Date of issue:	15/01/2021
Period covered:	06/01/21 – 20/01/2021
Notice number:	023
Author:	Liam Rogers

Construction of the Neart na Gaoithe (NnG) Offshore Wind Farm has commenced. 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, preferably well in advance of each construction activity.

Current works include;

1. Casing and pile installation within the wind farm area (Section 3.1);
2. Guard vessel duties (Section 3.2).

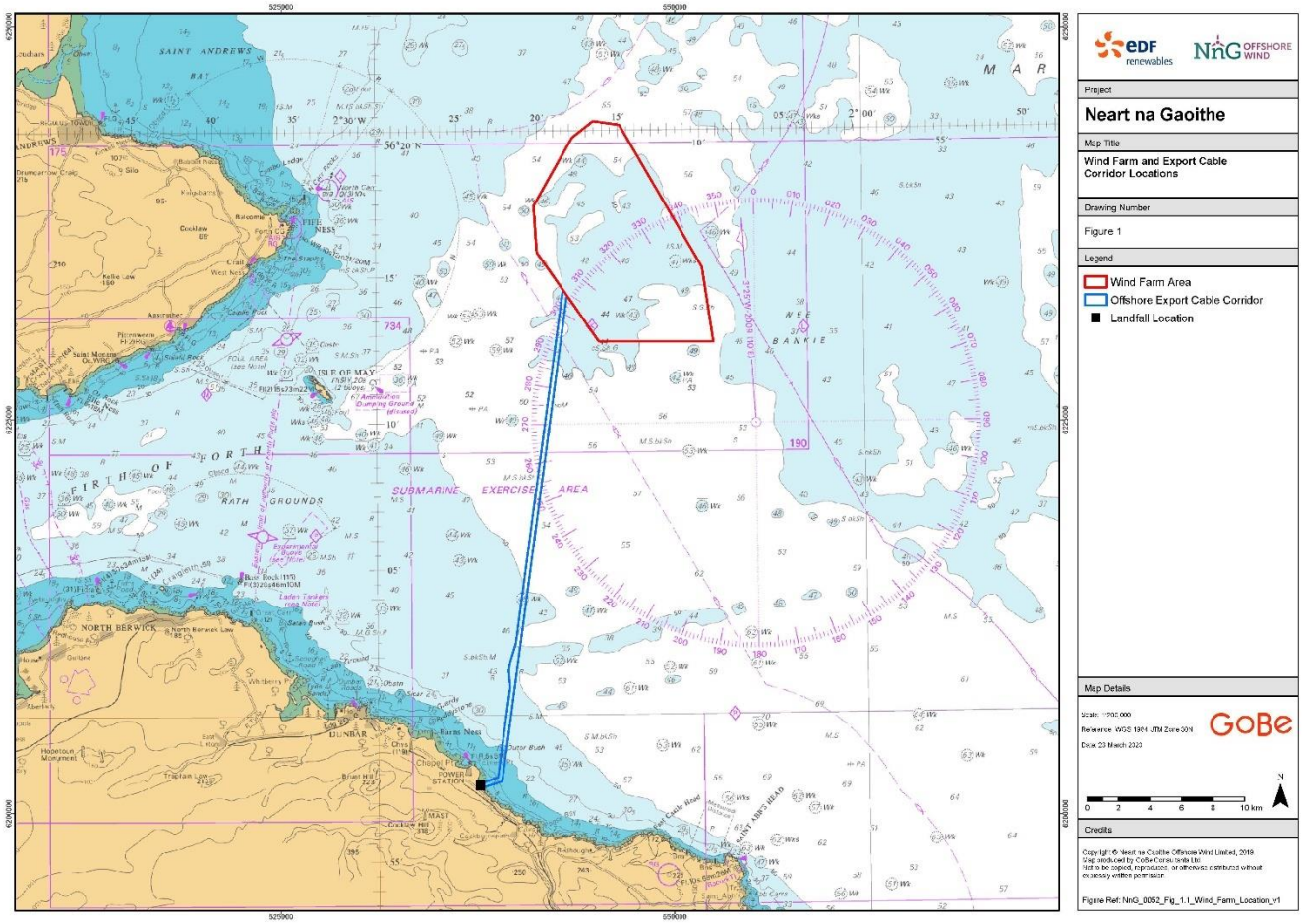

Figure 1 Neart na Gaoithe (NnG) Offshore Wind Farm area and Export Cable Corridor

1 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.

Table 1 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

2 Completed Operations

2.1 Drilling and Casing Installation

Casing Installation Operations have been successfully completed at the locations listed below, by Saipem Ltd. The co-ordinates of each casing installed and the casing stick-up (above seabed) are also provided in Table 2.

For further information relating to the Casing Installation operations, please visit: https://nngoffshorewind.info/. In future weekly notices, the below table will be removed as this will be available at this website instead and updated regularly.

Table 2 Casing Installation – Completed Locations

Turbine ID	Pile Location 1 (P1)		Pile Location 2 (P2)		Pile Location 3 (P3)	
	LONGITUDE (DD.MM.MMM)	LATITUDE (DD.MM.MMM)	LONGITUDE (DD.MM.MMM)	LATITUDE (DD.MM.MMM)	LONGITUDE (DD.MM.MMM)	LATITUDE (DD.MM.MMM)
	CASING STICK-UP (m)		CASING STICK-UP (m)		CASING STICK-UP (m)	
NNG-A15	2° 19.475' W	56° 15.482' N	2° 19.501' W	56° 15.474' N	2° 19.476' W	56° 15.466' N
	1.922m		1.604m		1.830m	
NNG-F01	2° 9.906' W	56° 12.798' N	2° 9.931' W	56° 12.790' N	2° 9.907' W	56° 12.782' N
	1.221m		1.112m		1.011m	
NNG-B07	2° 15.813' W	56° 13.703' N	2° 15.838' W	56° 13.694' N	2° 15.813' W	56° 13.686' N
	1.256m		1.288m		1.213m	
NNG-D15	2° 16.312' W	56° 16.384' N	2° 16.337' W	56° 16.376' N	2° 16.312' W	56° 16.368' N
	1.240m		1.444m		1.477m	
NNG-A06	2° 16.746' W	56° 13.256' N	2° 16.771' W	56° 13.248' N	2° 16.746' W	56° 13.240' N
	1.899m		1.819m		2.070m	
NNG-A08	2° 17.257' W	56° 13.672' N	2° 17.282' W	56° 13.665' N	2° 17.257' W	56° 13.656' N
	0.370m		0.369m		0.369m	
NNG-D22	2° 18.127' W	56° 18.135' N	2° 18.152' W	56° 18.127' N	2° 18.127' W	56° 18.119' N

Turbine ID	Pile Location 1 (P1)		Pile Location 2 (P2)		Pile Location 3 (P3)	
	LONGITUDE (DD.MM.MMM)	LATITUDE (DD.MM.MMM)	LONGITUDE (DD.MM.MMM)	LATITUDE (DD.MM.MMM)	LONGITUDE (DD.MM.MMM)	LATITUDE (DD.MM.MMM)
	CASING STICK-UP (m)		CASING STICK-UP (m)		CASING STICK-UP (m)	
	0.569m		0.200m		0.354m	
NNG-G10	2° 12.261' W	56° 16.204' N	2° 12.286' W	56° 16.196' N	2° 12.261'W	56° 16.188'N
	2.238m		1.738m		0.000m*	
NNG-F08	2° 12.594' W	56° 15.206' N	2° 12.619' W	56° 15.198' N	2° 12.594' W	56° 15.190' N
	1.707m		1.621m		1.708m	
NNG-F22	2° 16.527' W	56° 18.792' N	2° 16.552' W	56° 18.784' N	2° 16.527' W	56° 18.776' N
	0.936m		1.177m		1.164m	
NNG-H15	2° 12.457' W	56° 17.685' N	2° 12.482' W	56° 17.677' N	2° 12.457' W	56° 17.669'N
	1.263m		1.159m		1.441m	
NNG-H21	2° 13.856' W	56° 19.050' N	2° 13.881' W	56° 19.042' N	2° 13.856' W	56° 19.034' N
	1.120m		1.189m		0.987m	
NNG-F19	2° 15.478' W	56° 17.836' N	2° 15.503' W	56° 17.828' N	2° 15.478' W	56° 17.820' N
	1.282m		0.979m		1.307m	
NNG-A19	2° 20.006' W	56° 16.497' N	2° 20.031' W	56° 16.489' N	2° 20.006' W	56° 16.481' N
	1.268m		1.070m		1.469m	
NNG-B22	TBC**	TBC**	TBC**	TBC**	TBC**	TBC**
	TBC**		TBC**		TBC**	

*Note; The casing at NNG-G10 (P3) is below Mudline therefore is not creating a seabed obstruction.

**Note; The As-Built data for location NNG-B22 is pending therefore the Position and Stick-Up information is currently not available to NnG.

2.2 Export Cable Landfall - Marine Works

Neart na Gaoithe Offshore Wind Farm Limited (NnGOWL) have completed Phase 1 of the horizontal directional drill (HDD) campaign from the landfall location at Thorntonloch. The dive team have completed an inspection of the drill exit pit in the nearshore area of Thorntonloch Beach, however some further supporting marine works remain. It is anticipated that the works will remobilise in mid-January 2021 to enable completion by mid-February 2021.

The team of divers supported by two vessels, the Teal of Wick (ZQXM9) and Shuna (VQBP3), temporarily demobilised from the nearshore area of Thorntonloch on 19th December. A subsequent notice will be issued prior to the work restarting.

In order to facilitate the team of divers, the vessel has been stabilised on a mooring spread, marked by buoys. The exit pit is also marked temporarily by a surface marker buoy. The as-laid position of these marker buoys are provided in Table 3 and Figure 2 . These buoys remain in position and will be removed following the completion of the work.

Table 3 – Teal of Wick Mooring Point Coordinates & HDD Exit Pit

Mooring Point	Longitude (DDM)	Latitude (DDM)
1 - NW Mooring	002° 23.369’ W	55° 57.681’ N
2 - NE Mooring	002° 23.236’ W	55° 57.710’ N
3 - SE Mooring	002° 23.202' W	55° 57.656' N
4 - SW Mooring	002° 23.306' W	55° 57.626' N
Exit Pit Marker buoy	002° 23.296’ W	55° 57.676’ N

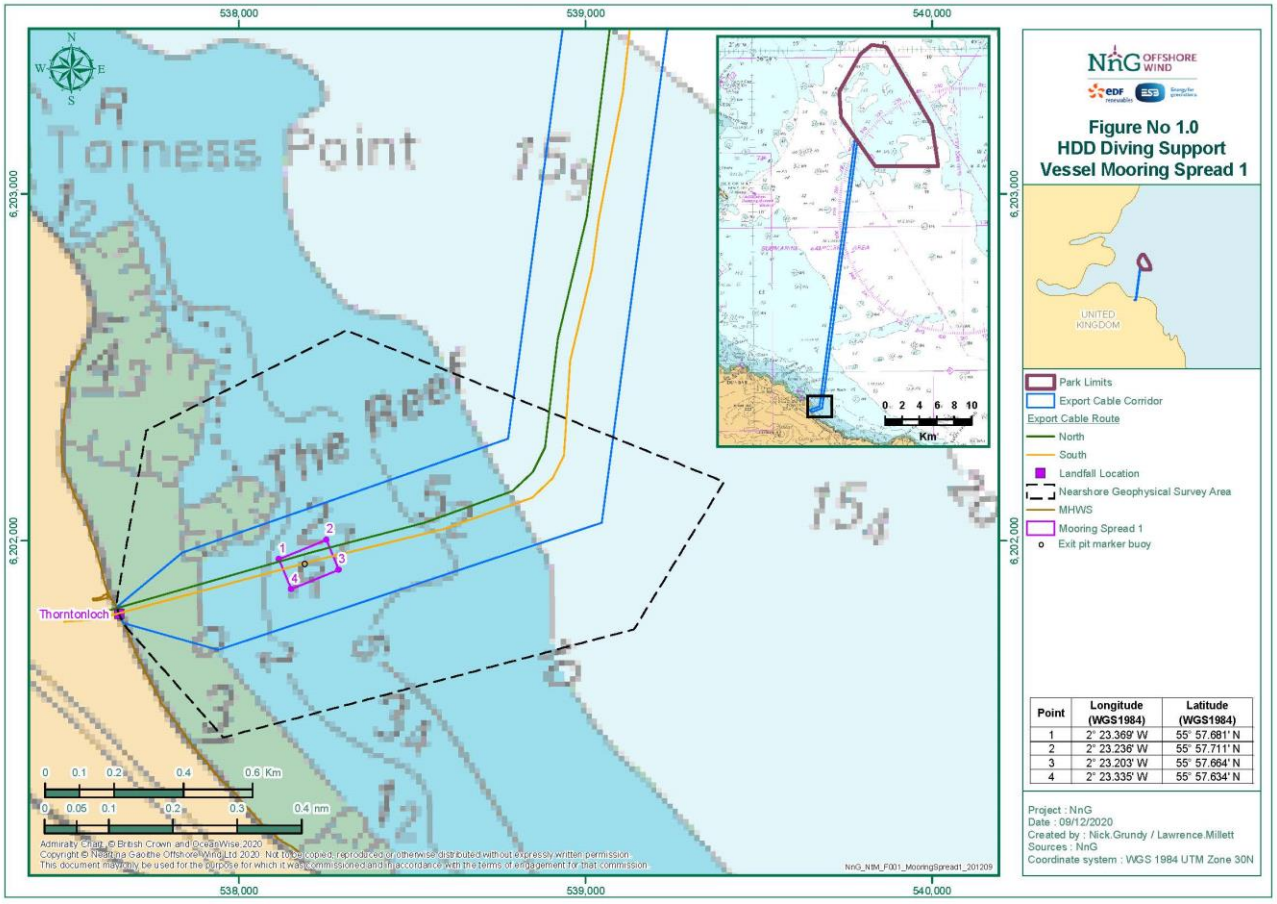

Figure 2 - Teal of Wick Mooring Point Coordinates & HDD Exit Pit

3 Ongoing Operations

3.1 Drilling and Casing Installation

Table 4 Details of Drilling and Casing Installation Operations

Contractor:	Saipem Ltd
Scope of operation:	Saipem Ltd has been contracted by Neart na Gaoithe (NnG) to undertake the Detailed Design under an EPCI Scope of Work. During this campaign, Saipem Ltd will drill out x3 rock-sockets and install x3 casings at each of

	the x54 Wind Turbine Generator (WTG) and x2 Offshore Substation (OSS) locations.
Area of operation:	OWF
Dates of operation:	10/08/20 – June 2021
Vessels supporting operation:	Saipem 7000 Sea Gull

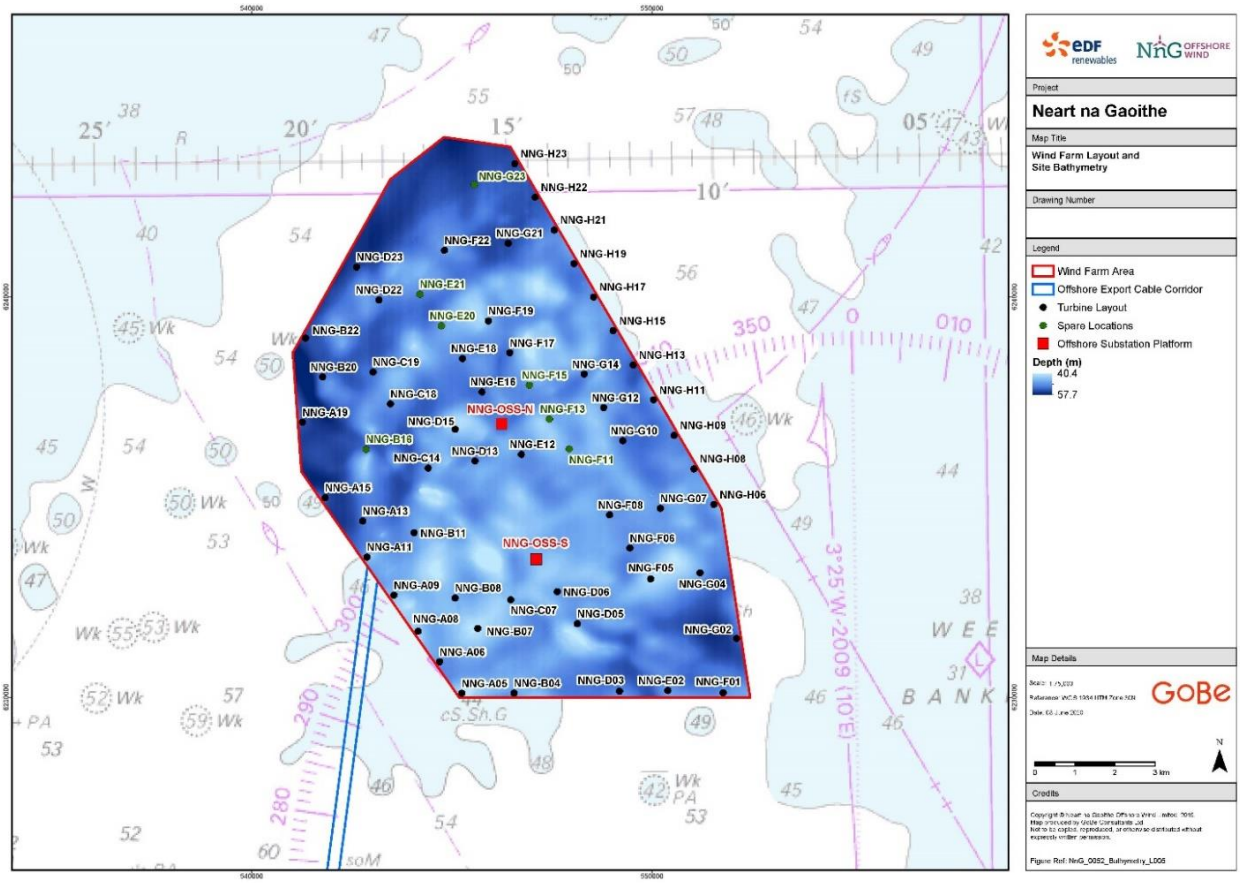

Figure 3 Location of NnG Turbine Locations within the Wind Farm Area

Table 5 Coordinates of NnG Turbine Locations and anticipated locations of work (green highlight) – complete locations are shaded (grey)

TURBINE 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

TURBINE ID	LONGITUDE (DD.MM.MMM)	LATITUDE (DD.MM.MMM)	TURBINE ID	LONGITUDE (DD.MM.MMM)	LATITUDE (DD.MM.MMM)
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
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

Table 6 Coordinates of NnG Offshore Substation Platform (OSP) Locations and first anticipated locations of work (green highlight)

OSP ID	LONGITUDE (DD.MM.MMM)	LATITUDE (DD.MM.MMM)	OSP ID	LONGITUDE (DD.MM.MMM)	LATITUDE (DD.MM.MMM)
NNG-OSS-S	002° 14.395' W	56° 14.615' N	NNG-OSS-N	002° 15.193' W	56° 16.446' N

Table 7 Casing Installation Vessel; Saipem 7000

Vessel name:	Saipem 7000
Vessel type and Dimensions:	Heavy Lift Vessel LOA: 175.0m, Beam: 87.0m, Draught: 27.5m (Operating)
Vessel role:	Drilling and Casing Installation.
Location of operations:	NNG-C19

	NNG-F17 NNG-B11
Call sign:	C6NO
Maritime Mobile Service Identity:	309461000
On board contact:	NnG Client Representative S7000-Rep@nngoffshorewind.com
Onshore representative:	Mick Hoyle Mick.hoyle@nngoffshorewind.com +44(0)7881102695
	

Table 8 Casing Supply Vessel; Sea Gull

Vessel name:	Sea Gull
Vessel type and Dimensions:	Platform Supply Vessel (PSV) LOA: 88.8m, Beam: 20.0m, Draught: 6.9m
Vessel role:	Transportation of casings from Marshalling Port (Leith) to S7000
Location of operations:	Leith – NnG Offshore Wind Farm as required
Call sign:	LAGK8
Maritime Mobile Service Identity:	257504000
On board contact:	NnG Client Representative S7000-Rep@nngoffshorewind.com
Onshore representative:	Mick Hoyle Mick.hoyle@nngoffshorewind.com +44(0)7881102695

Vessel name:	Sea Gull

3.2 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 two guard vessels on site, to cover the Wind Farm Area and Export Cable Corridor. 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.

As of Monday 18th January 2021, NnG will reduce the number of Guard Vessels operating on site from two, to one. NnG will assess the offshore construction activities planned and will increase the number of Guard Vessels when deemed necessary.

Table 9 Guard Vessel; Artemis

Vessel name:	Artemis
Vessel type and Dimensions:	Guard Vessel LOA: 27.69m, Beam: 8.7m, Draught: 5.1m
Vessel role:	Guard Vessel Duties
Location of operations:	Offshore Wind Farm until 18/01/2021
Call sign:	MVIX5
Maritime Mobile Service Identity:	233975000
On board contact:	Vessel Master concordebf47@aol.com
Onshore representative:	Martin Malone Martin.malone@nngoffshorewind.com +44(0)7880439480

Table 10 Guard Vessel; Tranquillity S

Vessel name:	Tranquillity S
Vessel type and Dimensions:	Guard Vessel LOA: 19.0m, Beam: 7.0m, Draught: 2.63m
Vessel role:	Guard Vessel Duties
Location of operations:	Offshore Wind Farm until 25/01/2021
Call sign:	MJUH9
Maritime Mobile Service Identity:	235053837
On board contact:	Vessel Master spousekeil@yahoo.com
Onshore representative:	Martin Malone Martin.malone@nngoffshorewind.com +44(0)7880439480
	

4 Planned Operations

NnGOWL will update this section of the report prior to any additional offshore operations commencing.

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. For any other general queries please contact info@nngoffshorewind.com .