCUMENT REF: NNG-NNG-ECF-NOT-0382



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Notice number: 137

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Construction of the Neart na Gaoithe (NnG) Offshore Wind Farm is ongoing. This notice is updated weekly giving information on the progress and resources involved in the offshore works. The intention is to give an overview of activities and vessels involved. Questions regarding the operations are welcomed.

Current works include.

- 1. Guard vessel duties (Section 3.1)
- 2. Pile Installation (Section 3.2)
- 3. South Offshore Substation Commissioning (Section 3.3)
- 4. Foundation Drilling and Casing Installation (Section 3.4)
- 5. North Offshore Substation Commissioning (Section 3.5)

1 Project Location

The following tables and figures illustrate the boundaries, safety zones and exclusions applicable to the Neart na Gaoithe wind farm area and export cable corridor.

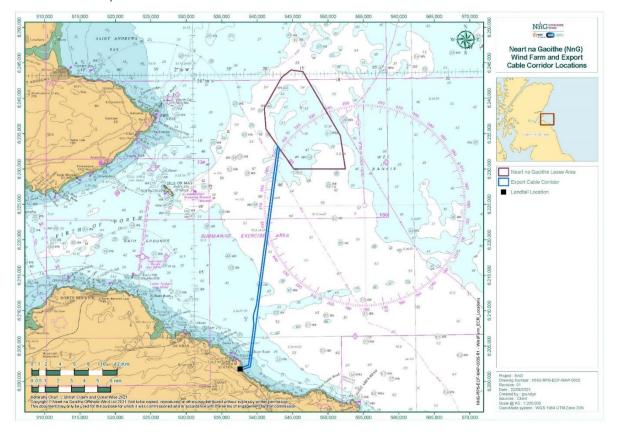


Figure 1 - Wind Farm Area and Export Cable

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Table 1 - Wind Farm Area and Export Cable Coordinates

| Wind Farm Area Coordinates (WGS84) | | |
|------------------------------------|----------------|--|
| LONGITUDE (DDM) | LATITUDE (DDM) | |
| 002° 09.898' W | 56° 15.271' N | |
| 002° 09.255' W | 56° 12.721' N | |
| 002° 13.998' W | 56° 12.752' N | |
| 002° 16.293' W | 56° 12.766′ N | |
| 002° 19.628' W | 56° 15.479' N | |
| 002° 20.055' W | 56° 15.827' N | |
| 002° 20.232' W | 56° 17.430′ N | |
| 002° 17.826' W | 56° 19.752' N | |
| 002° 16.518' W | 56° 20.312' N | |
| 002° 14.910' W | 56° 20.171' N | |

| Export Cable Corridor Coordinates (WGS84) | | |
|---|----------------|--|
| LONGITUDE (DDM) | LATITUDE (DDM) | |
| 2° 22.472' W | 55° 57.734' N | |
| 2° 23.539' W | 55° 57.541' N | |
| 2° 23.802' W | 55° 57.584' N | |
| 2° 23.820' W | 55° 57.609' N | |
| 2° 23.636' W | 55° 57.693' N | |
| 2° 22.729' W | 55° 57.866' N | |
| 2° 21.938' W | 56° 00.990' N | |
| 2° 21.951' W | 56° 01.007' N | |
| 2° 22.005' W | 56° 01.449' N | |
| 2° 22.004' W | 56° 01.552' N | |
| 2° 21.932' W | 56° 01.795' N | |
| 2° 21.563' W | 56° 02.468' N | |
| 2° 18.479' W | 56° 14.546' N | |
| 2° 18.237' W | 56° 14.349' N | |

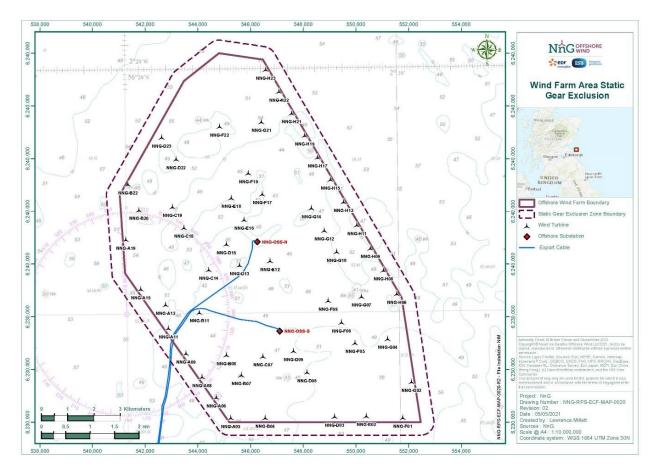


Figure 2 - Wind Farm Area Static Fishing Gear Exclusion

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Table 2 - Wind Farm Area Static Fishing Gear Exclusion Coordinates

| Longitude (DDM) | Latitude (DDM) |
|-----------------|----------------|
| 002° 20.566' W | 56° 15.680' N |
| 002° 20.849' W | 56° 17.468' N |
| 002° 18.242' W | 56° 19.938' N |
| 002° 16.611' W | 56° 20.613′ N |
| 002° 14.363′ W | 56° 20.392' N |
| 002° 09.300' W | 56° 15.334' N |
| 002° 08.661' W | 56° 12.651' N |
| 002° 09.058' W | 56° 12.405' N |
| 002° 16.505' W | 56° 12.410′ N |

2 **Completed Operations**

2.1 **Foundations Installation**

Casing and pile installation operations have been successfully completed at the orange shaded locations listed in Table 3. Casing only installation operations have been completed at the grey shaded locations and locations where jacket installation has been completed are shaded green. More information can be found at: https://nngoffshorewind.info/.

Table 3 – Centre coordinates of Turbine Locations and Offshore Substation Platforms with completed locations shaded.

| ID | LONGITUDE (DD.MM.MMM) | LATITUDE (DD.MM.MMM) | TURBINE ID | LONGITUDE (DD.MM.MMM) | LATITUDE (DD.MM.MMM) |
|---------|--------------------------|-------------------------|------------|--------------------------|-------------------------|
| NNG-A13 | 002° 18.580′ W | 56° 15.153′ N | NNG-F22 | 002° 16.536′ W | 56° 18.785′ N |
| NNG-A11 | 002° 18.489′ W | 56° 14.668′ N | NNG-F19 | 002° 15.487′ W | 56° 17.828′ N |
| NNG-A09 | 002° 17.845′ W | 56° 14.153′ N | NNG-F17 | 002° 14.978′ W | 56° 17.394′ N |
| NNG-A08 | 002° 17.267′ W | 56° 13.665′ N | NNG-F08 | 002° 12.603′ W | 56° 15.198′ N |
| NNG-A06 | 002° 16.755′ W | 56° 13.248′ N | NNG-F06 | 002° 12.129′ W | 56° 14.751′ N |
| NNG-A05 | 002° 16.231′ W | 56° 12.822′ N | NNG-F05 | 002° 11.632′ W | 56° 14.330′ N |
| NNG-B22 | 002° 19.921′ W | 56° 17.623′ N | NNG-G21 | 002° 14.988′ W | 56° 18.873′ N |
| NNG-B20 | 002° 19.521′ W | 56° 17.097′ N | NNG-G14 | 002° 13.181′ W | 56° 17.095′ N |
| NNG-B11 | 002° 17.341′ W | 56° 14.989′ N | NNG-G12 | 002° 12.715′ W | 56° 16.640′ N |
| NNG-B08 | 002° 16.365′ W | 56° 14.109′ N | NNG-G10 | 002° 12.270′ W | 56° 16.197′ N |
| NNG-B07 | 002° 15.822′ W | 56° 13.695′ N | NNG-G07 | 002° 11.379′ W | 56° 15.279′ N |
| NNG-B04 | 002° 14.964′ W | 56° 12.817′ N | NNG-G04 | 002° 10.435′ W | 56° 14.405′ N |
| NNG-C19 | 002° 18.293′ W | 56° 17.155′ N | NNG-G02 | 002° 09.572′ W | 56° 13.520′ N |
| NNG-C18 | 002° 17.882′ W | 56° 16.725′ N | NNG-H23 | 002° 14.806′ W | 56° 19.943′ N |
| NNG-C14 | 002° 16.984′ W | 56° 15.858′ N | NNG-H22 | 002° 14.322′ W | 56° 19.488′ N |
| NNG-C07 | 002° 15.017′ W | 56° 14.076′ N | NNG-H21 | 002° 13.865′ W | 56° 19.043′ N |
| NNG-D23 | 002° 18.666′ W | 56° 18.572′ N | NNG-H19 | 002° 13.397′ W | 56° 18.588′ N |
| NNG-D22 | 002° 18.135′ W | 56° 18.127′ N | NNG-H17 | 002° 12.932′ W | 56° 18.134′ N |



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| ID | LONGITUDE (DD.MM.MMM) | LATITUDE (DD.MM.MMM) | TURBINE ID | LONGITUDE (DD.MM.MMM) | LATITUDE (DD.MM.MMM) |
|-----------|--------------------------|-------------------------|------------|--------------------------|-------------------------|
| NNG-D15 | 002° 16.321′ W | 56° 16.376′ N | NNG-H15 | 002° 12.466′ W | 56° 17.677′ N |
| NNG-D13 | 002° 15.848′ W | 56° 15.946′ N | NNG-H13 | 002° 11.997′ W | 56° 17.214′ N |
| NNG-D06 | 002° 13.894′ W | 56° 14.179′ N | NNG-A19 | 002° 20.015′ W | 56° 16.490′ N |
| NNG-D05 | 002° 13.417′ W | 56° 13.744′ N | NNG-A15 | 002° 19.484′ W | 56° 15.474′ N |
| NNG-D03 | 002° 12.421′ W | 56° 12.828′ N | NNG-F01 | 002° 09.915′ W | 56° 120790′ N |
| NNG-E18 | 002° 16.122′ W | 56° 17.324′ N | NNG-H11 | 002° 11.513′ W | 56° 16.740′ N |
| NNG-E16 | 002° 15.658′ W | 56° 16.874′ N | NNG-H09 | 002° 11.027′ W | 56° 16.263′ N |
| NNG-E12 | 002° 14.720′ W | 56° 16.029′ N | NNG-H08 | 002° 10.555′ W | 56° 15.808′ N |
| NNG-E02 | 002° 11.251′ W | 56° 12.829′ N | NNG-H06 | 002° 10.079′ W | 56° 15.324′ N |
| NNG-OSS-N | 002° 15.193' W | 56° 16.446' N | NNG-OSS-S | 002° 14.395' W | 56° 14.615' N |

3 Ongoing Operations

This section outlines the ongoing operations in the Project Areas, for full details regarding the activity, the applicable Notice to Mariners (NtM) can be found on our website at https://nngoffshorewind.com/resources/.

3.1 Guard Vessels

SFF Services has been appointed by NnGOWL to provide guard vessels during the construction of NnG Offshore Wind Farm. Apart from times of extreme weather, there will always be at least one guard vessel on site, to cover the Wind Farm Area. There is also currently at least one guard vessel on the Export Cable Corridor until works are complete. 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. The guard vessels present on site as of the date of issue, are shaded in blue in Table 4. The guard vessel details are provided in Section 8.1.

Table 4 - Guard Vessel Project Rotation

| Guard Vessel | Start Date | End Date | Guard Vessel Area |
|--------------|------------|------------|-------------------|
| Seagull | 26/03/2023 | 16/04/2023 | Wind Farm Area |
| Tranquillity | 16/04/2023 | 07/05/2023 | Wind Farm Area |

3.2 Pile Installation

Description (NtM 148 Rev 4.0)

In preparation for jacket substructure installation, three piles at each wind turbine location and offshore substation platform will be installed. The Saipem (S3000) (call sign: C6SW6) is installing piles into pre-drilled sockets. The Normand Navigator (call sign: LASG7) will transfer supporting materials and installation equipment between positions on the seabed adjacent to each foundation location. On arrival at each location, the S3000 will collect and utilise this wet-stored equipment during pile installation. Once the three piles have been positioned within the pre-drilled sockets, grout will be inserted to secure them in place.



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Description (NtM 148 Rev 4.0)

The supply vessel *Rem Supporter* (call sign: 5BCN3), will be utilised to transport piles to NnG wind farm, as required. The 500m static fishing gear exclusion zone around the Wind Farm Area remains, as shown in Figure 2 and Table 2. Further details of the vessels involved in the works is provided in Section 8.2.

| Vessels | Type / Role | Timescales |
|-------------------|------------------------------|--|
| S3000 | Installation Vessel | The pile installation work is anticipated to be completed in 2023. |
| Normand Navigator | Offshore Construction Vessel | III 2023. |
| Rem Supporter | Offshore Supply Vessel | |

Area

Project Location: Wind Farm Area, shown in Table 1 and Figure 1

Operational Port: Blyth. On occasion the *S3000* will transit to a location near to the Isle of May to complete pile transfers from the Rem Supporter.

3.3 South Offshore Substation Commissioning

Description (NtM 177 Rev 9.0)

Mariners are advised that Neart na Gaoithe Offshore Wind Farm Limited (NnGOWL) that commissioning works of the South offshore substation is currently ongoing within the NnG Wind Farm Area.

Personnel are being transported to and from the South OSS topside by Crew Transfer Vessel (CTV) the *Rix Lion* (call sign: 2HOH3).

The *MMS Supreme* (call sign: 2HGZ5) vessel will be replacing the *MCS Kaver* vessel (call sign: 2GMB8) as additional crew transfer vessel, if required commencing 26th March 2023. Further details of the vessels involved in the works is provided in Section 8.3.

| Vessels | Type / Role | Timescales |
|-------------|-------------|--|
| Rix Lion | CTV | OSS commissioning commenced in early June 2022 and |
| MMS Supreme | CTV | will continue throughout 2023. |

Area

| | LONGITUDE (DD.MM.MMM) | LATITUDE (DD.MM.MMM) |
|-----------|-----------------------|----------------------|
| NNG-OSS-S | 002° 14.395' W | 56° 14.615' N |

3.4 Drilling and Casing Installation

Description (NtM 178 Rev 4.0)

Mariners are advised that NnGOWL has commenced drilling operations and casing installation within the Neart Na Gaoithe (NnG) Wind Farm Area.



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Three sockets will be drilled into the seabed and three steel casings installed at each wind turbine location, to in turn enable pile and jacket installation. Ahead of drilling commencing, the *\$3000* (call sign: C6SW6) will place a subsea template on the seabed, to guide drilling. Drilling and casing installation will then be undertaken from the *Blue Tern* (call sign: 9HA5208). Drilling operations and casing installation will be supported by the Normand Navigator (call sign: LASG7) as required.

The *MMS Supreme* (call sign: 2HGZ5) will be replacing *MCS Kaver* vessel (call sign: 2GMB8) as the crew transfer vessel commencing 26th March 2023.

Further details of the vessels involved in the works is provided in Section 8.4.

| Vessels | Type / Role | Timescales |
|-------------------|---------------------|---|
| Blue Tern | Jack-up Vessel | The drilling and casing installation campaign is expected |
| S3000 | Installation Vessel | to continue through to 2023. |
| Normand Navigator | OCV | |
| Rem Supporter | OSV | |
| MMS Supreme | CTV | |

Area

Project Location: Wind Farm Area, shown in Table 1 and Figure 1

Operational Port: Blyth.

3.5 North Offshore (OSS-N) Substation Commissioning Works

Description (NtM 177 Rev 7.0)

Mariners are advised that Neart na Gaoithe Offshore Wind Farm Limited (NnGOWL) commenced commissioning of the North offshore substation topside within the Neart Na Gaoithe (NnG) Wind Farm Area.

Commissioning activities for the North offshore substation commenced on the 15th of February 2023. The *VOS Stone* (call sign: PBMW) walk to work vessel is supporting the commissioning works. The contact details for the *VOS Stone* vessel have been updated.

The CTV Rix Lion (call sign: 2HOH3) will continue to support the South offshore substation commissioning activities and will also support the North offshore substation commissioning activities as required.

Further details of the vessels involved in the works is provided in Section 8.3.

| Vessels | Type / Role | Timescales |
|-----------|----------------------|--|
| VOS Stone | Offshore Supply Ship | The commissioning works is anticipated to continue |
| Rix Lion | Crew Transfer Vessel | throughout summer 2023. |

Area

Project Location: Wind Farm Area, shown in Table 1 and Figure 1

Operational Port: Blyth. Upon adverse weather conditions, vessels will seek shelter either around Isle of May or within the Firth of Forth.



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4 Planned Works

Description (NtM 187 Rev 4.0)

Mariners are advised that Neart na Gaoithe Offshore Wind Farm Limited (NnGOWL) are due to conduct a pre-lay grapnel run (PLGR) and commence of cable lay out for the first campaign of six inter-array cables, and one interconnector between the two offshore substations (OSS), within the Neart na Gaoithe Offshore Wind Farm site. The works are due to begin on the 29th of March, at the earliest.

The PLGR will be completed by the vessel *BB Ocean* (call sign: LFBI) using a grapnel towed from the vessel. The grapnel will be deployed to detect and remove surface debris located on the inter-array cable routes, and at the wind turbine, offshore substation topside and jack-up locations. Debris caught by the grapnel will be recovered to deck and retained on board the vessel for disposal onshore. Should fishing gear be caught, efforts will be taken to identify ownership and return. The PLGR works are due to begin on the 29th of March, at the earliest.

A Cable Lay Vessel, the *Viking Neptun* (call sign: LAYH7), will lay the inter-array cable onto the seabed following the sequence shown in Figure 2 and Table 2. The same operation will be repeated at all locations including the interconnector between the two OSS. The inter-array cables are connected to the substations in 6 loops (3 per OSS), whereas a single interconnector connects OSS-S to OSS-N. The laid inter-array and interconnector cables will be left unburied and unprotected on the seabed until July 2023.

The *Horizon Enabler* (call sign: 8PBK2) walk to work vessel will support these operations. More details of all the vessels can be found below. Details of the crew transfer vessel will be updated in a subsequent NtM.

This is the first campaign of PLGR, and inter-array cables lay out. Future campaigns will commence between July and November 2023. Cables laid in subsequent campaigns are expected to be buried immediately following installation. Further information about these campaigns will be issued in subsequent NtMs.

| Vessels | Type / Role | Timescales |
|-----------------|------------------------|---|
| Horizon Enabler | Survey Vessel | The MBES survey works completed on the 10 th of March 2023. PLGR works are anticipated to commence on the 28 th of March 2023, at the earliest. |
| BB Ocean | Anchor Handling Vessel | The PLGR works are due to begin on the 29 th of March, at the earliest and last for 1 day. |
| Viking Neptun | Cable Lay Vessel | Cable installation works to commence on the 10 th of April 2023, at the earliest. |

Area

Project Location: Wind Farm Area, shown in Table 1 and Figure 1

Operational Port: Oostende, Belgium. Upon adverse weather conditions, vessels will seek shelter either around Isle of May or within the Firth of Forth.



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5 General Safety Advice

All vessels engaged in the construction 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. Mariners are requested to navigate with caution and keep continued watch on VHF Ch. 16, when navigating the area.

Please be aware that by virtue of their mode of operation and the equipment deployed vessels will be Restricted in their 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.

Use of Safety Zones within the Neart na Gaoithe Offshore Wind Farm Construction Area is as follows:

Mandatory "rolling" 500 metres (m) Safety Zones will be established around each wind farm structure (turbines
and Offshore Substation Platforms (OSP)) and/or their foundations whilst construction works are in progress,
as indicated by the presence of a construction vessel. Up to ten of these Safety Zones may be active at any
given time.

The duty Guard Vessels and Marine Coordination Centre will be responsible for monitoring and policing the Safety Zones; and can be contacted directly for advice. Users are advised to keep clear of construction activities, including Safety Zones.

6 Fisheries Liaison

Fisheries liaison associated with the activity will be co-ordinated by the Company Fisheries Liaison Officer. For any commercial fishery queries please contact: Peter Berney, telephone: +44 (0)7391 402387 or email: Nng.FLO@naturalpower.com. An Offshore Fisheries Liaison Officer is present on the *Saipem 3000* and can be contacted on Ch16. For any other general queries please contact info@nngoffshorewind.com.

7 Marine Coordination Contact Details

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. The contact details for the marine coordination centre are indicated in Table 5.

Table 5 – Marine Coordination Contact Details

| Telephone number (daytime operations): | +44 (0)7508421406 / +44 (0)1890 751415 |
|--|---|
| Emergency contact (24/7): | +44 (0)7508421406 / +44 (0)1890 751415 |
| Email: | nng.mc@smchse.com |
| Address: | NnG Offshore Wind Farm Marine Coordination Centre Gunsgreen Basin |
| | Eyemouth TD14 5SD |

8 Vessels Associated with the Activity

| Vessel | Vessel Function | Vessel Contact Details | Vessel Information |
|-------------------|-----------------|--------------------------------|-----------------------|
| 8.1 Guard Vessels | | | |
| Tranquillity S | Guard Vessel | Contact Name: Greg Wood | Call sign: MJUH9 |
| | | Email: <u>G.Wood@ssf.co.uk</u> | IMO: N/A |



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| Vessel | Vessel Function | Vessel Contact Details | Vessel Information |
|------------------------------|--|---|--|
| | | Phone: +44 (0) 780 389 4733 (24hr) | MMSI: 235053837 |
| Seagull | Guard Vessel | Contact name: Vessel Master Email: seagullbf74@gmail.com Phone: +44 (0) 1261 878040 / +44 (0) 7895 919100 | Call sign: MVBO2 IMO: 9112545 MMSI: 233714000 |
| 8.2 Pile Installation | | | |
| Saipem 3000 (S3000) | Pile Installation | Contact name: Vessel Master Email: captain.s3000@saipem.com Phone: +39 02 010 24650 | Call sign: C6SW6 IMO: 8309165 MMSI: 311516000 |
| Normand Navigator | Type: Offshore Supply Vessel (OSV) Function: Offshore Construction Support | Contact name: Master of Normand Navigator Email: master@navigator.solstad.com Phone (Iridium): +881677102711 | Call sign: LASG7 IMO: 9687356 MMSI: 257794000 |
| Rem Supporter | Type: Platform Supply Vessel (PSV) Function: Transport supplies to NnG offshore wind farm. | Contact name: Master of Rem Supporter Email: captain@supporter.remoffshore.no Phone (FBB): +870773946639 | Call sign: 5BCN3 IMO: 9482330 MMSI: 209051000 |
| 8.3 Offshore Substation Comm | nissioning | | |
| Rix Lion | CTV | Contact name: Ships Master (Will be rotated with shifts) | Call sign: 2HOH3 |
| | | Email: rix.lion@rix.co.uk | IMO: 9745706 MMSI: 235105282 |



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| Vessel | Vessel Function | Vessel Contact Details | Vessel Information |
|--|---------------------------|--|---|
| Thus the same of t | | Phone: +447702 975599 | |
| MMS Supreme | CTV | Contact name: Master. Email: mmssupreme@mms-offshore.co.uk Phone: +44 (0) 7741 576 452 | Call sign2HGZ5 MMSI: 235103595 IMO: 9741073 |
| VOS Stone | Offshore Supply Ship | Contact name: Master Onboard Mobile: +31 629584362 V-Sat (Bridge): +31 858886069 Iridium (Bridge): +88 1677104825 E-mail: bridge@vosstone.fleetvroon.com | Call sign: PBMW IMO: 9730517 MMSI: 244030181 |
| 8.4 Commencement of Drilling | and Casing Installat | ion | |
| Blue Tern | Jack-up Vessel | Contact name: Blue Tern Master Email: master.blt@fredolsen.com Phone: +47 5100 5334 or +47 5120 6200 | Call sign: 9HA5208 IMO: 9598737 MMSI: 215644000 |
| 8.5 PLGR Works and Cable Installa | Malk to Work | | Call sign: |
| Horizon Enabler | Vessel | Contact name: Mobile Captain Email: Captain.enabler@horizonmaritime.com Phone: +1 (709) 770 8383 | Call sign: V7A4270 IMO: 9723667 MMSI: 538009069 |
| BB Ocean | Anchor Handling Vessel | Contact name: Mobile Captain Email: bbocean.skipper@bube.no / bbocean@bube.no | Call sign: LFBI IMO: 9196503 |



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| Vessel | Vessel Function | Vessel Contact Details | Vessel Information |
|--|------------------|--|---|
| Manufacture and American Ameri | | Phone: +47 9018 8588 | MMSI: 258825000 |
| Viking Neptun Dernal Pomore Marrant Johnson | Cable Lay Vessel | Contact name: Mobile Captain Email: Captain.VikingNeptun@demegroup.com/ Bridge.VikingNeptun@demegroup.com Phone: +47 9746 9156 | Call sign: LAYH7 IMO: 9664902 MMSI: 258789000 |