

# Buchan Offshore Wind

## Offshore Scoping Report

### Appendix A



Code	Mitigation	Offshore topics													
		Physical and Coastal Processes	Marine Water and Sediment Quality	Benthic Subtidal and Intertidal Ecology	Fish and Shellfish Ecology	Offshore and Intertidal Ornithology	Marine Mammals and Other Megafauna	Commercial Fisheries	Shipping and Navigation	Marine Archaeology and Cultural Heritage	Military and Civil Aviation	Seascape, Landscape and Visual Impact	Socio-economics, Tourism and Recreation	Infrastructure and Other Users	Climate Change
EM1	Scour protection measures will be carefully designed to reduce impacts on the prevailing hydrodynamic, wave and sediment regimes. The use of non-burial cable protection measures will be minimised where reasonably practicable as it is the intention that cables will be buried where appropriate and reasonably practicable to do so.	✓													
EM2	Cable routes will be planned to avoid, as far as reasonably practicable, and within the bounds of wider environmental and technical criteria used to site cables, hard substrate to ensure that cables can be buried (noting that as a floating windfarm, dynamic array cables will be deployed and section may need surface laid). The routes will also be planned to reduce the requirement for bedform clearance.	✓													
EM3	During construction, all necessary plant and equipment will remain on site for the minimum practicable period of time to reduce impacts on the prevailing hydrodynamic, wave and sediment regimes and coastal processes.	✓													
EM4	Infrastructure will be micro-sited, where practicable, around any sensitive seabed habitats including Annex 1 habitat and Priority Marine Features (PMF) species to reduce impacts on these conservation features. Micro-siting will be informed by pre-construction surveys which will identify the location and extent of habitats and species.			✓	✓	✓	✓								
EM5	Development of and adherence to an Environmental Management Plan (EMP). The EMP will include mitigation measures including chemical usage, management of invasive non-native species, dropped objects, pollution prevention and waste management measures.		✓	✓	✓	✓	✓								
EM6	Development of a Marine Pollution Contingency Plan (MPCP) which will outline procedures to protect any personnel working and to safeguard the marine environment alongside any mitigation measures in the event of any accidental pollution events arising from offshore operations relating to the Proposed Development.		✓	✓	✓	✓	✓		✓						
EM7	The production of an Invasive Non-Native Species (INNS) Biosecurity Plan which will include mitigation and control for the introduction of invasive species.		✓	✓	✓	✓									
EM8	Requirement for a Decommissioning Plan to be developed.	✓	✓	✓	✓	✓									
EM9	Development of and adherence to a CaP (Cable Plan). The CaP will confirm planned cable routing, burial and any additional protection and will set out methods for post-installation cable monitoring. The CaP will be informed by a Cable Burial Risk Assessment (CBRA).	✓		✓	✓		✓	✓	✓						
EM10	Adoption of JNCC guidelines for minimising the risk of injury to marine mammals from geophysical surveys (JNCC, 2017), piling noise (JNCC, 2010b), and use of explosives if and where required (JNCC, 2010a).						✓								
EM11	Development of and adherence to a Marine Mammal Mitigation Plan (MMMP) to outline the additional mitigation to be implemented for percussive piling and UXO clearance.						✓								
EM12	Development of and adherence to a Piling Strategy (PS) (or equivalent, after consultation with stakeholders) which will set out the mitigation measures including soft-start and ramp-up measures for impact piling.				✓	✓	✓								
EM13	Use of low order deflagration (where possible) should UXO clearance be required.				✓	✓	✓								
EM14	Development of and adherence to an Entanglement Management Plan, or equivalent.				✓	✓	✓								
EM15	Development of and adherence to a Vessel Management Plan (VMP), or equivalent.					✓	✓								
EM16	Development of and adherence to a Lighting and Marking Plan (LMP). The LMP will detail how the final design complies with legal requirements with regards to shipping, navigation and aviation marking and lighting.					✓		✓	✓		✓	✓			
EM17	Development of and adherence to a Navigational Safety Plan (NSP). The NSP will describe measures put in place by the Applicant related to navigational safety, including information on Safety Zones, charting, construction buoyage, temporary lighting and marking, and means of notification of Proposed Development activity to other sea users (e.g. via Notice to Mariners).							✓	✓						
EM18	Proposed Development is marked on nautical charts including an appropriate chart note.								✓						
EM19	Application and use of safety zones during construction/major maintenance and decommissioning phases. Safety zones shall be of appropriate configuration, extent and application to specified vessels of identified primary risk.							✓	✓						
EM20	Suitable Aids to Navigation (AtoN) lighting and marking the OWF site shall be undertaken complying with IALA Recommendations G1162 (IALA, 2021), to be finalised and approved in consultation with MCA and NLB through a Lighting and Marking Plan (LMP).								✓						
EM21	Buoys deployed around construction areas of the Proposed Development in line with Northern Lighthouse Board (NLB) requirements to be developed in consultation with MCA and NLB through the LMP.								✓						
EM22	Timely and efficient distribution of Notice to Mariners (NIM), Kingfisher bulletin publications and other navigational warnings of the position and nature of works associated with the Proposed Development.							✓	✓					✓	✓
EM23	Appointment of a Company Fisheries Liaison Officer (CFLO) who will support ongoing liaison and clear communication between the Applicant and the commercial fisheries sector.							✓							
EM24	Adherence to good practice guidance with regards to fisheries liaison and procedures in the event of interactions between the Proposed Development and fishing activities (e.g., FLOWW, 2014; 2015).							✓							
EM25	Development of and adherence to a Fisheries Management and Mitigation Strategy (FMMS). The FMMS will set out the means of ongoing fisheries liaison through construction and O&M phases of the Proposed Development and detail any mitigation measures to be put in place to limit effects on commercial fisheries activity. This will include the following project policies: Fisheries Liaison Policy and Engagement Schedule, Conflict Avoidance Policy, Incident Response Policy.							✓	✓						
EM26	Any objects dropped on the seabed during works associated with the Proposed Development will be reported and objects will be recovered where they pose a hazard to other marine users and where recovery is practicable with safe operation.							✓							
EM27	Liaison with Fisheries Industry Representatives (FIRs), as appropriate.							✓							
EM28	Wind Turbine Generator (WTG) design to target a minimum blade tip height of 30 m above mean sea level (MSL) (30 m Air Gap).					✓			✓						

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EM29	MGN654 requires that hydrographic surveys should fulfill the requirements of the International Hydrographic Organisation (IHO) Order 1a standard, with the final data supplied as a digital full density data set, and survey report to the MCA Hydrography Manager and the UKHO.										✓							
EM30	Development of, and adherence to, an Emergency Response Cooperation Plan (ERCoP) in consultation with the MCA.										✓		✓					
EM31	Adherence with HSE/MCA guidance "Regulatory expectations on moorings for floating wind and marine devices" as appropriate to the Proposed Development (HSE/MCA, 2017).										✓							
EM32	All vessels working on the Proposed Development to meet the required certification standards and carriage requirements. This also includes requiring that all crew operating the vessels have the required training and qualifications under national and international regulations.										✓							
EM33	Inspection and Maintenance Programme: Regular maintenance regime to check the Project infrastructure.										✓							
EM34	Compliance of project vessels with international marine regulations as adopted by the Flag State, including the International Regulations for Preventing Collisions at Sea (COLREGs) (International Maritime Organization (IMO), 1972/77) and the International Convention for the Safety of Life at Sea (SOLAS) (IMO, 1974).										✓							
EM35	All structures of more than 91.4 m in height will be provided to the Defence Geographic Centre to allow these to be charted on aeronautical charts prior to construction.											✓						
EM36	Any temporary obstacles associated with wind farms which are of more than 91.4 m in height (e.g. construction infrastructure such as cranes and/or meteorological masts) are to be alerted to aircrews by means of the Notice to Airmen (NOTAM) system.											✓						
EM37	CAA will be informed of the locations, heights and lighting status of the wind turbines, including estimated and actual dates of construction and the maximum heights of any construction equipment to be used, prior to the start of construction.											✓						
EM38	Implementation of Archaeological Exclusion Zone (AEZs) around known wreck sites.										✓							
EM39	A desk-based survey and archaeological reviews of marine geophysical surveys and geotechnical datasets will be undertaken so that marine and intertidal historic assets can be identified and appropriate mitigation implemented.										✓							
EM40	Marine archaeological Written Scheme of Investigation (WSI) and a Protocol for Archaeological Discoveries (PAD) for items of archaeological interest would be agreed post-consent to manage potential impacts and recommend appropriate mitigation strategies for unexpected discoveries.										✓							
EM41	Adoption of and adherence to an appropriate Code of Construction Practice (CoCP).		✓				✓	✓										
EM42	Crossing agreements will be sought with cable and pipeline operators prior to construction of the Proposed Development.															✓		✓
EM43	Ongoing engagement with operators of other marine infrastructure to facilitate coexistence.															✓		✓
EM44	Consultation with third party wind farm developers to understand areas of potential interaction between multiple developments.															✓		✓
EM45	Development of, and adherence to, a Design Specification and Layout Plan (DSLPL).											✓						
EM46	WTG layout plan to be consulted on with MCA and NLB prior to construction and either maintain regularity in lines of orientation or propose a suitable alternative layout.										✓							
EM47	A Cable Specification and Installation Plan will be prepared, which may include consideration of issues such as Electromagnetic Interference Minisation.										✓							
EM48	Produce and implement a Supply Chain Development Statement.															✓		