

[Redacted]

From: [Redacted]
[Redacted]
Sent: 19 February 2018 11:43
To: [Redacted]
Cc: [Redacted]
Subject: WNoO_011
Attachments: ABE-VF-GEN-OTH-0005_11_Weekly Notice of Operations_190218_.pdf

Hi [Redacted]

Attached you can find the Weekly Notice of Operations 011. Apologies for the delay I was just waiting to receive the latest updates.

Regards,
[Redacted]

[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: 20 February 2018 14:09
To: [Redacted]
Cc: [Redacted]
Subject: RE: EOWDC - ML 04309/16/1 - Condition 3.2.1.6 - Appointment of MMO - USBL - List of vessels/activities

Hi [Redacted]

Thank you very much for the additional crew members who have received the MMO briefing. MS-LOT acknowledge.

Best regards,

[Redacted]

From: [Redacted]
Sent: 19 February 2018 16:15
To: [Redacted]
Cc: [Redacted]

Subject: EOWDC - ML 04309/16/1 - Condition 3.2.1.6 - Appointment of MMO - USBL - List of vessels/activities

Hi [Redacted]

For your information please find below the names of additional crew members (& staff) who have recently received the 'MMO' crew briefing at EOWDC.

Thanks,
[Redacted]

Activity	Vessels requiring "MMOs"	Role of vessel	Vessel crew names
Cable installation	Dutch Power	Support vessel	<ul style="list-style-type: none">• [Redacted]• [Redacted]
Cable installation	Sea Bronco	Support vessel	<ul style="list-style-type: none">• [Redacted]• [Redacted]
Cable installation	Ndurance	Cable Lay Vessel	<ul style="list-style-type: none">• [Redacted]• [Redacted]• [Redacted]• [Redacted]• [Redacted]• [Redacted]• [Redacted]• [Redacted]• [Redacted]• [Redacted]• [Redacted]• [Redacted]• [Redacted]

Guard vessel	Isla B	Guard vessel	<ul style="list-style-type: none"> • [Redacted] • [Redacted] • [Redacted] • [Redacted]
Site office	(For info)	-	<ul style="list-style-type: none"> • [Redacted] • [Redacted] • [Redacted] • [Redacted]

[Redacted]
[Redacted]
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renewable energy consultants

[Redacted]
[Redacted]
[Redacted]

From: [Redacted]
Sent: 25 January 2018 17:09
To: [Redacted]
Cc: [Redacted]

Subject: EOWDC - ML 04309/16/1 - Condition 3.2.1.6 - Appointment of MMO - USBL - List of vessels/activities

Hi [Redacted]

For your information please find below the names of additional crew members who have recently received the 'MMO' crew briefing:

Activity	Vessels requiring "MMOs"	Role of vessel	Vessel crew names
Foundation Installation	EDT Hercules	Support vessel	<ul style="list-style-type: none"> • [Redacted] • [Redacted] • [Redacted] • [Redacted] • [Redacted] • [Redacted]
Cable installation	Ndurance	Cable Lay Vessel	<ul style="list-style-type: none"> • [Redacted] • [Redacted] • [Redacted] • [Redacted] • [Redacted] • [Redacted]

Kind regards,
[Redacted]

From: [Redacted]
Sent: 08 January 2018 15:47
To: [Redacted]

Cc: [Redacted]

Subject: RE: Suspected Spam - Pay special attention (DKIM failure): FW: EOWDC - ML 04309/16/1 - Condition 3.2.1.6 - Appointment of MMO - USBL - List of vessels/activities

Dear [Redacted]

Thank you very much for the information concerning the MMO watches. MS-LOT acknowledge receipt.

Best regards,

[Redacted]

From: [Redacted]

Sent: 21 December 2017 16:58

To: [Redacted]

Cc: [Redacted]

Subject: FW: Suspected Spam - Pay special attention (DKIM failure): FW: EOWDC - ML 04309/16/1 - Condition 3.2.1.6 - Appointment of MMO - USBL - List of vessels/activities

Hi [Redacted]

Please find the information below regarding the MMO watches.

Activity	Vessels requiring "MMOs"	Role of vessel	Vessel crew names
Foundation Installation	EDT Hercules	Support vessel	<ul style="list-style-type: none">• [Redacted]• [Redacted]• [Redacted]• [Redacted]• [Redacted]• [Redacted]
Cable installation	Ndurance	Cable Lay Vessel	TBC

**Not previously notified to MS-LOT.*

[Redacted] received MMO briefing earlier today, along with one crew member from the Asian Hercules.

Crew members aboard vessels other than the EDT Hercules will not undertake the watches, however our Contractor wanted to increase awareness and understanding of EPS requirement across project vessels.

We will provide names of crew undertaking role of MMO during cable installation when this is confirmed in the New Year.

Kind regards,

[Redacted]

[Redacted]

[Redacted]

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[Redacted]

[Redacted]

[Redacted]

[Redacted]

[Redacted]
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[Redacted]
[Redacted]
[Redacted]

From: [Redacted]
Sent: 20 December 2017 14:46
To: [Redacted]
Cc: [Redacted]
Subject: EOWDC - ML 04309/16/1 - Condition 3.2.1.6 - Appointment of MMO - USBL - List of vessels/activities .

Hi [Redacted]

That would be extremely helpful if you could please provide a list of activities/vessels for which USBL, and therefore MMOs, will be required.

Kind regards

[Redacted]

From: [Redacted]
Sent: 15 December 2017 11:39
To: [Redacted]
Cc: [Redacted]
Subject: EOWDC - ML 04309/16/1 - Condition 3.2.1.6 - Appointment of MMO - Campaign Details Requested

Hi [Redacted]

Thanks for the clarification. [Redacted] will respond regarding the foundation installation campaign and we will get back to you on other query next week

Best

[Redacted]

From: [Redacted]
Sent: 15 December 2017 10:06
To: [Redacted]
Cc: [Redacted]
Subject: RE: EOWDC - ML 04309/16/1 - Condition 3.2.1.6 - Appointment of MMO - Campaign Details Requested

Hi [Redacted]

Just to clarify - the crew members below will be undertaking the role of MMO during foundation installation.

There will be further vessels using USBL during other works (e.g. cable installation) and therefore other crew members will be briefed.

If it would be useful we can provide a list of activities/vessels for which USBL, and therefore "MMO's", will be required.

Kind regards,
[Redacted]

[Redacted]
[Redacted]
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[Redacted]
[Redacted]
[Redacted]

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The Greenhouse, Dalry, Castle Douglas, DG7 3XS, UK.
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From: [Redacted]
Sent: 15 December 2017 09:13
To: [Redacted]
Cc: [Redacted]
Subject: RE: EOWDC - ML 04309/16/1 - Condition 3.2.1.6 - Appointment of MMO - Campaign Details Requested

Good morning [Redacted]

The crew members (detailed below) will remain onboard EDT-Hercules which is the only vessel operating the ROV /USBL during the foundation installation.

Should there be a crew change during the foundation installation we will of course submit the details of the new crew members.

Kind regards,
[Redacted]

- [Redacted]
- [Redacted]
- [Redacted]
- [Redacted]

From: [Redacted]
Sent: 13 December 2017 18:01
To: [Redacted]
Cc: [Redacted]
Subject: EOWDC - ML 04309/16/1 - Condition 3.2.1.6 - Appointment of MMO - Campaign Details Requested

Dear [Redacted]

Many thanks for your email of 7th December 2017 providing the names of the crew members who will be undertaking the role of MMO.

I would be grateful if you could please confirm which campaign(s) these crew members will be acting as MMOs for (e.g. jacket and foundation installation, inter array cabling) as you did for the scour protection works.

Many thanks in advance.

Kind regards

[Redacted]

Please note new telephone number

[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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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]
[Redacted]
Sent: 20 February 2018 23:15
To: [Redacted]
Cc: [Redacted]
Subject: RE: EOWDC - T/C Tomorrow 21/02/2018 - Agenda/Information

Hi [Redacted]

The aim of the meeting is for us to provide Marine Scotland with more detail information on the issues that we are experiencing burying the cables but these could be the points to be discussed:

- Issues experienced installing the offshore export cables.
- Options being investigated for installing the offshore export cables.
- Request for installing the offshore export cables after the end of February.
- Noise Monitoring Report.

We appreciate that Marine Scotland might not be in the position to provide advice on the options being investigated during the call.

Let me know if you have any queries or would like any other points to be included.

Regards,
[Redacted]

From [Redacted]
Sent: Tuesday, February 20, 2018 3:24 PM
To: [Redacted]
Cc: [Redacted]
Subject: EOWDC - T/C Tomorrow 21/02/2018 - Agenda/Information

Hi [Redacted]

Grateful if you could please circulate an agenda or any relevant/useful information prior to tomorrow's TC regarding the OEC.

Thank you for the copy of the Noise Monitoring Report, we will speak about this tomorrow.

Best

[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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Dh'fhaodadh gum bi teachdaireachd sam bith bho Riaghaltas na h-Alba air a chlàradh neo air a sgrùdadh airson dearbhadh gu bheil an siostam ag obair gu h-èifeachdach neo airson adhbhar laghail eile. Dh'fhaodadh nach eil beachdan anns a' phost-d seo co-ionann ri beachdan Riaghaltas na h-Alba.

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:
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Eclipse Energy Company Ltd, Kentish Flats Ltd, Ormonde Energy Ltd, Ormonde Energy Holdings Ltd, Ormonde Project Company Ltd, Thanet Offshore

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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>

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

Subject: 'MMO' report - EOWDC Non-UXO relocation works

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]

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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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MARINE MAMMAL MITIGATION REPORT NON-UXO DEBRIS RELOCATION (2ND CAMPAIGN)

CONTRACT NUMBER: 0011347
 CONTRACTOR DOC NUMBER: 0011347-BOS-00MAA3-TRI-00-003-00
 EMPLOYER DOCUMENT NUMBER:



Rev	Date	Originator	Disciplinary Check	Interdisciplinary Check	Package Manager Approval
0	20-02-2018	[Redacted]	[Redacted]	[Redacted]	[Redacted]

Revision Record

Rev	Date	Section	Page	Reason
A	12-02-2018	All	All	First issue / internal review
0	20-02-2018	Title; 1; 1.1; 1.2; 2	4	Issued for use, after Employer comments received: European Offshore Wind Deployment Centre EOWDC (also known as Aberdeen Offshore Wind Farm); Debris relocation; Briefed member of ship's crew acting as an Observer; Pre-work searches.

Parties involved

Parties	Name	Abbreviation / term
EMPLOYER	Vattenfall/AOWFL	Employer
CONTRACTOR	Boskalis	Contractor

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1. INTRODUCTION

This report presents the findings of dedicated marine animal monitoring, conducted by briefed member of ship's crew acting as an Observer, which occurred on the EDT Hercules during non-UXO debris relocation (2nd campaign) on the European Offshore Wind Deployment Centre EOWDC (also known as Aberdeen Offshore Wind Farm) from the 18th until the 21st of January 2018.

The non-UXO debris relocation is permitted under Marine License number 06357/18/0. The transport and installation phase of the EOWDC. EOWDC has the potential to affect marine mammals and as such a marine mammal mitigation was developed to minimise any disturbance to marine mammals in the area.

The proposed mitigation is based upon ensuring that there are no marine animals present within a 200 m radius of the vessel (known as the 'mitigation zone') for a period of 30 minutes (day or good visibility) prior to the commencement of works.

1.1 Marine Mammal Mitigation overview

The protocol recommends a visual monitoring period of at least 30 minutes prior to start of the works. Should marine animals be present within 200 m of the vessel during this period, the start shall be delayed until the animal has been clearly tracked, visually, to an area outside of the 200 m mitigation zone or at least 20 minutes has passed since the last sighting, allowing animals to move out of the vicinity. A MMO watch can only be conducted during good visibility, when there is darkness or bad visibility works can't commence.

Breaks during works of less than 10 minutes in duration do not require a new marine mammal watch if there is no marine mammal observed. Breaks of more than 10 minutes will require a full marine mammal watch.

1.2 Marine Mammal Observer procedures

A nominated observer undertook watches for marine mammals throughout the campaign as required. Before the works commenced a pre-work search of a minimum of 30 minutes was carried out focusing on the 200 m mitigation zone surrounding the vessel. The primary observation techniques used to spot marine mammals was to scan the visible area of sea using the naked eye and scanning areas of interest with binoculars

2. RESULTS

A total of 5 hours and 50 minutes of watches were carried out by a briefed member of ship's crew acting as an Observer from the 18th until the 21st of January 2018. The MIMO watches were carried out from the bridge of the EDT Hercules.

Data on marine mammal monitoring were recorded on the Marine Mammal Recording Forms (Appendix A). A non-compliance has occurred on the 18th of January, this already has been reported to Marine Scotland by AOWFL (Appendix B).

On the 21st of January a Grey seal has been observed, the start of encounter was at 15:55 and ended at 16:10 at approximately 25 metres from the vessel. The seal was on the surface while the vessel was on transit between location A02 to A03. No mitigation was required as the sighting occurred during operations.

During the rest of the campaign no more marine mammals were sighted in the area.

Weather Conditions during watches

18th of January

The visibility was good, there was no precipitation, no sun glare and a slight sea state and a low swell (< 2 m). The wind (Beaufort) was force 3 in a south westerly direction.

19th of January

The visibility was good, there was no precipitation and a slight sea state and a low swell. Between 13:00 and 14:00 there was a strong and variable sun glare behind. The rest of the day no sun glare. The wind (Beaufort) was force 3 in a south westerly direction.

At 16:00 the Mammal watch has been suspended due to sunset.

20th of January

The visibility was good, there was no precipitation and a slight sea state and a low swell. No sun glare till 13:00 when it started with a strong glare forward going into a variable glare forward. The wind (Beaufort) started with force 2 in westerly direction and went up to force 3 in a north westerly direction.

At 16:05 the Mammal watch has been suspended due to sunset.

21st of January

The visibility was good and there was no precipitation. The day started with a slight sea state and a low swell. In the afternoon the sea state went to Moderate and a medium swell (2-4 m). The wind (Beaufort) went from force 1 and ended in a force 7 at the end of the day, the direction varied from south westerly to southerly ending in south easterly direction.

At 16:10 the Mammal watch has been suspended due to sunset.

Aberdeen Offshore Wind Farm

APPENDIX A – Marine Mammal Recording Forms

A1 - Cover Page

Regulatory reference number	Country	Location	Ship/platform name	Client	Contractor	Survey type (site, QA, OBC, VSP, etc.)	Start date	End date	Number of source vessels	Type of source (e.g. USBL, MBES, S, SSS etc.)	Source depth (metres)	Frequency (kHz)	Intensity (dB re. 1µPa or 1µV/m²)	Shot point interval (metres)	Method of soft start	Visual monitoring equipment used	Magnification of optical equipment	Height of eye above water surface (metres)	How was distance of animals estimated?	Comments	Flag record
	UK	Aberdeen Bay	EDT HERCULES	Veternal	Bostals	Site	1/18/2018		1	USBL	9.0/21-31	360B				Binoculars	7x30	15.0			
			EDT HERCULES	Veternal	Bostals	Site	1/19/2018			UBE	23.0	450				Binoculars	7x30	15.0			

A2 - Operations

Equipment (USBL, MBES, SSS etc.)	Ship/platform name	Start Date	Reason for operation	Time soft start/ramp-up began (UTC)	Time of full power (UTC)	Time of start of line/operations (UTC)	Time of end of line/operations (UTC)	Time source stopped (UTC)	End Date	Time pre-shooting search began (UTC)	Time search ended (UTC)	Depth range	Was it day or night in the period prior to firing?	Was any mitigating action required?	Comments	Flag record
USBL	EDT HERCULES	1/18/2018			12:10	12:10		12:33	1/18/2018			s	d		USBL constantly in operation, never switched off	
USBL	EDT HERCULES	1/18/2018			13:15	13:15		23:24	1/18/2018			s	d		USBL constantly in operation, never switched off	
USBL MBES	EDT HERCULES	1/18/2018			23:50	23:50		10:40	1/19/2018			s	n		USBL constantly in operation, never switched off	
USBL MBES	EDT HERCULES	1/19/2018			11:30	11:30		15:40	1/19/2018			s	d		USBL constantly in operation, never switched off	
USBL	EDT HERCULES	1/19/2018			19:23	19:23		1:25	1/20/2018			s	n		USBL constantly in operation, never switched off	
USBL	EDT HERCULES	1/20/2018			2:49	2:49		2:41	1/22/2018			s	d		USBL constantly in operation, never switched off	