



Awel y Môr Offshore Wind Farm

Applicant's Response to R17Q1.1

Deadline 4

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RWE Renewables UK Swindon Limited

Windmill Hill Business Park Whitehill Way Swindon Wiltshire SN5 6PB T +44 (0)8456 720 090

Registered office: RWE Renewables UK Swindon Limited Windmill Hill Business Park Whitehill Way Swindon



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1 Introduction

- 1 Awel y Môr Offshore Wind Farm Limited (the Applicant) has prepared this document in response to question 1.1 from the Rule 17 letter issued by the Examining Authority (ExA) on 15 November 2022.
- 2 Question 1.1 reads as follows:

"The Applicant's Deadline 1 Update on the ML Submission and Progress [REP1-014] states that:

"The ExA is able to rely on Marine Licence conditions which are not within the control of the DCO (e.g. for securing mitigations offshore) provided the Secretary of State (SoS, as the DCO decision-maker) is confident that matters will be dealt with appropriately under a separate decision-making regime. This position is endorsed by NRW-MLT" (Para 2)

To help ensure that the ExA (and the SoS) have this confidence, please provide the following documents or a deadline for when they can be provided which would allow sufficient time for comments from other parties within the Examination process:

Templates to be used for:

- 1. Emergency Response Co-operation Plan
- 2. Dropped Objects Plan

A draft Table of Contents for:

- 1. Marine Pollution Contingency Plan
- 2. Lighting and Marking Plan
- 3. Cable Burial Risk Assessment
- 4. Construction Method Statement
- 5. Vessel Traffic Management Plan

An Outline for:

- 1. Project Environmental Management Plan
- 2. Cable Specification and Installation Plan
- 3. Scour Protection Management Plan
- 4. UXO specific Marine Mammal Mitigation Protocol."



- 3 As such, the Applicant has prepared a template for each of the above plans in the same format for clarity. The sections, subsections, and a brief description of the anticipated content have been given in order to provide the ExA with a clearer understanding of the approach and aim of each plan.
- 4 Due to the final details of the project's offshore elements being undecided before consent is granted, the Applicant is unable to produce full plans or include a high degree of detail. Whilst high-level templates of typical marine plans are provided in this document, it should be noted that the structure and content of the final plans may differ significantly for a variety of reasons such as:
 - The legislative requirements and industry guidance at the time of writing.
 - The preferences of the regulator and their advisors/ consultees, crucially in relation to the conditions imposed on any Marine Licence(s) granted by Natural Resources Wales (NRW), and their requirements for discharging those conditions.
 - Certain plans required under additional consents. For example, if it is determined during the detailed design phase that Unexploded Ordnance (UXO) clearance is required, this will be subject to an additional marine licence application.
 - The exact construction methodologies to be employed that will be determined through the detailed design stage which will determine the content of these plans, and whether certain plans are required.
 - Finally, the Applicant highlights that (as noted by the ExA in R17Q1.1), marine licence conditions for marine plans will be discharged by NRW (whereas requirements of the Development Consent Order (DCO) are discharged by local planning authorities). Therefore, whilst the following templates have been provided to assist in providing confidence to the ExA (and Secretary of State (SoS)) that matters relating to a separate regulatory process will be managed appropriately, they should not be a material consideration in and of themselves within the context of the DCO.



2 Template Plans

5 The following sections provide indicative typical structures of the requested marine plans, with brief descriptions of what the various sections of the plans would typically address.

2.1 Emergency Response Co-operation Plan

2.1.1 Introduction

Programme

Consultation

6 Overview of the Emergency Response Cooperation Plan between Awel y Môr and the Maritime Coastguard Agency (MCA).

Statement of Compliance

7 Confirmation of compliance (from the activities captured within this plan) to the consent and Marine Licence Conditions.

Associated Documents

8 Confirmation of any linked documents and plans.

Structure of the Document

9 Detail of the document structure.

Updates and Amendments to the Emergency Response Cooperation Plan

10 Process setting out how updates and amendments to the Emergency Response Co-operation Plan will be managed and reported.

2.1.2 Organisation Information

Awel y Môr Offshore Wind Farm Limited

11 Overview of the roles and responsibilities of AyM in an emergency.



- 12 Contact information for RWE staff in an emergency.
- 13 Contact information for key contractors in an emergency.
- 14 Contact information for the ERCoP author & owner.

Other Relevant Contacts

15 Other relevant contacts within RWE (i.e., Media Enquiries and Environmental Liaison Officer).

Liaison arrangements between RWE, HM Coastguard and the police.

16 Details of the liaison process and procedures between RWE, the MCA and the police.

2.1.3 Search and Rescue

Coastguard Operation Centre

- 17 Section providing details of:
 - The roles and responsibilities of the Marine Rescue Coordination Centre (MRCC);
 - Communication procedures with HM Coastguard;
 - Radio communication procedures;
 - Coastguard Operations Centre Contact information; and
 - Reporting incident position / location process.

Search and Rescue Facilities and their Response Capabilities

- 18 Section providing detail on:
 - Availability of National Search and Rescue Resources;
 - Airborne Rescue Services; and
 - Preparation for Search and Rescue Helicopters (wind farms).

Medical Advice / Assistance

19 Procedure for dealing with any personnel would require medical advice and or assistance.

Exercises



20 Detail of the procedure relating to any planned response exercises.

Unexploded Ordnance and Wreck Materials Located on or Near to OREIs

21 Detail of the process for dealing with any unexploded ordnance (UXO) identified during pre-construction surveys.

Counter Pollution

22 Detail of the commitments relating to pollution prevention and procedures for dealing with any accidental spillages.

Cumulative Search and Rescue Resources

23 Detail of the approach to dealing with cumulative Search and Rescue (SAR) activities.

2.1.4 Support Arrangements

Shore Reception Arrangements

24 Outline of the arrangements for returning survivors to shore.

Informing Next-of-Kin

25 Procedure for liaison with next-of-kin.

Criminal Actions and Accidents to Persons

26 Procedure for dealing with any suspected criminal actions and reporting of accidents.

Media Relations

27 Procedure for liaison with the media.

2.1.5 Additional Information

28 This section describes the duties and functions of various participants in SAR and explains any areas or information requirements of particular importance to SAR and other emergency response within offshore renewable energy installations (OREIs).



The Search and Rescue Mission Coordinator

The On-Scene Coordinator

Search Planning

Suspension / Termination of Search and Rescue Action

Liaison

2.1.6 Development of Specific Information

Awel y Môr Information

29 Overview of the key components of the Project in relation to the ERCoP, including site layout and structure coordinates, SAR coverage, key parameters for the WTG, nacelle & tower, blade feathering and breaking, offshore substations and cables (inter-array and export).

Lighting and Marking

30 Details of the lighting and marking within both the array area and export cable routing during both the construction and also the operation phases (where relevant).

Construction Activities

31 Overview of the construction schedule and process for keeping HMCG notified of any changes.

Safety Zones

32 Confirmation of any formal safety zones that have been granted for the project.

Emergency Response

- 33 Detail of all safety equipment involved in the installation of the wind farm, including that on:
 - Construction vessels and any dedicated Emergency Response and Rescue Vessel (ERRV); and
 - ▲ Personnel on site.



34 Detail is also provided on emergency communication systems to be used.

Emergency Shutdown Procedures and Processes

35 Section detailing the methods that will be adopted in the event that an emergency shutdown of operations is required.

Vessels / Installations on Site

36 Confirmation of the vessel information that will be provided to the MCA for both construction and operational phases of the project, inclusive of any ancillary vessels (such as guard vessels and onsite ERRVs).

Airborne Activities

37 Specifications of the helicopter types that will be used within the construction and or operation of the project.

Locating Aids Used by Personnel or Vessels Working at the Site

38 Confirmation of the locational aid requirements for vessels and personnel working at site.

Electronic Surveillance and Monitoring Systems

39 Details of the surveillance monitoring systems that will be deployed during the construction and operational phases of the project.

Radio Communication Aerials

40 Confirmation of the communication channels (e.g., 4G, Tetra radio and VHF) that will be available during the construction and operational phases of the project.

Weather Data

41 Access details for HMCG to the projects weather data.

Maintenance and Work Operations

42 Confirmation of the notification procedures from the project to HMCG for all maintenance activity.



Diving Operations

43 Details of any planning diving operations.

Integrated Emergency Response Cooperation Plan

44 Details of any shared emergency response plans with neighbouring developments.

Offshore Transmission Owner

45 Details of agreed emergency response procedures between RWE and the OFTO.

Firefighting, Chemical Hazards, Trapped Persons, etc.

46 Details of the firefighting resources and systems available on site (inclusive of all vessels and structures).

Survivors Shore Reception Arrangements

47 Procedures for dealing with the arrival of survivors following an incident offshore; a process that is to be agreed with the Police Service and MRCC.

Coastguard Operations Centre Contact Information

48 Contact information for the nearest MRCC.

Search and Rescue Facilities and their Response Capabilities

49 Details of both the national and in-field rescue assets.

Police Contact Information

50 Contact information for the relevant Police Service.

2.1.7 Emergency Action Card

51 Key information from the ERCoP with regard to contact details, phase of development and details of the project.

2.1.8 Appendix A: ERCoP Process Flow Chart



- 2.1.9 Appendix B: Suspect Unexploded Ordnance Reporting Form
- 2.1.10 Appendix C: Guard Vessel Procedures

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2.2 Dropped Objects Plan

2.2.1 Introduction

Programme

Consultation

Statement of Compliance

52 Confirmation of compliance (from the activities captured within this plan) to the consent and Marine Licence Conditions.

Associated Documents

53 Confirmation of any linked documents and plans.

Structure of the Document

54 Detail of the document structure including an example of the dropped objects form in Appendix A.

Updates and Amendments to the Dropped Objects Plan

55 Process setting out how updates and amendments to the Dropped Objects Plan will be managed and reported.

Project Background

56 Project context.

Aim and Scope

57 Overview and objectives for the plan including the definition of a dropped object.

2.2.2 Responsibilities

Awel y Môr Responsibilities

58 Roles and Responsibilities of the Awel y Môr project team of relevance to the plan.



Contractor Responsibilities

59 Roles and Responsibilities of the Contractors of relevance to the plan.

Employer (Client) Vessel Representatives Responsibilities

60 Roles and Responsibilities of the Employer (Client) Vessel Representatives.

2.2.3 Dropped Objects Reporting Procedure

61 Details of the process for reporting dropped objects at the point of the incident, including who will be informed at which stage and where details of dropped objects are sent and stored.

2.2.4 Recovery of Dropped Objects

62 Details of what retrieval efforts are expected and the procedure and risk assessments necessary when an object is considered unable to be retrieved.

2.2.5 Appendix A - Dropped Object Incident Report Form

63 The Dropped Object Incident Report form to be used including the contact details and timeframes for notification.



2.3 Marine Pollution Contingency Plan

2.3.1 Introduction

Programme

Consultation

Statement of Compliance

64 Confirmation of compliance (from the activities captured within this plan) to the consent and Marine Licence Conditions.

Associated Documents

65 Confirmation of any linked documents and plans.

Structure of the Document

66 Detail of the document structure.

Updates and Amendments to the Marine Pollution Contingency Plan

67 Process setting out how updates and amendments to the Marine Pollution Contingency Plan will be managed and reported.

Project Background

68 Project context.

Purpose and Scope of this Document

69 Overview and objectives for the plan.

2.3.2 Roles and Responsibilities

Awel y Môr Responsibilities

70 Roles and Responsibilities of the Awel y Môr project team of relevance to the plan.

Contractor Responsibilities



71 Roles and Responsibilities of the Contractors (Construction and Operation & Maintenance phase) of relevance to the plan.

Regulatory / Advisor Responsibilities

72 Roles and Responsibilities of the Regulatory Authority across the Construction and Operation & Maintenance phase) of relevance to the plan.

2.3.3 Incident Classification

73 Detail of the tiered approach to a spill response.

2.3.4 Response Strategies

74 A holistic representation of the sequential process that will be followed following a spill for all tiers.

2.3.5 Action Plan

75 Confirmation of the steps involved in taking action (persons responsible and specific actions to be taken) following a spill.

2.3.6 Action Checklists

76 A series of formal action checklists for various parties and individuals involved in a spill.

2.3.7 Reporting

77 Details of the agreed reporting process including what details are reported and where reports are sent.

2.3.8 Training and Exercises

78 Detail of the training requirements / practices for key personnel involved in the project.



2.4 Lighting and Marking Plan

2.4.1 Introduction

Programme

Consultation

Statement of Compliance

79 Confirmation of compliance (from the activities captured within this plan) to the consent and Marine Licence Conditions.

Associated Documents

80 Confirmation of any linked documents and plans.

Structure of the Document

81 Detail of the document structure.

Updates and Amendments to the Lighting and Marking Plan

82 Process setting out how updates and amendments to the Lighting and Marking Plan will be managed and reported.

2.4.2 Lighting and Marking Project Overview

Introduction

83 Project overview and confirmation of key components of the final scheme design.

Awel y Môr Project Layout

84 Confirmation of the layout plan for the wind farm array.

2.4.3 Marine Navigation Lighting and Marking

Introduction

85 Outline for the section and confirmation of guidance that has informed the plan.



Marking Navigation Lighting and Marking during Construction

86 Confirmation of the phases of construction and the temporary marking that will be in place, including details and precise locations of all navigational buoyage (cardinal and special mark), and precommissioning lighting and marking.

Marking Navigation Lighting and Marking during Operation

- 87 Confirmation and details of all buoyage and lighting that will be in place during the operational phase of the project. Lighting information will contain detail on control systems.
- 88 Details also provided for fog signals, operational marking, along with procedures for any failure of navigation lighting / marking.
- 89 Conformation of compliance with consent.

2.4.4 Aviation Lighting and Marking

Introduction

90 Outline for the section and confirmation of guidance that has informed the plan.

Aviation Lighting and Marking during Construction

91 Confirmation of the nature and location of all aviation lighting and marking applied during the full construction phase of the project.

Aviation Lighting and Marking during Operation

- 92 Detail (specification and location) of the aviation lighting during the operational phase under normal operations, inclusive of the control systems that will be in place.
- 93 Detail of SAR lighting, its control system and confirmation as to how and when SAR lighting will be applied.
- 94 Confirmation of the procedures that will be implemented in the event of failure to aviation lighting.



95 Detail of the aviation marking applied to WTGs and substructures.

2.4.5 Paint Markings

96 This section provides detail on the marking for all above surface infrastructure and the guidance under which this marking is determined.

Wind Turbine Generator Markings

Transition Piece Marking

Foundation Marking

Offshore Substation Paint Markings

2.4.6 Interaction with Adjacent Wind Farms

97 Detail of any implications of the adjacent wind farms to the lighting and marking requirements of the projects and how this will be managed over the project lifetime.



2.5 Cable Burial Risk Assessment

2.5.1 Introduction

Programme

Consultation

Statement of Compliance

98 Confirmation of compliance (from the activities captured within this plan) to the consent and Marine Licence Conditions.

Associated Documents

99 Confirmation of any linked documents and plans.

Structure of the Document

100 Detail of the document structure.

Updates and Amendments to the Cable Burial Risk Assessment

101 Process setting out how updates and amendments to the Cable Burial Risk Assessment will be managed and reported.

Background

102 Background to the Project.

Objectives and Purpose of Document

103 Summary of the objectives and purpose of the Cable Burial Risk Assessment (CBRA).

2.5.2 Review of Data

Data Sources

104 Overview of the data (both primary and secondary) that has been used to inform the CBRA.

Data Adequacy and Gaps



105 Identification of relevance of the available data to informing the CBRA and clarification as to any gaps in these data. Confirmation provided on the impact of any gaps on the risk assessment where necessary.

2.5.3 Regional Overview

Site Overview

106 Overview of the environment within which the project is cited.

Regional Bathymetry

107 Characterisation of bathymetry within which the project is cited.

Regional Geology

108 Characterisation of geological conditions within which the project is cited.

Metocean Conditions

109 Characterisation of metocean conditions relevant to the project location.

2.5.4 Route Description

110 Description of all cable route options (noting that at this stage minor routing options may exist to facilitate future micrositing). Description covers all relevant seabed features and conditions (physical, biological and human) associated with each section of the cable route(s) described.

2.5.5 Burial Risk Assessment Methodology

Introduction

111 Overview of the approach to the risk assessment.

Methodology

112 Detailed approach to the methodology including relevant guidance, principles followed, risk assessment tables, hazard classification etc.

Threat Lines



113 Detail of the approach to establishing maximum depth of hazards into the seabed.

Probabilistic Assessment of Shipping

114 Approach to the probabilistic assessment of shipping risk (from anchor strike).

Factor of Safety

115 Detail of the Factor of Safety (multiplying factor) and how it is used to manage uncertainty in the data.

2.5.6 Hazard Identification and Assessment

Introduction

116 Introduction to the section, describing how primary and secondary hazards are considered.

Hazard Classification and Associated Risk

117 Classification of the different types of hazards considered by the plan.

Hazard Assessment

118 Assessment of all hazards (and where relevant informed by the HAZID workshop) that may influence the depth of burial.

2.5.7 Preliminary Depth of Lowering

Introduction

119 Overview of the risk assessment carried out and confirmation as to how threat lines have been developed.

Depth of Lowering – Anthropogenic Hazards

120 Description of the anthropogenic risks along the route and how this has influenced the recommended depth of lowering.

Depth of Lowering – Natural Hazards



121 Description of the anthropogenic risks along the route and how this has influenced the recommended depth of lowering.

Summary of Minimum and Recommended Depth of Lowering

122 Summary of the key recommendation outlined in the sections described by paragraphs 120 and 121.

2.5.8 Cable Burial Techniques Assessment

Cable Burial Techniques

123 Confirmation and detail of the cable burial techniques for all elements of the installation works.

Cable Burial Tools

124 Confirmation and detail the cable burial tools for all elements of the installation works.

Preliminary Trenching Assessment

125 Consideration of how each tool may perform in the expected seabed conditions – typically a tabulated approach informed by existing guidance.

Additional Cable Protection Methods

126 Detail of any additional cable protection (such as rock placement / mattressing etc).

2.5.9 Conclusions and Recommendations

Conclusions

127 Conclusions, summarising the key findings of the CBRA.

Recommendations

128 Recommendations relating to the key risks and proposed techniques for cable installation and burial to ensure no unacceptable risks remain with regard to cable burial depth.



2.6 Offshore Construction Method Statement

2.6.1 Introduction

Programme

Consultation

Statement of Compliance

129 Confirmation of compliance (from the activities captured within this plan) to the consent and Marine Licence Conditions.

Associated Documents

130 Confirmation of any linked documents and plans.

Structure of the Document

131 Detail of the document structure.

Updates and Amendments to the Offshore Construction Method Statement

132 Process setting out how updates and amendments to the Offshore Construction Method Statement will be managed and reported.

Background

133 Overview of the Project including the key components of the schemes final design.

Purpose of the Offshore Construction Method Statement

134 Detail of the Offshore Construction Method Statement (CMS) and how it relates to other relevant documents and the Marine Licence conditions that underpin these.

2.6.2 Awel y Môr Consent

135 Confirmation as to where the relevant conditions within the Marine Licence are captured within the Offshore CMS.



2.6.3 Construction Overview and Programme

Introduction

136 Overview of the key phases of construction and the activities that will take place within each phase.

Contractor and Vessel Details

137 Detail of the contractors, vessels involved in each element of the construction process, along with a description of the scope of their work and their responsibilities.

Construction Programme

138 A programme capturing each phase of the construction works.

2.6.4 Wind Turbine Generators

Overview

139 An overview of the activities and components of the installation of the wind turbine generators (WTGs).

Pre-Installation Clearance Activities

140 A description of any necessary site preparation works prior to the commencement of installation works. Statements of compliance with the consent.

Foundations

141 Confirmation of the foundation specifications and installation process. Statements of compliance with the consent.

Transition Pieces

142 Confirmation of the transition piece specifications and installation process. Statements of compliance with the consent.

Wind Turbine Generators



143 Confirmation of the WTG specifications and installation process. Statements of compliance with the consent.

2.6.5 Inter-Array Cables

Introduction

144 Overview of the inter-array cabling including information relating to their specification, lengths, location and confirmation as to how this complies with the consent.

Route Clearance Activities

145 Detail of any necessary route clearance activity required prior to cable installation works.

Inter-Array Cable Installation

146 A detailed account of the installation process, methodologies and equipment that will be deployed to install the inter-array cables.

2.6.6 Substation & Ancillary Structures

Overview

147 An overview of the activities and components of the installation of the wind turbine generators (WTGs).

Pre-Installation Clearance Activities

148 A description of any necessary site preparation works prior to the commencement of installation works. Statements of compliance with the consent.

Foundations

149 Confirmation of the foundation specifications and installation process. Statements of compliance with the consent.

Topsides



150 Confirmation of the topside specifications and installation process. Statements of compliance with the consent.

2.6.7 Export Cables

Export Cable Specification and Compliance

151 Detail of the export cable specification and statements of compliance with the consent.

Route Clearance

152 Detail of any necessary route clearance works (methodology, equipment, process, durations etc.).

Cable Landfall Operations and Horizontal Directional Drill Pull-in

153 Detail of cable landfall operations and Horizontal Directional Drill (HDD) works (methodology, equipment, process, durations etc.).

Intertidal Burial and Trench Backfilling Method

154 Detail of intertidal cable burial works (methodology, equipment, process, durations etc.).

Offshore Burial

155 Detail of offshore cable installation and burial works (methodology, equipment, process, durations etc). Section will include detail of any cable jointing and pull-in operations.

Cable Crossings

156 Detail of all cable crossings, including design, material and installation methodology.

Post-Installation Inspections

157 Confirmation of any post installation asset integrity inspections and how these will relate to commitments made within the ES and or Conditions of the Marine Licence.



2.6.8 Scour Protection and Cable Armouring

158 Detail of the types, volumes, locations and installation methodologies for any cable protection, inclusive of statements of compliance with the ES.

2.6.9 Associated Works

159 Detail of any ancillary activity that is required during the construction process, this may comprise matters such as temporary lighting and marking (as an example). Linkages are made to any other relevant compliance documentation (such as the lighting and marking plan, for example).

2.6.10 Disposal Plan

160 Detail of all disposal activity associated with the pre-construction and construction works, inclusive of nature of material, volumes, disposal locations methodologies etc.

2.6.11 Testing and Commissioning the Wind Farm

161 Detail of the testing and commissioning process of the wind farm and the control process for the operational phase of the project.

2.6.12 Compliance Check

162 Comprehensive summary of all final design project components cited within the CMS against the consent envelope to confirm compliance with the consent.



2.7 Vessel Traffic Management Plan

2.7.1 Introduction

Programme

Consultation

Statement of Compliance

163 Confirmation of compliance (from the activities captured within this plan) to the consent and Marine Licence Conditions.

Associated Documents

164 Confirmation of any linked documents and plans.

Structure of the Document

165 Detail of the document structure.

Updates and Amendments to the Vessel Traffic Management Plan

166 Process setting out how updates and amendments to the Vessel Traffic Management Plan will be managed and reported.

Background

167 Overview of the Vessel Traffic Management Plan (VTMP).

Consents and Licences

168 Confirmation of the relevant consent conditions within the Marine Licence to which the plan relates.

Project Description

169 Overview of the Project in the context of the plan.

2.7.2 Scope of the VTMP

170 Scope of the VTMP.



2.7.3 Location of Base Ports

Introduction

171 Outline of the ports that will be used at various points over the lifetime of the Project.

Construction Ports

172 Detail of the proposed port(s) for the construction phase.

Operation and Maintenance Port

173 Detail of the proposed port(s) for the Operation and Maintenance phase.

2.7.4 Management and Coordination of Vessels

Introduction

174 Overview of the Section.

Construction Phase

175 Summary of the management and coordination measures that will be in place for all vessels throughout the construction phase of the Project.

Operation and Maintenance Phase

176 Summary of the management and coordination measures that will be in place for all vessels throughout the construction phase of the Project.

2.7.5 Numbers, Types and Specifications of Vessels

Introduction

177 Overview of the Section.

Overview of Main Construction Vessels

178 Detail of the vessels that will be used for each component of the construction phase of the Project.

Operational Phase



179 Detail of the vessels that will be used for each component of the operation and maintenance phase of the Project.

Numbers and Movements of Vessels

180 Summary of the number of vessels and their movements associated with each component of the construction and operation & maintenance phases of the Project.

2.7.6 Indicative Transit Route Corridors

Overview

181 Overview of the indicative transit corridors for all vessels and an indication of the factors that may influence their precise routing.

Environmental Considerations

182 Details of any environmental factors from the consent that impact on the vessel routing and how those factors must influence the routing.

2.7.7 Reporting and Compliance with the VTMP

Reporting Prior to Construction

183 Detail of the reporting that must be undertaken to the relevant authority prior to the commencement of construction.

Reporting During the Construction Phase

184 Detail of the reporting that must be undertaken to the relevant authority during construction activity.

Reporting During the Operations and Maintenance Phase

185 Detail of the reporting that must be undertaken to the relevant authority during operation and maintenance phase activity.

2.7.8 Compliance

Statements of Compliance

186 Confirmation as to the compliance with the consent.



Delivery of Mitigation

187 Confirmation as to how any specific mitigative actions will be delivered through this plan.

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2.8 Project Environmental Management Plan

188 The Applicant has provided this structure of a typical Project Environmental Management Plan (PEMP), alongside an alternative PEMP structure at section 0 below. PEMPs can vary in their structure due to differences in projects and as such the Applicant has offered two potential templates for a PEMP.

2.8.1 Introduction

Programme

Consultation

Statement of Compliance

189 Confirmation of compliance (from the activities captured within this plan) to the consent and Marine Licence Conditions.

Associated Documents

190 Confirmation of any linked documents and plans.

Structure of the Document

191 Detail of the document structure.

Updates and Amendments to the Project Environmental Management Plan

192 Process setting out how updates and amendments to the Project Environmental Management Plan will be managed and reported.

Background

Scope

Purpose & Objectives

Offshore Project Environmental Management Plan Review

Project Description



Project Construction Programme

Environmental Context

2.8.2 Roles and Responsibilities

Responsibilities and RAC

Project Contacts

Key Stakeholders

Control of Contractors

2.8.3 Environmental Policy, targets and implementation

Environmental Policy

Environmental Objectives and Targets

Legislative and Regulatory Framework

Environmental Aspects, Impacts and Risk Management

Environmental Management Systems

Offshore Construction Environmental Management Plan

Management of Change

Communication, Training, Awareness and Competence

Acknowledgement of the Marine Licence

Monthly and Weekly Reporting

Audits and Inspections

Non-Compliance, Corrective and Preventive Action

Management Review

2.8.4 Environmental management principles



Ornithology

Water Quality

Air Quality

Fisheries

Offshore Chemicals and Oil

Pollution Incidents

Other Sea Users

Intertidal Zone Impacts

Electromagnetic Field (EMF) -Fish and shellfish

Dropped Objects

Marine Mammals

Aids to Navigation

Marine Archaeology

Waste Management

Construction Vessels

Asset and Vessel Collision Risk Management

Bunkering

Aviation

Operations and Control



2.9 Project Environmental Management Plan (Alternative)

193 The Applicant has provided this alternative PEMP structure in addition to the PEMP structure listed in section 0 above. PEMPs can vary in their structure due to differences in projects and as such the Applicant has offered two potential templates for a PEMP.

2.9.1 Introduction

Programme

Consultation

Background

Scope & Purpose of the PEMP

Associated Documents

Structure of the Document

Updates to the Offshore PEMP

2.9.2 Roles and Responsibilities

Responsibilities and RAC

Project Contacts

Key Stakeholders

Control of Contractors

2.9.3 Marine Pollution Contingency Plan

Overview and Objectives

Interfacing Plans

Roles and Responsibilities

Incident Classification



Response Strategies

Action Plan

Action Checklists

Training and Exercises

2.9.4 Chemical Risk Assessment

List of Notified Chemicals

Chemical Management

Estimated Hydrocarbon and Chemical Inventory

2.9.5 Disposal Management Plan

Overview and Objectives

Disposal Areas and Proposed Activities

Authorised Disposals

Monitoring and Reporting Requirements

2.9.6 Waste Management Plan

Overview and Objectives

Types of Waste

Waste Management

- 2.9.7 Archaeological Exclusion Zones
- 2.9.8 Seasonal Restrictions
- 2.9.9 Requirements for Contractors

Contractor Environmental Management Systems

Risk Assessments and Method Statements



Environmental Non-Compliance

Recording and Documenting of Incidents



2.10 Cable Specification and Installation Plan

2.10.1 Introduction

Programme

Consultation

Statement of Compliance

194 Confirmation of compliance (from the activities captured within this plan) to the consent and Marine Licence Conditions.

Associated Documents

195 Confirmation of any linked documents and plans.

Structure of the Document

196 Detail of the document structure.

Updates and Amendments to the Cable Specification and Installation Plan

197 Process setting out how updates and amendments to the Cable Specification and Installation Plan will be managed and reported.

Project Context

198 Background to the Project.

Scope & Objectives of the CSIP

199 Detail of the scope and objectives of the cable specification and installation plan (CSIP).

2.10.2 Technical Specifications – Cable Components

Technical Specifications

200 Detail of the specification of the cables.

Specification Compliance



201 Confirmation as to how the design complies with the consent.

2.10.3 Cable Burial Risk Assessment (CBRA)

Site Overview

202 Overview of the Project area within which cables will be installed.

Risk to the Cables

203 Summary of the risk to cables from anthropogenic and natural sources (based on the CBRA).

Recommendations

204 Summary of the recommendations of the CBRA.

2.10.4 Sandwave Clearance Plan

Overview

205 Overview of the Sandwave Clearance Plan.

Consultation

206 Detail of the consultation that has taken place on the development of the plan and summary of the key outcomes of this consultation.

Clearance Methodology

207 Confirmation of the methodology that will be applied to the clearance of sandwaves.

Reporting and Compliance

208 Confirmation of the reporting and statements of compliance to the marine license conditions for the plan.

Monitoring and Future Management

209 Confirmation of any monitoring and approach to management out any recommendations from the monitoring.



2.10.5 Cable Laying Plan and Installation Methodology

Cable Layout

210 Confirmation of the final design for the cable layout.

Construction Programme

211 Confirmation of the construction programme for all phases of the cable installation works.

Cable Laying Plan and Installation Methodology

212 Detailed account of the approach and methodology for the installation of all cables.

Installation Methods Compliance

213 Statements of the compliance evidencing how the cable installation falls within the consented envelope.

2.10.6 Cable Protection

Overview

214 Overview of the need for, and use of cable protection (under what circumstances it will be applied).

Cable Protection

215 Detail of the proposed cable protection material and installation methodology.

Reporting and Compliance

216 Confirmation as to the reporting process for the use of cable protection and how the Project will ensure compliance with the consent is maintained.

Monitoring and Future Management

217 Confirmation of the monitoring around cable protection and any procedures for remedial action should they be required.



2.11 Scour Protection Management Plan

2.11.1 Introduction

Programme

Consultation

Statement of Compliance

218 Confirmation of compliance (from the activities captured within this plan) to the consent and Marine Licence Conditions.

Associated Documents

219 Confirmation of any linked documents and plans.

Structure of the Document

220 Detail of the document structure.

Updates and Amendments to the Scour Protection Management Plan

221 Process setting out how updates and amendments to the Scour Protection Management Plan will be managed and reported.

Project Background

222 Overview of the Project.

Scope & Objectives of the SPMP

223 Remit of the Scour Protection and Management Plan (SPMP) with linkages to the relevant components of DCO and Marine Licence.

2.11.2 Project Site Conditions

Sedimentary Conditions

224 Overview of the sedimentary conditions around the Project location (array and export cable route).



Bathymetry and Tidal Conditions

225 Overview of the bathymetric and tidal conditions around the Project location (array and export cable route).

2.11.3 Scour Protection and Cable Armouring Design

Scour Protection Design

226 Detail information on the design of the scour protection.

Cable Crossings

227 Detailed information on the design of the cable crossings.

Cable Protection

228 Detailed design information on the protection of cables.

2.11.4 Sources and Quantities

Sources of Cable and Scour Protection

229 Confirmation of the sources of cable / scour protection material.

Quantities of Cable and Scour Protection

230 Confirmation of the quantities of cable / scour protection.

2.11.5 Installation Methodologies

231 Description of the installation process for all scour / cable protection (inclusive of any cable crossings.

Rock Installation

Mattress Installation

2.11.6 Scour Protection and Cable Protection Compliance

Reporting of Compliance



232 Confirmation that the volumes, types and locations of material used for all scour / cable protection work (inclusive of cable crossings) is compliant with the consent.

Monitoring and Future Management

233 Proposals for monitoring associated with the works captured within the plan, along with the process for any follow-up action triggered by the outputs of the monitoring.



2.12 UXO Specific Marine Mammal Mitigation Plan

234 The Applicant notes that it has not sought to licence UXO clearance in its extant Marine Licence application, however the activity has been assessed in the ES. If it is determined during the detailed design phase that UXO clearance is required, this will be subject to a separate marine licence application.

2.12.1 Introduction

Programme

Consultation

Statement of Compliance

235 Confirmation of compliance (from the activities captured within this plan) to the consent and Marine Licence Conditions.

Associated Documents

236 Confirmation of any linked documents and plans.

Structure of the Document

237 Detail of the document structure.

Updates and Amendments to the UXO Specific Marine Mammal Mitigation Plan

238 Process setting out how updates and amendments to the UXO Specific Marine Mammal Mitigation Plan will be managed and reported.

UXO Clearance

239 Background to the proposed UXO clearance work.

2.12.2 Sensitivities

Overview

240 Description of the Section.



Potentially Affected Species and Protected Sites

241 Identification and characterisation of those species and associated protected sites (where relevant) that have the potential to be affected by the UXO clearance activity.

Potential Effects of UXO Detonation

242 Characterisation of the potential effects from the UXO detonation activity based on worst case assumptions associated with the potential techniques involved in the process.

2.12.3 Marine Mammal Mitigation Protocol Approach

Overview

243 Overview of the Section.

Mitigation Zone

244 Characterisation of the zone within which mitigation for UXO clearance activity will be required, based on the outputs of Section 2.

Mitigation Approach

245 Detailed characterisation of the suite of mitigation methods that will be required to reduce the potential effects to negligible levels and the basis under which they will be deployed during UXO clearance activity.

Mitigation Process Summary

- 246 A summary of the sequential approach to the implementation of the mitigation over the course of each UXO clearance along with procedures for managing any delays to the clearance activity.
- 247 Final confirmation as to how the mitigation process will ensure effects from UXO clearance are reduced to acceptable levels.

2.12.4 Responsibilities, Communication and Reporting

Responsibilities of Key Personnel



248 Overview of key personnel and their responsibilities.

Communication

249 Communication protocol during the UXO clearance operations.

Data Collecting and Reporting

250 Summary of the data that will be collected during the clearance operations and how this will be reported to the Regulatory Authority.





RWE Renewables UK Swindon Limited

Windmill Hill Business Park Whitehill Way Swindon Wiltshire SN5 6PB T +44 (0)8456 720 090

Registered office: RWE Renewables UK Swindon Limited Windmill Hill Business Park Whitehill Way Swindon