

Marine Licence with introductory note

The Marine and Coastal Access Act (2009)

Licence Holder: Llŷr Floating Wind Limited

Company Number: SC608546

The Boathouse
Hawkcraig Road
Aberdour
United Kingdom
KY3 0TZ

The construction, installation, operation, maintenance and subsequent decommissioning of a floating offshore wind farm, consisting of up to 10 offshore Wind Turbine Generators (WTGs) located approximately 35 km from the Pembrokeshire coast in the Celtic Deep.

Licence Number: ORML2465v1

The construction, installation, operation, maintenance and subsequent decommissioning of a floating offshore windfarm, consisting of up to 10 floating offshore Wind Turbine Generators located approximately 35 km from the Pembrokeshire coast in the Celtic Deep
Marine Licence number: ORML2465v1

Introductory note

This introductory note does not form a part of the marine licence

The main features of the marine licence are as follows.

The proposed Project will provide a facility to demonstrate emergent floating offshore wind technology in Welsh territorial waters. The offshore Array Area (within which the Wind Turbine Generators (WTGs), the floating substructures, mooring and the inter array cable arrangements will be installed) comprises of an area of 45 km² and at its closest point, is 35 km from Linney Head (the closest location on the coast of Pembrokeshire) in the Celtic Deep. Water depths across the Array Area range from 65 m to 75 m below Lowest Astronomical Tide.

The proposed development comprises:

- Up to 10 Wind Turbine Generators (WTGs), each with a maximum rotor diameter of 285m with a maximum height of 300m above the surface of the sea;
- Up to 10 associated floating platforms;
- Up to eight mooring lines, for each floating platform (up to 80 in total);
- Up to eight anchors or piles for each floating platform (up to 80 in total);
- Up to 11 offshore Inter array cables (IACs);
- Up to two offshore export cable circuits, approximately 49km long, will achieve landfall via Horizontal Directional Drilling (HDD) at Freshwater West;
- All associated works required to operate, maintain, repair and decommission the proposed Project; and
- Associated scour and cable protection.

The status log of the marine licence sets out the marine licence history, including any subsequent marine licence variation(s).

Status log of this marine licence		
Description	Date	Comments
Application	01 November 2024	Application received and considered to be duly made
Date licence determined	19 June 2026	Determination date
Marine licence variation	17 September 2026	Amendment to condition 3.27

The Licence **ORML2465v1** supersedes Licence **ORML2465** in its entirety.

Related marine licences or applications under determination

Not applicable

End of introductory note.

Licence Number: ORML2465v1

MARINE LICENCE, NUMBER ORML2465v1

1 LICENCE DETAILS

1.1 Marine Licence

This is a licence granted by the Licensing Authority in respect of an application numbered **ORML2465** and duly made on **01 November 2024** and authorises the Licence Holder to carry out activities for which a licence is required under Part 4 of the Marine and Coastal Access Act 2009, (2009 Act). This licence should be interpreted in accordance with **Section 4**.

1.2 Licence Holder

The Licence Holder is the company set out below:

Company name: Llŷr Floating Wind Limited

Company number: SC608546

Address: The Boathouse, Hawkraig Road, Aberdour, United Kingdom, KY3 0TZ

1.3 Licence Validity

Licence Start Date	17 September 2026
Licence End Date	31 December 2060
Licence Issue Date	17 September 2026

1.4 Conditions

This licence is subject to the conditions set out in **Section 3**.

Signed:



Dr. Emmer Litt – Marine Licensing Team Leader

For and on behalf of the Licensing Authority

2 LICENSED ACTIVITIES

2.1 Project

The construction, installation, operation, maintenance and subsequent decommissioning of a floating offshore windfarm, consisting of up to 10 offshore Wind Turbine Generators (WTGs) located approximately 35 km from the Pembrokeshire coast in the Celtic Deep.

The following Licensed Activities can be conducted within the Licence Period, within the Licensed Area and in accordance with the Approved Application and the Approved Supporting Documents:

Table 1 Licensed Activities

Activity 1 Array Construction	
Type of Licensed Activity	Deposit and Construction
Description	Construction of up to 10 offshore Wind Turbine Generators (WTGs), associated floating platforms, mooring systems, anchors and piles.
Material types to be removed or deposited	Deposit: The material to be deposited will consist of a combination of iron, steel, copper, aluminium, composite materials (including fibreglass-reinforced epoxies, polyester composites, carbon fibre composites), wood, polymers, stone /rock/ gravel, concrete, and other materials. Removal: Silt, sand, gravel taken from the seabed and re-deposited within the designated Licenced Area.
Quantities/Dimensions	A maximum of 10 Wind Turbine Generators (WTGs), each with a maximum rotor diameter of 285m. A maximum of 10 associated floating platforms. A maximum of 8 mooring lines, for each floating platform (up to 80 in total). A maximum of 8 anchors or piles for each floating platform (up to 80 in total). WTGs will have a maximum height of 300m from the surface of the sea, with a minimum lower blade clearance of 22m above the surface of the sea. Licensed Activity 1 must be carried out in accordance with the parameters set out in Appendix 1 and 2.
Activity 2 Cable Installation	
Type of Licensed Activity	Deposit, Removal and Construction
Description	Installation of inter-array cables and offshore export cables.

	Installation techniques includes Horizontal Directional Drilling (HDD) beneath the intertidal zone, trenching, jet trenching, ploughing, surface laying and installation of cable and scour protection. Installation also includes path clearance consisting of sand wave clearance (as detailed in Activity 6), pre-lay grapnel run and boulder clearance.
Material types to be removed or deposited	Deposit: cables (consisting of copper or aluminium conductors and heavy insulation layers made from specialised polymers), stone/rock/gravel, concrete, steel and iron. Removal: Silt, sand, gravel and re-deposited within the designated Licenced Area.
Quantities/Dimensions	A maximum of 11 offshore Inter array cables (IACs) connecting Wind Turbine Generators (WTGs) within the Array Area. A maximum of 2 offshore export cable circuits, each up to 49km in length. Licensed Activity 2 must be carried out in accordance with the parameters as set out in Appendix 3.
Activity 3 Operations and Maintenance	
Type of Licensed Activity	Deposit, Removal and Construction
Description	Operation and maintenance of up to 10 offshore Wind Turbine Generators (WTGs), associated floating platforms, mooring systems, anchors, piles, inter-array cables and offshore export cables over the operational lifetime of the Project. Activities will include routine and reactive inspection, monitoring, maintenance and repair of WTGs, floating platforms, mooring lines and anchors. Maintenance of inter-array and offshore export cables may include inspection, re-burial, installation of additional cable protection, or cable repair or replacement where required. WTGs may be temporarily disconnected and, if necessary, towed to port for major maintenance before reinstallation. Maintenance activities must be carried out as approved by the Licensing Authority under condition 3.41.
Material types to be removed or deposited	Deposit: The material to be deposited will consist of a combination of iron, steel, copper, aluminium, composite materials (including fibreglass-reinforced epoxies, polyester composites, carbon fibre composites), wood, polymers, stone /rock/ gravel, concrete, cables (consisting of copper or aluminium conductors and heavy insulation layers made from specialised polymers) and other materials.

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	Removal: Silt, sand, gravel taken from the seabed and re-deposited within designated licenced area.
Quantities/Dimensions	A maximum of 5 cable repairs for the inter-array cables and offshore export cables is permitted. Licenced Activity 3 must be carried out in accordance with the parameters set out in Appendix 1, 2 and 3.
Activity 4 Decommissioning	
Type of Licensed Activity	Removal and Construction
Description	Decommissioning of up to 10 Wind Turbine Generators (WTGs) and associated infrastructure at the end of the Project's operational life. This will broadly reverse the installation process and include disconnection and recovery of inter-array and offshore export cables. Decommissioning activities must be carried out as approved by the Licensing Authority under condition 3.42.
Activity 5 Removal of accidentally dropped objects pursuant to condition 3.7	
Type of Licensed Activity	Removal
Description, material types and quantities/dimensions	Accidentally dropped objects must be removed as approved by the Licensing Authority under condition 3.7.

Table 2 Licensed Dredge / Disposal Activities

Activity 6 Sandwave Levelling	
Marine Licensable Activity Type	Dredging and Deposit
Description	Sandwave levelling to allow operation of cable burial equipment and ensure adequate burial depth. A Mass Flow Excavator (MFE) and/or Trailer Suction Hooper Dredger (TSHD) will be used with any materials removed returned as close to the point of removal as possible within Deposit Location identified within Table 9. Maximum sandwave levelling duration to take up to 30 days as part of the construction phase of the Project and take place along five Dredge Zones (the 5 Dredge Zones are identified within Table 4 to 8). Maximum length of export cable requiring sandwave levelling (per cable) is up to 10,351m with a maximum of 25m width of seabed disturbance.
Maximum Dredge Depth	6m below Chart Datum

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Maximum Dredge volume and tonnage for material to deposited under this Licence	Sampled Specific Gravity	m ³ total	Tonnage total
	2.65	900,520	2,386,378
Maximum Dredge volume and tonnage from Dredge Zone 1 to be deposited at the Deposit Location	Sampled Specific Gravity	m ³ total	Tonnage total
	2.65	69,400	183,910
Maximum Dredge volume and tonnage from Dredge Zone 2 to be deposited at the Deposit Location	Sampled Specific Gravity	m ³ total	Tonnage total
	2.65	60,300	159,795
Maximum Dredge volume and tonnage from Dredge Zone 3 to be deposited at the Deposit Location	Sampled Specific Gravity	m ³ total	Tonnage total
	2.65	41,700	110,505
Maximum Dredge volume and tonnage from Dredge Zone 4 to be deposited at the Deposit Location	Sampled Specific Gravity	m ³ total	Tonnage total
	2.65	39,500	104,675
Maximum Dredge volume and tonnage from Dredge Zone 5 to be deposited at the Deposit Location	Sampled Specific Gravity	m ³ total	Tonnage total
	2.65	689,620	1,827,493
Deposit Location	Site Code: LU171		Site Name: Llŷr Offshore Windfarm
Material Type	Sand to gravelly or muddy sand Only material from Dredge Zones 1, 2, 3, 4 and 5 are permitted to be deposited at this site.		

2.2 Licensed Area

The Licence Holder is authorised to conduct the activities described in Table 1 in the vicinity of the Pembrokeshire coast to the Celtic Deep bounded by the coordinates specified in Table 3 and as indicated in the plan attached at Appendix 4:

Table 3 Licensed Area

Longitude	Latitude
-5.52495	51.38420
-5.42367	51.38363
-5.39416	51.40072
-5.37793	51.48281
-5.34983	51.52494
-5.34775	51.52681
-5.29404	51.55323
-5.28113	51.55477

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-5.27471	51.55463
-5.16925	51.56140
-5.14300	51.58103
-5.12480	51.61287
-5.12001	51.62585
-5.12220	51.63817
-5.11456	51.64022
-5.10440	51.63929
-5.07787	51.64013
-5.07112	51.64001
-5.06790	51.64111
-5.06717	51.64242
-5.07004	51.64885
-5.07444	51.65395
-5.07615	51.65664
-5.07563	51.66158
-5.06777	51.66433
-5.06750	51.66452
-5.06536	51.66362
-5.05920	51.65625
-5.06467	51.65482
-5.06203	51.65137
-5.06001	51.64724
-5.05685	51.64304
-5.05683	51.64060
-5.05895	51.63804
-5.06479	51.63604
-5.08976	51.63470
-5.11073	51.62593
-5.10414	51.61862
-5.10101	51.61406
-5.09996	51.60957
-5.10341	51.60509
-5.11142	51.60296
-5.11581	51.60038
-5.12327	51.59369
-5.12977	51.58247
-5.16542	51.55752
-5.16635	51.55717
-5.16740	51.55700
-5.28395	51.54938
-5.33791	51.51886
-5.36283	51.48072
-5.37922	51.39996
-5.34681	51.37992
-5.27339	51.29060
-5.45450	51.29228

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The Licence Holder is authorised to conduct the dredging activities described in Table 2 bounded by the coordinates specified in Table 4 to 8:

Table 4 Dredge Zone 1

Longitude	Latitude
-5.365977	51.500752
-5.351695	51.497781
-5.359713	51.485511
-5.374805	51.487493

Table 5 Dredge Zone 2

Longitude	Latitude
-5.353309	51.519792
-5.339753	51.516043
-5.346586	51.505596
-5.359987	51.509758

Table 6 Dredge Zone 3

Longitude	Latitude
-5.298190	51.551189
-5.289577	51.546177
-5.298783	51.540937
-5.307442	51.546641

Table 7 Dredge Zone 4

Longitude	Latitude
-5.253533	51.556000
-5.253177	51.551405
-5.262511	51.550792
-5.262939	51.555392

Table 8 Dredge Zone 5

Longitude	Latitude
-5.129242	51.605101
-5.111415	51.602960
-5.123253	51.593685
-5.129771	51.582478
-5.165426	51.557528
-5.166350	51.557171
-5.167401	51.557002
-5.231596	51.552819
-5.231748	51.557393
-5.169252	51.561411
-5.143015	51.581011

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The Licence Holder is authorised to conduct the deposit activities described in Table 2 bounded by the coordinates specified in Table 9.

Table 9 Permitted Deposit Location

Deposit Location [LU171]	
Longitude	Latitude
-5.129242	51.605101
-5.111415	51.602960
-5.123273	51.593686
-5.129771	51.582478
-5.167401	51.557002
-5.283954	51.549380
-5.337914	51.518853
-5.352593	51.496395
-5.367042	51.499151
-5.349859	51.524973
-5.294042	51.553228
-5.281125	51.554771
-5.169252	51.561411
-5.143015	51.581011

In the event of any discrepancy between the coordinates set out above and the plan attached at Appendix 4, the coordinates shall take precedence.

2.3 Approved Supporting Documents

Approved supporting documents are detailed in Appendix 5.

3 CONDITIONS

Notification and Inspection

3.1 Notification of Commencement

- 3.1.1** The Licence Holder must notify the Licensing Authority no less than **10 days** before the commencement of the Licensed Activities, or an individual phase of the Licensed Activities, is expected to commence.
- 3.1.2** The Licence Holder must notify Welsh Government Marine & Fisheries Division (Control & Enforcement Branch) no less than **10 days** before the commencement of the Licensed Activities, or an individual phase of the Licensed Activities, is expected to commence.
- 3.1.3** The Licence Holder must ensure that notification is sent to The Source Data Receipt team, UK Hydrographic Office (email: sdrr@ukho.gov.uk) at least **10 days** prior to commencement of the Licensed Activities. The information supplied must include the start date and end date, a description of the works, positions of the work area (WGS84), and details of any marking arrangements.
- 3.1.4** The Licence Holder must ensure that local mariners and fishermen's organisations are made fully aware of the Licensed Activities through local notices to mariners **10 days** prior to the commencement of the Licensed Activities, or an individual phase of the Licensed Activities, is expected to commence.
- 3.1.5** The Licence Holder must notify The Kingfisher Information Service of Seafish no less than **10 days** prior to the commencement of the Licensed Activities, or an individual phase of the Licensed Activities, is expected to commence.
- 3.1.6** The Licence Holder must notify the Ministry of Defence and Castlemartin Training Area no less than **14 days** prior to the commencement of the Licensed Activities, or an individual phase of the Licensed Activities, is expected to commence. The notification must include:
- a) the date of the commencement of the construction, installation, or deployment of any permanent structures with a height of 50m or greater (above mean sea level);
 - b) the latitude and longitude, and maximum height of any construction equipment with a height of 50m or greater (above mean sea level) that will be used in the implementation of the approved development; and
 - c) the latitude and longitude, and maximum heights of any permanent structures with a height of 50m or greater (above mean sea level).

3.2 Notification of Vessels and/or Vehicles

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The Licence Holder must ensure that the details of the vessels and/or vehicles utilised to undertake the Licensed Activities are submitted to the Licensing Authority and Welsh Government Marine & Fisheries Division (Control & Enforcement Branch) at least **24 hours** prior to the commencement of the Licensed Activities.

3.3 Notification of Agents/Contractors/Sub-contractors

The Licence Holder must ensure that details of any agent(s), contractor(s) or sub-contractor(s) utilised to undertake the Licensed Activities are submitted to the Licensing Authority and Welsh Government Marine & Fisheries Division (Control & Enforcement Branch) at least **24 hours** prior to the commencement of Licensed Activities.

3.4 Notification of HM Coastguard

The Licence Holder must ensure that HM Coastguard is made aware of the Licensed Activities at least **24 hours** prior to commencement by contacting The National Maritime Operations Centre at zone28@hmcg.gov.uk.

3.5 Inspection of Licensed Activities

The Licence Holder must allow Welsh Government Marine & Fisheries Division (Control & Enforcement Branch) or any other person authorised by the Licensing Authority to inspect the Works at any reasonable time.

3.6 Notification of Completion

- 3.6.1** The Licence Holder must notify the Licensing Authority within **10 days** of completion of the Licensed Activities or an individual phase of the Licensed Activities.
- 3.6.2** The Licence Holder must notify Welsh Government Marine & Fisheries Division (Control & Enforcement Branch) within **10 days** of completion of the Licensed Activities, or an individual phase of the Licensed Activities.
- 3.6.3** The Licence Holder must notify the UK Hydrographic Office of the Licensed Area and the Licensed Activities within **10 days** of the completion of the Licensed Activities, or an individual phase of the Licensed Activities.
- 3.6.4** The Licence Holder must notify The Kingfisher Information Service of Seafish as soon as reasonably practicable and no later than **24 hours** after completion of the Licensed Activities or an individual phase of the Licensed Activities.
- 3.6.5** The Licence Holder must notify the Ministry of Defence and Castlemartin Training Area as soon as reasonably practicable and no later than **24 hours** after completion of the Licensed Activities or an individual phase of the Licensed Activities. The notification must include any changes to the information supplied under condition 3.1.6.

3.7 Accident or Emergency

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3.7.1 If, by reason of force majeure any substances or articles are deposited otherwise than as permitted as part of the Licensed Activities or in the Licensed Area full details of the circumstances shall be notified to the Licensing Authority, Trinity House, Welsh Government Marine & Fisheries Division (Control & Enforcement Branch) and the Maritime and Coastguard Agency within **48 hours** of the incident occurring.

3.7.2 If it is necessary for the Licence Holder to recover or remove any equipment, plant or machinery used to undertake the Licensed Activities that have been dropped as a result of an accident or emergency, the Licence Holder is permitted to do so provided that the methodology for such recovery or removal has been approved by the Licensing Authority.

3.8 Distribution of Copies of this Licence

The Licence Holder is required to ensure that a copy of this Licence is given to:

- a) All agent(s), contractor(s) and sub-contractor(s) whose names have been provided to the Licensing Authority under condition 3.3 and
- b) The Masters of any vessels and transport managers responsible for the vehicles employed in accordance with this Licence whose details have been submitted to the Licensing Authority under condition 3.2.

3.9 Inspection of Documents

Copies of this Licence shall be made available at the following locations:

- a) at the address of the Licence Holder specified in section 1.2;
- b) at any site office, located at or adjacent to the Licensed Area, used by the Licence Holder or its agent(s), contractor(s) or sub-contractor(s) responsible for the loading transportation or deposit of any substances or articles permitted as part of the Licensed Activities;
- c) on board each vessel or vehicle carrying out Licensed Activities.

The documents referred to in this Condition shall be available at all reasonable times for inspection by officers appropriately authorised by the Licensing Authority and Welsh Government Marine & Fisheries Division (Control & Enforcement Branch) at the locations stated in that paragraph.

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Vessels, Plant and Equipment

3.10 Notified Contractors, Vessels and/or Vehicles only to Carry out Licensed Activities

Only those agent(s), contractor(s), sub-contractor(s), vessels and/or vehicles whose details have been notified to the Licensing Authority may operate under the terms of this Licence. Any changes must be notified to the Licensing Authority and Welsh Government Marine & Fisheries Division (Control & Enforcement Branch) in writing prior to any such agent, contractor, subcontractors or vehicles carrying out any Licensed Activities pursuant to or otherwise operating under this Licence.

3.11 Refuelling of Plant and Equipment

The Licence Holder must ensure that plant, vehicles and machinery are not refuelled on the foreshore.

3.12 Equipment, Structures and Access

The Licence Holder must ensure that all equipment, temporary structures, access tracks, waste and/or debris associated with the Licensed Activities are removed on completion of the Licensed Activities unless otherwise approved in writing by the Licensing Authority.

Safety

3.13 Removal of Deposited Material

If the Licensing Authority considers it necessary or advisable for the safety of navigation, the Licence Holder must remove any deposit specified by the Licensing Authority or Welsh Government Marine & Fisheries Division (Control & Enforcement Branch) within one month of notice being given by the Licensing Authority, and shall not replace such material until the Licensing Authority has given its written approval.

Pollution control

3.14 Pollution Prevention

The Licence Holder must ensure that pollution prevention best practice is adhered to at all times. Any incidents must be reported to Natural Resources Wales as soon as possible using the hotline number **0300 065 3000**.

3.15 Spillage of Pollutants

The Licence Holder must employ bunding, storage facilities and spill kits to contain and prevent the release of fuel, oils and chemicals associated with the plant, refuelling and construction equipment into the marine environment. Secondary containment must be used with a capacity of **no less than 110%** of the container's storage capacity

3.16 Prevention of Disposal of Man-made Debris

The Licence Holder must ensure that all reasonable precautions are taken to prevent the disposal of man-made debris to the marine environment. Such material must be

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removed immediately and be disposed of appropriately unless otherwise approved in writing by the Licensing Authority.

3.17 Cleanliness of Equipment

The Licence Holder must ensure that equipment, machinery and PPE are washed with freshwater and/or thoroughly airdried before deployment and before moving between locations.

Activity-specific Conditions

3.18 Pre-Construction Ecological and Archaeological Surveys

3.18.1 The Licence Holder must submit a Pre-Construction Ecological and Archaeological Survey Specifications to the Licensing Authority for written approval at least **4 months** prior to commencement of Pre-Construction Surveys.

3.18.2 The Licence Holder must ensure that the Pre-Construction Surveys are undertaken in accordance with the Survey Specifications described in condition 3.18.1.

3.18.3 The Licence Holder must submit the written results of the Pre-Construction Surveys undertaken pursuant to condition 3.18.2 to the Licensing Authority for written approval at least **6 months** prior to commencement of the Licensed Activities. No Licensed Activities may be undertaken prior to written approval from the Licensing Authority.

3.19 Project (Array) Layout Plan

3.19.1 The Licence Holder must submit a Project (Array) Layout Plan to the Licensing Authority for written approval at least **6 months** prior to commencement of the Licensed Activity 1. Licensed Activity 1 may not be undertaken prior to written approval from the Licensing Authority. The plan must include:

- a) The number, dimensions, specification, foundation type(s) and depth for each Wind Turbine Generators (WTGs), offshore platforms and substations;
- b) The grid coordinates of the centre point of the proposed location for each WTG, platform, substation and meteorological mast; and
- c) latitude and longitude coordinates of the inter array cables.

3.19.2 The Licence Holder must ensure that any actions outlined in the documents detailed in condition 3.19.1 are implemented as approved in writing by the Licensing Authority. Any proposed changes to the actions outlined in the documents must be submitted to, and approved in writing by the Licensing Authority prior to any changes being enacted.

3.20 Cable Specification and Installation Plan (CSIP)

3.20.1 The Licence Holder must submit a CSIP to the Licensing Authority for written approval at least **6 months** prior to commencement of the Licensed Activity 2 and 6. Licensed Activity 2 and 6 may not be undertaken prior to written approval from the Licensing Authority. The plan must include:

- a) Technical specification;
- b) Proposed layout of all cables, location, including outlines of cable crossings, burial and surface laid sections;
- c) Timings, including duration of intertidal works;
- d) The proposed locations, types, and quantities of cable protection to be deposited;
- e) Installation and cable laying techniques;
- f) Cable crossing armouring methodology;
- g) Location, type, and quantity of any wet-stored cabling and/or cable protection and the proposed duration of the wet storage; and
- h) Identify microsites requirements.

3.20.2 The Licence Holder must ensure that any actions outlined in the documents detailed in condition 3.20.1 are implemented as approved in writing by the Licensing Authority. Any proposed changes to the actions outlined in the documents must be submitted to, and approved in writing by the Licensing Authority prior to any changes being enacted.

3.21 Cable Burial Risk Assessment (CBRA)

3.21.1 The Licence Holder must submit a CBRA to the Licensing Authority for written approval at least **4 months** prior to commencement of the Licensed Activity 2 and 6. Licensed Activity 2 and 6 may not be undertaken prior to written approval from the Licensing Authority.

3.21.2 The Licence Holder must ensure that any actions outlined in the documents detailed in condition 3.21.1 are implemented as approved in writing by the Licensing Authority. Any proposed changes to the actions outlined in the documents must be submitted to, and approved in writing by the Licensing Authority prior to any changes being enacted.

3.22 Cable Mitigation Scheme and Communications Protocol

3.22.1 The Licence Holder must submit a Cable Mitigation Scheme and Communications Protocol to the Licensing Authority for written approval at least **4 months** prior to commencement of Licensed Activities within Range Danger Areas D113A and D113B. No Licensed Activities within

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Range Danger Areas D113A and D113B may be undertaken prior to written approval from the Licensing Authority. The plan must include:

- a) Outline procedures for communicating with the Castlemartin Training Area to obtain prior approval before undertaking any surveys, installation works or maintenance within Range Danger Areas D113A and D113B;
- b) A schedule setting out the projected dates and times for the implementation of the development works;
- c) A schedule identifying the methods to be used to install cable infrastructure within Range Danger Areas D113A and D113B;
- d) A schedule identifying the route and layout of all cables to be laid within Range Danger Areas D113A and D113B;
- e) Procedures for approval of the cable installation methods and route and layout of all cables to be laid within Range Danger Areas D113A and D113B;
- f) The technical specifications and methods to be used for cable protection; and
- g) Cable Mitigation Scheme and Communication Protocol for the lifetime of the development.

3.22.2 The Licence Holder must ensure that any actions outlined in the documents detailed in condition 3.22.1 are implemented as approved in writing by the Licensing Authority. Any proposed changes to the actions outlined in the documents must be submitted to, and approved in writing by the Licensing Authority prior to any changes being enacted.

3.23 Construction Environment Management Plan (CEMP)

3.23.1 The Licence Holder must submit a CEMP to the Licensing Authority for written approval at least **4 months** prior to commencement of the Licensed Activities. The CEMP must be in accordance with the outline CEMP, *ORML2465 - App 04A Llyr ES - OCEMP*. No Licensed Activities may be undertaken prior to written approval from the Licensing Authority.

3.23.2 The Licence Holder must ensure that any actions outlined in the documents detailed in condition 3.23.1 are implemented as approved in writing by the Licensing Authority. Any proposed changes to the actions outlined in the documents must be submitted to, and approved in writing by the Licensing Authority prior to any changes being enacted.

3.24 Project Environment Management Plan (PEMP)

3.24.1 The Licence Holder must submit a PEMP to the Licensing Authority for written approval at least **4 months** prior to commencement of the

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Licensed Activities. No Licensed Activities may be undertaken prior to written approval from the Licensing Authority.

3.24.2 The Licence Holder must ensure that any actions outlined in the documents detailed in condition 3.24.1 are implemented as approved in writing by the Licensing Authority. Any proposed changes to the actions outlined in the documents must be submitted to, and approved in writing by the Licensing Authority prior to any changes being enacted.

3.25 Lighting Marking and Management Plan (LMMP)

3.25.1 The Licence Holder must submit a LMMP to the Licensing Authority for written approval at least **4 months** prior to commencement of the Licensed Activities. No Licensed Activities may be undertaken prior to written approval from the Licensing Authority. The LMMP must include an Aviation Lighting Scheme. This scheme must include:

- a) How the development will be lit throughout its life to maintain civil and military aviation safety requirements as required under the Air Navigation Order 2016 and, or, determined necessary for aviation safety by the Ministry of Defence and, or, as directed by the Civil Aviation Authority;
- b) Details of any construction equipment and temporal structures with a height of 50m or greater (above mean sea level) that will be used during the construction, installation or deployment of the development, and details of any aviation warning lighting that they will be fitted with, specifying the position of the lights; the type(s) of lights that will be fitted; and the performance specification(s) of those lights;
- c) Details of any structures with a height of 50m or greater (above mean sea level) specifying the position of any lights; the type(s) of lights that will be fitted; and the performance specification(s) of those lights for all stages of marine transit or storage, or whilst moored prior to final installation; and
- d) Details of any permanent structures with a height of 50m or greater (above mean sea level), providing their locations and heights, and identifying those that will be fitted with aviation warning lighting, specifying the position of the lights; the type(s) of lights that will be fitted; and the performance specification(s) of those lights.
- e) Details of lighting for the lifetime of the development.

3.25.2 The Licence Holder must ensure that any actions outlined in the documents detailed in condition 3.25.1 are implemented as approved in writing by the Licensing Authority. Any proposed changes to the actions outlined in the documents must be submitted to, and approved in writing by the Licensing Authority prior to any changes being enacted.

3.26 Air Traffic Control Radar Mitigation Scheme (ATCRMS)

3.26.1 The Licence Holder must submit a ATCRMS to the Licensing Authority for written approval at least **4 months** prior to commencement of the Licensed Activity 1. Licensed Activity 1 may not be undertaken prior to written approval from the Licensing Authority, following consultation with the Ministry of Defence. The scheme must include:

- a) Appropriate measures to be implemented to mitigate the impact of the Llŷr Floating Offshore Wind Project on the Radar for the lifetime of the development; and
- b) Performance criteria requirements.

3.26.2 The Licence Holder must submit the Performance Results of the ATCRMS to the Licensing Authority for written approval at least **2 months** prior to any wind turbine erected as part of this development to rotate its rotor blades about its horizontal axis, other than for the purpose of testing radar mitigation for this development for specific periods as defined in the approved ATCRMS or otherwise arranged in accordance with provisions contained in the approved ATCRMS. No turbine may rotate its rotor blades about its horizontal axis, other than for the purpose of testing radar mitigation, prior to written approval from the Licensing Authority, following consultation with the Ministry of Defence.

3.26.3 The Licence Holder must ensure that any actions outlined in the documents detailed in condition 3.26.1 are implemented as approved in writing by the Licensing Authority. Any proposed changes to the actions outlined in the documents must be submitted to, and approved in writing by the Licensing Authority, following consultation with the Ministry of Defence, prior to any changes being enacted.

3.27 Primary Radar Mitigation Scheme (PRMS)

3.27.1 The Licence Holder must submit a PRMS to the Licensing Authority for written approval at least **4 months** prior to commencement of Licensed Activity 1. The PRMS must be agreed with NATS prior to submitting to the Licensing Authority for approval. Licensed Activity 1 may not be undertaken prior to written approval from the Licensing Authority. The PRMS must include mitigation to avoid the impact of the development on the Primary Radar located at Burrington and associated air traffic management operations.

3.27.2 The Licence Holder must ensure that any actions outlined in the documents detailed in condition 3.27.1 are implemented as approved in writing by the Licensing Authority. Any proposed changes to the actions outlined in the documents must be submitted to, and approved in writing by the Licensing Authority prior to any changes being enacted. The changes to the actions outlined in the documents must be agreed with NATS prior to submitting to the Licensing Authority for approval.

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3.28 Water Quality Pollution Management Plan (WQPMP)

3.28.1 The Licence Holder must submit a WQPMP to the Licensing Authority for written approval at least **4 months** prior to commencement of the Licensed Activities. No Licensed Activities may be undertaken prior to written approval from the Licensing Authority.

3.28.2 The Licence Holder must ensure that any actions outlined in the documents detailed in condition 3.28.1 are implemented as approved in writing by the Licensing Authority. Any proposed changes to the actions outlined in the documents must be submitted to, and approved in writing by the Licensing Authority prior to any changes being enacted.

3.29 Marine Pollution Contingency Plan (MPCP)

3.29.1 The Licence Holder must submit a MPCP to the Licensing Authority for written approval at least **4 months** prior to commencement of the Licensed Activities. No Licensed Activities may be undertaken prior to written approval from the Licensing Authority.

3.29.2 The Licence Holder must ensure that any actions outlined in the documents detailed in condition 3.29.1 are implemented as approved in writing by the Licensing Authority. Any proposed changes to the actions outlined in the documents must be submitted to, and approved in writing by the Licensing Authority prior to any changes being enacted.

3.30 Emergency Response Cooperation Plan (ERCoP)

3.30.1 The Licence Holder must submit a ERCoP to the Licensing Authority for written approval at least **4 months** prior to commencement of the Licensed Activities. No Licensed Activities may be undertaken prior to written approval from the Licensing Authority.

3.30.2 The Licence Holder must ensure that any actions outlined in the documents detailed in condition 3.30.1 are implemented as approved in writing by the Licensing Authority. Any proposed changes to the actions outlined in the documents must be submitted to, and approved in writing by the Licensing Authority prior to any changes being enacted.

3.31 Marine Mammal Mitigation Plan (MMMP)

3.31.1 The Licence Holder must submit a MMMP to the Licensing Authority for written approval at least **4 months** prior to commencement of the Licensed Activities. The MMMP must be in accordance with the outline MMMP, *ORML2465 260416 Liŷr Marine Mammal Mitigation Plan A2*. No Licensed Activities may be undertaken prior to written approval from the Licensing Authority.

3.31.2 The Licence Holder must ensure that any actions outlined in the documents detailed in condition 3.31.1 are implemented as approved in writing by the Licensing Authority. Any proposed changes to the actions outlined in the documents must be submitted to, and approved in writing by the Licensing Authority prior to any changes being enacted.

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3.32 Otter Mitigation Plan

3.32.1 The Licence Holder must submit an Otter Mitigation Plan to the Licensing Authority for written approval at least **4 months** prior to commencement of the Licensed Activity 2. Licensed Activity 2 may not be undertaken prior to written approval from the Licensing Authority.

3.32.2 The Licence Holder must ensure that any actions outlined in the documents detailed in condition 3.32.1 are implemented as approved in writing by the Licensing Authority. Any proposed changes to the actions outlined in the documents must be submitted to, and approved in writing by the Licensing Authority prior to any changes being enacted.

3.33 Biosecurity Risk Assessment and Management Plan (BRAMP)

3.33.1 The Licence Holder must submit a Biosecurity Risk Assessment and Management Plan to the Licensing Authority for written approval at least **4 months** prior to commencement of the Licensed Activities. No Licensed Activities may be undertaken prior to written approval from the Licensing Authority.

3.33.2 The Licence Holder must ensure that any actions outlined in the documents detailed in condition 3.33.1 are implemented as approved in writing by the Licensing Authority. Any proposed changes to the actions outlined in the documents must be submitted to, and approved in writing by the Licensing Authority prior to any changes being enacted.

3.34 Aids to Navigation Management Plan (AtNP)

3.34.1 The Licence Holder must submit a AtNP to the Licensing Authority for written approval at least **4 months** prior to commencement of the Licensed Activities. No Licensed Activities may be undertaken prior to written approval from the Licensing Authority.

3.34.2 The Licence Holder must ensure that any actions outlined in the documents detailed in condition 3.34.1 are implemented as approved in writing by the Licensing Authority. Any proposed changes to the actions outlined in the documents must be submitted to, and approved in writing by the Licensing Authority prior to any changes being enacted.

3.35 Vessel Management Plan (VMP)

3.35.1 The Licence Holder must submit a VMP to the Licensing Authority for written approval at least **4 months** prior to commencement of the Licensed Activities. No Licensed Activities may be undertaken prior to written approval from the Licensing Authority.

3.35.2 The Licence Holder must ensure that any actions outlined in the documents detailed in condition 3.35.1 are implemented as approved in writing by the Licensing Authority. Any proposed changes to the actions outlined in the documents must be submitted to, and approved in writing by the Licensing Authority prior to any changes being enacted.

3.36 Navigation Monitoring

3.36.1 The Licence Holder must submit a Navigation Monitoring Specification to the Licensing Authority for written approval at least **4 months** prior to commencement of the Licensed Activities. No Licensed Activities may be undertaken prior to written approval from the Licensing Authority. The plan must include;

- a) Pre-construction bathymetric survey of the Licensed Area extending to an appropriate buffer around the site and all proposed cable routes;
- b) Post-construction bathymetric survey of the installed export cable route and post-decommissioning swath bathymetric survey of the Licensed cable route and array area;
- c) All bathymetric surveys to IHO Order 1a standard and be in compliance with MGN654 (Hydrographic Guidelines for Offshore Renewable Energy Developers), which includes the requirement for the full density data and reports to be delivered to the MCA and the UKHO for the update of nautical charts and publications;
- d) Vessel traffic monitoring by Automatic Identification System (AIS) for the duration of the construction phase;
- e) Vessel traffic monitoring by Automatic Identification System (AIS) for a 3-year period post-construction phase;
- f) Detail of the programme/timetable of monitoring and reporting.

3.36.2 The Licence Holder must ensure that the survey is undertaken in accordance with the Survey Specifications described in condition 3.36.1.

3.36.3 The Licence Holder must submit the written results of the Survey undertaken pursuant to condition 3.36.2 to the Licensing Authority for written approval in line with the timetable approved in the Navigation Monitoring Specification.

3.36.4 In accordance with condition 3.36.1 hydrographic surveys of the Licensed Area must be submitted to the UKHO, with notification to the MCA and Licensing Authority.

3.37 Fisheries Liaison and Co-existence Plan (FLCP)

3.37.1 The Licence Holder must submit a FLCP to the Licensing Authority for written approval at least **4 months** prior to commencement of the Licensed Activities. No Licensed Activities may be undertaken prior to written approval from the Licensing Authority.

3.37.2 The Licence Holder must ensure that any actions outlined in the documents detailed in condition 3.37.1 are implemented as approved in

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writing by the Licensing Authority. Any proposed changes to the actions outlined in the documents must be submitted to, and approved in writing by the Licensing Authority prior to any changes being enacted.

3.38 Written Scheme of Investigation (WSI)

3.38.1 The Licence Holder must submit a WSI to the Licensing Authority for written approval at least **4 months** prior to commencement of the Licensed Activities. No Licensed Activities may be undertaken prior to written approval from the Licensing Authority.

3.38.2 The Licence Holder must ensure that any actions outlined in the documents detailed in condition 3.38.1 are implemented as approved in writing by the Licensing Authority. Any proposed changes to the actions outlined in the documents must be submitted to, and approved in writing by the Licensing Authority prior to any changes being enacted.

3.39 Protocol for Archaeological Discovery (PAD)

3.39.1 The Licence Holder must submit a PAD to the Licensing Authority for written approval at least **4 months** prior to commencement of the Licensed Activities. No Licensed Activities may be undertaken prior to written approval from the Licensing Authority.

3.39.2 The Licence Holder must ensure that any actions outlined in the documents detailed in condition 3.39.1 are implemented as approved in writing by the Licensing Authority. Any proposed changes to the actions outlined in the documents must be submitted to, and approved in writing by the Licensing Authority prior to any changes being enacted.

3.40 Post Construction As-Built Report

3.40.1 The Licence Holder must submit a Post Construction As-Built Report to the Licensing Authority for written approval within **4 months** of completion of Licensed Activities. The Report must include:

- a) The final locations (in WGS84) and technical specifications of the cables;
- b) The final locations (in WGS84) of buried and surface-laid sections of the cables;
- c) The final locations (in WGS84), types, and quantities of cable protection used, deposited or installed;
- d) The final number of installed wind turbine generators;
- e) As built plans;
- f) The final centre point location (in WGS84) for each wind turbine generator and offshore platform, substation, booster station and meteorological mast; and
- g) Identification of potential dangers to navigation.

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3.40.2 In the event that any potential danger to navigation is identified following the completion of the Licensed Activities, the Licence Holder must propose measures to ensure the safety of navigation in writing to the Licensing Authority for written approval. The measures must be implemented as approved.

3.41 Cable Maintenance Plan

3.41.1 The Licence Holder must submit a Cable Maintenance Plan to the Licensing Authority for written approval at least **4 months** prior to commencement of the Licensed Activity 3. Licensed Activity 3 may not be undertaken prior to written approval from the Licensing Authority. The Plan must include:

- a) The methods to be used for re-laying and re-burial of repaired cable and removal and reinstatement of any cable protection; and
- b) A timescale for the periodic review of the document.

3.41.2 The Licence Holder must ensure that any actions outlined in the documents detailed in condition 3.41.1 are implemented as approved in writing by the Licensing Authority. Any proposed changes to the actions outlined in the documents must be submitted to, and agreed in writing by the Licensing Authority prior to any changes being enacted.

3.42 Decommissioning Environment Management Plan (DEMP)

3.42.1 The Licence Holder must submit a DEMP to the Licensing Authority for written approval at least **4 months** prior to commencement of Licensed Activity 4. Licensed Activity 4 may not be undertaken prior to written approval from the Licensing Authority. The Plan must include:

- a) The methods to be used for decommissioning; and
- b) A timescale for the decommissioning activities.

3.42.2 The Licence Holder must ensure that any actions outlined in the documents detailed in condition 3.42.1 are implemented as approved in writing by the Licensing Authority. Any proposed changes to the actions outlined in the documents must be submitted to, and approved in writing by the Licensing Authority prior to any changes being enacted.

3.42.3 The Licence Holder must ensure that Licensed Activity 4 is completed prior to the Licence End Date.

3.43 Navigational Safety

3.43.1 The Licence Holder must ensure a regular programme of monitoring of device condition. In case of damage, destruction or decay of any device or part of a device, the Licence Holder shall, as soon as possible and no later than **24 hours** after becoming aware of such damage, destruction or decay, notify Trinity House, Maritime and Coastguard Agency, Kingfisher

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Information Service of Seafish, UKHO, the Licensing Authority and Welsh Government Marine & Fisheries Division (Control & Enforcement Branch).

- 3.43.2** In the event of cable exposure on or above the seabed, the Licence Holder must issue a notice to mariners and notify the Kingfisher Information Service of the location and extent of exposure no later than **3 days** following its identification. Copies of all said notices must be provided to the Licensing Authority, Welsh Government Marine & Fisheries Division (Control & Enforcement Branch), Trinity House and Maritime and Coastguard Agency.

3.44 Rock Protection

- 3.44.1** The Licence Holder must ensure that rock protection is only used where adequate burial cannot be achieved and that exact locations are reported to the Licensing Authority.
- 3.44.2** The Licence Holder must ensure that any rock misplaced or lost below Mean High Water Springs is reported to the Welsh Government Marine & Fisheries Division (Control & Enforcement Branch) Maritime and Coastguard Agency and the Licensing Authority within **48 hours**, and located and recovered as directed by the Licensing Authority.

3.45 UK Marine Noise Registry

- 3.45.1** The Licence Holder must complete an entry into the UK Marine Noise Registry detailing the proposed dates and locations and nature of the Piling Activities at least **10 days** prior to its commencement.
- 3.45.2** The Licence Holder must amend the marine noise registry proposed activity form should the timing of the Piling Activities alter or no longer remain part of the Project.
- 3.45.3** The Licence Holder must complete an entry into the Marine Noise Registry detailing the actual dates, location(s) and nature of the Piling Activities every **6 months** following the commencement of Piling Activities until the completion of Piling Activities with the final entry to be completed within **8 weeks** of completion of the noisy activity.

3.46 Disposal Returns

- 3.46.1** Certified returns of quantities of substances or articles deposited under this Licence are required to be submitted by **31 January** for the months July to December inclusive and **31 July** each year for the months January to June inclusive. The returns must specify the full Licence number and amount deposited (tonnage) each calendar month at each authorised Deposit Area. Where no deposit is made in a given period a NIL return is required.
- 3.46.2** If this Licence expires during the course of the calendar year and is not superseded by a further Licence relating to the Licenced Activities, a certified return of quantities of substances or articles deposited under

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this Licence shall be submitted not later than **28 working days** after the Licence End Date.

3.47 Inspection of Disposal Vessel

Subject to meeting any mandatory health and safety obligations, the Licence Holder must provide, at reasonable notice, access and, if necessary, appropriate transportation to the disposal vessel to facilitate any inspection that the Licensing Authority, or Marine Enforcement Officers consider may be necessary.

3.48 Record of Quantity of Deposited Material

The Licence Holder must keep a written log of Disposal Activities at the Designated Disposal Site as described in Table 2. This log must be available for inspection by appropriately authorised officers of the Licensing Authority and Welsh Government Marine & Fisheries Division (Control & Enforcement Branch). The Log must contain the following information:

- a) the name of the vessel;
- b) the quantity and type of each substance disposed at sea;
- c) the date and time of Disposal Activities, and
- d) latitude and longitude position (in WGS84) of the deposit within the Designated Disposal Site.

3.49 Coatings

The Licence Holder must ensure that any coatings/treatments used in carrying out the Licensed Activities are suitable for use in the marine environment and are used in accordance with best environmental practice.

3.50 Colouring of Infrastructure

The Licence Holder must colour all structures yellow (colour code RAL 1023) from at least the waterline to a height as directed by Trinity House. Unless the Licensing Authority otherwise directs, the Licence Holder must paint the remainder of the structures grey (colour code RAL 7053).

3.51 Depth Reduction

The Licence Holder must ensure that any depth reductions resulting from the Works do not compromise safe navigation and that there is no more than **5% reduction** in surrounding depth referenced to Chart Datum at any point without prior written approval from the Licensing Authority.

3.52 Mooring verification

The Licence Holder must at all times ensure that the Licensed Activities are maintained in a safe condition that does not present a danger to the environment, or other marine users. Floating devices and any devices suspended in the water column must have a Third-Party verification of the mooring arrangements prior to construction to provide

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assurance that the moorings are suitable for the expected metocean conditions at the Project's Array location.

3.53 Compliance Report

- 3.53.1** The Licence Holder must produce and submit a report on compliance with the conditions in this Marine Licence for the approval of the Licensing Authority at least **4 months** prior to commencement of the Licensed Activities or an individual phase of Licenced Activities.
- 3.53.2** The report must identify where the monitoring has been, or is to be undertaken for each phase of construction. The report must also identify the relevant plans and how conditions have or are to be addressed. No Licensed Activities may be undertaken prior to written approval from the Licensing Authority.

4 INTERPRETATION

In this Licence terms are as defined in section 115 of the Marine and Coastal Access Act unless otherwise stated.

- (a) **"2009 Act"** means the Marine and Coastal Access Act 2009;
- (b) **"Approved Application"** means the Marine Licence Application Form together with the Approved Supporting Documents;
- (c) **"Approved Supporting Documents"** means the documents supporting, or supplementary to, the Approved Application, submitted prior to the Licence Issue Date, listed in the Table at paragraph 2.3 above;
- (d) **"Commencement"** means the first undertaking of any Licensed Activities;
- (e) **"Force majeure"** may be deemed to apply when, due to stress of weather or any other cause, the master of a vessel determines that it is necessary to deposit the substances or articles because the safety of human life and/or of the vessel is threatened;
- (f) **"Licensed Activities"** means the activities authorised by this licence as specified in 2.1;
- (g) **"Licensed Area"** means the area within which Licensed Activities are authorised by this licence as specified in section 2.2;
- (h) **"Licence Holder"** means the person(s) or organisation(s) named in section 1.2 to whom this licence is granted;
- (i) **"Licence Period"** means the period beginning with the Licence Start Date and ending on the Licence End Date;
- (j) **"Licensing Authority"** means Natural Resources Wales acting on behalf of the Welsh Ministers;
- (k) **"Welsh Government Marine & Fisheries Division (Control & Enforcement)"** means the relevant officers appointed by Welsh Ministers under section 235 of the 2009 Act, contact details for whom are provided in section 5;
- (l) **"Marine Licence Application Form"** means the application form forming part of the application referred to in paragraph 1.1;
- (m) **"Method Statement"** means the Method Statement(s) forming part of the Approved Application or Approved Supporting Documents;

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- (n) **“Works”** means any construction activities comprised in the Licensed Activities and, where the context permits, includes any plant, equipment or materials used to carry out those activities or operations but excludes monitoring, minor routine maintenance or other ongoing operational activities following completion of any construction activities;
- (o) **“NATS”** means NATS (En Route) plc, incorporated under the Companies Act (4129273) whose registered office is 4000 Parkway, Whiteley, Fareham, Hants PO15 7FL or such other organisation licensed from time to time under sections 5 and 6 of the Transport Act 2000 to provide air traffic services to the relevant managed area (within the meaning of section 40 of that Act).
- (p) all times shall be taken to be the time in Greenwich Mean Time (GMT) on any given day;
- (q) all co-ordinates shall be taken to be latitude and longitude decimal degree (WGS 84);
- (r) in the event of any discrepancy between the coordinates listed in paragraph 2.2 and the plan attached at Appendix 1, the coordinates shall take precedence.

5 CONTACTS

Except where otherwise indicated, the primary point of contact with the Licensing Authority and the address for returns, correspondence and requests for variations of the licence is:

Marine Licensing Team
Natural Resources Wales
Welsh Government Offices
Cathays Park
King Edward VII Avenue
Cardiff
CF10 3NQ
Tel: 0300 065 3000
Email: marinelicensing@naturalresourceswales.gov.uk

Welsh Government Marine & Fisheries Division (Control & Enforcement) may be contacted at:

Welsh Government
Suite 3
Cedar Court
Haven's Head Business Park
Milford Haven Pembrokeshire
SA73 3LS

Tel: 03000253500
Email: MarineLicencingEnforcement@gov.wales

Appendix 1: Wind Turbine Generators (WTGs) and Floating Platform Parameters

Parameter	Minimum	Maximum
Wind Turbine Generators (WTGs) Parameters		
Number of WTGs	-	10
Blade tip clearance (from sea level)	22 m	-
Hub height (HAT)	-	177 m
Tip height (HAT)	-	300 m
Rotor diameter	-	285 m
Rotor swept area	-	63,794 m ²
Blade width (chord width)	-	7 m
Separation distance between WTGs (tower centre to tower centre)	1000 m	-
Average rotation speed	6.2 rpm	8 rpm
Floating Platforms Parameters		
Dimensions of substructure (triangle) (per side)	-	115 m
Dimensions of substructure (rectangle) (width x length)	-	60 m x 120 m
Dimensions of substructure (square) (width x length)	-	80 m x 80 m
Visible footprint area above the water line (per platform)	155 m ²	6500 m ²
Column diameter	12 m	20 m
Column distance (centre to centre)	55 m	100 m
Column height above sea level	16 m	32 m
Operating draught (distance from keel to sea level)	12 m	45 m
Excursion of hull from slack line position / neutral position	-	50 m

Appendix 2: Mooring System and Anchor Design Parameters

Parameter	Minimum	Maximum
Mooring System Parameters		
Configuration	Catenary Spread	
Number of mooring lines (per WTG)	-	8
Mooring line length (based on maximum water depths)	-	1250 m
Proportion of mooring line that may come into contact with the seabed	-	150 m
Spread (radius) of mooring lines (based on maximum water depths)	-	1350 m
Horizontal excursion extent	-	54 m
Under-keel clearance	-	40 m
Number of clump weights (per mooring line)	-	25
Seabed footprint of clump weights (per mooring line)	-	100 m ²
Total seabed footprint of clump weights	-	8000 m ²
Total seabed footprint of anchors and chains (per WTG)	-	700 m ²
Configuration	Tensioned	
Number of mooring lines (per WTG)	-	8
Mooring line length (based on maximum water depths)	-	60 m
Proportion of mooring line that may come into contact with the seabed	-	0 m
Spread (radius) of mooring lines (based on maximum water depths) (sided triangle/square)	-	130 m
Horizontal excursion extent	-	35 m
Under-keel clearance	-	35 m
Number of clump weights (per mooring line)	-	0 m
Total seabed footprint of anchors and chains (per WTG)	-	100 m ²
Anchor Design Parameters		
Configuration	Drag embedment anchor	
Number of anchors (per WTG)	-	8
Anchor width	-	6 m
Anchor height	-	4 m
Anchor penetration depth	-	25 m
Seabed footprint per anchor/pile	-	76.5 m ²
Total anchor footprint	-	6120 m ²
Anchor/ weight	-	40 tonnes
Distance of anchor drag during installation	-	75 m
Configuration	Drilled Piles	
Number of piles (per WTG)	-	8
Pile width	-	3.5 m
Pile penetration depth	-	55 m
Pile height above seabed	-	4 m
Seabed footprint per pile	-	15 m ²
Total pile footprint	-	1200 m ²
pile weight	-	300 tonnes
Number of piles installed (per day)	1	4
Volume of drill arising (per pile)	-	529 m ³
Volume of drill arising across the Array Area	-	42300 m ³
Configuration	Driven Piles	
Number of piles (per WTG)	-	8

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pile width	-	3 m
Pile penetration depth	-	55 m
Pile height above seabed	-	4 m
Seabed footprint per pile	-	15 m ²
Total pile footprint	-	1200 m ²
Anchor/pile weight	-	400 tonnes
Pile hammer energy	-	800 kJ
Number of piles installed (per day)	2	6
Piling duration (per day)	90 minutes	180 minutes
Number of concurrent piling events	-	1
Number of days when piling may take place	20	45

Appendix 3: Cabling Parameters

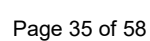
Parameter	Minimum	Maximum
Inter array cables (IACs) Parameters		
Number of IACs	-	11
Length of each IAC on seabed	-	1.55 km
Cumulative length of IACs in contact with seabed	-	17.10 km
External cable diameter	-	200 mm
Length of touchdown movement (per IAC)	-	150 m
Footprint of touchdown movement (per IAC)	-	4000 m ²
Footprint of touchdown movement (all IACs)	-	44000 m ²
Trench width for cable installation	-	25 m
Total length of aa IAC cable protection (	-	3420 m
Width of cable protection	-	5 m
Total area of IAC cable protection	-	17100 m ²
Offshore Export Cable Parameters		
Number of export cables	-	2
Length of each offshore export cable	-	49 km
External cable diameter	-	200 mm
Trench width for export cable installation	-	25 m
Burial depth (where technically possible)	0.8m	-
Length of each export cable requiring iron articulated pipe protection	-	11000 m
Number of cable crossings per cable	-	5
Total number of cable crossings	-	10
Cable Protection Parameters		
Cable protection width	-	5 m
Cable protection height	-	1.5 m
Seabed footprint of static IACs requiring cable protection (per cable)	-	17100 m ²
Seabed footprint of offshore export cables requiring cable protection, including at crossings (per cable)	-	12,000 m ²
Length of cable protection using articulated pipe (per cable)	-	11000 m
Diameter of installed cable protection using articulated pipe	-	500 mm
Volume of cable protection (IAC and 2 x offshore export cables)	-	61650 m ³
Scour Protection Parameters		
Scour protection footprint (per anchor)	-	310 m ²
Scour protection height (per anchor)	-	1 m
Volume of scour protection (per anchor)	-	310 m ³

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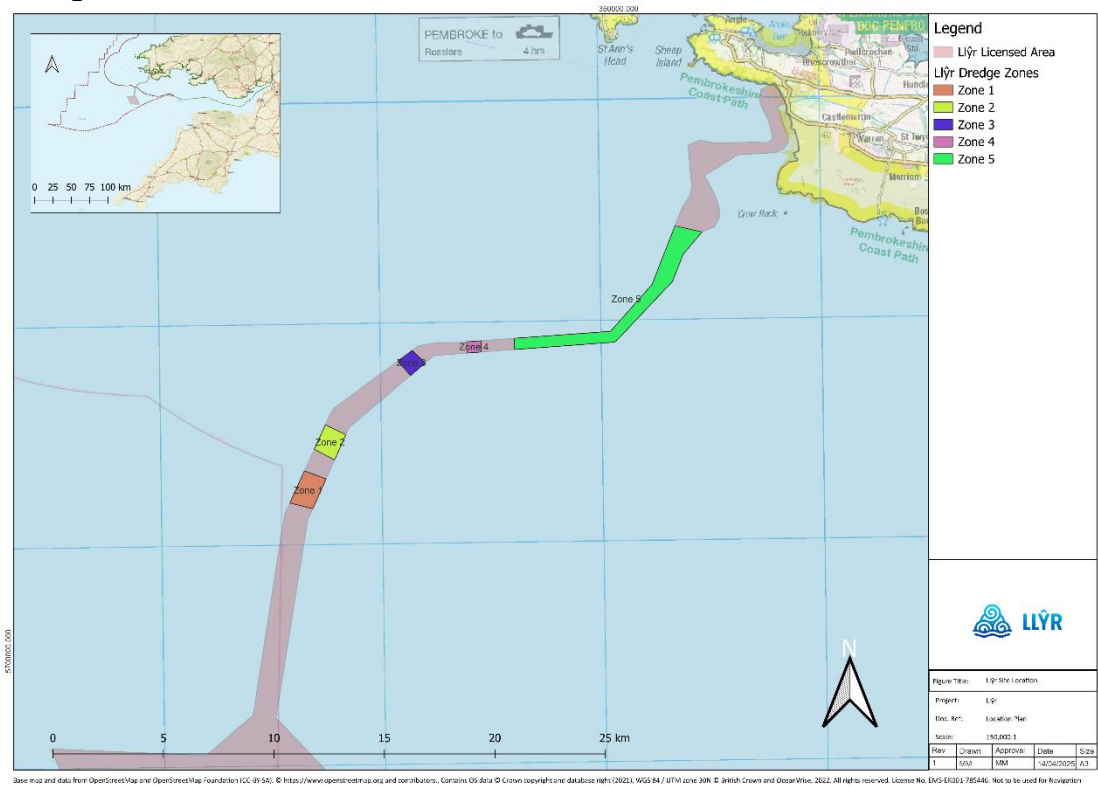
Seabed footprint of scour protection across the Array Area	-	24800 m ²
Volume of scour protection across the Array Area	-	24800 m ³
Horizontal Directional Drilling (HDD) Parameters		
Number of successful drilled holes	-	2
HDD length	-	1300 m
HDD drill cuttings volume (total)	-	1,700 m ³
HDD duct diameters	-	660 mm

Appendix 4: Maps

Licensed Area



Dredge Zones



Appendix 5: Approved Supporting Documents

Title/Description of Document	Date Submitted
ORML2465 - LIÿr OWF_marine-works-application-form-21 March 2024_V01	28 August 2024
ORML2465 - Continuation sheet 1	28 August 2024
ORML2465 - Continuation sheet 2	03 September 2024
ORML2465 - LIÿr ES_NTS_Final	28 August 2024
ORML2465 - LIÿr ES_Ch 01_Introduction_FINAL	28 August 2024
ORML2465 - LIÿr ES_Ch 02_Legislation Policy and Guidance_FINAL	28 August 2024
ORML2465 - LIÿr ES_Ch 03_Site Selection and Alternatives_FINAL	28 August 2024
ORML2465 - LIÿr ES_Ch 04_Project Description_FINAL	28 August 2024
ORML2465 - LIÿr ES_Ch 05_EIA Approach and Methodology_FINAL	28 August 2024
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