

## Marine Licence with introductory note

The Marine and Coastal Access Act (2009)

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Licence Holder: Pembrokeshire Coastal  
Forum CIC

Company Number: 8447094

Marine Energy Hub  
2<sup>nd</sup> Floor  
Pier House  
Pembroke Dock  
SA27 6TR

To provide 5 marine energy test sites within  
Milford Haven waterway to facilitate the  
testing and development of marine energy  
devices, their components and  
subassemblies, ancillary activities and  
equipment.

Licence Number:

DEML1875v1

**5 marine energy test sites within Milford Haven  
waterway to facilitate the testing and  
development of marine energy devices, their  
components and subassemblies, ancillary  
activities and equipment**  
**Marine Licence number: DEML1875v1**

## **Introductory note**

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

The main features of the marine licence are as follows.

*Deposit and removal activities as detailed in Annex 1 which includes the following categories of activity:*

- *Dip testing of subassemblies, components, monitoring and research equipment.*
- *Short duration dip testing of full scale devices.*
- *Testing of deployment and retrieval methodologies of subassemblies, components, monitoring and research equipment.*
- *Testing of vessel approach and recovery methodologies.*
- *Testing of Health & Safety procedures.*
- *Operational testing of instruments, components and subassemblies, monitoring and research equipment.*
- *Pontoon deployment at the Ferryside location.*

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

<b>Status log of this marine licence</b>		
<b>Description</b>	<b>Date</b>	<b>Comments</b>
Application	Duly made 11/02/2019	Application received and considered to be duly made
Date licence determined	10/06/2019	Determination date
Marine licence variation	09/02/2022	Marine licence varied to include the installation of 10 monopiles to be used for pontoon mooring at the Ferryside site and changes to the size of the pontoons (all to be 5x25m)

The Licence DEML1875v1 supersedes Licence DEML1875 in its entirety.

### **Related marine licences or applications under determination**

**Licence Number: DEML1875v1**

<b>Marine Licence or Application Number</b>	<b>Date</b>	<b>Comments</b>
DEML1875	10/06/2019	Original licence which has now been superseded by DEML1875v1.

End of introductory note.

Licence Number: DEML1875v1

## MARINE LICENCE, NUMBER DEML1875v1

### 1 LICENCE DETAILS

#### 1.1 Marine Licence

This is a licence granted by the Licensing Authority in respect of an application numbered DEML1875 and duly made on 11 February 2019 and authorises the Licence Holder to carry on 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:** Pembrokeshire Coastal Forum CIC

**Company number:** 8447094

**Address:** Marine Energy Hub, 2<sup>nd</sup> Floor, Pier house, Pembroke Dock, SA27 6TR

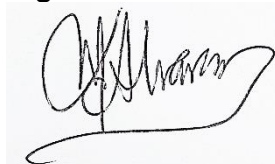
#### 1.3 Licence Validity

<b>Licence Start Date</b>	<b>09 February 2022</b>
<b>Licence End Date</b>	<b>09 June 2029</b>
<b>Licence Issue Date</b>	<b>09 February 2022</b>

#### 1.4 Conditions

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

**Signed:**

A handwritten signature in black ink, appearing to be 'A. Williams', written over a light grey rectangular background.

For and on behalf of the Licensing Authority

## 2 LICENSED ACTIVITIES

### 2.1 Project

5 marine energy test sites within Milford Haven waterway to facilitate the testing and development of marine energy devices, their components and subassemblies, ancillary activities and equipment.

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**

<b>Activity 1 Deposit and Removal Activities as detailed in Annex 1</b>	
Type of Licensed Activity	Deposit/Removal
Description	<p>Deposit and removal activities as detailed in Annex 1 which includes the following categories of activity:</p> <p>Dip testing of subassemblies, components, monitoring and research equipment.</p> <p>Short duration dip testing of full scale devices.</p> <p>Testing of deployment and retrieval methodologies of subassemblies, components, monitoring and research equipment.</p> <p>Testing of vessel approach and recovery methodologies.</p> <p>Testing of Health &amp; Safety procedures.</p> <p>Operational testing of instruments, components and subassemblies, monitoring and research equipment.</p> <p>Pontoon deployment at the Ferryside location with the installation of ten new monopiles to which the pontoons will be attached, will require the use of monopiles with rotary piling and down-hole hammering if encountering hard layers. There will be five pontoons made the same size to 5 m x 25 m.</p>
Material types to be removed or deposited	<p>Deposit and subsequent removal: marine energy devices, subassemblies and components, buoys and anchoring/mooring options including pontoons. The detail of the maximum project envelope parameters of substances or articles authorised for deposit and removal are detailed in annex 2.</p> <p>The material of which may consist of Timber, Iron/Steel, Concrete, Biocides and other chemicals approved for use in the marine environment, Stone and rock, plastic and synthetics.</p>

## 2.2 Licensed Area

The Licence Holder is authorised to conduct the activities described in Table 1 in the vicinity of Milford Haven between by the coordinates specified in Table 2 to Table 8:

**Table 2**      **Coordinates for Carr Jetty Site**

<b>Latitude</b>	<b>Longitude</b>
51.698393	-4.956978
51.698363	-4.956768
51.698194	-4.955753
51.697501	-4.956061
51.697670	-4.957076
51.697710	-4.957309

**Table 4**      **Coordinates for Quay 1 Site**

<b>Latitude</b>	<b>Longitude</b>
51.697638	-4.950108
51.697319	-4.947289
51.696216	-4.947670
51.696634	-4.950494

**Table 5**      **Coordinates for Ferryside Site**

<b>Latitude</b>	<b>Longitude</b>
51.697858	-4.952215
51.697921	-4.950538
51.697467	-4.950494
51.697405	-4.952171

**Table 6**      **Coordinates for Criterion Jetty**

<b>Latitude</b>	<b>Longitude</b>
51.699105	-4.943688
51.699009	-4.944137
51.698981	-4.944180
51.698824	-4.944347
51.699734	-4.944919
51.699508	-4.943881
51.699897	-4.944070
51.699456	-4.944086
51.699401	-4.944292

Licence Number: DEML1875v1

51.699398	-4.944296
51.699228	-4.944181
51.699222	-4.944178
51.699224	-4.944168
51.699205	-4.944154
51.699280	-4.943864
51.699271	-4.943859
51.699284	-4.943810

**Table 7**            **Coordinates for Mainstay Quay**

<b>Latitude</b>	<b>Longitude</b>
51.696931	-4.954857
51.696942	-4.954852
51.697088	-4.954783
51.697175	-4.954742
51.697190	-4.954735
51.697209	-4.954726
51.697212	-4.954758
51.697229	-4.954751
51.697227	-4.954742
51.697228	-4.954729
51.697331	-4.954498
51.697371	-4.954531
51.697369	-4.954539
51.697291	-4.954814
51.697320	-4.954991
51.698027	-4.954692
51.697968	-4.953629
51.697966	-4.953627
51.697884	-4.953622
51.697884	-4.953614
51.697649	-4.953595
51.697569	-4.953589
51.697558	-4.953589
51.697408	-4.953580
51.697403	-4.953569
51.697289	-4.953561
51.697266	-4.953559
51.697261	-4.953537
51.697240	-4.953536
51.697240	-4.953553
51.697223	-4.953552
51.697223	-4.953534
51.697179	-4.953531
51.697081	-4.953526
51.697084	-4.953546
51.697095	-4.953615
51.697092	-4.953638
51.697142	-4.953925
51.697197	-4.954261
51.697209	-4.954333
51.697206	-4.954343

Licence Number: DEML1875v1

51.697202	-4.954345
51.697208	-4.954383
51.697204	-4.954393
51.697068	-4.954450
51.697039	-4.954462
51.696876	-4.954530

**Table 8**      **Coordinates for Pontoon at Ferryside**

<b>Latitude</b>	<b>Longitude</b>
51.698058	-4.9520225
51.698071	-49514879
51.697914	-4.9513039
51.697916	-4.9505080
51.698139	-49502042
51.698131	-4.9501747
51.697898	-4.9504924
51.697887	-4.9513166
51.698053	-4.9515011
51.698040	-4.9520213

In the event of any discrepancy between the coordinates set out above and the plan attached at Appendix 1, the coordinates shall take precedence.

### 2.3      **Approved Supporting Documents**

<b>Title/Description of Document</b>	<b>Date</b>	<b>Version No.</b>
<b>Marine-Works-Application-Form Rev00b_RDS.docx</b>	11/02/2019	1
<b>Email dated 30/04/2019 and co-ordinates for the pontoon</b>	11/02/2019	1
<b>EOR0730 META Environmental Appraisal Rev02A_RDS.docx</b>	11/02/2019	1
<b>EOR0730 META Environmental Appraisal Rev02A_RDS.docx</b>	11/02/2019	1
<b>Marine-Works-Application-Form Rev00b_RDS.docx</b>	11/02/2019	1

Licence Number: DEML1875v1

<b>EOME0506_EOR0808_PDI_META Phase 1 ML Variations - Implications for Assessment_Rev02.pdf</b>	24/11/2021	1
<b>EOR0808 META P1 Variation Environmental Appraisal Rev02.pdf</b>	24/11/2021	1
<b>EOR0808 META Phase 1 ML Variation Cover Letter.pdf</b>	24/11/2021	1
<b>DEML1875v1 Variation Application Form</b>	24/11/2021	1

### 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 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.

##### 3.2 Notification of Vessels and/or Vehicles

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 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 Marine Enforcement Officers 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.
- 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.

**Licence Number: DEML1875v1**

### **3.7 Accident or Emergency**

**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 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:

- All agent(s), contractor(s) and sub-contractor(s) whose names have been provided to the Licensing Authority under condition 3.3 and
- The Masters of any vessels and transport managers responsible for the vehicles employed in accordance of 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:

- at the address of the Licence Holder specified in section 1.2;
- 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;
- 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 authorised Marine Enforcement Officers at the locations stated in that paragraph.

### **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 and be approved by the Licensing Authority in writing prior to any such agent, contractor, subcontractors or vehicles carrying out any Licensed Activities pursuant to or otherwise operating under this Licence.

**Licence Number: DEML1875v1**

### **3.11 Refuelling of Plant and Equipment**

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

### **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.

## **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 Marine Enforcement Officers 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 the Licensing Authority 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 removed immediately and be disposed of appropriately. If it is not possible to prevent manmade debris from entering the marine environment during the Licensed Activities, the Licensed Activities must cease immediately.

### **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.

Licence Number: DEML1875v1

### **Activity-specific Conditions**

#### **3.18 Project Envelope Parameters**

The Licence Holder must ensure that all works carried out are within the project envelope parameters detailed in Annex 2.

#### **3.19 Navigation**

**3.19.1** The Licence Holder must ensure that the works are maintained in a safe condition that does not represent a danger to the environment, or other marine users, at all times.

**3.19.2** The Licence Holder must ensure that all equipment, temporary structures, access tracks, waste and/or debris associated with the works are removed within 4 weeks of completion of the works.

#### **3.20 Biosecurity Action Plan**

The Licence Holder must produce and implement a Biosecurity Action Plan. The Biosecurity Action Plan must be available for inspection at all reasonable times at the locations detailed in paragraph 3 by NRW acting on behalf of the Licensing Authority and/or Marine Enforcement Officers.

#### **3.21 Measures for Intertidal Zone**

The Licence Holder must ensure that measures are in place to prevent waste or debris from entering the intertidal zone.

#### **3.22 Coatings and Treatments**

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

#### 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) **"Marine Enforcement Officers"** 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;

**Licence Number: DEML1875v1**

- (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) all times shall be taken to be the time in Greenwich Mean Time (GMT) on any given day;
- (p) all co-ordinates shall be taken to be latitude and longitude degrees and minutes to two decimal places
- (q) 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  
Permitting Service  
29 Newport Road  
Cambria House  
Cardiff  
CF24 0TP

Tel: 0300 065 3000  
Email: [marinelicensing@naturalresourceswales.gov.uk](mailto:marinelicensing@naturalresourceswales.gov.uk)

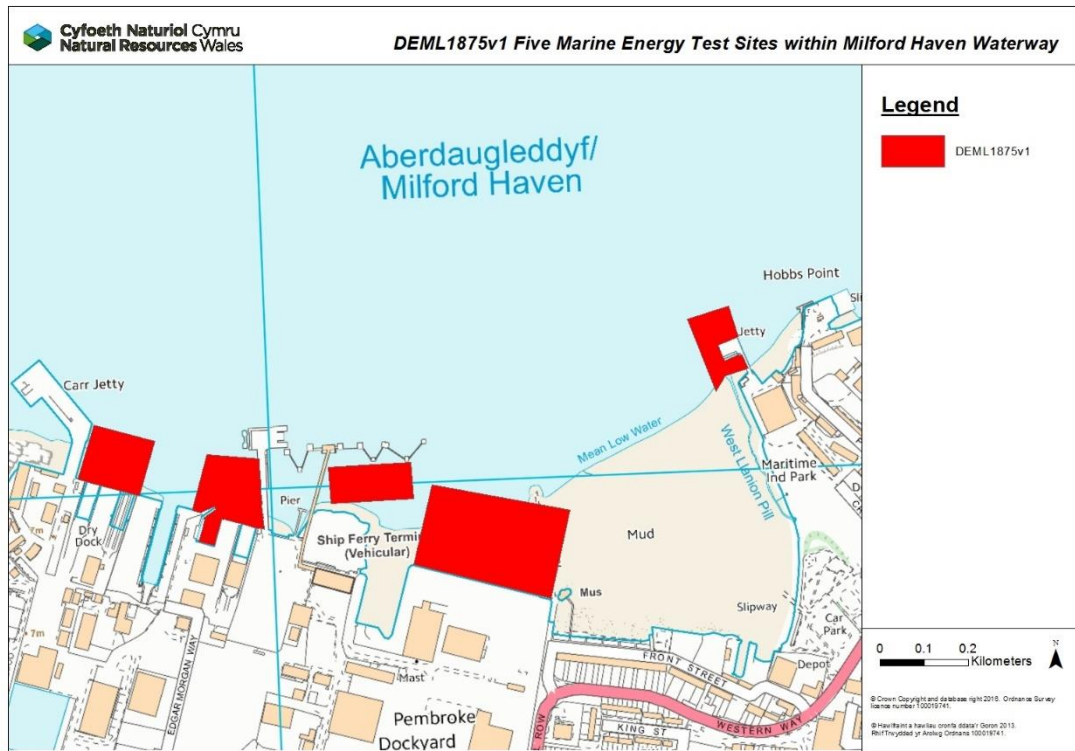
**Welsh Government Marine Enforcement Officers may be contacted at:**

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

Tel: 03000253500  
Email: [wfmccmpc@gov.wales](mailto:wfmccmpc@gov.wales)

Licence Number: DEML1875v1

Appendix 1



**Annex 1**

**Detail of deposit and removal activities as referred to in condition 2.1**

<b>Site</b>	<b>Activity description</b>
<p><b>Carr Jetty Mainstay Quay Ferryside Quay 1 Criterion Jetty</b></p>	<p><b><i>Dip testing of subassemblies, components, monitoring and research equipment</i></b> Dip testing involves the placement, submersion and retrieval of components and subassemblies into the marine environment. Vessels may be used for deployment and retrieval, or jetties and quayside may support tests.</p> <p><b><i>Testing of deployment and retrieval methodologies of subassemblies, components, monitoring and research equipment</i></b> Specific tests to trial the process of deployment, release, capture and retrieval of components and subassemblies integral to wave or tidal devices, and research and monitoring or ancillary equipment will be carried out from quayside or jetties.</p> <p><b><i>Testing of H&amp;S procedures</i></b> Trialling and review of H&amp;S procedures will take place at quayside and during testing of vessel approach and recovery methodologies.</p> <p><b><i>Short duration dip testing of full scale devices</i></b> Testing will include the placement of wave and/or tidal device instruments, components or subassemblies into the marine environment to assess their durability and performance in a post tank-testing environment.</p> <p><b><i>Operational testing of instruments, components and subassemblies, monitoring and research equipment</i></b> Equipment will be placed in the marine environment for short durations, to test durability and performance in real at-sea and sheltered environments, prior to removal, assessment, and review. ROV monitoring solutions may also be trialled.</p> <p><b><i>Testing of vessel approach and recovery methodologies</i></b> Vessels will trial approaching specific locations and/or components, and recovery to the vessel and quayside/jetty of instruments, components or subassemblies.</p>
<p><b>Ferryside only</b></p>	<p><b><i>Pontoon installation</i></b> <i>Four pontoons to be fabricated on land, slipped in and towed into the final position.</i></p>

**Annex 2****Detail of project envelope parameters for test devices and components as referred to in condition 2.1**

<b>Project Detail</b>	<b>Maximum Project Envelope Parameter</b>
Position in water column	Tidal components are likely to occupy part of the water-column. Wave component testing may occupy a proportion of the water column and may include surface-piercing components.
Wave Energy Components	Components or subassemblies may be up to 80 m length 17 m width and 5.5 m draught
Tidal Energy Components	5 m (L) x 5 m (W) (Rotor Diameter = $\leq 5$ m). Speed of moving part at blade tip = $\leq 2$ m/s
Height above sea surface of components or subassemblies	$\leq 4$ m
Number of testing activities per Phase 1 site	2 at Mainstay Quay, Quay 1 and Ferryside, Single components at other Phase 1 sites
Seabed footprint per component/subassembly (where component or subassembly touches the seabed)	$\leq 1360$ m <sup>2</sup> for Quay 1 $\leq 100$ m <sup>2</sup> for remaining sites
Seabed footprint per site (multiple subassemblies/components) (where component or subassembly touches the seabed)	Up to 200 m <sup>2</sup>
Buffer area of seabed clearance required around where component or sub assembly touches the seabed	5 m strip around seabed footprint
Lubricants and antifoulants	Any antifoulants or lubricants used will be EU/Internationally approved for use in marine environments
Mooring/Attachment method	$\leq$ four-point anchoring system within maximum seabed footprint per component or subassembly as above. Restricted area gravity bases may be required. Gravity base maximum area up to 25 m <sup>2</sup> . No pin-piling will be carried out a during Phase 1.
Mooring area per component/subassembly	100-144 m <sup>2</sup>

Licence Number: DEML1875v1

Project Detail	Maximum Project Envelope Parameter
Total Mooring area per site for multiple activity testing (up to 2 activities)	200-288 m <sup>2</sup>

### Phase 1 Deployment and Retrieval Activities

Project Detail	Maximum Project Envelope Parameter
No. vessels	up to 5
Frequency of deployment and retrieval operations in a 12-month period, per site	Once per month
Vessel mooring/anchoring requirements	≤ four-point anchoring system (modular). Maximum weight up to 36 T.
Vessel mooring/anchoring buffer	≤ 400 m <sup>2</sup> (based on a depth requirement of 10m for Criterion Jetty)

### Phase 1 Operation and Maintenance activities

Project Detail	Maximum Project Envelope Parameter
Duration of dip testing activity (estimated % time device in water given in brackets)	up to 3 months (50%)
Duration of jetty testing activity (estimated % time device in water given in brackets)	6 months (50%)
Duration of moored testing activity (estimated % time device in water given in brackets)	6 months (75%)
Frequency of O&M visits	Twice weekly
No. of Vessels	5
Vessel mooring/anchoring requirements	Up to four-point anchoring system (modular). Maximum weight up to 36 T.
Vessel mooring/anchoring buffer	≤ 400 m <sup>2</sup> (based on a depth requirement of 10m for Criterion Jetty)

**Pontoon deployment at Ferryside**

<b>Project details</b>	<b>Maximum Project Envelope Parameter</b>
Pontoon installation method and duration at Ferryside (site 3)	Installation of ten new monopiles to which the pontoons will be attached instead of attaching the pontoons to the dolphin moorings.
Pontoon dimensions	5 m x 25 m
Access brow installation method and duration at Ferryside	The access brow will be fabricated on land and lifted into position from a barge-based crane over 2-3 days.
Access brow dimensions	2 m x 15 m