

Notice to Activities Associated with the Development of Beatrice Offshore Wind Farm

Date of Issue	16 th July 2018	Notice Number	LF000005-NTM-051
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Please promulgate the following as a Notice to Mariners:

Inter-Array Cable, Third Installation Campaign

On Behalf of BOWL, Seaway Heavy Lifting will carry out the third campaign of the installation of inter array cables (IAC) in the Beatrice Offshore Windfarm construction site.

The Cable Laying Vessel Seaway Aimery supported by the Cable Support Vessel Siem Barracuda and Cable Trenching Vessel Grand Canyon will undertake the works described below commencing on 17th July 2018.

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) 3302 020329
Emergency Contact (24/7)	+44 (0) 7342 028207
Email for Marine Coordinator	MC.Bowl@sse.com
Address	Unit 1, Harbour Office Wick, Caithness KW1 5HA

2. Area of Planned Activity

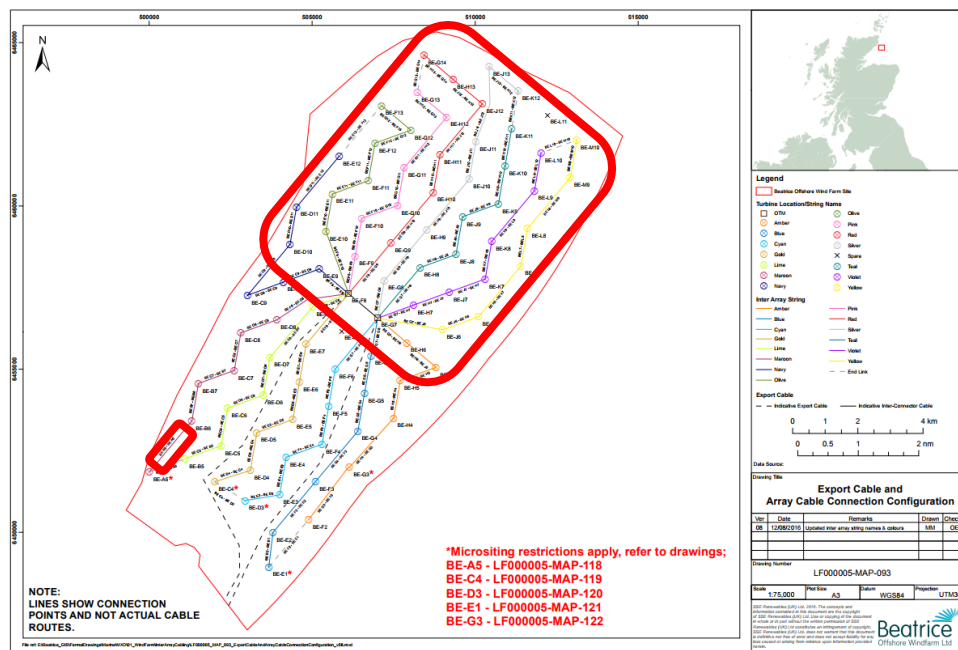


Fig.1 Location of Array Cable installation works

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3. Activity Description

The CLV Seaway Aimery will install 41 Inter Array Cables during the third cable installation campaign. The cables will be laid and buried between the Wind Turbine Generator (WTG) & Offshore Transformer Module (OTM) foundations listed below.

Three trenching trial cables have been surface laid and secured by clumpweights. These trial cables will be trenched/recovered during the third cable installation campaign during July/August 2018. The sequence below is indicative only and subject to amendment. Sixteen (16) cables were laid and buried during campaign 1 in Nov/Dec 2017 with a further thirty four (34) laid and buried during March-May 2018.

The CLV Seaway Aimery will be supported by the TSV Grand Canyon I (or III) for cable burial, Cables numbered from 51 to 88 in the sequence will be buried by a tracked jetting trencher, whilst cables 89 to 91 will be buried using a combination of tracked mechanical cutting trencher and tracked jet trencher.

The CSV Siem Barracuda will support inter-array cable installation activities in the Northern portion of the Beatrice wind farm, conducting cable pull in, testing and termination activities, working in parallel with the CLV Seaway Aimery. The Siem Barracuda will undertake the following workscopes; personnel transfer to WTG foundations and OTMs by Ampelmann Gangway; crane operations to transfer equipment to/from WTG foundations and Offshore Transformer Modules (OTMs); Work class ROV activities at the seabed in the vicinity of WTG foundations and OTMs; and survey activities along the planned inter-array cable routes linking the appropriate WTG foundations/OTMs.

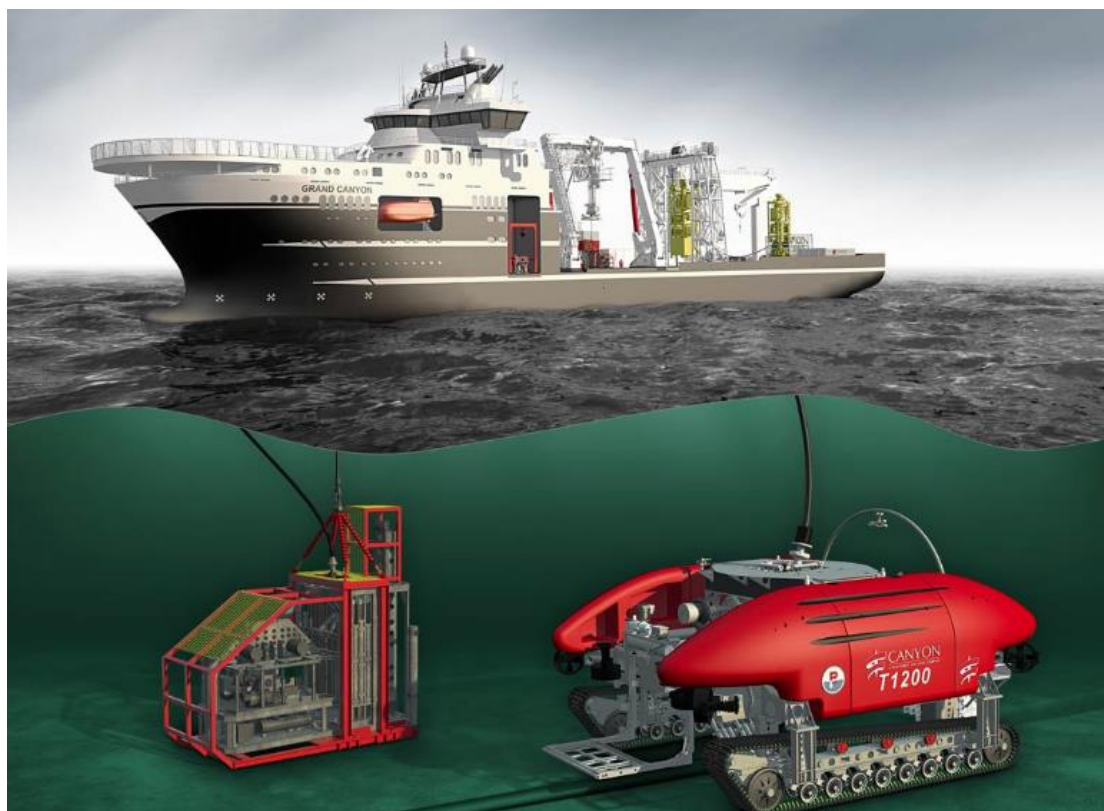


Fig 2. Grand Canyon tracked trenching system

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Table 1 IAC Installation Sequence

Installation Sequence	Cable	String	Latitude Start	Longitude Start	Latitude End	Longitude End
51	BE-D9-BE-C9	1462.4	58;15.596 N	2;55.777 W	58;15.381 N	2;56.901 W
52	BE-C9-BE-D10	2084.4	58;15.393 N	2;56.904 W	58;16.214 N	2;55.570 W
53	BE-D10-BE-D11	1231.7	58;16.227 N	2;55.573 W	58;16.838 N	2;55.359 W
54	BE-M10-BE-L10	1329.8	58;17.731 N	2;47.687 W	58;17.932 N	2;46.558 W
55	BE-L9-BE-L10	1240.2	58;17.110 N	2;47.898 W	58;17.718 N	2;47.685 W
56	BE-J8-BE-J9	1250.5	58;16.061 N	2;50.362 W	58;16.669 N	2;50.149 W
57	BE-J9-BE-K9	1290.8	58;16.682 N	2;50.152 W	58;16.884 N	2;49.023 W
58	BE-K9-BE-K10	1258.2	58;16.896 N	2;49.025 W	58;17.504 N	2;48.812 W
59	BE-K7-BE-K8	1233.3	58;15.654 N	2;49.448 W	58;16.263 N	2;49.233 W
60	BE-F12-BE-G12	1291.3	58;17.901 N	2;52.899 W	58;18.103 N	2;51.769 W
61	BE-G12-BE-F13	1511.5	58;18.115 N	2;51.772 W	58;18.522 N	2;52.690 W
62	BE-F8-BE-E10	2227.8	58;15.416 N	2;53.737 W	58;16.432 N	2;54.445 W
63	BE-E10-BE-E11	1258.6	58;16.444 N	2;54.446 W	58;17.053 N	2;54.235 W
64	BE-E11-BE-F11	1287.6	58;17.064 N	2;54.237 W	58;17.267 N	2;53.106 W
65	BE-D11-BE-E12	2104.2	58;16.851 N	2;55.362 W	58;17.673 N	2;54.024 W
66	BE-M9-BE-M10	1453.0	58;17.324 N	2;46.773 W	58;17.945 N	2;46.561 W
67	BE-K8-BE-L9	2102.7	58;16.275 N	2;49.237 W	58;17.098 N	2;47.895 W
68	BE-F11-BE-F12	1250.6	58;17.280 N	2;53.109 W	58;17.889 N	2;52.896 W
69	BE-H12-BE-G13	1420.2	58;18.330 N	2;50.647 W	58;18.724 N	2;51.560 W
70	BE-G13-BE-G14	1230.5	58;18.737 N	2;51.563 W	58;19.345 N	2;51.349 W
71	BE-H13-BE-G14	1497.6	58;18.951 N	2;50.436 W	58;19.358 N	2;51.351 W
72	BE-F8-BE-F9	1321.3	58;15.407 N	2;53.733 W	58;16.025 N	2;53.526 W
73	BE-F9-BE-F10	1224.3	58;16.038 N	2;53.529 W	58;16.647 N	2;53.316 W
74	BE-F10-BE-G10	1351.2	58;16.659 N	2;53.320 W	58;16.861 N	2;52.190 W
75	BE-F8-BE-G9	2208.2	58;15.404 N	2;53.736 W	58;16.240 N	2;52.400 W
76	BE-G9-BE-H10	2091.7	58;16.253 N	2;52.404 W	58;17.076 N	2;51.065 W
77	BE-G7-BE-G8	1218.5	58;15.010 N	2;52.823 W	58;15.619 N	2;52.611 W
78	BE-G8-BE-H9	2097.0	58;15.631 N	2;52.614 W	58;16.455 N	2;51.275 W
79	BE-H9-BE-J10	2124.9	58;16.467 N	2;51.278 W	58;17.290 N	2;49.939 W
80	BE-E12-BE-F13	2106.0	58;17.686 N	2;54.027 W	58;18.510 N	2;52.687 W
81	BE-L8-BE-M9	2092.9	58;16.489 N	2;48.111 W	58;17.312 N	2;46.770 W
82	BE-G10-BE-G11	1228.5	58;16.873 N	2;52.193 W	58;17.483 N	2;51.980 W
83	BE-G11-BE-H12	2082.0	58;17.495 N	2;51.983 W	58;18.318 N	2;50.644 W
84	BE-H10-BE-H11	1257.1	58;17.088 N	2;51.068 W	58;17.697 N	2;50.854 W
85	BE-H11-BE-J12	2090.9	58;17.709 N	2;50.857 W	58;18.532 N	2;49.516 W
86	BE-J12-BE-H13	1477.2	58;18.544 N	2;49.519 W	58;18.938 N	2;50.433 W
87	BE-K10-BE-K11	1260.1	58;17.516 N	2;48.815 W	58;18.125 N	2;48.601 W
88	BE-K11-BE-K12	1225.1	58;18.746 N	2;48.389 W	58;18.138 N	2;48.604 W
89	BE-J10-BE-J11	1234.8	58;17.303 N	2;49.941 W	58;17.911 N	2;49.728 W
90	BE-J11-BE-J13	2429.5	58;17.923 N	2;49.731 W	58;19.153 N	2;49.305 W
91	BE-J13-BE-K12	1533.6	58;19.165 N	2;49.308 W	58;18.758 N	2;48.393 W

OTM foundations highlighted in BOLD

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4. Vessels Associated with the Activity

The vessels involved with the described operation are the Seaway Aimery, Siem CSV Barracuda and the TSV Grand Canyon (I or III).

CLV Seaway Aimery	
General Description and Dimensions:	Length overall 95.3 m Breadth moulded 21.5 m Draft max. 7.2 m
Call Sign:	LATX7
MMSI:	258182000
On Board Contact:	V-Sat phone: +44 203 1454 129
Offshore Manager / Party Chief:	Captain Direct: +44 203 1454 122 / captain@aimery.siemoffshore.com
E-mail:	bridge@aimery.siemoffshore.com
Onshore Representative:	Majbritt Pauladottir, +47 95 93 60 32, mpa@siemoffshore.com



CSV Siem Barracuda	
General Description and Dimensions:	Length overall 121m Breadth moulded 22m Draft max. 7m
Call Sign:	5BZQ3
MMSI:	212253000
On Board Contact:	V-Sat phone: +47 23 96 06 82
Offshore Manager / Captain:	+47 989 06 307
E-mail:	captain@barracuda.siemoffshore.com
Onshore Representative:	Audun Oien, + 47 38 600 460, Audun.Oien@siemoffshore.com

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TSV Grand Canyon I	
General Description and Dimensions:	Length overall 125.4 m Breadth extreme 30.1 m Draft max. 7.5 m
Call Sign:	LACX8
MMSI:	257031820
On Board Contact:	Inmarsat phone: +87 07 73 20 54 66
Vessel Master:	Tel: +47 21 03 45 00 Email: master@grand-canyon.no
Offshore Manager:	Tel: +44 1224 755 151 Email: gc1offman@helixesg.com
Onshore Representative:	Eirik Volstad Tel: +47 70 10 49 64 Email: eirik@volstad.com



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TSV Grand Canyon III	
General Description and Dimensions:	Length overall 127.5 m Breadth moulded 25 m Draft max. 7.5 m
Call Sign:	LACJ8
MMSI:	257010590
On Board Contact:	Inmarsat phone: +87 07 73 20 57 09
Vessel Master:	Tel: +47 21 34 52 21 Email: master@grand-canyon3.no
Offshore Manager:	Tel: +44 1224 755 151 Email: gc3offman@helixesg.com
Onshore Representative:	Eirik Volstad Tel: +47 70 10 49 64 Email: eirik@volstad.com



5. Crew transfers

Crew transfers for the Seaway Aimery, Siem Barracuda and Grand canyon will be conducted in port or by CTV.

6. Adverse Weather Conditions

Should adverse weather occur during the commissioning works, the Cable installation vessels will cease operation and hold position until suitable working weather returns. In case of extreme weather the vessels will leave site for a port of refuge.

7. 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.

Use of Safety Zones within the Beatrice Offshore Windfarm Construction Area:

The Secretary of State for Business, Energy and Industrial Strategy (BEIS) has approved the use of safety zones under the Energy Act 2004 for the installation of wind turbines and offshore transformer module foundations/substructures within the Beatrice Offshore Windfarm. The approval was granted on the 17th March 2017.

The Secretary of State has declared Safety Zones under the following terms: During Construction

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- 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.
- It is noted that the 500 metre safety zones will roll with the installation activity with no more than two construction vessels working at any one time. Vessels are advised that anchors associated with the construction vessels may extend outside of the 500 metre safety zone.
- A 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.
- Positions of foundations installed will be promulgated within the Weekly Notice of Operations. Only vessels associated with the Beatrice Offshore Wind Farm construction may enter statutory Safety Zones with prior permission.

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.

Further information on the application of Safety Zones can be obtained from the Marine Coordinator. Users are advised to keep clear of construction activities, including Safety Zones, within the Beatrice Offshore Windfarm construction area in line with Marine Guidance Note 372.

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.

8. Dedicated Guard Vessels

There are two guard vessels stationed, one to the North and one to the South of the construction site. These guard vessels change out on a regular basis.

All vessels can be contacted on VHF CH16

9. Fisheries Liaison

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 872144 and mobile: +44 (0)7760 160039 or email: alex@brownmay.com

10. 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.

A copy of this notice can also be found at <https://www.beatricewind.com/>