



Scottish Hydro Electric Power Distribution plc

Sanday-North Ronaldsay Replacement Marine Licensing Support Marine Construction Environmental Management Plan

ASSIGNMENT A200853-S00
DOCUMENT A-200853-S00-A-PLAN-001



Aberdeen

5th Floor Capitol Building
429-431 Union Street . Aberdeen
AB11 6DA . UK

T +44 (0)1224 628300
E [Redacted]

www.xodusgroup.com



REVISIONS & APPROVALS

This document has been prepared by Xodus Group exclusively for the benefit and use of Scottish Hydro Electric Power Distribution plc. Xodus Group expressly disclaims any and all liability to third parties (parties or persons other than Scottish Hydro Electric Power Distribution plc) which may be based on this document.

The information contained in this document is strictly confidential and intended only for the use of Scottish Hydro Electric Power Distribution plc. This document shall not be reproduced, distributed, quoted or made available – in whole or in part – to any third party other than for the purpose for which it was originally produced without the prior written consent of Xodus Group.

The authenticity, completeness and accuracy of any information provided to Xodus Group in relation to this document has not been independently verified. No representation or warranty express or implied, is or will be made in relation to, and no responsibility or liability will be accepted by Xodus Group as to or in relation to, the accuracy or completeness of this document. Xodus Group expressly disclaims any and all liability which may be based on such information, errors therein or omissions therefrom.

[Redacted]						
R01	19/08/2026	Issued for Review	SM/AH	AM	AM	-
REV	DATE	DESCRIPTION	ISSUED	CHECKED	APPROVED	CLIENT



CONTENTS

1	INTRODUCTION	4
2	SCOPE	6
3	REVIEW AND UPDATE PROCEDURE	7
4	DOCUMENT STRUCTURE	8
5	MITIGATION REQUIREMENTS	9



1 INTRODUCTION

Scottish Hydro Electric Power Distribution plc (SHEPD) holds a licence under the Electricity Act 1989 for the distribution of electricity in the north of Scotland including the Islands. It has a statutory duty to provide an economic and efficient system for the distribution of electricity and to ensure that its assets are maintained to provide a safe, secure and reliable supply to customers.

In February 2026 SHEPD identified a fault within the subsea cable connecting Sanday to North Ronaldsay in Orkney. An initial solution was trialled to reconfigure the faulted circuit, but this too faulted soon after, making this an unviable option for repairs. After a subsequent options evaluation, the recommended approach is to carry out a full replacement of the faulted cable. The proposed cable replacement ('the Project') will involve the installation of a new 11 kilovolt (kV) subsea cable, associated cable stabilisation and protection and removal of the faulted cable at both shore ends and in subtidal sections. Installation of this cable is required to replace the existing faulted cable and restore a grid connection to the community on North Ronaldsay. Mobile diesel generation is currently being utilised to provide power to customers on a temporary basis, however, this is logically challenging and as such, an urgent replacement is required. The proposed cable and nearshore tubular cable protection system installation activities are currently planned to take place in Autumn 2026 and cable protection installation in Spring / Summer 2027.

The proposed replacement cable will be approximately 11 kilometres (km) long (including 5% contingency) from Transition Joint Pit (TJP) to TJP and will be located within a proposed cable corridor in the vicinity of the existing faulted cable. This Marine Environmental Appraisal (MEA) covers the proposed cable installation activities between Mean High Water Springs (MHWS) to MHWS. The proposed replacement cable is approximately 10.4 km from MHWS to MHWS. The proposed cable corridor extends between the Bay of Sandquoy on Sanday and South Bay on North Ronaldsay. The final cable route has not yet been determined. Therefore, to provide flexibility for final route engineering, a 9.2 km² cable installation corridor is proposed. The final route selection will be based on further preinstallation surveys and detailed design parameters, while taking environmental and any additional constraints into account.

A MEA was developed by Xodus Group Ltd (Xodus), to support SHEPD's licence applications for the Project activities within the proposed cable corridor (Document Ref: A-200853-S00-A-REPT-001). The MEA presents a review of baseline conditions within the proposed cable corridor and identifies sensitive environmental receptors which are or may be present in the area. An assessment of potential effects on these receptors associated with the proposed Project activities was conducted, in order to ascertain the magnitude and severity of environmental impacts. Where impacts were deemed to be significant, or above acceptable criteria, mitigation protocols were identified in order to remove or reduce the magnitude of effect. The following receptors were assessed by the MEA:

- Designated Sites;
- Seabed and Water Quality;
- Marine Megafauna;
- Benthic and Intertidal Ecology;
- Ornithology;
- Marine Archaeology;
- Commercial Fisheries and Other Sea Users; and



- Shipping and Navigation.

This Marine Construction Environmental Management Plan (CEMP) is designed to provide a consolidated point of reference for SHEPD and their marine contractors. It ensures all mitigation measures identified by the MEA and supporting documents are effectively disseminated to and implemented by the project team during Project activities. The Marine CEMP is informed by, and should be read in conjunction with the following documents:

- Sanday – North Ronaldsay Project Description (Document Ref: A-200853-S00-A-REPT-002);
- Marine Licence Application (MLA) Form;
- Inshore European Protected Species (EPS) Licence Application Form;
- Basking Shark Derogation Licence Application Form;
- High Level Navigational Risk Assessment (NRA) (Document Ref: A-200853-S00-A-REPT-003);
- North Coast and Orkney Fisheries Liaison Mitigation Action Plan (FLMAP);
- How SHEPD co-exists with other marine users document¹;
- Operation, Inspection, Maintenance and Decommissioning Strategy (OIMD); and
- Cost Benefit Analysis (CBA) Summary Report.

A Cable Lay and Monitoring Plan (CLMP) (applicable to the 2026 cable installation campaign) and a Cable Protection and Monitoring Plan (CPMP) (applicable to the 2027 cable protection installation campaign) will also be produced to detail the installation methods and materials once detailed route optioneering, benthic survey and On-bottom Stability analysis results become available.

¹ <https://www.ssen.co.uk/globalassets/about-us/projects-and-live-works/subsea-cables/how-shepd-co-exists-with-other-marine-users.pdf>.



2 SCOPE

The Marine CEMP is intended for use during all marine works (below MHWS), associated with the proposed cable installation activities, including:

- Seabed preparation:
 - Pre-installation surveys to identify debris / obstructions;
 - Manual obstruction removal by using boulder pickers. Pre-Lay Grapple Run (PLGR) is unlikely to be used due to the seabed being hard and uneven (primarily rocky reef);
 - Removal of Out of Service (OoS) cable(s) to facilitate installation of the replacement cable, where required;
- Landfall establishment;
- Cable installation;
 - The subsea cable will be surface laid below MLWS,
 - In the intertidal zone, cable installation will be via Open Cut Trench (OCT) between MLWS and MHWS at each landfall location;
- Cable protection and stabilisation installation;
 - Cable protection measures will include tubular cable protection systems and rock bags,
 - Sea earths and associated protection will also be required;
- Landfall re-instatement; and
- Post-installation surveys.



3 REVIEW AND UPDATE PROCEDURE

By its nature the Marine CEMP is a live document and it is important that it is updated as the Project develops, in order to capture potential changes to mitigation requirements. However, the Marine CEMP also forms part of SHEPD's consent requirements, and as such, any material changes to the mitigation requirements may need approval from Scottish Government's Marine Directorate – Licensing Operations Team (MD-LOT), acting on behalf of the Scottish Ministers. As such, it is important that a dialogue with MD-LOT is maintained throughout the Project.

Any substantive changes to this Marine CEMP must be reviewed and approved by the following:

- SHEPD's project manager;
- Contractor's project manager;
- SHEPD's environmental consultant; and
- MD-LOT.

As a minimum, this Marine CEMP should be reviewed, and where necessary, updated at the following Project milestones:

- Award of Marine Licence;
- Following completion of pre-installation surveys and detailed route engineering;
- Prior to cable protection installation campaign; and
- Following any substantive change to Project design or cable installation methods.

Note, sufficient time should be allowed for potential review by MD-LOT if substantive changes to the Marine CEMP are required.



4 DOCUMENT STRUCTURE

The mitigation requirements in the Marine CEMP are presented in tabular form, grouped by Project phase and relevant receptors. For each item of mitigation, a breakdown of both SHEPD's and their Contractor's requirements is provided, along with links and references to other relevant documents and guidance.



5 MITIGATION REQUIREMENTS

PHASE	ASPECT	MEASURE	REQUIREMENTS	ADDITIONAL INFORMATION	SHEPD RESPONSIBILITY	CONTRACTOR RESPONSIBILITY
General	Environmental Awareness	Production of a Marine CEMP. The CEMP must be available to all Project personnel.	Copies of this Marine CEMP must be available on all survey and installation vessels, and in Project offices	N/A	Audit	Ensure copies made available.
		All Project personnel will be trained and informed of their responsibility to implement the environmental and ecological mitigation outlined in the CEMP.	Toolbox talks, inductions, and awareness notices will be used to disseminate this information among all relevant Project personnel.	MEA Section 4.3	Audit induction, and toolbox talk records.	Ensure appropriate training is provided to personnel.
		All necessary licences and permits will be applied for any associated conditions of these licences will be adhered to. Copies of all licences and permits must be available at relevant Project locations	The applicable licences and permits include: • Marine Licence; • Inshore EPS Licence; and • Basking Shark Derogation Licence. Copies of relevant licences and permits must be available on all vessels and in Project offices.	N/A	Provide copies of licence, and audit	Ensure all licence and permit conditions are adhered to. Copies maintained in relevant locations.
		Emergency Spill Response Plan	An Emergency Spill Response Plan must be developed prior to operations commencing, and should include the following details: • Immediate actions using Source-Pathway-Receptor Model; • Communication lines and contact details; • Reporting procedure; and • Implementation of Lessons Learned.	MEA Section 4.3	Work with Contractor to develop plan, and audit implementation and training.	Work with SHEPD to develop plan, and ensure it is implemented during all relevant activities.
	Waste Management	Waste Management Plan	A Waste Management Plan (WMP) will be developed and implemented to ensure the waste hierarchy is followed and all waste is sent onward to recycling or disposal via a licenced waste route. Additionally, all recovered debris will be taken ashore and sent for appropriate recycling or disposal at a licenced waste handling facility.	MEA: Section 4.3 NetRegs WMP Guidance https://www.netregs.org.uk/media/1718/a-simple-guide-to-site-waste-management-plans.pdf	Work with Contractor to develop plan, and audit implementation and training.	Work with SHEPD to develop plan, and ensure it is implemented.
	Location of Works	Proposed Cable Corridor	All cable installation activities will be conducted within the boundaries of the proposed cable corridor, with exception to further sea space for vessel navigation (where required) in order to facilitate cable installation.	MEA: Section 3	Audit	Implement
	General Ecology	Vessel Management	The following measures will be implemented during all installation works: • All vessels will adhere to the provisions of the Scottish Marine Wildlife Watching Code (SMWWC) and Basking Shark Code of Conduct, such as reducing speed if basking sharks are sighted and avoiding sudden changes in speed; and • Vessel crew will be made aware of all protected species within the marine environment, and their responsibility to implement the mitigation in this document.	MEA: Section 4.3 SMWWC: https://www.nature.scot/professional-advice/land-and-sea-management/managing-coasts-and-seas/scottish-marine-wildlife-watching-code	Audit	Implement, and ensure copies of the guidance are available on installation vessels.
				Basking Shark Code of Conduct:		



PHASE	ASPECT	MEASURE	REQUIREMENTS	ADDITIONAL INFORMATION	SHEPD RESPONSIBILITY	CONTRACTOR RESPONSIBILITY
Detailed Route Engineering	Cable Protection and Stabilisation	Cable Protection and Stabilisation	The proposed cable protection and stabilisation may include a tubular cable protection system such as Uraduct or split pipe and rock bags.	https://www.sharktrust.org/Handlers/Download.ashx?DMF=6137b1a1-8518-4327-9922-7b280acb8336 Sanday – North Ronaldsay Project Description MEA: Section 3	Ensure final design aligns to these parameters.	Implement during Project design.
			A pre-installation survey may be conducted using a Remotely Operated Vehicle (ROV) to assess seabed conditions and the presence of debris. Detailed geophysical and benthic surveys are ongoing which will be used to inform the final cable routing within the proposed cable corridor, including the final amount of cable protection required. The surveys are being undertaken within and in the immediate vicinity of the proposed cable corridor. These surveys and associated data analysis are ongoing and the results will be made available once completed. Where the surveys confirm the presence of sensitive benthic receptors in the proposed cable corridor, route engineering will seek to avoid sensitive habitats where possible and minimise interaction with these features. Furthermore, any Unexploded Ordnance (UXO) encountered would be avoided. As part of the route engineering process, a detailed UXO risk assessment within the proposed cable corridor has been carried out and mitigations captured as part of the installation campaign. The risk assessment concluded there is low risk throughout the proposed cable corridor (Hydrofix Ltd., 2026). Any requirement for UXO clearance will be subject to a separate marine licence.		Ensure Contractor's scope of works is included in Pre-installation surveys as per scope of works.	
	Project Design	Surveys / Design	Additional mitigation will be in place for consideration of the sensitive habitats and features within the proposed cable corridor. SHEPD will avoid cable lay in areas where designated features of the Sanday SAC (reef, seagrass, discord mussel) are found as far as practicable. Furthermore, no PLGR will be undertaken in these areas throughout the proposed cable corridor.	Sanday – North Ronaldsay Project Description MEA: Section 3	Implement	Implement during Project design.
			A CLMP that details how the survey information will be used to inform cable lay operations and routing will be developed and issued post seabed survey completion and submitted to MD-LOT and relevant stakeholders (e.g. NatureScot). The CLMP will include: • Details of the location of all works relating to the licence and cable laying techniques; • A summary of the survey work used to inform cable routing, including geophysical, geotechnical and benthic surveys, desk top studies and cable route studies where available; • A laying plan based on survey data, including details on laying methods and the avoidance of damage to reef (including discord mussel beds and kelp), intertidal mudflats and sandflats and subtidal sandbanks (including seagrass); and • Proposals for potential monitoring surveys of the seabed features reef determine how they have been impacted, whether they are likely to recover.		Audit	Implement
Historic Environment	Avoidance of Wrecks and Archaeological Sites		All wrecks or features of potential archaeological significance shall be avoided by a buffer of at least 25 m during detailed route design. The locations of wrecks and features of potential archaeological significance will be clearly identified on electronic charts on board the installation vessel and utilised to guide the proposed cable installation activities. The location of any wrecks or features of potential	MEA: Sections 4.3 and 10.3	Review final design against archaeological constraints.	Consider survey data and treat confirmed locations of archaeological



PHASE	ASPECT	MEASURE	REQUIREMENTS	ADDITIONAL INFORMATION	SHEPD RESPONSIBILITY	CONTRACTOR RESPONSIBILITY
Cable Installation				archaeological significance will be provided to Historic Environment Scotland (HES), and the United Kingdom Hydrographic Office (UKHO). A Protocol for Archaeological Discoveries (PAD) will be developed and implemented for the cable installation. Any features with archaeological potential encountered will be avoided.		potential as hard constraints.
	Otters	Avoidance of Otter holts, Laysups and Couches	A protected species survey has been carried out at each landfill. Pre-works checks will be conducted by an Ecological Clerk of Work (ECOW) prior to the commencement of the proposed cable installation activities and will include the cable landfill areas and a 200 m mitigation zone. Any identified otter holts, laysups and couches will be identified and avoided by a 40 m buffer.	MEA: Section 7.3.4	Ensure appointment of appropriately qualified ecologist is included in Contractor's scope of works. Review final design against any identified locations of otter holts, laysups and couches.	Consider survey data and treat confirmed locations of otter holts, laysups and couches as hard constraints.
	Water Quality	Tidal Trenching	The timing of trenching works will be tide dependent (working at low water when the intertidal zone is exposed).	Sanday – North Ronaldsay Project Description MEA: Sections 3 and 6.4.	Audit	Implement
	Vessel Speed	Vessel Speed	Installation vessels will be travelling at a slow speed during Project activities. The slow speed of the vessels will minimise the risk of disturbance and injury impacts to seabird and marine mammal receptors.	MEA: Section 4.3	Audit	Implement
	Benthic Habitats	Deployment of Anchors or spuds on the Seabed Will be Kept to a Minimum and Within the Identified Anchoring Areas	Deployment of anchors or spuds on the seabed will be kept to a minimum and within the identified anchoring areas (see Sanday – North Ronaldsay Project Description), therefore reducing the potential for disturbance to benthic habitats and species including those which utilise the seabed.	MEA: Section 4.3	Review statements to ensure efforts to minimise anchoring are included.	Consider method to implement alternatives to anchoring where possible.
	Otters	Mitigation for otters	An appropriately qualified ECOW will be appointed to work with the cable removal personnel and ensure sensitive otter sites are not disturbed. To mitigate the risk of otters becoming trapped within excavated trenches at the landfalls, ramps will be incorporated into trench designs to ensure otters are able to escape should they enter a trench. All mitigations will be compliant with terrestrial planning conditions including SHEPD's Otter Protection Policy.	MEA: Sections 4.3 and 7.3.4	Implement	Consider survey data and treat confirmed locations of otter holts, laysups and couches as hard constraints.
				The South North Ronaldsay seal haul-out site (used by both grey seals (<i>Halichoerus grypus</i>) and harbour seals (<i>Phoca vitulina</i>)) and the Sanday SAC (designated for harbour seals) overlaps with the proposed cable corridor.		
	Marine Mammals	Mitigation for designed seal haul-outs	Harbour seals are most sensitive to disturbance during the pupping season from 15 June to July and moulting which takes place in August. Therefore, there is no potential for overlap with the pupping season for harbour seals. For grey seals, breeding occurs September/October through to December with moulting until early April, therefore it is not possible to avoid the pupping season. For works near the beaches where seals may haul out, a Marine Mammal Observer (MMO) will carry out visual observations during daylight hours to monitor for the presence of seals before	MEA: Sections 4.3 and 7.3.2	Implement	Implement



PHASE	ASPECT	MEASURE	REQUIREMENTS	ADDITIONAL INFORMATION	SHEPD RESPONSIBILITY	CONTRACTOR RESPONSIBILITY
			cable installation and preparatory works begin. Due to the urgency of the cable replacement programme, a 200 m mitigation zone to the seals will be maintained for the cable installation campaign in 2026, and for the cable protection installation in 2027, a 500 m mitigation zone will be in place. If the MMO confirms that no seals are hauled out onshore inside the designated haul-out site such that they would be within the mitigation zone, the works will be permitted to continue. If seals are found hauled out, the works will be delayed until no seals are within the mitigation zone. The Scottish Marine Wildlife Watching Code (SNH, 2017) will be adhered to during the works.			
	Ornithology	Vessel Lighting	Lighting on-board all Project vessels will be appropriately directed and kept to the minimum level required to ensure safe operations. This will minimise disturbance to seabird species by minimising light pollution, which in turn will reduce effects associated with visual amenity.	MEA: Section 4.3	Audit	Implement
	Shipping and Navigation	Avoidance of Anchoring	In line with guidance provided by the UKHO, the International Maritime Organisation (IMO) and the Maritime and Coastguard Agency (MCA) within the Mariner's Handbook (NP100), and Marine Guidance Note (MGN) 661, SHEPD recommend that vessels should avoid demersal fishing and anchoring in proximity to subsea cables.	MEA Section 12.3	Audit	Implement
		Shipboard Oil Pollution Emergency Plans	Control measures and Shipboard Oil Pollution Emergency Plans (SOPEP) will be in place and adhered to under MARPOL Annex I requirements for all vessels. The SOPEPs will help to ensure that the potential for release of pollutants from construction, operation and decommissioning is minimised.	As per the MARPOL 73/78 requirement under Annex I, all ships with 400 gross tonnage and above must carry an oil prevention plan as per the norms and guidelines laid down by International Maritime Organization (IMO) under Marine Environmental Protection Committee (MEPC) Act.	Audit	Demonstrate vessels are compliant with requirement, and SOPEPs up to date.
	Pollution Prevention		In the event of an accidental fuel release occurring appropriate standard practice management procedures will be implemented accordingly.			
			Vessels will be equipped with waste disposal facilities (sewage treatment or waste storage) IMO MARPOL Annex IV Prevention of Pollution from Ships standards.			
		Sewage Treatment and Storage	A Waste Management Plan will be developed and implemented to ensure the waste hierarchy is followed and all waste is sent onward to recycling or disposal via a licenced waste route. Additionally, all recovered debris will be taken ashore and sent for appropriate recycling or disposal at a licenced waste handling facility.	MEA Section 4.3	Audit	Demonstrate vessels are compliant with requirement.
			A Waste Management Strategy documenting and mapping each step in the process (i.e. location and company managing waste) will be developed and will define individual roles and responsibilities.			
			Ballast water discharges from vessels will be managed under International Convention for the Control and Management of Ships' Ballast Water and Sediments, 2004 (Ballast Water Management (BWM) Convention).			
	Marine non-native species	IMO Ballast Water Convention	The BWM Convention, adopted in 2004, aims to prevent the spread of harmful aquatic organisms from one region to another, by establishing standards and procedures for the management and control of ships' ballast water and sediments. Measures will be adopted to ensure that the risk of introduction and spread of Invasive Non-Native Species (INNS) during the proposed cable installation activities is minimised, including:	MEA: Section 4.3	Audit	Demonstrate vessels are compliant with requirement.



PHASE	ASPECT	MEASURE	REQUIREMENTS	ADDITIONAL INFORMATION	SHEPD RESPONSIBILITY	CONTRACTOR RESPONSIBILITY
Commercial Fisheries and Other Sea Users	Use of Clean Materials		- Adherence to relevant BWM measures, where relevant. Vessels will be issued with an International Ballast Water Management Certificate; - Ballast Water Management Plans will be provided by contracted vessels in accordance with Regulation B-1 of the Convention, alongside Ballast Water Record Books as described by BWM Regulation B-2; - All vessels will consider the requirements of MEPC.207(62) guidelines, including for example the implementation of a biofouling management plan, and records of biofouling management practices kept in a biofouling record book; and - All vessels will have an International Anti-Fouling System Certificate (as appropriate).	MEA: Section 4.3	Audit	Implement
			Only materials free from organic contaminants shall be used to reduce the risk of INNS. Monitoring surveys will be undertaken to determine the colonisation of cable protection measures from INNS.			
			All equipment used in the proposed cable installation activities (e.g., ROVs), will be cleaned with freshwater prior to arrival on site.			
			Employment of a Fisheries Liaison Officer (FLO) will ensure all commercial fisheries operators in the vicinity of the Project will be proactively and appropriately communicated with in terms of the proposed installation activities.	MEA: Section 4.3	Implement	Provide information and updates as required
	Navigation Warnings		Notice to Mariners (NTM), local notifications to marine users, Clyde Cruising Club, Orkney Marinas, Kingfisher bulletins, Radio Navigational Warnings, and/or broadcast warnings will be promulgated in advance of any proposed works. The notices will include the time and location of any work being carried out, and emergency event procedures. Notices will also be issued if any OoS cables / boulders are removed or moved and chart updates will be provided.	MEA: Section 4.3 High Level NRA Section 1.2	Implement	Provide information and updates as required
			All vessels will operate in compliance with International Regulations for the Prevention of Collision at Sea (IRPCS) (IMO, 1972), including displaying appropriate lights and shapes, and the International Regulations for the Safety of Life at Sea (SOLAS). The SOLAS convention requires signatory flag states to ensure that ships flagged by them comply with at least these standards. In relation to the proposed cable installation activities its compliance will ensure navigational safety.	MEA: Section 4.3	Audit	Implement
	Navigational Safety		A guard vessel or small support vessel, marshalling a 500 m RCZ may be used during the installation campaign where a potential risk to the asset or danger to navigation has been identified. The requirement for a guard vessel will be considered through consultation with the Orkney Islands Council Harbour Authority, ferry operator Orkney Ferries and Installation Contractor.	MEA: Section 11.3 High Level NRA Section 1.2	Audit	Implement
			The RCZ may be reduced to 250 m (or other agreed distance) for the Orkney Ferries and vessels carrying Orkney Islands Council Harbour Authority pilots. This will be implemented through ongoing communications and agreements between the Orkney Islands Council Harbour Master, the Orkney Ferries ferry operator, SHEPD and the cable installation contractor.			
	Installation of Aids to Navigation (AtoN)		Two new AtoNs will be installed as part of the Project to ensure navigational hazards are marked appropriately.	High Level NRA Section 1.2	Implement	Implement
	Communication and Consultation		Ongoing consultations with ports and harbour authority (i.e., Orkney Islands Council (OIC)) to ensure continued awareness and communication of installation and harbour specific details relevant to minimising disruption. Ongoing consultation with fisheries as detailed within the North Coast and Orkney FLMAP to discuss the potential impacts as a result of the installation activities.	MEA: Section 12.3 High Level NRA Section 1.2	Ensure consultation is held with ports and harbour authority.	Consider outcomes of discussions and ensure the FLO and FIR are provided the



PHASE	ASPECT	MEASURE	REQUIREMENTS	ADDITIONAL INFORMATION	SHEPD RESPONSIBILITY	CONTRACTOR RESPONSIBILITY
Post Installation	Marine Survey	As Built Information	Engagement with the North Ronaldsay Ferry Terminal ferry operators and regular runners ensures awareness of the installation details which minimises disruption. Installation, maintenance and decommissioning schedules arranged to minimise impact on ferry schedules (North Ronaldsay – Papa Westray and Kirkwall – North Ronaldsay). This may extend to working in night-time hours where practicable. The contact details for the ferry operators will be shared with the installation contractor to aid in communication and awareness of upcoming works. SHEPD will, in consultation with commercial fishing stakeholders, work towards identifying acceptable and feasible mitigation options with the aim of minimising any potential effects on commercial fishing associated with the replacement of submarine electricity cable. There are various options available to mitigate the risks, including: - Continuing effective positive liaison with commercial fishing stakeholders through the pre-installation, installation and operational phases of any cable replacement; - Continued employment of FLO/Fishing Industry Representative (FIR) services until the completion of the replacement works; - Ensuring contractors comply with the contractor's obligations outlined above so as to minimise any interference to commercial fishing activities; - Managing the cable replacement works so as to minimise any potential effects on the marine environment, habitats and commercial fishing; - Raising awareness of the danger of fishing in the vicinity of submarine cable; - Adopting a hierarchical approach to submarine cable protection, taking account of sea users concerns; - Organising an installation phasing workshop (if new cable is required) to inform commercial fishermen of planned activities; - Organising installation schedules (if new cable is required) as far as is practicably possible in order to reduce the combined loss of fishing area associated with safety zones; - Distributing weekly notice of operations; - Providing information in plotter format to enable fishermen to easily interpret the information; and/or - Scouting surveys to identify potting areas and any other relevant static gear areas. Additionally, discussions will be held with fish farm operators. As built information will be collated to ascertain the actual position of the proposed cables, associated protection measures and locations of potential snagging risks.	MEA: Section 4.3	Ensure Contractor's scope of works.	Collate information as per scope of works.
	Cable protection	Cable Protection and Monitoring Plan	A separate CPMP for the Spring / Summer 2027 cable protection installation activities will be prepared and submitted following completion of the Autumn 2026 cable laying campaign. This will detail the cable protection requirements and seeks to minimise the rock bag used, taking environmental constraints, cable position and survey results into account.	MEA: Section 4.3	Ensure Contractor's scope of works.	Collate information as per scope of works.
	Historic Environment	Reporting Wrecks	The location of any wrecks or features of potential archaeological significance will be provided to HES and the UKHO.	MEA Section 10.4	Submit data to relevant stakeholders.	Provide SHEPD with relevant information and data in agree format.
	Close Out Reporting	Marine Licence	A close out report will be submitted to MD-LOT providing details of actual material deposits on the seabed, an as-built locations of the proposed cables.	N/A	Submit report to MD-LOT	
		EPS Licence	Marine Mammal reports to be provided to MD-LOT for geophysical survey activities if required by the EPS Licence.	N/A	Submit report to MD-LOT	



PHASE	ASPECT	MEASURE	REQUIREMENTS	ADDITIONAL INFORMATION	SHEPD RESPONSIBILITY	CONTRACTOR RESPONSIBILITY
	Updating Marine Stakeholders	Provision of As-built Survey Data	As built survey data will be provided to the UKHO and Kingfisher for inclusion on Admiralty Charts and the Kingfisher Information Service – Offshore Renewable and Cable Awareness (KIS-ORCA) charts.	MEA Section 4.3	Submit relevant data to stakeholders.	