

Ms Esther Villoria
Aberdeen Offshore Wind Farm
3rd Floor, The Tun Building
4 Jackson's Entry
Holyrood Road
Edinburgh
EH8 8PJ

Our Ref: 018/OW/AOWFL - 9

6th February 2018

Dear Ms Villoria,

MARINE (SCOTLAND) ACT 2010, PART 4 MARINE LICENSING

Condition 3.1.6 Chemical Usage

Thank you for your correspondence dated 19th January 2018 requesting that Marine Scotland Licensing Operations Team ("MS-LOT") confirms Aberdeen Offshore Windfarm Limited's ("AOWFL's) compliance with condition 3.1.6, '*Chemical Usage*', of the Marine Licence for the European Offshore Wind Deployment Centre ("EOWDC") (Licence Number: 04309/18/0).

You have provided details of the chemical RX-9022 Fluorescent Dye which is proposed to be used once all foundations have been installed. The Offshore Chemicals Notification Scheme ("OCNS") [list of chemicals] has ranked RX-9022 Fluorescent Dye Hazard Quotient ("HQ") at 'gold'. An HQ of Gold and Silver are products with the lowest potential environments hazard.

In your correspondence, you have also requested that the list of chemicals used within the Suction Pump for the Foundation works to be included within (Annex 1). In your email of 2nd October 2017, you confirmed that the chemicals will be used in a closed system. Further to our letter of 21st December 2017, MS-LOT, on behalf of the Scottish Ministers, confirm that the list of chemicals submitted to be used within the Suction Pump for foundation works are exempt from the requirement of being in the List of Notified Chemicals assessed for use by the offshore Oil & Gas industry under the Offshore Chemicals Regulations 2002. Thus, Annex 1 has been now updated to include these chemicals.

Having assessed the chemicals forwarded (Annex 1) and taking into account the information as detailed above, MS-LOT on behalf of the Scottish Ministers, can approve the use of RX-9022 Fluorescent Dye and the details of the chemicals used within the Suction Pump can also confirm that this notification is sufficient to confirm that AOWFL is in compliance with condition 3.1.6, '*Chemical Usage*', of the Marine Licence for EOWDC (Licence Number: 04309/18/0).

Yours sincerely,

Jessica Drew
Marine Scotland Licensing Operations Team

Marine Laboratory, 375 Victoria Road,
Aberdeen AB11 9DB
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Annex 1

Chemicals to be used during the trenchformer and cable installation works.

Name of Chemicals	Function	Estimated quantity of product to be used (l)	Where used	Closed system Y/N
Mobil EAL 46	Hydraulic fluid	500 l	Trenchformer vehicle	Y
Mobilgear 600 XP 150	Gear oil	20 l	Trenchformer vehicle	Y
Zitrec FC	Antifreeze / coolant	125 l	Trenchformer vehicle	Y

Chemicals to be used during the foundation works.

Name of Chemicals	Function	Estimated quantity of product to be used	Where used	Closed system Y/N
Silicone 71	Lubricant	4400ml	Suction Pump	Y
WD-40	Lubricant	1800ml	Suction Pump	Y
Ultra Clean	Degreaser	1000ml	Suction Pump	Y
Chetra N.A.S.	Lubricant	900ml	Suction Pump	Y
White Spirit	Solvent	400ml	Suction Pump	Y
Molykote C111 Compound	Lubricant	400ml	Suction Pump	Y
Loctite® 243 Threadlocker Medium Strength	Sealant	310ml	Suction Pump	Y
Loctite® 542	Sealant	560ml	Suction Pump	Y
Bechem Hydrostar HEP 46 EEL	Hydraulic oil	120L	Suction Pump	Y
Cepsa Mistral 46 oil	Hydraulics	250 ltr.	EDT Hercules Offshore Crane	Y
Mobilus EP2 grease	Lubrication	5 kg.	EDT Hercules Offshore Crane	Y
Texaco Texclad 2	Lubrication	5 kg.	EDT Hercules Offshore Crane	Y
Seaocean Bio Rope Guard	Lubrication	30 ltr.	EDT Hercules Offshore Crane	Y
Interbond 201 (Part A)	Paint and anti-corrosion	20	Corrosion protection: outside	N
Interbond 201 (Part B)	Paint and anti-corrosion	20	Corrosion protection: outside	N
Interthane 990 (Part A)	Paint and anti-corrosion	10	Corrosion protection: outside	N
Interthane 990 (Part B)	Paint and anti-corrosion	10	Corrosion protection: outside	N
Interzinc 553 Grey	Paint and anti-	48 Ltrs	Corrosion	N

Green	corrosion		protection: bolt holes interface flange	
INTERSEAL 670 HS (part A)	Paint and anti-corrosion	120 Ltrs	Corrosion protection: repair galvanised parts	N
INTERSEAL 670 HS (part B)	Paint and anti-corrosion	22 Ltrs	Corrosion protection: repair galvanised parts	N
Intergard 405 red (part A)	Paint and anti-corrosion	120 Ltrs	Corrosion protection: sealer coat	N
Intergard 405 Red (part B)	Paint and anti-corrosion	120 Ltrs	Corrosion protection: sealer coat	N
Interthane 990 Aerosol	Paint and anti-corrosion	60 Ltrs	Corrosion protection: markings	N
Interzone 954 (Part A)	Paint and anti-corrosion	160 Ltrs	Corrosion protection: outside	N
Interzone 954 (Part B)	Paint and anti-corrosion	40 Ltrs	Corrosion protection: outside	N
Bio Hydraulic Oil	Hydraulic fluid	100 L	Hydraulic system	Y
GB Unibio EP1	Lubricant	2 kg	General application to moving parts	Y

Name of Chemicals	Function	Estimated quantity of product to be used	Where used	OCNS group/HQ
Grout cement (Portland cement)	Grouting Material	484 000 KG / 1263.17m3	Grouting Mixing System	E/None (Non-Charmable)
Sodium Silicate	Grouting Material	193 000 KG	Grouting Mixing System	E/None (Non-Charmable)