

Morecambe Offshore Windfarm: Generation Assets

Examination Documents

Volume 9

Commitments Register (Tracked)

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Rev 021





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Assets (the Project)						9

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Glossary of Acronyms

AEZ	Archaeological Exclusion Zone
AIS	Aeronautical Information Service
AtoN	Aids To Navigation
AIP	Aeronautical Information Publication
ATN	Aids to navigation
CAA	Civil Aviation Authority
CBRA	Cable Burial Risk Assessment
COLREGS	Convention for the Prevention of Collision at Sea
DCO	Development Consent Order
DGC	Defence Geographic Centre
DML	Deemed Marine Licence
EMF	Electromagnetic fields
ERCoP	Emergency Response Cooperation Plan
ES	Environmental Statement
FLCP	Fisheries Liaison Co-existence Plan
FLOWW	Fishing Liaison with Offshore Wind and Wet Renewables Group
HAT	Highest Astronomical Tide
GHG	Greenhouse Gas
IEC	International Electrotechnical Commission
INNS	Invasive Non-Native Species
IMO	International Maritime Organisation
IPMP	In Principle Monitoring Plan
IFP	Instrument Flight Procedures
LAT	Lowest Astronomical Tide
MGN	Marine Guidance Note
MMMP	Marine Mammal Mitigation Plan
MMO	Marine Management Organisation
MOD	Ministry of Defence
MCA	Maritime and Coastguard Agency
MPCP	Marine Pollution Contingency Plan
NOTAM	Notice to Airmen
NtMS	Notice to Mariners
PAD	Protocol for archaeological discoveries
PEIR	Preliminary Environmental Information Report



PEMP	Project Environmental Management Plan
PEIVIP	Project Environmental Management Plan
PATP	Port Access and Transport Plan
PSR	Primary Surveillance Radar
RAF	Royal Air Force
SAR	Search and Rescue
TCE	The Crown Estate
TEZ	Temporary Exclusion Zone
TH	Trinity House
UKHO	United Kingdom Hydrographic Office
UWSMS	Underwater Sound Management Strategy
UXO	Unexploded Ordnance
VTMP	Vessel Traffic Management Plan
WSI	Written Scheme of Investigation
WTG	Wind Turbine Generator

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Glossary of Unit Terms

km²	square kilometre
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Glossary of Terminology

Applicant	Morecambe Offshore Windfarm Ltd
Generation Assets (the Project)	Generation assets associated with the Morecambe Offshore Windfarm. This is infrastructure in connection with electricity production, namely the fixed foundation wind turbine generators (WTGs), inter-array cables, offshore substation platform(s) (OSP(s)) and possible platform link cables to connect OSP(s).
Inter-array cables	Cables which link the WTGs to each other and the OSP(s).
Morgan and Morecambe Offshore Wind Farms: Transmission Assets	The Transmission Assets for the Morgan Offshore Wind Project and the Morecambe Offshore Windfarm. Also referred to in this report as the Transmission Assets, for ease of reading.
Offshore substation platform(s)	A fixed structure located within the windfarm site, containing electrical equipment to aggregate the power from the WTGs and convert it into a more suitable form for export to shore.
Platform link cable	An electrical cable which links one or more OSP(s).
Windfarm site	The area within which the WTGs, inter-array cables, OSP(s) and platform link cables will be present.

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Table 1 Commitments register for the Morecambe Offshore Windfarm Generation Assets (the Project)

	evant ject pha	Commitment title	Commitment detail	Rele	vant E	nviron	mental	State	ement	(ES)	topic										How is commitment secured / implemented			Decision maker / relevant	Relevant Application documents
Ref Pre-construction	Construction Operation and Maintenance	Decommissioning		Site Selection and	Project Description	EIA Methodology	Marine Geology,Oceanography & Physical Processes Marine Sediment and Water	Quality	Bentnic Ecology Fish and Shellfish Ecology		Marine Mammals Offshore Ornithology	Commercial Fisheries	Shipping and Navigation	Marine Archaeology and	Cultural Heritage Civil and Military Aviation and Radar	Infrastructure and Other Users	SLVIA	Human Health	Socio-economics, Tourism and Recreation Climate Change	Traffic and Transport		Embedded mitigation	Additional mitigation Monitoring	authority	documents
*	* *	Monitoring	Offshore monitoring requirements are described in the In-Principle Monitoring Plan (IPMP) (APP-148REP3-045) submitted alongside the Development Consent Order (DCO) application. The In-IPMP includes measures committed to, as well as options that will form the basis of discussion post-consent. The monitoring requirements will be further developed and agreed with stakeholders prior to construction based on the IPMP and taking account of the final detailed design of the Project.				*		* *		* *	*	· *								Deemed Marine Licence (DMLDevelopment Consent Order (DCO)), Schedule 6, Part 2 - Condition 9(1)(c) & 14 (1)	ļ.	*	Marine Managemei Organisatio (MMO)	In-Principle nt Monitoring Plan n (APP-148<u>REP3-</u> 045)
, v	*	Cable burial	The cable burial range would be between 0.5m and 3.0m below th seabed (with a target depth of 1.5m where ground conditions allow recognised industry good practice which would reduce effects of electromagnetic fields (EMF)). A Cable Burial Risk Assessment (CBRA) would also be required to confirm the extent to which cable burial can be achieved. Where it is not reasonably practicable to achieve cable burial, additional cable protection may be required. Following industry best-practice the Applicant would seek to minimise the use of cable protection. No more than 5% reduction water depth (referenced to Chart Datum) would occur at any point on the cable route without prior written approval from the Licensing Authority.	e in	*		*	,	* *		*	*	. *			*					DCO Schedule 6 Part 2 Condition 9(1)(d)(i) - Cable specification, installation and monitoring and 9(1)(d)(ii - scour protection management and cable protection management	*		Coastguard Agency (MCA)	Chapter 5 Project Description (APP-042REP1-022) Cable Statement (APP-020) Outline Scour Protection and Cable Protection se Plan (APP-152REP1-056) Outline Construction Method Statement (CMS) (Document Reference 9.49)
* *	*	Electromagnetic field (EMF)	Cables would be specified to reduce EMF and thermal emissions as per industry standards and best practice, such as the relevant International Electrotechnical Commission (IEC) specifications.		*			,	* *		*										DCO Schedule 6 Part 2 Condition 9(1)(d)(i) - Cable specification, installation and monitoring and 9(1)(d)(ii - scour protection management and cable protection management	*		MMO MCA TH	Chapter 5 Project Description (REP1-022APP-042) Cable Statement (APP-020) Outline Scour Protection and Cable Protection Plan (APP- 152REP1-056) Outline CMS (Document Reference 9.49)



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Ref	Pre-construction	Construction Operation and Maintenance	Decommissioning		Site Selection and Assessment of Alternatives	Project Description	EIA Methodology	Marine Geology,Oceanography & Physical Processes	Marine Sediment and Water Quality	Benthic Ecology	Fish and Shellfish Ecology	Marine Mammals	Offshore Ornithology	Commercial Fisheries	Shipping and Navigation	Marine Archaeology and Cultural Heritage	Civil and Military Aviation and Radar	Infrastructure and Other Users	SLVIA	Human Health	Socio-economics, Tourism and Recreation Climate Change	Traffic and Transport		Embedded mitigation	Additional mitigation	Monitoring Compensation	authority	
C004		*	Cable burial	To minimise the extent of any unnecessary habitat disturbance, material displaced as a result of cable burial activities would be back-filled, where practicable, in order to promote recovery.				*		*													DCO Schedule 6 Part 2 Condition 9(1)(d)(i) - Cable specification, installation and monitoring	*			MMO MCA TH	Chapter 5 Project Description (REP1-022APP 042) Cable Statement (APP-020) Outline Scour Protection and Cable Protectio Plan (REP1- 056APP-152) Outline CMS (Document Reference 9.49
C005		* *	Monitoring of cable exposure	During the lifetime of the Project, periodic geophysical surveys would be required to ensure the cables remain buried and if they obecome exposed, reburial works would be undertaken.	lo	*		*		*	*	*		*	*			*					DCO Schedule 6 Part 2 Condition 9(1)(d)(i) - Cable specification, installation and monitoring DCO Schedule 6 Part 2 Condition 16 – Post- construction monitoring DCO Schedule 6 Part 2 Condition 14 - Pre- construction monitoring and survey	*			MMO TH MCA	Outline Offshore Operation and Maintenance Plan (REP2- 020APP-150) Outline CMS (Document Reference 9.49
9000		* *	Sediment disposal	Excavated sediments would be disposed within the order limits so there is no net loss of material from the physical processes system				*															DCO Schedule 1 – Authorised Development DMLDCO Schedule 6, Part 1, Condition 2(c) – 2(e) (Details of licensed marine activities) DCO Schedule 6, Part 2 Condition 7(5) (Chemicals, debris and drilling)	*			ммо	Chapter 7 Marine Geology Oceanography and Physical Processes (APP-(APP-044 REP3-012) Sediment Disposal Site Characterisation Report (APP- 924 REP1-008)
C007	*	*	unexploded ordnance (UXO) clearance (noting the MMMP for	and based upon best available information, methodologies, indust best practice, latest scientific understanding. The MMMP will detail how the Applicant would reduce the risk of underwater noise from piling from causing auditory injury to the marine mammals that could be present in and around the Project.	d ry I							*											DMLDCO Schedule 6, Part 2 Condition 9(1)(i) (MMMP)	*	*		ММО	Outline MMMP (APP-149REP2 018)



	Rele [,] Proje		t phase	Commitment title	Commitment detail	Rele	vant l	Enviro	onme	ntal S	tatem	ent (E	ES) to	pic										How is commitment secured / implemented			ment	Decision maker / relevant	Relevant Application documents
Ref	Pre-construction	Construction	Operation and Maintenance Decommissioning			Site Selection and	Project Description	EIA Methodology	Marine Geology,Oceanography & Physical Processes	Marine Sediment and Water Quality	Benthic Ecology	Fish and Shellfish Ecology	Marine Mammals	Offshore Ornithology	Commercial Fisheries	Shipping and Navigation	Marine Archaeology and Cultural Heritage	Civil and Military Aviation and Radar	Infrastructure and Other Users	SLVIA	Human Health	Socio-economics, Tourism and Recreation Climate Change	Traffic and Transport		Embedded mitigation	Additional mitigation	Monitoring	authority	
8000		*		Monitoring of piled foundations	In the event that driven or part-driven pile foundations are proposed, monitoring must include measurements of underwater sound generated by the installation of the first four piled foundation of each piled foundation type to be installed unless the MMO otherwise agrees in writing.							*	*											DMLDCO Schedule 6, Part 2 Condition 15 (2) (construction monitoring)			*	ММО	In-Principle Monitoring Plan (<u>REP3-045</u> APP- 148)
6000	*	*		Underwater Sound Management Strategy (UWSMS)	The UWSMS will detail how the Applicant would reduce the risk of underwater noise from piling from causing auditory injury and disturbance to marine mammals and fish that could be present in and around the Project.							*	*											DMLDCO Schedule 6, Part 2 Condition 20 (Underwater Sound Management Strategy)		*		ММО	Outline Underwater Sound Management Strategy (TBC REP2-026)
C010	*	*	* *	` Air gap	The Project design has an air gap (minimum rotor clearance above sea level) of 25m above Highest Astronomical Tide (HAT).	е	*							*		*								DCO Schedule 2 – Requirement 2 (Design Parameters)	*			ммо	Chapter 12 Offshore Ornithology (REP1-032APP-049) Chapter 14 Shipping and Navigation (APP-051REP3-020)
C011	*			Site selection	Site selection by the Applicant ensured the order limits are located outside of any site designated for nature conservation.	d *					*	*	*	*	*		*							Incorporated into DCO order limits (see Offshore Statutory and Non-Statutory Nature Conservation Sites Plan (APP-010))	*			ммо	Chapter 4 Site Selection and Assessment of Alternatives (APP-041)
C012	*			Project design	The spatial extent of the windfarm site has been reduced eastward between the Preliminary Environmental Information Report (PEIR) and Environmental Statement (ES), such that the windfarm site no occupies 87km², compared to the 125km² (area awarded through the TCE leasing) assessed in the PEIR.))w *	*							*		*			*	*				Incorporated into DCO order limits (see Offshore Location Plan (APP-005))	*			ммо	Chapter 5 Project Description (REP1-022APP-042)
C013	*	*	* *	Compliance with International, UK and Flag State Regulations including International Maritime Organisation (IMO) conventions	Compliance from all Project vessels with international maritime regulations as adopted by the relevant flag state (e.g. International Convention for the Prevention of Collision at Sea (COLREGS) (IMO, 1972) and International Convention for the Safety of Life at Sea (SOLAS) (IMO, 1974).	I										*			*					DMLDCO Schedule 6, Part 2 Condition 9(1)(j) (VTMP) / under statutory obligations	*			MMO MCA TH	Outline VTMP (APP-153REP3- 047)
C014	*	*	* *	* Aviation safety	Aviation stakeholders would be made aware of the Project via Notice to Airmen (NOTAM)s and obstacle details would be passed to the Civil Aviation Authority (CAA) at least eight weeks before construction commences. CAA would forward the information to Ministry of Defence (MOD), Defence Geographic Centre (DGC) ar National Air Traffic Service (NATS) Aeronautical Information Service (AIS) for inclusion in the Aeronautical Information Publication (AIP) and on relevant civil and military aeronautical charts.													*						DCO Schedule 2, Requirement 3 (Aviation safety)	*			CAA	Chapter 16 Civil and Military Aviation and Radar (APP-053 REP3-024)
C015	*	*	* *	Archaeological Exclusion Zones (AEZs)	AEZs would be employed around known archaeological significant anomalies and Temporary Exclusion Zones (TEZs) would be employed around areas where an anomaly is not visible in the survey data, but it is likely to exist.	t											*							DMLDCO Schedule 6, Part 2 Condition 9(1)(f) (WSI)	*			MMO Historic England	Outline Written Scheme of Investigation (APP-154)



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Ref	Pre-construction	Construction Maintenance	Operation and Maintenance Decommissioning	Billione			Site Selection and	Assessment of Alternatives Project Description	EIA Methodology	Marine Geology, Oceanography & Physical Processes	Marine Sediment and Water Quality	Benthic Ecology	Fish and Shellfish Ecology	Marine Mammals	Offshore Ornithology	Commercial Fisheries	Shipping and Navigation	Marine Archaeology and Cultural Heritage Civil and Military Aviation and	Radar Infrastructure and Other Users	SLVIA	Human Health	Socio-economics, Tourism and Recreation	Cinnate Change Traffic and Transport		Embedded mitigation	Additional mitigation Monitoring Compensation	authority	
C016	*	*	* *	* ar	rotocol for rchaeological scoveries (PAD)	In order to account for unexpected discoveries of archaeological material during construction, operation and decommissioning, a PAD would be used. This would be produced in line with the relevant principles laid out in the Written Scheme of Investigation (WSI).												*						DMLDCO Schedule 6, Part 2 Condition 9(1)(f) (WSI)		*	MMO Historic England	Outline Written Scheme of Investigation (APP-154)
C017		*		Pi	iling foundation types	For piled foundation types, such as monopiles and jackets with pins piles, pile-driving would be used in preference to drilling, where it is practicable to do so (i.e. where ground conditions allow).				*	*													DCO Schedule 2 (para 2) - Design Parameters DMLDCO Schedule 6, Part 2 Condition 9(1)(d)(iii) (foundation installation methodology)	*		ммо	Chapter 5 Project Description (REP1-022APP-042) Outline CMS (Document Reference 9.49)
C018		*	*	Us	se of scour protectior	Scour protection is built into the design for each foundation type in consideration and where installed after the foundation, it would be installed as early as practicable (typically within the same season after the foundation installation).		*		*	*	*												DCO Schedule 1— Authorised Development DMLDCO Schedule 6, Part 2, Condition 9(1)(d)(ii) (scour protection management and cable protection management)	*		ММО	Chapter 5 Project Description (REP1-022APP-042) Outline Scour Protection and Cable Protection Plan (REP1-056APP-152)
C019	*	*		Se	eabed preparation	Micro-siting (for foundations and cable installation) would be used where possible to minimise the requirements for seabed preparation prior to foundation and cable installation.				*	*	*						*						DCO Schedule 6 Part 2 Condition 9(1)(d) - Construction Method Statement. DCO Schedule 2 - Requirement 2 (Design Parameters) DML_DCO Schedule 6, Part 2 Condition 9(1)(a) (Design Plan) and Condition 10(3)	*		ММО	Chapter 5 Project Description (REP1-022APP- 042) Outline CMS (Document Reference 9.49)n/a
C020	*				re-construction urveys	Pre-construction surveys would be implemented by the Applicant in order to identify any potential hazards within the windfarm site. These would include geophysical surveys to identify seabed hazards such as discarded fishing gear, wrecks or unidentified objects and magnetometer surveys to identify for the presence of Unexploded Ordnance (UXO) devices. Any identified UXO devices would be avoided through micrositing or require a subsequent UXC clearance campaign which would be subject to separate consent. The pre-construction surveys also include the need to undertake a swath bathymetry survey to IHO Order 1a standard that meets the requirements of MGN654 and its annexes, and side scan sonar, of the area(s) within the Order limits in which it is proposed to carry out construction works.				*	*	*	*	*		*	*	*	*					DMLDCO Schedule 6, Condition 9(1)(c) (monitoring plan) DMLDCO Schedule 6, Part 2 Condition 14 (Pre-construction monitoring and surveys) DMLDCO Schedule 6, Part 2 Condition 9(2) (Pre-commencement surveys)	*		ММО	IPMP (APP-148 REP3-045)



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Ref	Pre-construction Construction	Operation and Maintenance	Decommissioning		Site Selection and Assessment of Alternatives	Project Description	EIA Methodology	Marine Geology,Oceanography & Physical Processes	Marine Sediment and Water Quality	Benthic Ecology	Fish and Shellfish Ecology	Marine Mammals	Offshore Ornithology	Commercial Fisheries	Shipping and Navigation	Marine Archaeology and Cultural Heritage	Civil and Military Aviation and Radar	Infrastructure and Other Users	SLVIA	Human Health	Socio-economics, Tourism and Recreation Climate Change	Traffic and Transport		Embedded mitigation	Additional mitigation	Monitoring Compensation	authority	
C021		*	Post-construction surveys	The post-construction surveys will include a full sea floor coverage swath-bathymetry survey that meets the requirements of MGN654 and its annexes, and side scan sonar, of the area(s) within the Order limits in which construction works were carried out to assess any changes in bedform topography and such further monitoring o assessment as may be agreed to ensure that cables (including fibroptic cables) have been buried or protected. During operation, other surveys that would be implemented by the Applicant are as follows: Asset protection studies/surveys and need for any remedia measures Drop down video surveys to ensure the safe placement of equipment during maintenance Invasive Non-Native Species (INNS) monitoring in-line with asset inspection surveys	s r ree	*		*	*	*	*	*		*	*								DMLDCO Schedule 6, Condition 9(1)(c) (monitoring plan) DMLDCO Schedule 6, Condition 16 (post- construction monitoring)		*		ммо	IPMP (<u>REP3-045</u> APP-148) Outline OOMP (<u>REP2-020</u> APP-150)
C0222	* *		Minimise use of scour and cable protection	Following industry best-practice the Applicant would seek to minimise the use of cable protection.						*	*			*	*			*					DMLDCO Schedule 6, Part 2 Condition 17 (Reporting of scour and cable protection) DCO Schedule 6 Part 2 Condition 9(1)(d)(i) and 9(1)(d)(ii) - Construction Method Statement, including: cable specification and installation plan and scour protection management and cable protection management	*			ммо	Outline Scour Protection and Cable Protection Plan (REP1- 056APP-152)
C023	*		Underwater noise	A soft start and ramp up protocol for pile driving (if piled foundation are selected) may also allow mobile species to move away from th area before the maximum hammer energy with the greatest noise impact area is reached.	s e						*	*											DMLDCO Schedule 6, Part 2 Condition 9(1)(d) (offshore construction method statement) DCO Schedule 6 Part 2 Condition 9(1)(i) – Marine Mammal Mitigation Protocol (MMMP) (for piling procedures) DMLDCO Schedule 6, Part 2 Condition 15 (construction monitoring) DMLDCO Schedule 6, Part 2 Condition 19 (Marine Noise Registry)	*			ммо	Outline CMS (Document Reference 9.49) Outline MMMP (REP2-018APP-149)



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Ref Pre-construction	Construction	Operation and Maintenance	Decommissioning		Site Selection and Assessment of Alternatives	Project Description	EIA Methodology	Marine Geology, Oceanography & Physical Processes	Marine Sediment and Water Quality	Benthic Ecology	Fish and Shellfish Ecology	Marine Mammals	Offshore Ornithology	Commercial Fisheries	Shipping and Navigation	Marine Archaeology and Cultural Heritage	Civil and Military Aviation and Radar	Infrastructure and Other Users	SLVIA	Human Health	Socio-economics, Tourism and Recreation	Climate Change Traffic and Transport		Embedded mitigation	Additional mitigation Monitoring	Compensation Compensation	
C024	*		Concurrent piling	No Project concurrent piling is to be undertaken (for foundations requiring piling (monopiles or jackets with pin-piles)).							*	*											DMLDCO Schedule 6, Part 2 Condition 9(1)(d) (Construction Method Statement) Condition 9(1)(i) (MMMP)	*		ммо	Chapter 5 Project Description (REP1-022AF 042) Chapter 10 Fi and Shellfish Ecology (APP 047REP3-016 Chapter 11 Marine Mammals (AF 048REP1-030 Outline CMS (Document Reference 9.4
C025	*	*	Vessel traffic monitoring	Continuous vessel monitoring during construction and immediate period post construction to MCA approval.										*	*			*					DMLDCO Schedule 6, Part 2 Condition 15 (Construction monitoring) DMLDCO Schedule 6, Part 2 Condition 16 (Post construction monitoring)	*		MCA TH UKHO	IPMP (APP- 148 <u>REP3-045</u>
C026	*	*	Guard vessels	Provision of a guard vessel in the vicinity of the windfarm site durin construction or major maintenance to monitor third party vessel traffic and intervene with warnings as necessary.	ng									*	*			*					DMLDCO Schedule 6, Part 2 Condition 9(1)(j) (VTMP)	*		MCA TH UKHO	Outline VTMP (REP3-047AF 153) Outline FLCP (APP-147 REP3-043)
C027	*	*	* Maritime Navigation Engagement Forum	Maintain the MNEF in collaboration with the Morgan Offshore Wind Project: Generation Assets and Mona Offshore Wind Project to facilitate information sharing and management/identification of additional risk controls: Identify near misses and investigate incidents, disseminating learnings. Coordinate construction activities.	d									*	*			*					Commitment made in the CRNA and would be implemented via collaboration with the Mona and Morgan projects			N/A	Appendix 14.2 CRNRA (APP 074)
C028			* Decommissioning programme	An Offshore Decommissioning Programme would be developed post-consent and implemented at the time of decommissioning.		*		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	DCO Schedule 2 Requirement 810 (Decommissioning)	*		ММО	Chapter 5 Project Description (REP1-022AF 042)



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Ref	Constitution	Operation and Maintenance	Decommissioning		Site Selection and	Project Description	EIA Methodology	Marine Geology,Oceanography & Physical Processes	Marine Sediment and Water Quality	Benthic Ecology	Fish and Shellfish Ecology	Marine Mammals	Offshore Ornithology	Commercial Fisheries	Shipping and Navigation	Marine Archaeology and	Cuitural neritage Civil and Military Aviation and	Infrastructure and Other Users	SLVIA	Human Health	Socio-economics, Tourism and Recreation	Traffic and Transport			Embedded mitigation	Additional mitigation	Monitoring Compensation	authority	
C029	*	* *	* Pollution prever	The Applicant is committed to the use of best practice techniques and due diligence regarding the potential for pollution throughout construction, operation and maintenance, and decommissioning activities through the preparation of a Project Environmental Management Plan (PEMP) including Marine Pollution Contingent Plan (MPCP) and chemical risk assessment in line with international and national regulations and guidance.	all				*	*	*	*		*	* -								CC CC St Par (P as DC de DC Rc	CO Schedule 6 Part 2 ondition 9(1)(d) - onstruction Method tatement MLDCO Schedule 6, art 2 Condition 9(1)(e) PEMP including MPCP and chemical risk ssessment) MLDCO Schedule 6 art 2 Condition 7 Chemicals, drilling and ebris) CO Schedule 2 equirement 108 Decommissioning)	*			ммо	Outline CMS (Document Reference 9.49 Outline PEMP (APP-146 REP3-041)
C030	*	***	* Biosecurity mea	The Applicant would implement biosecurity measures in line with international and national regulations and guidance, namely: International Convention for the Prevention of Pollution from Ships (MARPOL), which sets out requirements, including appropriate vessel maintenance The Environmental Damage (Prevention and Remediation (England) Regulations 2015, which set out a 'polluter pay principle whereby operators who cause a risk of significant damage to water and biodiversity receptors are responsible for i) preventing damage from occurring; and ii) bearing the costs for full reinstation of the environment (to original condition) in the event of damage occurring The International Convention for the Control and Management of Ships' Ballast Water and Sediments (BW Convention), which provides an international framework for the control of transfer of potentially invasive species from ballast water	m i) i) is it tlee e M or				*	*	*	*											Par (Par m Na Di Par (C	MLDCO Schedule 6 art 2 Condition 9(1)(e) PEMP, including MPCP nd measures to inimise Invasive Non- ative Species (INNS)) MLDCO Schedule 6, art 2, Condition 7 Chemicals, drilling and ebris)	*			ммо	Outline PEMP (<u>REP3-041</u> APP 146)
C031	* :	* *	* Safety zones	The following Safety Zones would be applied for by the Project following consultation: 500m safety zones around any structure where construction decommissioning work is underwater, as indicated by the presence of large construction vessel(s) 50m safety zones around any partially completed structure during the construction phase where work is not underwater. 500m safety zones around any structures undergoing material materials are during the operational phase, defined as working requiring a large or Restricted in the Ability to Manoeuvre vessel	he e / or rk									*	*			*					Pa	MLDCO Schedule 6 art 2 Condition 11 Safety zones)	*			MCA TH UKHO <u>SoS</u>	Safety Zone Statement (APP-023REP1 006)



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Ref	Pre-construction	Construction	Operation and Maintenance Decommissioning			Site Selection and		EIA Methodology	Marine Geology,Oceanography & Physical Processes	Marine Sediment and Water Quality	Benthic Ecology	Fish and Shellfish Ecology	Marine Mammals	Offshore Ornithology	Commercial Fisheries	Shipping and Navigation	Marine Archaeology and Cultural Heritage Civil and Military Aviation and	Radar	Infrastructure and Other Users	SLVIA Himan Health	Socio-economics,	Tourism and Recreation Climate Change	Traffic and Transport		Embedded mitigation	Additional mitigation Monitoring Compensation	authority	aocuments -
C032	*	*	* *		Vessel movements, where possible, will follow set vessel routes and hence areas where marine mammals and birds are educe accustomed to vessels, in order to reduce any increased collision in the risk and disturbance. All vessel movements will be kept to the minimum number that is required. Additionally, vessel operators use good practice to reduce any risk of collisions with marine mammals and disturbance to rafting birds.	on							*	*										DMLDCO Schedule 6 Part 2 Condition 9(1)(d) (Construction Method Statement), DMLDCO Schedule 6 Part 2 Condition 9(1)(e) (PEMP) DMLDCO Schedule 6 Part 2 Condition 9(1)(i) (MMMP)		*	MMO MCA TH	Outline PEMP (REP3-041APP- 146) Outline MMMP (REP2-018APP- 149) Outline CMS (Document Reference 9.49)
C033	*	*	* *	Aids to navigation management pla		king									*	*								DMLDCO Schedule 6, Part 2, Condition 5 AtoN)	*		MCA TH MMO	Chapter 14 Shipping and Navigation (APP-051REP3- 020) Outline VTMP (REP3-047APP- 153)
C034	*	*	* *	Fisheries liaison	The Applicant is committed to ongoing liaison with the fishing industry throughout all stages of the Project, based upon Fishin Liaison with Offshore Wind and Wet Renewables Group (FLOW (2014, 2015) guidance.	g W)									*									DMLDCO Schedule 6, Part 2, Condition 9(1)(k) (FLCP including Fisheries Liaison Officer (FLO))	*		MCA TH MMO	Outline Fisheries Liaison and Co- existence Plan (APP-147REP3- 043)
C035	*	*	*	Fisheries Liaisor Co-existence Pla (FLCP)		n									*									DMLDCO Schedule 6, Part 2 Condition 9(1)(k) (FLCP)	*	*	MCA TH MMO	Outline FLCP (<u>REP3-043APP-</u> 147) IPMP (<u>APP-</u> 148 <u>REP3-045</u>)
C036	*	*	* *	Lighting and ma	Lighting the Project in accordance with relevant industry guidan and as advised by relevant stakeholders, including the MCA, C/ and Trinity House (TH). The Applicant would also ensure the Project is adequately marked on nautical charts.										*	*		*	*	*				DCO Requirement 3 (Aviation safety) DMLDCO Schedule 6, Part 2 Condition 4 (Notifications and inspections) DMLDCO Schedule 6, Part 2 Condition 5 (AtoN) DMLDCO Schedule 6, Part 2 Condition 9 (Preconstruction plans and documents)	*		MCA TH CAA	Outline VTMP (<u>REP3-047</u> APP- 453)
C037	*	*	* *	Colouring of stru	Except as otherwise required by TH, the undertaker must paint structures forming part of the authorised project yellow (colour of RAL 1023) from at least HAT to a height as directed by TH. Unless the MMO otherwise directs, the undertaker must paint the remainder of the structures grey (colour code RAL 7035).	ode									*	*		*	*	*				DMLDCO Schedule 6, Condition 6 (Colouring of Structures)	*		тн	n/a



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Ref	Pre-construction	Construction	Operation and Maintenance	Decommissioning			Site Selection and Assessment of Alternatives		EIA Methodology	Marine Geology,Oceanography & Physical Processes	Marine Sediment and Water Quality	Benthic Ecology	Fish and Shellfish Ecology	Marine Mammals	Offshore Ornithology	Commercial Fisheries	Shipping and Navigation	Marine Archaeology and Cultural Heritage	Civil and Military Aviation and Radar	Infrastructure and Other Users	SLVIA Human Haalth	Socio-economics,	l ourism and Recreation Climate Change	Traffic and Transport		Embedded mitigation Additional mitigation	Monitoring Compensation	authority	documents
C038	*	*	*	*	Compliance with Marine Guidance Note (MGN) 654	Alignment of WTGs as required under MGN 654 (MCA, 2021) to e provide obstruction free Search and Rescue (SAR) access, including two lines of orientation unless otherwise agreed.											*		*	*					DMLDCO Schedule 6. Part 2 Condition 9(1)(a) (Design Plan) DMLDCO Schedule 6, Part 2, Condition 5 (Aids to navigation)	*		MCA TH UKHO	Outline VTMP (REP3-047APP-153) Appendix 14.1 Navigation Risk Assessment (APP-073 REP3-028) Appendix 14.2 Cumulative Regional Navigation Risk Assessment (APP-074 REP3-028)
C039	*	*	*	* Fi	Promulgation of information	Advance warning and accurate location details of construction, maintenance and decommissioning operations, associated safety zones and advisory passing distances would be given via Notice to Mariners (NtMs) and Kingfisher Bulletins and other appropriate media, including charting. Construction, operation and maintenance, and decommissioning activity would be communicated using NtM and via ongoing engagement, as appropriate.											*		*	*					DCO Schedule 2 Requirement 3 (Aviation Safety) DMLDCO Schedule 6, Part 2, Condition 5 (Aids to navigation) DMLDCO Schedule 6, Part 2 Condition 4 (Notifications and inspections)			MCA TH UKHO	Outline VTMP (REP3-047APP-153) Appendix 14.1 Navigation Risk Assessment (REP3-028APP-073) Appendix 14.2 Cumulative Regional Navigation Risk Assessment (APP-074)
C040	*	*	*	* (Surveillance radar	Technical mitigation solutions applied to impacted radars to be agreed as required with operators (NATS (En Route) plc (NERL) (Great Dun Fell, Lowther Hill and St Annes Primary Surveillance Radar (PSRs)).													*						DCO Schedule 2, Requirement 4 (Great Dun Fell, Lowther Hill and St Annes Primary Surveillance Radars)	*		Secretary of State (SoS) NATS	Chapter 16 Civil and Military
C041	*	*	*	* F	Flight procedures	Consultation and revisions to Instrument Flight Procedures (IFPs) as required (Blackpool Airport, Walney Aerodrome, Royal Air Forc (RAF) Valley and Warton Aerodrome). Consultation has commenced and would continue to reach agreement on the best detailed solution to mitigate the impact created by the final design of the Project.	Э												*						DCO Schedule 2, Requirement 5 (Blackpool Airport IFPs) DCO Schedule 2, Requirement 6 (Walney Aerodrome IFPs) DCO Schedule 2, Requirement 7 (Warton Aerodrome and RAF Valley-IFPs)	*		holder of a	
C042	*	*	*		Marine coordination foroject vessels	An ERCoP would be agreed and implemented for all phases of the project. The SAR requirements would be agreed with the MMO in consultation with the MCA post-consent in line with regulatory requirements.											*			*					DMLDCO Schedule 6, Part 2 Condition 12 (Offshore safety management)	*		MCA TH UKHO	Outline VTMP (REP3-047APP- 153)



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Ref	Pre-construction	Operation and Maintenance	Operation and Maintenance Decommissioning			Site Selection and Assessment of Alternatives	Project Description	EIA Methodology	Marine Geology,Oceanography & Physical Processes	Marine Sediment and Water Quality	Benthic Ecology	Fish and Shellfish Ecology	Marine Mammals	Offshore Ornithology	Commercial Fisheries	Shipping and Navigation	Marine Archaeology and	Civil and Military Aviation and Radar	Infrastructure and Other Users	SLVIA	Human Health	Socio-economics, Tourism and Recreation	Climate Change	Traffic and Transport		Embedded mitigation Additional mitigation	Monitoring Compensation	authority	
C043	*	* *	* *	* Traffic and transport	The Applicant has committed to developing a Port Access and Transport Plan (PATP), if agreed to be required, post-consent in line with the Outline PATP (submitted with the DCO submission application) in the event that the chosen port(s) does not have sufficient extant permissions to supply the Project.																			*	DCO Schedule 2, Requirement <u>11</u> 9 (PATP)	*		authority or authorities in whose area the relevant	Outline PATP (APP-151)
C044	*	* *	* *	* Skills and employment	The Applicant has developed an Outline Skills and Employment Plan (with the final plan secured in the DCO) to explore where benefits can be maximised through its procurement process.																*	*			DCO Schedule 2 Requirement 19 <u>2</u> (Skills and Employment Plan)	*		Local Planning Authority in whose area a marshalling port or operation and maintenance base used in connection with the authorised development is located.	Outline Skills and Employment Plan (APP-155)
C045	*	* *	* *	Climate change resilience measures	Modern windfarm design consistent with best practice engineering codes and standards will be adopted, which will require resilience extreme weather events at sea and longer term changes to the climate baseline.																		*		DMLDCO Schedule 6, Part 2 Condition 9(1)(d) (offshore construction method statement) DMLDCO Schedule 6, Part 2 Condition 9(1)(e) (PEMP)	*		ммо	Outline PEMP (REP3-041APP- 146) Chapter 21 Climate Change (APP-058) Outline CMS (Document Reference 9.49)
C044	*	* *	* *	Overarching * Greenhouse Gas (GHG) measures	Project-level GHG mitigation is being incorporated into the design development process for the Project wherever it is practicable to diso.	0																	*		DCO Schedule 1 – Authorised Development DMLDCO Schedule 6, Part 2 Condition 9(1)(d) (offshore construction method statement)	*		N/A	Chapter 21 Climate Change (APP-058) Design Statement (APP-021) Outline CMS (Document Reference 9.49)
C045			*	Climate change resilience measures	Prior to the commencement of decommissioning activities, as part of health and safety protocols, a review of recent climate hazards and up-to date climate projection data would be undertaken to develop suitable mitigation and management measures, which would be secured in management plans for this stage of works.																		*		DCO Schedule 1 – Authorised Development DCO Schedule 2, Requirement <u>10</u> 8 (Decommissioning)	*		SoS	Chapter 21 Climate Change (APP-058) n/a
C046	*	* *	*	WTG spacing	A minimum separation distance of 1,060m has been defined between adjacent WTGs within the same row and 1,410m between each row (inter-row spacing, which is the distance between the main rows)	<u>n</u>	* -		* -		* -														DCO Schedule 2 (para 2) - Design Parameters DCO Schedule 6 Part 2 Condition 1 - Design Parameters DCO Schedule 6 Part 2 Condition 9(1)(a) - Design Plan	*		MMO MCA TH	Chapter 5 Project Description (REP1-022APP-042)



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Ref Pre-construction	Construction	Operation and Maintenance	Decommissioning		Site Selection and Assessment of Alternatives	Project Description	EIA Methodology	Marine Geology,Oceanography & Physical Processes	Marine Sediment and Water Quality	Cish and Shollfish Foology	Marino Mammale	Marine Malinians	Commercial Fisheries	Shipping and Navigation	Marine Archaeology and	Cultural Heritage Civil and Military Aviation and	Infrastructure and Other Users	SLVIA	Human Health Socio-economics.	Tourism and Recreation Climate Change	Traffic and Transport		Embedded mitigation	Additional mitigation Monitoring	authority	
<u>C047</u>	*	* -	* Foundation choice	The selection of appropriate foundation designs and sizes at each WTG and OSP location would be made following preconstruction surveys within the windfarm site.		* -		* -														Schedule 1 Part 1 Authorised Project DCO Schedule 6 Part 2 Condition 9(1)(d) - Construction Method Statement.	*		MMO MCA TH	Outline CMS (Document Reference 9.49
<u>C048</u>	*		Construction hours	During construction, overnight working practices would be employed offshore so that construction activities could continue 24/7, thereby reducing the overall programme for offshore works and the period in which potential construction related impacts may occur.		* -																DCO Schedule 6 Part 2 Condition 9(1)(d) - Construction Method Statement	* _		MMO MCA TH	Outline CMS (Document Reference 9.49
C049			* Construction Method Statement	Preparation of Construction Method Statements (CMS), post- consent and pre-construction, setting out detailed WTG/OSP foundation and cable installation methods and techniques (based on final Project design).					* -													DCO Schedule 6 Part 2 Condition 9(1)(d) - Construction Method Statement	* -		MMO MCA TH	Outline CMS (Document Reference 9.49
C050	*		Foundation installation method	Application of foundation installation techniques using methods and equipment most suitable for seabed conditions and where possible to minimise sediment suspension.	<u>d</u>			* -				k -	*									DCO Schedule 1 Part 1 Authorised Project DCO Schedule 6 Part 2 Condition 9(1)(d) - Construction Method Statement	* -		MMO MCA TH	Outline CMS (Document Reference 9.49
<u>C051</u>	*		Cable installation method	Selection of cable installation methods and equipment most suitable for seabed conditions and where possible to minimise sediment suspension.				* -	*	,												DCO Schedule 1 Part 1 Authorised Project DCO Schedule 6 Part 2 Condition 9(1)(d) - Construction Method Statement.	*		MMO MCA TH	Outline CMS (Document Reference 9.49
C052	*	*	Scour protection	The selection of scour protection methods, where required, will be evaluated and further considered post-consent in the CMS, focusing on both engineering and suitability and environmental recoverability. Non-plastic alternatives, if available at the time, will be considered once the requirements are better understood.		* _			* -													DCO Schedule 1 Part 1 Authorised Project DCO Schedule 6 Part 2 Condition 9(1)(d) - Construction Method Statement.	* -		MMO MCA TH	Outline CMS (Document Reference 9.49
C053	*		Micro-siting	Micro-siting would be undertaken around benthic habitats of conservation, ecological or economic importance constituting reef habitats of principal importance as listed under Section 41 of the Natural Environmental and Rural Communities Act 2006.						-												DCO Schedule 6, Part 2 Condition 9(1)(a)(v)	· * -		MMO MCA TH	Outline CMS (Document Reference 9.49
C054			Scour protection installation	Consideration will be given to scour and cable protection that would be more readily removable at the time of decommissioning.	<u>d</u>	* -		* -		: 4 		k 9	* *	*			* -	* -				Schedule 1 Part 1 Authorised Project DCO Schedule 6 Part 2 Condition 9(1)(d) - Construction Method Statement.	* -		MMO MCA TH	Outline CMS (Document Reference 9.49



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Ref Pro-construction		Operation and Maintenance Decommissioning			Site Selection and	Project Description	EIA Methodology	Marine Geology,Oceanography & Physical Processes Marine Sediment and Water	Quality	Benthic Ecology Fish and Shellfish Ecology	Marine Mammals	Offshore Ornithology	Commercial Fisheries	Shipping and Navigation	Marine Archaeology and Cultural Heritage Civil and Military Aviation and	nadal Infrastructure and Other Users	SLVIA	Human Health	Socio-economics, Tourism and Recreation Climate Change	Traffic and Transport		Embedded mitigation	Additional mitigation Monitoring	Compensation		
<u>C055</u>	*		Underwater noise	Management of underwater noise could include the limiting of pilir on the same day as Project high order clearance of unexploded ordnance (UXO) without mitigation (if required).	ng					*	* -		* -								DCO Schedule 6, Part 2 Condition 20 (Underwater Sound Management Strategy)	* -			<u>MMO</u>	Outline Underwater Sound Management Strategy (REP2 026)
C056	*_	* _	Cable burial	A Cable Specification, Installation and Monitoring Plan (CSIP) would be prepared. This would include the technical specification offshore electrical circuits, and a desk-based assessment of attenuation of electro-magnetic field strengths, shielding and cable burial depth in accordance with industry good practice		* -		-		* * -	* _	* -	* _	* -	* _	* _					DCO Schedule 6 Part 2 Condition 9(1)(d) - Construction Method Statement including: cable specification and installation plan and scour protection management and cable protection management DCO Schedule 6 Part 2 Condition 16 - Post construction monitoring DCO Schedule 6 Part 2 Condition 17 - Reporting of scour and cable protection	* _			MMO MCA TH	Chapter 5 Project Description (REP1-022) Cable Statement (APP-020) Outline Scour Protection and Cable Protection Plan (REP1- 056) Outline CMS (Document Reference 9.49)