Codling Bank Wind Park
Foreshore Licence Application

Preservation of Archaeological Features
Prepared by:  
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Nichola McLaughlin  Lead Consents and Stakeholder Manager  

Date: 27/01/2014  

CWP DT Approval:  
Name / Title Nancy McLean  Principal Consultant  
Date: 28/01/2014  

Signed:  

One signature required. Handwritten or electronic.  

Record of Changes  

<table>
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<th>Issue</th>
<th>Document Date</th>
<th>Detail of Change</th>
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<td>A</td>
<td>28/01/2014</td>
<td>First Issue</td>
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1 INTRODUCTION

This briefing note is in response to a letter received from the Foreshore Unit dated the 10th January 2014 (Appendix 1 for reference). This letter details the representations made by the Department of Arts Heritage and the Gaeltacht (DAHG) on the Foreshore Licence application by Codling Wind Park Ltd (CWP) in respect of site investigation works off the coast of Co. Wicklow near Greystones, Co. Wicklow.

The information below provides further information for the DAHG detailing the steps and procedures Codling Wind Park Ltd propose to take to ensure that the Department’s concern on the continued preservation (either in situ or by record) of wrecks, places, caves, sites, features or other objects of archaeological interest is maintained.

2 REQUEST OF FURTHER INFORMATION

As noted within the letter, a request for detailed locations for the different activities has been received from the DAHG. Unfortunately at this time, CWP cannot provide all of this information. A map has been provided detailing the proposed location of passive acoustic monitor (PAM) relative to known archaeological features (Figures 3). Location information for the other proposed surveys will be gained from survey, desk based and consultation work that is currently underway and will carry on over the forth coming months. As can be seen from the Licence Application, where possible, indicative locations regarding survey work have been provided.

The time constrains with the investigative works (including the duration of some of the surveys) relies on some aspects of the survey work commencing as soon as possible; hence the application for the Foreshore Licence that covers both indicative deployment sites for some surveys and a more descriptive description for others.

The information provided below should alleviate any concerns that the DAHG have with regards to the proposed works. Further to the information provided below, CWP will ensure that as the more detailed information becomes available, the Department will be made aware of the exact locations and durations of the proposed works as per the request.

2.1 Preservation of wrecks, places, caves, sites, features or other objects of archaeological interest during the proposed Investigative Works

Rather than providing the exact locations of the proposed works at this stage, which is not possible, CWP have addressed the DAHG representation by ensuring that the works will not impact wrecks, places, caves, sites, features or other objects of archaeological interest during the proposed Investigative Works.

The information that follows identifies how this is possible.

2.2 Identification of known wrecks, places, caves, sites, features or other objects of archaeological interest

The following information identifies all known wrecks, places, caves, sites, features or other objects of archaeological interest, that have been collected from the marine data available. Figure 1 below identifies these features graphically and Figure 2 also identifies a 250m buffer around each of these features, which indicates an Archaeological Exclusion Zone (AEZs). AEZs will be the principle means used to preserve in situ any features of known archaeological interest. CWP will, as far as possible, ensure that none of the investigative works identified within the Foreshore Application will occur within any of these AEZ’s. Figure 3 details the proposed location of passive acoustic monitors (PAM) relative to known archaeological features.

After on-going assessments and consultations, should works require to be carried out within any of these AEZs, then the proposed course of actions will be carried out on a case by case basis scenario through the use of GWPs archaeologist, the DAHG archaeologists and any other relevant bodies.
In addition to the features and objects identified in the marine data, a number of targets were identified during Geophysical surveys carried out at the site in 2001 as part of the environmental impact assessment. These targets are listed in Table 1 below.

<table>
<thead>
<tr>
<th>Target No</th>
<th>Lat/Long</th>
<th>NGC</th>
<th>IDENTIFICATION</th>
<th>POTENTIAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>53º 08.3891N</td>
<td>339465.95E</td>
<td>V-shaped anomaly within large area of ripples and ridges, yet somewhat different</td>
<td>Possible</td>
</tr>
<tr>
<td></td>
<td>005º 54.9969W</td>
<td>211918.80N</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>53º 10.9512N</td>
<td>333655.9E</td>
<td>Concentration of short 2-3 linear anomalies in a sea of sand. Probably debris. Seen on other lines</td>
<td>Medium. Avoid site</td>
</tr>
<tr>
<td></td>
<td>006º 00.088W</td>
<td>216508.5N</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>53º 13.2401N</td>
<td>328621.9E</td>
<td>Irregular oblong target</td>
<td>Unclear, avoid</td>
</tr>
<tr>
<td></td>
<td>006º 04.503W</td>
<td>220619.9N</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>53º 14.2598N</td>
<td>326764.7E</td>
<td>Tall acoustic shadow in area of boulders close to shore. Probably debris</td>
<td>Low</td>
</tr>
<tr>
<td></td>
<td>006º 06.127W</td>
<td>222461.4N</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>53º 13.8109N</td>
<td>327582.3E</td>
<td>Tall acoustic shadow in area of boulders, probably debris</td>
<td>Low</td>
</tr>
<tr>
<td></td>
<td>006º 05.412W</td>
<td>221650.1N</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Table 1: Targets Identified during 2001 Geophysical Surveys**

The AEZs identified in the maps (Figure 2) are based on a detailed archaeological review of the available marine data. They may be subject to change when further information becomes available, (e.g. when the sidescan sonar and other geophysical survey worked carried out in 2013/14 is complete and reviewed).

In light of their archaeological significance, AEZ’s have been placed around all features, classed as confirmed archaeological interests.
Figure 1: All identified archaeological features and wrecks within the Foreshore Licence Application area.

Figure 2: All identified archaeological features and wrecks within the Foreshore Licence Application area with the appropriate AEZ’s.
2.3 Establishing New AEZ’s

If new finds of archaeological importance are found during the course of any of the forthcoming works, or from the review of the geophysical data, they may also be subject to the implementation of additional AEZ’s. This will be carried out on a case by case basis, based on advice from CWP’s archaeologist and following consultation from the DAHG and any other relevant bodies. A protocol for the discovery of new archaeological features will be required, and a copy of the protocol adopted for UK offshore wind farm sites is featured in Appendix 2. CWP have requested a copy of the Underwater Archaeology Unit (DAHG) protocol in relation to discovery of archaeological features in Irish waters. If such a protocol is available this will be adopted in place of the UK protocol.

All vessel staff will be made aware of the appropriate protocol and will be managed by CWP’s representative ensuring that the methods proposed will be followed in the unlikely event of an unidentified feature being uncovered during the investigative works proposed. Should any archaeological discoveries be uncovered, an example of an archaeological record form (taken from The Crown Estates Protocol for Archaeological Discoveries) is provided in Appendix 3. Again we have requested an equivalent from the Underwater Archaeology Unit of DAHG and will use the appropriate form as determined by DAHG.

2.4 Watching Briefs

Due to the nature of the proposed works covered within the Foreshore Licence Application, and the location of the known archaeological features, there are currently no watching briefs required. However, should further archaeological features be uncovered, or, if in the unlikely event works need to be carried out within the AEZs, where necessary watching briefs during works will be adopted.

Figure 3: Location of Static PAM array showing AEZ’s.

under the guidance of CWP’s archaeologist and with consultations with the DAHG. This will further ensure the preservation of any such feature.

3 CONCLUSION

Through the implementation of mitigation measures, AEZ’s and a protocol for Archaeological discoveries detailed above, CWP will ensure the continued preservation (either in situ or by record) of wrecks, places, caves, sites, features or other objects of archaeological interest will be maintained.
APPENDIX 1 LETTER RECEIVED FROM THE FOreshORE UNIT

Our ref. FS 006241

Ms Nichola McLaughlin
Natural Power Consultants Ltd
The Green House
Forrest Estate
Dalry
Castle Douglas
Dumfries and Galloway DG7 3XS

10 January 2014

Re: Foreshore Licence application by Codling Wind Park Ltd in respect of site investigation works off the coast of Co. Wicklow near Greystones, Co. Wicklow

Dear Ms McLaughlin,

I refer to previous correspondence, resting with my e-mail of the 8th instant to your colleague, Mr Andrew Blyth, regarding the above application.

Please see below the underwater archaeological and nature conservation observations provided by the Department of Arts, Heritage and the Gaeltacht (DAHG).

“Outlined below are the observations and recommendations of the Department in relation to underwater archaeology and nature conservation.

Underwater Archaeology

It is noted that the proposed development is within an area of underwater archaeological potential. The Shipwreck Inventory of Ireland lists numerous wrecks for this area of the Irish Sea, which are subject to statutory protection under section 3 of the 1987 National Monuments (Amendment) Act. Given the location of the proposed development it is possible that underwater archaeology may be impacted by the development.

It is therefore recommended by this Department that more detailed information is submitted to the Department of Arts, Heritage and the Gaeltacht for review prior to a foreshore licence being granted. The exact location of the proposed C-POD locations, grab sample areas, beam and otter trawl areas and any other areas of seabed which will be impacted during the investigation studies should be forwarded to the Department of Arts, Heritage and the Gaeltacht. Details on the trawls being used should also be forwarded to this Department such as the trawl size and the length of the trawl runs.
Once this data has been reviewed by the Department of Arts, Heritage and the Gaeltacht, further archaeological mitigation may be required such as underwater archaeological assessment, avoidance, preservation by record (archaeological excavation) or archaeological monitoring. The applicant shall be prepared to be advised by the Department of Arts, Heritage & the Gaeltacht in this regard.

**Reason:** To ensure the continued preservation (either *in situ* or by record) of wrecks, places, caves, sites, features or other objects of archaeological interest.

**Nature Conservation**

The Department of Arts, Heritage and the Gaeltacht has no comments or recommendations to make on this application on nature conservation grounds."

Please let me have your comments on the above observations.

Yours sincerely,

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Patrick O'Neill
Foreshore Unit
APPENDIX 2: PROTOCOL IF AN ARCHAEOLOGICAL FEATURE IS UNCOVERED DURING WORKS PROPOSED IN THE FORESHORE LICENCE APPLICATION

If an unexpected find of archaeological interest is uncovered from the sea during the Foreshore Licence works a protocol for such discoveries will be adopted. The information provided below will be the basis for the protocol and will be confirmed in full with the nominated archaeologist prior to any works covered in the Foreshore Licence application commences.

The protocol for Archaeological Discoveries (PAD) will be based on the document Protocol for Archaeological Discoveries: Round 3 Offshore Renewables Projects (The Crown Estate, 2010b). Should the DAHG provide a different protocol or would like to make amendments to the information provided below, CWP will be happy to review any further suggestions. CWP staff will administer the PAD and provide initial advice and consultations through the company’s archaeologist with the DAHG and other Archaeological Curator’s as necessary.

Once agreed by CWP and the company archaeologist, the PAD will be distributed in a form suitable for use on board survey vessels. CWP will ensure that the relevant staff on all vessels are informed of and have access to the PAD, including supporting material, detailing the find types that may be of archaeological interest, and the potential importance of any archaeological material encountered.

All finds of archaeological material will be reported by the Contractor(s), in accordance with the communication plan (Figure 3 below), to the Nominated Contact within the CWP organisation, who will inform the Archaeological Curator within the DAHG.

Full contact details for all relevant parties will be included in the PAD.

The response to reported finds will be implemented through the measures set out in the PAD, including further survey or establishment of new AEZs if appropriate.

The PAD will be implemented by means of an initial visit by the CWP representative to the relevant vessels to ensure that all staff are made aware of what constitutes an appropriate find, and through periodic reports by the Nominated Contact.

At the end of the works covered by the Foreshore Licence application works CWP will prepare, if necessary, a report on the results of the PAD. All new archaeological finds will be included in the final archaeological report in the section covering maritime sites and finds within the area affected by the wind farm.

Further to this all new archaeological finds will be taken into account during future works and within all impact assessments as and when required.
Discoveries made at sea

Actions by vessel staff:
UNDERTAKE ACTIONS OUTLINED IN PROTOCOL
Inform CWP representative

CWP Representative will:
UNDERTAKE ACTIONS OUTLINED IN PROTOCOL:
Ensuring the archaeological feature is protected as far as possible and Government Departments and relevant bodies are informed as quickly as possible

CWP representative will:
UNDERTAKE ACTIONS OUTLINED IN THE PROTOCOL AND LIAISE WITH THE RELEVANT CURATORS AND MEMBERS OF DEPARTMENT

Figure 3: Communication Process in the event of discovering a new archaeological feature.
### APPENDIX 3: RECORD FORM FOR ARCHAEOLOGICAL DISCOVERIES

**Offshore Renewables Protocol**

**for Archaeological Discoveries**

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### Preliminary Record Form: Discoveries on the Seabed / on board / in intertidal zone / on land

<table>
<thead>
<tr>
<th>Company Name:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vessel/Team Name:</td>
</tr>
<tr>
<td>Site/area Name:</td>
</tr>
<tr>
<td>Date:</td>
</tr>
<tr>
<td>Time of compiling information:</td>
</tr>
<tr>
<td>Name of compiler (Site Champion):</td>
</tr>
<tr>
<td>Name of finder (if different to above):</td>
</tr>
</tbody>
</table>

### Time at which discovery was encountered:

<table>
<thead>
<tr>
<th>Vessel position at time when anomaly was encountered:</th>
</tr>
</thead>
<tbody>
<tr>
<td>a) Latitude</td>
</tr>
<tr>
<td>b) Longitude</td>
</tr>
<tr>
<td>c) Datum (if different from WGS84)</td>
</tr>
</tbody>
</table>

Original position of the anomaly on the seabed, if known:

### Notes on likely accuracy of original position stated above:

<table>
<thead>
<tr>
<th>How accurate is the position?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Is the position the original position or has the material been moved by operations?</td>
</tr>
<tr>
<td>Details of circumstances and activity that lead to the discovery</td>
</tr>
<tr>
<td>Description of the find/anomaly:</td>
</tr>
<tr>
<td>----------------------------------</td>
</tr>
<tr>
<td>Apparent size/extent of the anomaly:</td>
</tr>
<tr>
<td>Details of any find(s) recovered:</td>
</tr>
<tr>
<td>Details of photographs, drawings or other records made of the find(s) (e.g., location figure):</td>
</tr>
<tr>
<td>Details of treatment or storage of find(s):</td>
</tr>
<tr>
<td>Date and time Nominated Contact informed:</td>
</tr>
<tr>
<td>General notes:</td>
</tr>
</tbody>
</table>

If discovered on the seabed:

a) Derived from: e.g., Obstacle Avoidance Sonar, Cable Tensiometer?

b) Apparent size/extent of anomaly (length, width, height above seabed)

c) Extent of deviation/route development

Signed: 

Date: 

THE CROWN ESTATE