

Lees E (Emma)

From: Wells Andy <Andrew.Wells@caa.co.uk>
Sent: 19 March 2020 17:25
To: MS Marine Renewables
Cc: Wilson J (Jessica)
Subject: RE: Seagreen Alpha & Bravo Offshore Wind Farms - Lighting and Marking Plan - Consultation

Dear Emma,

Thank you for sight of the Seagreen Alpha & Bravo Offshore Wind Farms LMP. We are content that it meets the CAA's regulatory requirements for lighting and marking.

Kind regards

Andy

Andy Wells

Policy Lead CNS and Spectrum
Future Safety
Civil Aviation Authority

Tel: 0330 138 3166
Mob: 07786 171876

Follow us on Twitter: [@UK_CAA](https://twitter.com/UK_CAA)

Please consider the environment. Think before printing this email.



[Redacted]

Wright H (Hamish)

From: Squires, Jean <jsquires@eastlothian.gov.uk>
Sent: 24 April 2020 14:30
To: MS Marine Renewables
Cc: Lees E (Emma)
Subject: FW: Seagreen Alpha & Bravo Offshore Wind Farms - Lighting and Marking Plan - Consultation
Attachments: Lighting and Marking Plan.pdf

Dear Marine Scotland,

I apologise for the late sending of our comments.

Previously we commented that lighting of the nature proposed is different to the transitory nature of passing ships or the clustered effect of settlement street lighting. The SLVIA notes that lighting of structures at this distance from the coast and at the level proposed is not anticipated to be visible for land-based receptors, however we questioned this. We also asked that any approval be so conditioned that the lighting is kept to the minimum and its visibility from East Lothian reviewed once constructed.

We further requested that a condition be placed on any granted application for lighting to be monitored and should visibility be apparent from East Lothian that this be addressed and reduced where possible with the replacement of lighting as new systems/methods become available during the life of the windfarm. We asked that a maximum as well as a minimum lighting requirement be included within the condition and the condition include the requirement for dimming when visibility is greater than 5km.

We note that a condition was placed on consent requiring the production of a Lighting and Marking Plan (LMP) now submitted.

Figure 3.2 of the LMP indicates the operational lighting plan and table 3.1 includes the lighting specification. There are 30 no. peripheral turbines with visible 2000 candela aviation lighting. This will be flashing.

Visibility meters will be fitted to eight peripheral turbines to detect when visibility is greater than 5km and then the lighting will be automatically reduce to 10% intensity. If any visibility meter detects visibility less than 5km all lighting will increase to 2000 candela.

The Council welcomes and supports the inclusion of automatic reduction of aviation lighting to 200 candela when conditions permit, which, along with the distance of the wind farm to East Lothian, will reduce or perhaps avoid impacts on this area. As one visibility detector can trigger all the lights, the lighting will therefore be at 2000 candela whenever the visibility is reduced at any one visibility detector. We would ask how often this situation is likely to occur; i.e. that the lights are at full brightness when they are not themselves in conditions of poor visibility. No information appears to have been submitted about this. For example, - and we don't have expertise on meteorological conditions at sea at all – if there is one patch that is consistently foggy, it would trigger all the lights to be on most of the time. If that is the case, would it be possible to light that section separately, so reducing impacts of the lighting onshore?

The Council would also request that should the lights be visible from East Lothian, the Lighting and Marking Plan includes provision for a periodic review. We understand that lighting is required currently at 2000 candela, with a reduction to 200 candela when conditions permit. However, it may be that during the life of the consent, the legislative or technological situation could change and allow for but not require reduced lighting. If so, it would be preferable (if lights are visible from East Lothian) for lighting to be reduced. Provision for periodic review of lighting requirements, and provision for the lighting to be altered if (a) there is an impact from it as installed and (b) it becomes possible under CAA requirements, should therefore be included in the LMP.

Blades are to be marked with blade hover marks as per figure 3.3. Given the distance of the wind farm from East Lothian these marks are unlikely to be visible or have an impact on the visibility of the wind turbines from East Lothian.

Regards,

Jean Squires

Planner, Policy and Projects (Monday – Thursday)

East Lothian Council, John Muir House, Haddington, EH41 3HA

Direct dial: 01620 827370

Email: jsquires@eastlothian.gov.uk

Website: www.eastlothian.gov.uk/localplan



Lees E (Emma)

From: Martin Mcgroarty <Martin.McGroarty@fife.gov.uk>
Sent: 06 April 2020 07:08
To: MS Marine Renewables
Subject: 20/00756/CON - Seagreen A & B OWF - Lighting and Marking Plan

Good morning,

ELECTRICITY ACT 1989

The Electricity Works (Environmental Impact Assessment) (Scotland) Regulations 2017 (as amended)

MARINE (SCOTLAND) ACT 2010 & MARINE AND COASTAL ACCESS ACT 2009, PART 4 MARINE LICENSING

The Marine Works (Environmental Impact Assessment) (Scotland) Regulations 2017 (as amended)

The Marine Works (Environmental Impact Assessment) Regulations 2007 (as amended)

I refer to the above consultation and can confirm that, having examined the Lighting and Marking plan for the proposed development, Fife Council has no comment to make on the L&MP.

Kind regards,
Martin

Martin McGroarty,

Lead Professional (Minerals)

Economy, Planning & Employability Services, Fife Council, Fife House, North Street, GLENROTHES, Fife. KY7 5LT

03451 55 11 22 development.central@fife.gov.uk



This email and any files transmitted with it are confidential and intended solely for the use of the individual or entity to whom they are addressed and should not be disclosed to any other party.

If you have received this email in error please notify your system manager and the sender of this message.

This email message has been swept for the presence of computer viruses but no guarantee is given that this e-mail message and any attachments are free from viruses.

Fife Council reserves the right to monitor the content of all incoming and outgoing email.

Information on how we use and look after your personal data can be found within the Council's privacy notice: www.fife.gov.uk/privacy

Fife Council

This email has been scanned by the Symantec Email Security.cloud service.
For more information please visit <http://www.symanteccloud.com>

Lees E (Emma)

From: Nick Salter <Nick.Salter@mcga.gov.uk>
Sent: 03 April 2020 09:16
To: MS Marine Renewables
Cc: Helen Croxson
Subject: RE: Seagreen Alpha & Bravo Offshore Wind Farms - Lighting and Marking Plan - Consultation

Dear Emma,

I can confirm MCA is content with the Seagreen Alpha & Bravo OWF LMP, provided the NLB is also content.

Best regards,

Nick



**Maritime &
Coastguard
Agency**

Nick Salter

Navigation Safety Advisor | Navigation Safety Branch
Maritime & Coastguard Agency | c/o Falmouth Marine Office
Pendennis Point | Castle Drive | Falmouth | Cornwall | TR11 4WZ
Tel: +44 (0)20 3817 2554 | Mob: +44 (0)7766 922630
Email: nick.salter@mcga.gov.uk

Safer Lives, Safer Ships, Cleaner Seas

[Redacted]



Defence
Infrastructure
Organisation

Jill Roberts
Assistant Safeguarding Manager
Ministry of Defence
Safeguarding – Wind Energy
Kingston Road
Sutton Coldfield
West Midlands B75 7RL
United Kingdom

Telephone [MOD]: 072905 6607

E-mail: Jillian.roberts156@mod.gov.uk

Emma Lees
Scottish Government
Marine Laboratory
375 Victoria Road
Aberdeen AB11 9DB

16 April 2020

Dear Emma

Please quote in any correspondence: DIO16093

Site Name: Seagreen Alpha & Bravo Offshore Wind Farm

Proposal: Lighting & Marking Plan

Thank you for consulting the Ministry of Defence (MOD) on the proposed Lighting and Marking Plan Scheme in relation to the above application.

I can confirm that the proposed lighting plan meets the laid down requirement of the MOD and CAA ANO, therefore, the MOD has no objection.

I trust this is clear however, should you have any questions please do not hesitate to contact me

Yours sincerely
[Redacted]

Jill Roberts
Assistant Safeguarding Manager
Defence Infrastructure Organisation

Northern Lighthouse Board

Your Ref: Seagreen A&B – LMP – Consultation
Our Ref: AL/OPS/ML/O6_02_642

84 George Street
Edinburgh EH2 3DA
Switchboard: 0131 473 3100
Fax: 0131 220 2093
Website: www.nlb.org.uk
Email: enquiries@nlb.org.uk



Ms Emma Lees
Marine Licensing Casework Officer
Marine Scotland – Marine Planning and Policy
Marine Laboratory
375 Victoria Road
Aberdeen
AB11 9DB

23 March 2020

Dear Emma,

ELECTRICITY ACT 1989

The Electricity Works (Environmental Impact Assessment) (Scotland) Regulations 2017 (as amended)

MARINE (SCOTLAND) ACT 2010 & MARINE AND COASTAL ACCESS ACT 2009, PART 4 MARINE LICENSING

The Marine Works (Environmental Impact Assessment) (Scotland) Regulations 2017 (as amended)

The Marine Works (Environmental Impact Assessment) Regulations 2007 (as amended)

Thank you for your e-mail correspondence dated 19th March 2020 regarding the submission by Seagreen Wind Energy Ltd of the Lighting and Marking Plan (LMP) Seagreen A&B Offshore Wind Farms, in accordance with Condition 19 of the Section S36 Consent, and Condition 3.2.2.14 of the OTA Marine Licence (04678/19), granted by Marine Scotland.

NLB have reviewed the Seagreen A&B Lighting and Marking Plan and are satisfied that it meets all of the requirements of the S36 Consent and Marine Licenses. However, NLB recommend the following amendments be made:

- NLB are added to the list for promulgation of information in paragraph 4.2
- Paragraph 4.3.1 be amended to read:
 - “During the construction phase, all structures regardless of construction status may be marked with temporary Yellow 2.5 seconds (Fl. Y. 2.5s) lights (visible through 360°) with a 2nm range. It is likely that two lights per structure will be used to ensure 360° visibility”.
 - Whilst NLB are content for these lights to be displayed, they are not a lighting and marking requirement of the NLB.

Ms Emma Lees

For the safety of all

Certified to: ISO 9001:2000 · The International Safety Management Code (ISM) · OHSAS 18001

Seagreen A&B – LMP
P2

If clarification is required on any of the proposed amendments, please do not hesitate to get in contact with the Navigation department.

Yours sincerely
[Redacted]

Peter Douglas
Navigation Manager

Privacy Statement

NLB take seriously the protection of your privacy and confidentiality, and understand that you are entitled to know that your personal data will not be used for any purpose unintended by you. In line with our document retention schedules, copies of this correspondence will be retained on our live internal system in line with our legislative requirements and obligations, before being archived as required for conformance with our data Protection Policy and the associated Data Retention Schedules. Archived copies may be retained indefinitely in the public interest. Our Privacy Notice can be accessed via the following link: <https://www.nlb.org.uk/legal-notice/>

Lees E (Emma)

From: Karen Taylor <Karen.Taylor@nature.scot>
Sent: 06 April 2020 16:56
To: MS Marine Renewables
Cc: Wilson J (Jessica); MARINEENERGY
Subject: RE: Seagreen Alpha & Bravo Offshore Wind Farm - Offshore Transmission Asset Development Specification Layout Plan - Consultation
Attachments: Seagreen Alpha & Bravo Offshore Wind Farms - Offshore Wind Farm Development Specification Layout Plan - Consultation; Seagreen Alpha & Bravo Offshore Wind Farms - Lighting and Marking Plan - Consultation

Dear Emma,

We have received your request for our advice for three post consent plans (as per emails below and attached) which have been submitted by Seagreen Wind Energy Limited (Seagreen), these comprise of:

- Offshore Transmission Asset (OTA) Development Specification and Layout Plan (DSLPL) (document reference: LF000009-CST-OF-PLN-0005 Rev 02) in order to satisfy condition 3.2.2.6 of the OTA marine licence;
- Offshore Wind Farm Development Specification Layout Plan (DSLPL) (document reference: LF000009-CST-OF-PLN-0004 Rev 01) submitted to satisfy condition 12 of the Section 36 consents (as varied);
- Lighting and Marking Plan (LMP) (document reference: LF000009-CST-OF-PLN-0010 Rev 01) in order to satisfy condition 19 of the Section 36 consents and condition 3.2.2.14 of the OTA marine licence.

We have reviewed all three documents which are clear, easy to follow and well laid out, we therefore consider them to be fit for purpose.

With Best Wishes,
Karen

****Please note I am working from home as a result of the covid-19 pandemic - my office phone has been diverted to my work mobile. I have access to emails and can attend virtual meetings. I'm mostly working my usual days****

Karen Taylor | Marine Sustainability Adviser

Scottish Natural Heritage | 1 Kilmory Industrial Estate | Kilmory | Lochgilphead | Argyll | PA31 8RR | t: 0131 316 2693
m:07717 527 218

Dualchas Nàdair na h-Alba | 1 Raon Gnìomhachais Chille Mhoire | Cille Mhoire | Ceann Loch Gilb | Earra-Ghàidheal | PA31 8RR

nature.scot – *Connecting People and Nature in Scotland* – [@nature_scot](https://twitter.com/nature_scot)

Please note that I work part-time: Monday, Tuesday and Thursday. If you need an immediate response outwith these days please forward to: marineenergy@nature.scot

[Redacted]