



CAITHNESS – MORAY HVDC REINFORCEMENT

FISHERIES LIAISON AND MITIGATION ACTION PLAN

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Revision 09 note (all revisions highlighted in yellow):

1. Section 1.1 – minor addition to text
2. Section 1.2 – minor additions to text
3. Section 1.3 – minor addition to text
4. Section 2 – minor change to text
5. Section 2.1 – update to reflect the requirement for new marine licence applications for additional quantities of rock protection
6. Section 2.2 – installation programme updated to reflect prolongation
7. Section 2.3 – minor addition to text
8. Section 4.1.1 – minor addition to text
9. Section 4.2.1 – minor addition to text

GLOSSARY

ABB	ABB AB (the Contractor)
FLMAP	Fisheries Liaison & Mitigation Action Plan
FLM	Fisheries Liaison Manager
FLOWW	Fishing Liaison with Offshore Wind and Wet Renewables
FLR	Fisheries Liaison Representative
HVDC	High Voltage Direct Current
RIFG	Regional Inshore Fisheries Group
KISCA	Kingfisher Information Service Cable Awareness
MCA	Maritime & Coastguard Agency
NLB	Northern Lighthouse Board
SCUK	Subsea Cables UK
SDR	Source Data Recording
SFF	Scottish Fishermen's Federation
SHET	Scottish Hydro Electric Transmission Plc. (The Client)
SSE	Scottish & Southern Energy
UKHO	United Kingdom Hydrographic Office

1 INTRODUCTION

1.1 FOREWORD

This latest revision (rev.9) of the Fisheries Liaison Mitigation Action Plan (FLMAP) has been updated to reflect the requirements for increased rock armour protection (and supporting marine licence), within 0-12nm of both the Moray and Caithness Coast. Significant updates are highlighted in yellow.

The FLMAP sets out the fisheries liaison and mitigation action measures to be implemented on the Caithness – Moray HVDC Reinforcement subsea cable circuit (“the cable”).

The FLMAP sets out the liaison procedures that will be followed prior to, during and after the installation of the cable. These procedures have been established to ensure that the cable is planned, installed and operated as safely as possible in accordance with the licence consent conditions for the project.

SHET were granted authorisation from the regulator, ofgem, in Summer 2014 to proceed to project implementation (i.e. construction, commissioning and operation). The project is required to improve and reinforce the electricity transmission connection between Caithness & Moray (and onwards to the rest of the UK electricity network) to enable connection with new renewable generation capacity.

1.2 PURPOSE OF REPORT

The potential effects of the cable on marine activities and the marine environment were considered in two separate assessments. The first, for the southern section of the cable (from Portgordon to a point north of Smith Bank) was conducted in 2009 with subsequent updates and the second, for the northern section of cable (from Noss Head to a point north of Smith Bank) was conducted in 2011.

A further Environmental Appraisal has been carried out in late 2017, mid-way through the project implementation to reflect changes which result from the requirement to increase the amount of rock armour projection within 12nm of the Moray and Caithness coast.

- Caithness-Moray HVDC Link: Additional Rock Placement ML Application: Environmental Appraisal. Version 1.1. Marine Space Ltd. On behalf of NKT Ltd.

As a result of the evidence presented in these assessments, Marine Scotland specified a licence condition that required the production of a FLMAP. The FLMAP has therefore been produced to ensure that ABB and SHET have a mitigation plan in place for the project that meets the relevant marine licence requirements (including any additional licence requirements that may be applied as a result of the additional rock armour) set out by the Scottish Government. These conditions are included in Appendix A. The function of the FLMAP is therefore to address the potential effects highlighted in these assessments and identify how to minimise and mitigate potential adverse impacts on local fishing communities.

The FLMAP has been drawn up in accordance with industry and Government guidance for fisheries liaison (detailed in Section 3).

1.3 REPORT REVISION AND CONSULTATION

Following on from the initial project authorisation, in early 2015, SHET initiated regular meetings with representatives of the fishing industry and Marine Scotland to discuss the project. Information from these meetings has informed the FLMAP. It has also drawn on the approach adopted in the FLMAP documents produced elsewhere in Scotland for similar projects subject to similar licence requirements.

The FLMAP has been issued to the fishing industry organisations as part of the formal consultation process that commenced in 2015. Responses to the FLMAP were considered and reflected in subsequent revisions to the FLMAP, in accordance with the marine licence conditions for the cable.

A list of the organisations that were consulted on the FLMAP is presented at Appendix B. All direct communication with these organisations, with the exception of the Notices to mariners, will be via the FLM. The FLMAP will be revised and re-issued for information on a regular basis as necessary.

The latest revision of the FLMAP (rev.9) reflects the updated project timeline and the latest round of marine licence applications.



2 PROPOSED WORKS

SHET's contractor, ABB have appointed NKT Cables as the Contractor for the HVDC portion of the project (including subsea and land cable and HVDC converters).

The proposal is to install a HVDC electricity transmission cable circuit across the Moray Firth between Noss Head near Wick in Caithness and Portgordon in Moray. The installed circuit comprises two HVDC cables and a single fibre optic cable. A cross section of the cable configuration is presented in Figure 1 below:



Figure 1: Cable bundle cross-section

The two cables will be bundled together and will be installed wherever possible in a trench. The overall subsea cable length is 113km. The cable route is shown in Figure 2 below.

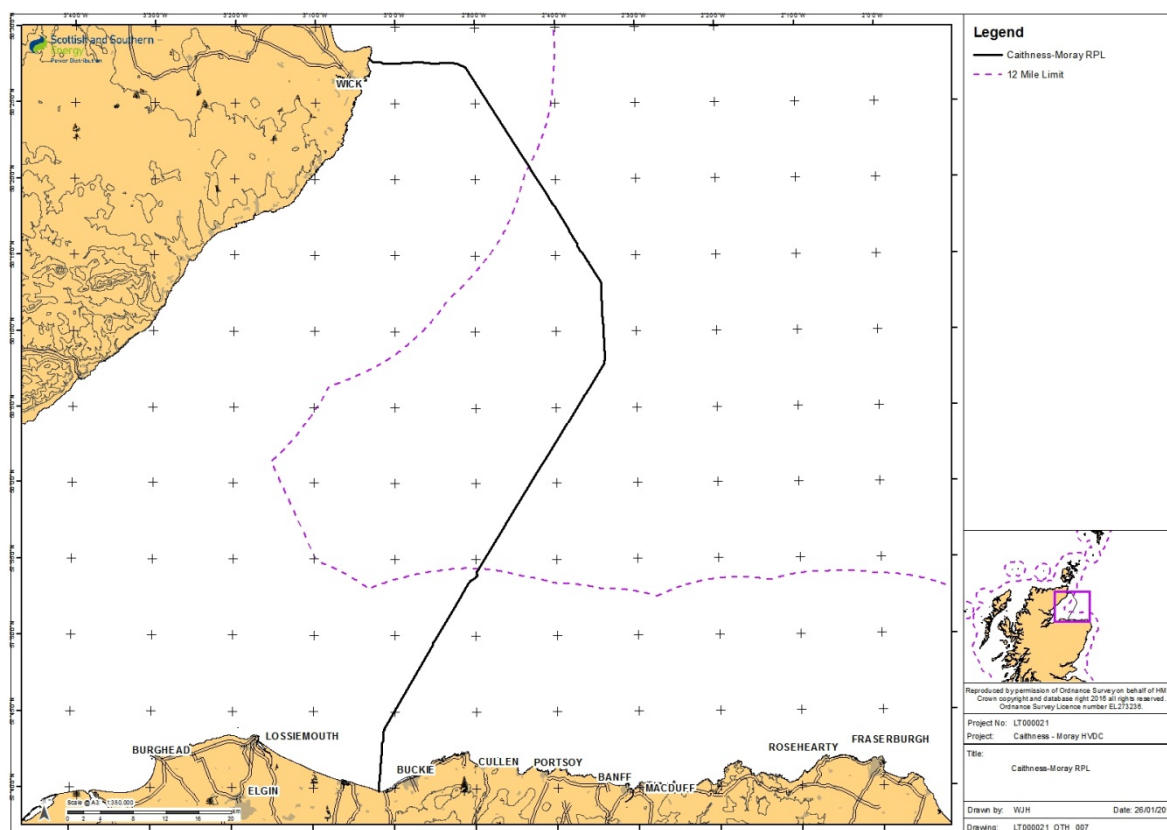


Figure 2: Caithness – Moray cable route.

2.1 INSTALLATION AND BURIAL

In brief, the proposed cable laying method will involve boulder clearance and the creation of a temporary 1.8m deep trench across the Moray Firth by a trenching plough. The cables will then be laid in this trench. The trench will then be mechanically backfilled and any areas of cable that are not buried to a depth of at least 1m will be protected using rock armour. However, over the horse mussel bed within the Noss Head Marine Protected Area (MPA), trenching and rock placement is prohibited. In this area, proprietary protective ducting will encase the cable as it crosses it as an alternative to rock.

Surveys will be undertaken to verify cable position, mechanical backfill and rock placement profiles.

Revised burial arrangements following trenching operations

Along the majority of the cable route (including most areas beyond 12nm), the target trenching depth was reached. In other places, where this was not achieved by trenching, target depths have been achieved by the use of jet trenching. However, in some areas the trench depth remains inadequate and jet trenching is not possible. In these areas, the cable is currently surface laid or laid within the trench (albeit a shallower trench than intended).

In order to protect the cable in these areas, it is now intended to increase the amount of rock placement in order to ensure adequate protection of the cable in areas where target trench depths were not reached.

New marine licence applications are therefore required to be submitted to Marine Scotland for these increased amounts of rock placement. Details of the proposed amounts of rock placement are presented below divided up by specific parts of the cable route. Additional rock placement, over and above amounts already permitted, are only required in the Portgordon to 12nm area (southern part of cable) and the 12nm to Noss Head area (northern part of cable). No additional rock placement over and above amounts already permitted under licence 06043/16/0 is required in the offshore region (12nm to 12nm).

	Existing Licence	Original Licenced Quantity (t)	Revised Requirement (t)
Noss Head 0-12nm	04368/17/2	18,000	127, 187
Portgordon 0-12nm	04878/13/0	67,260	111,450

2.2 INSTALLATION PROGRAMME

Below is the proposed timeline for cable installation.

Action	Date
Portgordon ground investigations	Completed (by August 2017)
Pre-lay survey	
Installation of Coastal Ducts (Noss)	
Installation of Coastal Ducts (Portgordon)	
ABB Sea Trials	
Boulder clearance & (1.8m) trench digging	
Post trenching survey	
2 x cable laying	
Cable Join	November 2017 (complete)
Completion of Jet Trenching	December 2017 (complete)
Rock armour placement (outside 12nm)	September - November 2017 (Complete)
Backfilling trench (outside 12nm)	April to June 2018
Additional Rock Armour Placement (Noss Head)	November & December 2017 (Complete)
Completion of rock placement at Noss to 12nm and Portgordon to 12nm	April to June 2018
Mechanical backfill at Noss to 12nm and Portgordon to 12nm	April – June 2018
Final Survey of cable route	June 2018

2.3 FISHERY INTERACTIONS

The cable route would unavoidably cross some important fishing grounds in the Moray Firth, including demersal trawl grounds, scallop grounds and inshore shellfish grounds. The principal fishing activity along the cable route is dredging for scallops (*Pecten maximus*) in the central part of the Firth, a seasonal (June to November) trawl fishery for squid (*Loligo forbesi*) off the southern coast of the Moray Firth and trawling for *Nephrops norvegicus* (Dublin bay prawns or langoustines) particularly in the waters just offshore of the southern and northern ends of the cable. In the most part, this activity is carried out by larger vessels (over 10m). This may include vessels from ports outside of the Moray Firth and nearby regions.

The other significant fishery is potting (creeling) activity carried out by inshore boats (under 10m) based at fishing ports in the Moray Firth region. This activity mainly overlaps with the proposed cable route in coastal waters near the two cable landfalls. These fisheries target shellfish such as lobster (*Homarus gammarus*), brown crab (*Cancer pagurus*) and whelk (*Buccinum undatum*).

Further details including fleet characteristics, fishing effort charts and landing statistics are set out in SHET's Fisheries Socio-economic Review document No. LT000021-RPT-075 which was submitted to Marine Scotland as part of the licensing process.

Updated fishery intensity charts using VMS data from 2016 are available, along with a review of the impact of the additional rock placement on commercial fisheries in:

- Caithness-Moray HVDC Link: Additional Rock Placement ML Application: Environmental Appraisal. Version 1.1. Marine Space Ltd. On behalf of NKT Ltd.

3 FISHERIES LIAISON STRATEGY

3.1 FISHERIES LIAISON MANAGER

Guidance for fisheries liaison has been published by SCUK in 2012. This guidance recommends that a FLM is appointed and retained through the life of a project, either as an employee of the cable operator or a specialised third party contractor / consultant. The role of the FLM is to liaise between the cable operator and the fishing industry during survey and installation period to communicate and where possible mitigate potential hazards to fishing during these.

The approach to fisheries liaison is based upon both the approach set out in SCUK guidance and also, where applicable the FLOWW publication “Recommendations For Fisheries Liaison - Best Practice Guidance for Offshore Renewable Developers” (BERR, May 2008), and is consistent, where applicable, with the revised guidance issued by the Crown Estate in January 2014.

It should be noted that some slightly different terminology is used in the SCUK and FLOWW guidance documents relevant to this FLMP. The differences are summarised in the table below and the choice of terminology used in this project is underlined:

Task	SCUK	FLOWW
Professional advisor appointed and retained by developer & contractor to provide guidance on fisheries issues.	<u>Fishery Liaison Manager (FLM)</u>	Company Fishery Liaison Officer (CFLO)
Nominated fishing industry representative(s) located ashore who will be the point of contact for ongoing fishing matters.	<u>Fishery Liaison Representative (FLR)</u>	Fishing Industry Representative (FIR)

From the outset, SHET have considered that the FLM for this project should be an independent party, capable of providing informed and unbiased advice. Where necessary, ABB will secure the services of guard vessels to ensure that the cable installation proceeds smoothly and safely.

SHET has appointed Telesecure Ltd to provide fisheries liaison services to this project and they have appointed Mr. Tristan Southall to act as FLM. Both Telesecure Ltd and the appointed FLM have good relationships with the many of the fishing organisations along the cable route, as well as many years of experience working with the fishing industry. Telesecure Ltd is well placed to coordinate the liaison work and to provide objective expert advice to both SHET and ABB. A schematic illustration of the approach to fisheries liaison that will be used in this project is shown in Figure 3 below.

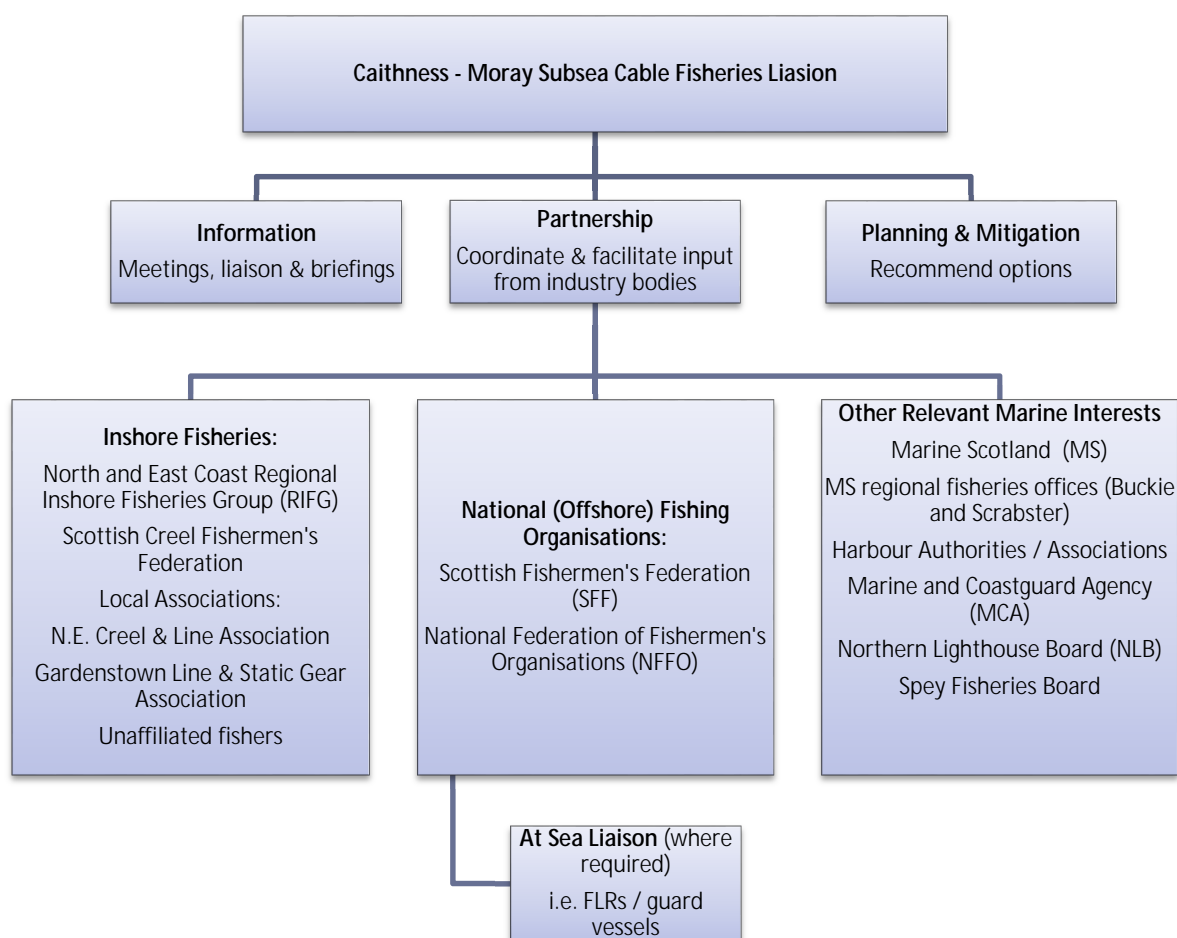


Figure 3: Fisheries liaison strategy

3.2 FISHERIES LIASION REPRESENTATIVE / GUARD VESSELS

In addition to a FLM, it is also considered to be good practice, where required, to employ the services of guard vessels during the construction phase of a project. Guard vessels are used to protect the ongoing installation works from possible adverse impacts with, or on, fishing vessels that may encroach upon the working area.

ABB have procured via subcontract guard vessels for deployment where they consider this necessary. It is expected that guard vessels will be deployed during the installation activities at nominal spacing of between 10 km and 25km (dependent upon vessel speed). The guard vessel subcontract was procured by ABB according to the following criteria (although the final detail of the selection process remained the responsibility of ABB):

- A fair and open tendering process was followed prior to the appointment of any supplier of guard vessels, in order to ensure the provision of best value to electricity customers.



- Vessels are of sufficient seaworthiness and equipped to a suitable standard meeting appropriate safety requirements to enable them to carry out the required duties safely and effectively. These requirements are set out in the following guidelines:
 - SFF Marine Safety Forum Guard Vessel Good Practice for UK Fishing Vessels.
 - The SFF/NFFO Guard Vessel Operational Procedures Manual

These documents provide non-obligatory guidance only to enable ABB to develop guard vessel operating procedures and where there are areas of potential or actual conflict of interest, then alternative actions will be adopted by ABB at their own discretion to prevent such conflict arising.

- All guard vessels will be fitted with satellite tracking such that SHET and stakeholders can monitor their number and position.

Furthermore, SHET has engaged local shore-based inshore fishing liaison representatives in Caithness and Moray to facilitate communications with the local inshore fleets.

4 MITIGATION & ACTION PLAN

4.1 COMMUNICATION

It is a licence consent condition raised by the Scottish Government that advance notice of activities is provided to mariners. ABB and SHET recognise the critical importance of clear and effective communication. There are a number of situations where clear and effective communication is required to equally ensure the safety of navigation and efficient installation activities. Details of when and how communication will be undertaken are set out below:

4.1.1 Notice of construction activities

Details of the works will be promulgated to all appropriate maritime users, through NtM and/or radio navigational warnings and publication in appropriate bulletins to comply with the conditions in the marine licences. The NtMs will be issued using the UKHO hydrographic note form H102 at the stages of the cable installation set out below:

- HDD works
- boulder clearance
- pre-cut trenching
- cable laying
- trench backfill
- rock placement.

Form H102 will be sent by email as set out below:

To: Source Data Receipt at UK Hydrographic Office, Kingfisher Information Services

CC: Marine Scotland

Scottish Hydro Electric Transmission (SHET) – Lead Project Manager, Fisheries Liaison Officer & Marine Consents Manager

ABB – Project Installation Manager & Deputy Project Installation Manager

Aberdeen Coastguard Operations & Maritime Rescue Coordination Centre (MRCC)

Buckie Harbour Master

Cromarty Firth Port Authority

Joint Nature Conservation Committee (JNCC)

MacDuff Harbour Master

North & East Coast Regional Inshore Fisheries Group

Northern Lighthouse Board

Portgordon Harbour Master

Peter Smith (FIR for Portgordon static gear fishermen)

Port of Inverness Harbour Master

Scottish Natural Heritage (SNH)
Scottish Fishermen's Federation
Whale and Dolphin Conservation
Wick Harbour Master
Hugh MacKay (FIR for Wick static gear fishermen)

Each NtM will contain full details of the vessel, location, activities, contact details etc.

NtMs will be issued at least 20 days prior to an activity's start date to allow inclusion in the Kingfisher Fortnightly Bulletin.

However, in the case of incidents or emergencies requiring notification, the NtM will be issued as soon as reasonably possible. Any actions required to notify an incident or emergency will go ahead even if there is not sufficient time for it to appear in the Kingfisher Fortnightly Bulletin.

All NtMs will be issued by ABB.

It is intended that the issued NtMs will comprehensively describe the planned activities. However, in the unlikely event that a significant change to these activities becomes apparent, an update will be issued by email to Source Data Receipt at the UK Hydrographic Office and copied to the distribution list set out above.

It is intended that the operations will be carried in accordance with the marine licences. However, in the unlikely event that a significant change to these operations becomes apparent to the extent that compliance may not be achievable, an update will be issued by email to Marine Scotland as soon as is reasonably possible setting out the details of the change and its potential impact on the marine licence conditions. Should this change result in the creation of a hazard to users of the sea, the process for NtM updates and radio navigation warnings set out above will be followed. No work outwith the license conditions will be undertaken without the prior agreement of Marine Scotland.

Furthermore, with specific respect to commercial fishing activities, the following will be implemented:

Notices to static gear fishermen

The static gear fishermen will receive the NtMs as set out above. However, further specific liaison between SHE T's static gear fishing industry representatives in Wick and Portgordon and the fishermen who will be affected by the installation operations will take place to agree the detailed arrangements for removal of static gear. This will include details of dates and numbers of creels. This liaison takes place nominally one week prior to the planned commencement of the installation operations.

All inshore static gear fishermen will be provided with a notification of the delay to operations and the requirement for increased rock placement within 0-12nm of the Portgordon and Noss Head coast. In addition, any arrangements in place to support the inshore fishermen with cost incurred as a result of the requirement to move static fishing gear, will continue during the project extension.

Notices to mobile gear fishermen

The mobile gear fishermen will receive the NtMs as set out above. However, further specific liaison between SHE T's FLM and the fishermen representative body, the SFF, will take place to ensure that they are given a minimum of 24 hours reminder that their gear requires to be a sufficient distance from the working area(s) of vessels of restricted mobility.

4.1.2 Notice of Hazards

ABB and SHET will provide information about any temporary or on-going potential hazards to fishermen and fishing activity that may arise during the construction and operation of the cable. This information will be communicated by:-

- Using radio and telephone equipment to alert any and all fishing vessels in the vicinity of the hazard immediately that its existence is known.
- Installing appropriate temporary navigation warnings of the hazard (lighting, buoyage and / or use of guard vessels) as soon as is practicable.
- Issuing hazard notices to fishermen, representative organisations and agents as soon as practicable, identifying the nature of the hazard and its location.

In addition, the methods of communication listed in 4.1.1, as appropriate, shall be used to provide information about hazards. The level of detail and the timing of hazard notices shall be sufficient to allow fishermen to avoid interaction with the hazard. The licence also requires that, in the event of the licensee becoming aware of information indicating that any part of the licensed works has become a danger to navigation or protection of legitimate users of the sea, the licensee shall immediately inform the licensing authority, Maritime and Coastguard Agency (MCA), UK Hydrographic Office (UKHO), Northern Lighthouse Board (NLB) and the Kingfisher Information Service Offshore Renewables and Cable Awareness (KIS-ORCA) to communicate the hazard to the maritime community. The licensee shall be liable for all costs.

4.1.3 Final Installation Coordinates

Once installation is completed, the as-laid route of the installed cable (and a cable corridor of 500m either side of it) shall be communicated as a hazardous area for anchoring to Marine Scotland, MCA, UKHO, NLB, the Kingfisher Information Service Cable Awareness (KISCA) and the UK International Cable Protection Committees in accordance with licence conditions (i.e. within 1 month of the installation of each section of the cable, subject to operational constraints). The fishing industry shall be informed of the installed route in accordance with the licence conditions.

Information about the cable route shall be communicated using the methods listed in item 4.1.1 as appropriate and in addition details of the cable route shall be provided to enable it to be shown on hydrographic charts.

4.1.4 Notice of Maintenance Activity

The schedule of any maintenance, survey or repair activities will be well publicised to fishermen in advance as set out in 4.1.1.

4.2 MITIGATION

ABB and SHET will implement measures to mitigate the potential impact of the construction and operation of the cable in line with national guidance for cable operators as follows:



4.2.1 Cable burial

The cable shall be buried as per the approved design and in accordance with any requirements set out in the relevant Marine Licence conditions. This will be to a minimum depth of 1m, or where less than 1m, the shortfall will be made up by rock placement to the required minimum depth.

Where the minimum trench depth of 1m has not been achieved, the potential impact of a raised surface profile of rock will be mitigated by placing rock directly over the cable in the trench, prior to mechanical backfill (as opposed to mechanical backfill followed by rock placement). This will achieve a considerable reduction in the linear distance of exposed rock that results from the significant increase in the overall volume of rock required within 0-12nm of the Portgordon and Noss Head coast.

4.2.2 Hazard Mitigation

ABB and SHET will take all practicable steps to remove and/or remedy any hazards to fishing activity and/or navigational safety that are created during the construction and operation of the cable. Removal and remediation measures will include, as determined appropriate:-

- Removal of hazards from the seabed where practicable.
- Marking the location of hazards that cannot be removed or remediated with appropriate navigational marks at sea and/or on hydrographic charts.
- Notification to UKHO and Kingfisher Information Service.
- Informing fishermen of any specific areas where additional protection using rock placement was used (by direct communication using e-mail, internet and other media to inform representative bodies along the route, and also to inform fishermen who have registered their interest in the project with the FLM).
- A 500m exclusion zone either side of the cable during the installation period as agreed at the meetings with Marine Scotland and SFF on 25th April 2016 and 17th August 2016.

4.2.3 Post-installation survey

There will be a post-installation survey of the cable route to determine that it is free of obstructions that may be hazardous to navigation and legitimate users of the sea.

4.2.4 Post Installation Fishing Restrictions

As indicated above, the installation process will result in the cable being buried to a depth of at least 1m, and where less than this, to be covered in rock armour. This protection is designed to ensure that the cable does not prove a hazard to navigation and to safeguard the cable integrity by the provision of shallow gradient side slopes using graded material. However, anchoring or towing of demersal trawls and dredges on or over the cable route should be avoided. The cable route and coordinates will be clearly communicated, as described above and it is expected that mobile gear vessels will use this information to avoid towing gears over the installed cable route.

By contrast, static gear fisheries, in particular inshore pot (creel) fisheries pose less of a risk of damage (either to gear or cable) and therefore there is an expectation that these will continue to be laid on the seabed on and around the cable route.



4.2.5 Loss of fishing gear

ABB and SHET shall respond to the loss of any fishing gear along the cable route in accordance with the SCUK guidance in force at the time of the loss.

4.2.6 Maintenance Mitigation

Any cable maintenance that involves the exposure of the cable must include reburial and notification of any new hazards or changes to the cable route in accordance with the relevant sections of the FLMAP. The duration of these activities will be kept to a minimum to mitigate the extent of any exclusions.

APPENDIX A: LICENCE CONDITIONS

This document has been prepared with reference to the licence conditions in Marine Scotland Licence 04368/16/0 (Noss to 12nm – all deposits), Marine Scotland Licence 04878/13/0 (Portgordon to 12nm – all deposits) and Marine Scotland Licence 06043/16/0 (outside 12nm rock deposits only). The following tables set out the conditions that relate to fishing activities and provide reference to the sections of the FLMAP where a condition is considered.

A.1 Noss to 12nm marine licence

Licence details	Reference to FLMAP
<u>Prior to Commencement of the Works</u>	
3. The licensee must ensure that details of operations relating to the licence are promulgated to all appropriate maritime users, through notice(s) to mariners (NtM) and/or radio navigational warnings and publication in appropriate bulletins, no later than one week prior to the commencement of cable laying operations. The NtM and publications must, as a minimum, state the nature and the proposed timescale of any works carried out in the marine environment relating to the deposit of substances or objects listed in part one of the licence.	Section 4.1.1
7. The licensee must, in consultation with the Scottish Fishermen's Federation, provide a Fisheries Liaison Plan and Mitigation Action Plan for the licensing authority to review before any works are undertaken.	The FLMAP document
<u>During the Works</u>	
29. The licensee must ensure that local Notices to Mariners are issued as necessary following any local navigation issues arising as a result of operations relating to the licence.	Section 4.1.2
35. In the event of the licensee becoming aware of information indicating that any part of the licensed works has become a danger to navigation or protection of legitimate users of the sea, the licensee must, as soon as reasonably practicable, inform the licensing authority, the Maritime and Coastguard Agency (MCA), Northern Lighthouse Board (NLB) and the Kingfisher Information Service Offshore Renewables and Cable Awareness (KIS-ORCA) to communicate the hazard to the maritime community. The licensee is responsible for the payment of all costs to discharge this condition.	Section 4.1.2

39. The licensee must ensure that real-time data relating to cable laying, rock protection or post-lay surveying, either by the immediate dissemination of data or by the presence of a fisheries observer on board any vessel undertaking such work, is provided to relevant recipients (to be agreed by the licensing authority) .	Section 3.2
<u>On Completion of Works</u>	
44. The licensee must, following the completion of all operations relating to the licence, notify the licensing authority, Maritime and Coastguard Agency (MCA), UK Hydrographic Office (UKHO), Northern Lighthouse Board (NLB), the Kingfisher Information Service Offshore Renewables and Cable Awareness (KIS-ORCA) and the UK International Cable Protection Committees of the cable route and a 500m zone either side of it as a hazardous area for anchoring. The Licensee must notify the Licensing Authority of the notifications at the time they are made.	Section 4.1.3

A.2 Portgordon to 12nm marine licence

Licence details	Reference in FLMAP
<u>Prior to Commencement of the Works</u>	
4. The licensee must ensure that details of operations relating to the licence are promulgated to all appropriate maritime users, through notice(s) to mariners (NtM) and/or radio navigational warnings and publication in appropriate bulletins, no later than one week prior to the commencement of cable laying operations. The NtM and publications must, as a minimum, state the nature and the proposed timescale of any works carried out in the marine environment relating to the deposit of substances or objects listed in part one of the licence.	Section 4.1.1
8. The licensee must appoint a Fisheries Liaison Officer (FLO) no later than eight weeks prior to the commencement of operations relating to the licence, and notify the licensing authority of the identity and credentials of the FLO by including such details in the Environmental Management Plan (EMP) (see condition 11). The responsibilities of the FLO must include, but are not limited to:–	Section 3.1
a) Establishing and maintaining effective communications between the licensee, local fishermen and their representatives and any other relevant stakeholders;	
b) Communicating the overall project and any amendments to the plans and protocols and site environmental procedures to relevant stakeholders as per condition 8a;	

c) Provision of information to relevant stakeholders as per condition 8a relating to the safe operation of fishing activity along the cable corridor, as defined in part 1 of the licence, including having in place local Fisheries Liaison and Mitigation Action Plans;	
d) Ensuring that information is made available and circulated to relevant stakeholders as per condition 8a in a timely manner to minimise interference with fishing operations and other users of the sea; and	
e) Familiarisation with relevant guidelines produced by Subsea Cables UK and a knowledge of the Crown Estate FLOWW (The Fishing Liaison with Offshore Wind and Wet Renewables Group) guidelines where they appropriately apply.	
9. The licensee must submit a Fisheries Liaison and Mitigation Action Plan (FLMAP) to the licensing authority no later than eight weeks prior to the commencement of operations relating to the licence, for their written approval. It is not permissible for operations relating to the licence to commence prior to the granting of such approval. In granting such approval, the licensing authority may consult any such advisors, organisations or stakeholders as may be required at their discretion. All operations relating to the licence must be undertaken and operated in accordance with the approved FLMAP. Any updates or amendments made to the FLMAP by the licensee must be submitted, in writing, by the licensee to the licensing authority for their written approval. The FLMAP must consider the FLOWW guidelines where they appropriately apply.	The FLMAP document
<u>During the Works</u>	
30. The licensee must ensure that local Notices to Mariners are issued as necessary following any local navigation issues arising as a result of operations relating to the licence.	Section 4.1.2
36. In the event of the licensee becoming aware of information indicating that any part of the licensed works has become a danger to navigation or protection of legitimate users of the sea, the licensee must, as soon as reasonably practicable, inform the licensing authority, the Maritime and Coastguard Agency (MCA), Northern Lighthouse Board (NLB) and the Kingfisher Information Service Offshore Renewables and Cable Awareness (KIS-ORCA) to communicate the hazard to the maritime community. The licensee is responsible for the payment of all costs to discharge this condition.	Section 4.1.2

38. The licensee must ensure that real-time data relating to cable laying, rock protection or post-lay surveying, either by the immediate dissemination of data or by the presence of a fisheries observer on board any vessel undertaking such work, is provided to relevant recipients (to be agreed by the licensing authority).	Section 3.2
<u>On Completion of Works</u>	
42. The licensee must, following the completion of all operations relating to the licence, notify the licensing authority, Maritime and Coastguard Agency (MCA), UK Hydrographic Office (UKHO), Northern Lighthouse Board (NLB), the Kingfisher Information Service Offshore Renewables and Cable Awareness (KIS-ORCA) and the UK International Cable Protection Committees of the cable route and a 500m zone either side of it as a hazardous area for anchoring. The Licensee must notify the Licensing Authority of the notifications at the time they are made.	Section 4.1.3

A.3 Outside 12nm marine licence

Licence details	Reference in FLMAP
<u>Prior to Commencement of the Works</u>	
4. The licensee must ensure that details of the works are promulgated to all appropriate maritime users, through notice(s) to mariners (NtM) and/or radio navigational warnings and publication in appropriate bulletins, no later than one week prior to the commencement operations relating to the licence. The NtM must, as a minimum, state the nature and the proposed timescale of any works carried out in the marine environment relating to the deposit of substances or objects listed in part one of the licence.	Section 4.1.1
8. The licensee must appoint a Fisheries Liaison Officer (FLO) no later than eight weeks prior to the commencement of operations relating to the licence, and notify the licensing authority of the identity and credentials of the FLO by including such details in the Environmental Management Plan (EMP) (see condition 11). The responsibilities of the FLO must include, but are not limited to:–	Section 3.1
a) Establishing and maintaining effective communications between the licensee, local fishermen and their representatives and relevant stakeholders;	
b) Communicating the project and any amendments to the plans and protocols and site environmental procedures to relevant stakeholders as per condition 8a;	
c) Provision of information to relevant stakeholders as per condition 8a relating to the safe operation of fishing activity in areas where additional protection has been installed as defined in part 1 of the licence, including having in place local Fisheries Liaison and	



Mitigation Action Plans;	
d) Ensuring that information is made available and circulated to relevant stakeholders as per condition 8a in a timely manner to minimise interference with fishing operations and other users of the sea; and	
e) Familiarisation with relevant guidelines produced by Subsea Cables UK and a knowledge of the Crown Estate FLOWW (The Fishing Liaison with Offshore Wind and Wet Renewables Group) guidelines where they appropriately apply.	
9. The licensee must submit a Fisheries Liaison and Mitigation Action Plan (FLMAP) to the licensing authority no later than eight weeks prior to the commencement of operations relating to the licence, for their written approval. It is not permissible for the works to commence prior to the granting of such approval. In granting such approval, the licensing authority may consult any such advisors, organisations or stakeholders as may be required at their discretion. All operations carried on under the licence must be undertaken and operated in accordance with the approved FLMAP. Any updates or amendments made to the FLMAP by the licensee must be submitted, in writing, by the licensee to the licensing authority for their written approval. The FLMAP must consider the FLOWW guidelines where they appropriately apply.	The FLMAP document
<u>During the Works</u>	
28. The licensee must ensure that local Notices to Mariners are issued as necessary following any local navigation issues arising as a result of operations relating to the licence.	Section 4.1.2
34. In the event of the licensee becoming aware of information indicating that any part of the licensed works has become a danger to navigation or protection of legitimate users of the sea, the licensee must, as soon as reasonably practicable, inform the licensing authority, the Maritime and Coastguard Agency (MCA), Northern Lighthouse Board (NLB) and the Kingfisher Information Service Offshore Renewables and Cable Awareness (KIS-ORCA) to communicate the hazard to the maritime community. The licensee is responsible for the payment of all costs to discharge this condition.	Section 4.1.2

36. The licensee must ensure that real-time data relating to additional protection requirements or post-lay surveying, either by the immediate dissemination of data or by the presence of a fisheries observer on board any vessel undertaking such work, is provided to relevant recipients (to be agreed by the licensing authority).	Section 3.2
<u>On Completion of Works</u>	
40. The licensee must, following the completion of all operations relating to the licence, notify the licensing authority, Maritime and Coastguard Agency (MCA), UK Hydrographic Office (UKHO), Northern Lighthouse Board (NLB), the Kingfisher Information Service Offshore Renewables and Cable Awareness (KIS-ORCA) and the UK International Cable Protection Committees of the cable route and a 500m zone either side of it as a hazardous area for anchoring. The Licensee must notify the Licensing Authority of the notifications at the time they are made.	Section 4.1.3

APPENDIX B: LIST OF FLMAP CONSULTEES

Marine Scotland

Northern Lighthouse Board

Maritime and Coastguard Agency

The Scottish Fishermen's Federation

North and East Coast Regional Inshore Fisheries Group (including the following member associations):

- Moray Firth Inshore Fishermen's Association
- Gardenstown Line & Static Gear Association

North East Creel & Line Association

Scottish Creel Fishermen's Federation

National Federation of Fishermen's Organisations

Scottish Fishermen's Organisation

Other non-affiliated inshore operators

Spey Fisheries Board