

Aberdeen Offshore Wind Farm

A4 - Sightings

Site platform name	Sighting number	Date	Time at start of (UTC)	Time at end of (UTC)	How visually identified (by aircraft or visually)	How were the animals identified (by banding)	Observer(s)	Position latitude	Position longitude	Position north	Position east	Position depth	Position other	Species	Description	Banking to animal	Range of animal (meters)	Field number	Number of adults (band sightings only)	Number of juveniles (band sightings only)	Number of calves (band sightings only)	Photograph taken	Behaviour (band sightings only)	Direction of travel (band sightings only)	Direction of travel (compass bearing)	Source of sound when detected	Source of sound when identified	Time interval between sightings (UTC)	Time interval between sightings (local time)	Group size of approach (UTC)	Group size of take-off	Notes on sightings	Comments	Day record
EDINBURGH	1	1/10/2017	15:52	16:02				55	0152	1	052	24	200m		25	25	1	1	0	0						15:52	16:02	2	15:52			Seen to take feed on bank before 16:01:15.0		

APPENDIX B – Non-Compliance summary report



Non-compliance summary report	
A) Name and position of reporter ('Identifier') of non-compliance [Redacted]	
B) Date and time of non-compliant incident: 18th January 2018	
C) Position / location of non-compliant incident (where relevant): Aboard EDT Hercules – during marine mammal mitigation pre-work search & use of USBL. Potential non-compliance noted during review of MMO records provided by Contractor after completion of works.	
D) Details of (potential) non-compliance <ul style="list-style-type: none"> 30 minute delay between end of pre-work search and activation of USBL noted upon review of EDT Hercules MMO records (received from Boskalis 31/01/218) It is noted that USBL should be activated immediately upon completion of search and upon receipt of confirmation from "MMO" (designated crew member) that no marine mammals are present in mitigation zone. 	
E) Reported to: [Redacted]	F) Position, Company: [Redacted]
G) Reported by: [Redacted]	H) Position, Company: [Redacted]
I) Identifier signature: [Redacted] Print name: [Redacted]	
J) ECoW Signature: [Redacted] [Redacted]	

[Redacted]

From: [Redacted]
Sent: 21 February 2018 11:34
To: [Redacted]
Cc: [Redacted]
[Redacted]

Subject: 'MMO' report - EOWDC Non-UXO relocation works
Attachments: Marine mammal recording forms_Hercules 18.01.2018_comments.xls; 0011347-BOS-00MAA3-TRI-00-003-00 Marine Mammal Mitigation Report - Non-U....pdf

Dear [Redacted]

Pleased find attached the 'MMO' report for the non-UXO relocation works undertaken at EOWDC in January 2018.

Please note, the attached report (.pdf) has not yet been signed due to a lack of availability within Boskalis. We intend to issue a signed version as soon as possible.

I trust the information contained within the report, coupled with the log sheets (attached again for completeness) and the most recent ECoW monthly report is sufficient, however please let me know if you have any questions.

Kind regards,
[Redacted]

[Redacted]
[Redacted]
naturalpower.com
renewable energy consultants

[Redacted]
[Redacted]
[Redacted]

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[Disclaimer](#)

From: [Redacted]
Sent: 01 February 2018 19:03
To: [Redacted]
Cc: [Redacted]

Subject: 06357/18/0 UXO Marine Licence: Condition 3.1.10 Environmental Protection and 3.2.3.2 Marine Mammal and Fish Recording

06357/18/0 UXO Marine Licence: Condition 3.1.10 Environmental Protection and 3.2.3.2 Marine Mammal and Fish Recording

Dear [Redacted]

Please find attached the "MMO" (suitably briefed crew member) records from the Non-UXO relocation works undertaken 18th - 21st Jan 2018. The works carried out aboard the EDT Hercules required the use of ROV, and therefore USBL positioning equipment.

In line with Condition 3.1.10 of the Marine Licence these records have been submitted 14 days following the commencement of the Works (2nd Campaign). While it is acknowledged Condition 3.2.3.2 of the Marine Licence requires information on observations of Salmonids and carcass searches, no detonations were undertaken during this campaign therefore no fish records have been included within the records.

Please note -

- Due to a miscommunication between the vessel crew undertaking the pre-work search and the personnel in charge of activating the USBL on board the EDT Hercules, there was a 30 min delay between the end of the pre-work search and the USBL being activated. This has been included within the January ECoW report, and corrective actions described.
- The crew alternated between using two available ROV's, which communicate via beacons with a vessel mounted USBL pole. While the 'Operations' tab indicate that USBL equipment in its entirety was stopped and started a number of times over the course of the works, the Contractor has since clarified that this information relates to the ROVs, and that the vessel mounted USBL remained on throughout the works. Superintendent aboard the EDT Hercules during the Works stated - *"I checked again on the bridge and they confirmed that the USBL system kept running over the whole period we were out in the field busy with the operation. What they mean by stopping the system is when they switch from WROV. They will stop the USBL for 1 WROV (but USBL pole stays online and pinging, so noise is still produced), and then switch over to other WROV if needed. This will in the future operation be logged more clearly to avoid this miscommunication."*
- Furthermore, while it is recognised there were further watches carried out beyond the initial pre-work search, it has been re-iterated to the Contractor that further searches are not required once the initial pre-work search has been carried out and the USBL is activated, unless there is a break in operations. 'Breaks' noted within the 'Effort' tab are breaks in operation of the ROVs, rather than the vessel mounted USBL.

I have added comments to the attached spreadsheet in order to clarify the points above, and these details will be further clarified within the MMO report.

We could discuss this on the Monday catch up call, however please do not hesitate to contact me should you have any questions.

Kind regards,
[Redacted]

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[Redacted]

From: [Redacted]
Sent: 21 February 2018 23:14
To: [Redacted]
Cc: [Redacted]
Subject: Proposed Geotechnical and Geophysical Survey_Offshore Export Cable Route

Dear [Redacted]

As discussed on the call earlier today, AOWFL is proposing to carry out geotechnical and geophysical survey work on the EOWDC cable route and details are provided below.

Geotechnical Survey:

Sediment samples will be taken using a vibrocore and Grab (Van Veen) methodologies, and cone penetration tests (CPT). No sediment will be removed during the CPTS. Based on MS-LOT guidance "Sediment Sampling and Scientific Instrument Deployment" (<http://www.gov.scot/Topics/marine/Licensing/marine/guidance>) and the proposed methodology, we believe these works are exempt from Marine Licencing, as the following applies:

- the volume of sediment removed is less than 1 cubic metre (per 'grab');
- it is not likely to cause a danger or obstruction to navigation;
- it is a plan or project not likely (either alone or in combination with other plans or projects) to have a significant effect on a European site; a Ramsar site; the protected features of an Marine Protected Area (MPA); or any process on which the conservation of any protected feature of a MPA is dependent.

We will therefore complete the Notice of Exempted Activity form (<http://www.gov.scot/Topics/marine/Licensing/marine/Applications/exemptedactivity>), and submit to MS-LOT in advance of the works. In addition to the corresponding notifications including the NtMs.

Geophysical survey:

Geophysical survey work may also be undertaken, using an Edgetech 3200 sub-bottom profiler (SBP). The equipment will operate at 400-500 Hz, and therefore will be audible to all groups of marine mammals. It is therefore proposed that the geophysical works are carried out under the existing EPS licence for the construction phase (MS EPS 25/2017/01). AOWFL considers that mitigation is not required for the SBP alone as there is no potential for auditory injury (only disturbance, as is permitted under the licence). However, if USBL equipment is proposed to be used in conjunction with the SBP, there will of course be a pre-work search prior to the use of the USBL. The USBL will then remain on throughout the works, thus effectively deterring marine mammals from the area.

Should any changes be required to the Marine Noise Registry Form, a new proposed activity form will be submitted no later than seven days prior to commencement of the licenced activity (as per Condition 3 of the Licence). The corresponding NtM will also be issued.

Please let me know if you agree with the approach describe above or require any further information at this stage on the proposed surveys.

Thanks,

[Redacted]

[Redacted]

Aberdeen Offshore Wind Farm

3rd Floor, The Tun Building

4 Jackson's Entry
Holyrood Road
Edinburgh
EH8 8PJ

[Redacted]

[Redacted]

We have recently changed the registered offices of a number of our companies. The following are now registered at 1 Tudor Street, London, EC4Y 0AH:
Vattenfall Wind Power Ltd, Border Wind Ltd, Border Wind Farms Ltd, BW Ops Ltd, Clashindarroch Wind Farm Ltd, Eclipse Energy UK Ltd,
Eclipse Energy Company Ltd, Kentish Flats Ltd, Ormonde Energy Ltd, Ormonde Energy Holdings Ltd, Ormonde Project Company Ltd, Thanet Offshore

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[Redacted]

From: [Redacted]
Sent: 21 February 2018 15:53
To: [Redacted]
Cc: [Redacted]
Subject: EOWDC - UXO - 06357/17/1 - Condition 3.2.3.1 - Request for SEPA Contact Name & Details

Hi [Redacted]

EOWDC - UXO - 06357/17/1 - Condition 3.2.3.1 – Waste Disposal – Non Compliance Letter (29/01/2018)

Could you please provide details of your contact within SEPA with whom you have been corresponding with in relation to the above issue? Many thanks in advance.

Kind regards

[Redacted]

[Redacted]

[Redacted]

marinescotland

Marine Scotland Licensing Operations Team

Scottish Government

Marine Laboratory, 375 Victoria Road, Aberdeen, AB11 9DB

[Redacted]

[Redacted] / MS.MarineRenewables@gov.scot

<http://www.gov.scot/Topics/marine/Licensing/marine>

[Redacted]

From: [Redacted]
Sent: 22 February 2018 11:35
To: 'MARINEENERGY'; [Redacted] [Redacted]
[Redacted]
Cc: [Redacted]
Subject: EOWDC - EPS Variation - Geophysical Survey - Query regarding consultation requirements
Attachments: EPS Risk Assessment_Construction Works

Dear [Redacted]

EOWDC have encountered some technical difficulties during the OEC works and are now requesting permission to undertake some further surveys and studies to examine the ground conditions prior to re-commencement of cable laying activities. They are hoping to undertake survey activities within the next 1-2 weeks. They are also hoping to undertake geotechnical surveys (likely to be exempt from licensing requirements).

They have provided the following information in relation to proposed Geophysical Surveys:-

“Geophysical survey:

Geophysical survey work may also be undertaken, using an Edgetech 3200 sub-bottom profiler (SBP). The equipment will operate at 400-500 Hz, and therefore will be audible to all groups of marine mammals. It is therefore proposed that the geophysical works are carried out under the existing EPS licence for the construction phase (MS EPS 25/2017/01). AOWFL considers that mitigation is not required for the SBP alone as there is no potential for auditory injury (only disturbance, as is permitted under the licence). However, if USBL equipment is proposed to be used in conjunction with the SBP, there will of course be a pre-work search prior to the use of the USBL. The USBL will then remain on throughout the works, thus effectively deterring marine mammals from the area.

Should any changes be required to the Marine Noise Registry Form, a new proposed activity form will be submitted no later than seven days prior to commencement of the licenced activity (as per Condition 3 of the Licence). The corresponding NtM will also be issued.

Just to clarify that the range that the different equipment will operate is from 400/500Hz – 24kHz.”

The SBP profiler is not included within their current [Construction EPS licence](#) (MS EPS 25/2017/01) nor was it assessed within the accompanying method statement/application (attached for reference) although the USBL is referenced within the accompanying Risk Assessment report (see 2.3.4 – Cable installation, Export Cable, pg. 12).

Our proposal would be to consult with SNH and issue a varied EPS licence to include the equipment detailed above, however, I would be grateful if you could please confirm whether you would require any additional information when considering the variation consultation? If so, please let me know what you would require and I will ensure it is provided by EOWDC. Additionally if you have any queries at this stage please do forward them to me.

If you have any queries please do not hesitate to contact me.

Kind regards

[Redacted]

[Redacted]
[Redacted]

marinescotland

Marine Scotland Licensing Operations Team

Scottish Government

Marine Laboratory, 375 Victoria Road, Aberdeen, AB11 9DB

[Redacted]

[Redacted] / MS.MarineRenewables@gov.scot

<http://www.gov.scot/Topics/marine/Licensing/marine>

[Redacted]

From: [Redacted]
Sent: 11 August 2017 08:02
To: [Redacted]
Cc: [Redacted]

Subject: EPS Risk Assessment_Construction Works
Attachments: EOWDC EPS Licence Application Form - Construction (REPORT - 1149041 - 1 - B3).pdf; EOWDC EPS Risk Assessment -- Construction (REPORT - 1148902 - 1 - B4).pdf

Dear [Redacted]

Please find attached an EPS licence application form (1149047) and an EPS Risk assessment (1148902), outlining an assessment of the potential risks to EPS during the construction phase works at the EOWDC.

These documents have been developed in close consultation with SNH and are submitted in order to allow Marine Scotland to grant an EPS Licence to cover all construction phase works, with the exception of the UXO clearance works for which a separate EPS licence has been applied.

During the construction / installation phase, contractors will be required to utilise noise emitting equipment which has the potential to disturb EPS, as outlined within the attached documents. Prior to the use of this equipment it is proposed that pre-work searches will be carried out. Full details of the proposed mitigation are presented in Section 7 of the EPS Risk assessment.

It is considered that as a result of this submission Condition 3.2.1.6 of the Project's Marine Licence (3409/2016/1) requiring the appointment of a Marine Mammal Observer ("MMO") is not required and therefore this condition can be discharged.. Furthermore, as no piling activity will be undertaken during the construction of the EOWDC, it is considered that conditions 3.2.1.8 and 3.2.2.7 are not relevant to the works. However, it is proposed that the Marine Noise Registry be completed in relation to the use of geophysical survey systems.

Should any queries arise while I am on leave (between the 14th and the 18th August) please contact [Redacted] (Natural Power Consultants).

Thanks,
[Redacted]

[Redacted]
[Redacted]
Aberdeen Offshore Wind Farm

3rd Floor, The Tun Building
4 Jackson's Entry
Holyrood Road
Edinburgh
EH8 8PJ

[Redacted]
[Redacted]

[Redacted]

From: [Redacted]
Sent: 22 February 2018 15:21
To: [Redacted]
Cc: [Redacted]
Subject: RE: EOWDC - 'MMO' report - EOWDC Non-UXO relocation works - Acknowledgement of receipt

Dear [Redacted]

Thanks for copying us in and also acknowledging receipt on behalf of SNH.

Kind regards,

[Redacted]

[Redacted] | **Marine Renewables and Climate Change**
Scottish Natural Heritage | Battleby | Redgorton | Perth | PH1 3EW [Redacted]
Dualchas Nàdair na h-Alba | Battleby | Ràth a' Ghoirtein | Peairt | PH1 3EW
nature.scot – *Connecting People and Nature in Scotland* – [@nature_scot](https://twitter.com/nature_scot)

From: [Redacted]
Sent: 21 February 2018 11:41
To: [Redacted]
Cc: [Redacted]
Subject: EOWDC - 'MMO' report - EOWDC Non-UXO relocation works - Acknowledgement of receipt

Dear [Redacted]

Many thanks for submitting, MS-LOT acknowledge receipt. Once a signed version is available please do forward to MS-LOT.

We will review and respond in due course.

Kind regards

[Redacted]

[Redacted]

[Redacted]

marinescotland

Marine Scotland Licensing Operations Team

Scottish Government

Marine Laboratory, 375 Victoria Road, Aberdeen, AB11 9DB

[Redacted]

[Redacted] / MS.MarineRenewables@gov.scot

<http://www.gov.scot/Topics/marine/Licensing/marine>

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Sent: 21 February 2018 11:34
To: [Redacted]
Cc: [Redacted]

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Kind regards,
[Redacted]

[Redacted]
[Redacted]
naturalpower.com
renewable energy consultants

[Redacted]
[Redacted]
[Redacted]

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[Disclaimer](#)

From: [Redacted]
Sent: 01 February 2018 19:03
To: [Redacted]
Cc: [Redacted]

Subject: 06357/18/0 UXO Marine Licence: Condition 3.1.10 Environmental Protection and 3.2.3.2 Marine Mammal and Fish Recording

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[Redacted]

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