Northern Lighthouse Board

CAPTAIN PHILLIP DAY DIRECTOR OF MARINE OPERATIONS

84 George Street Edinburgh EH2 3DA

Switchboard: 0131 473 3100 Fax: 0131 220 2093

LF00005-LET-230 BOWL Beatrice DSLP Website: www.nlb.org.uk Your Ref: Email: enquiries@nlb.org.uk

Our Ref: AJ/OPS/ML/O6 01 281

Ms Jessica Drew Marine Licensing Casework Officer Marine Scotland - Marine Planning and Policy Division Scottish Government Marine Laboratory 375 Victoria Road Aberdeen **AB11 9DB**

20 October 2015

Dear Jessica,

BOWL - BEATRICE DEVELOPMENT SPECIFICATION AND LAYOUT PLAN

Thank you for your correspondence dated 15 September 2015 regarding the submission of the Development Specification and Layout Plan by Beatrice Offshore Windfarm Limited relating to the intention to install and operate wind turbines, offshore sub-stations and the associated electrical interconnecting and export cables at their wind farm site in the outer Moray Firth.

Northern Lighthouse Board are content with the proposed Development Specification and Layout Plan.

On receipt of BOWL's Navigational Safety Plan and Marking and Lighting Plan, these will be assessed against the requirements for marking and lighting of the site and its infrastructure, as defined in our in our letter dated 11 May 2012 (Ref: O6-01-120A).

Please advise if we can be of any further assistance.



Dinsdale R (Rosanne)

From: Nick Salter < Nick.Salter@mcga.gov.uk>

Sent: 12 October 2015 11:57 **To:** Ford A (Alexander)

Cc: Smith P (Paul); Bain N (Nicola) (MARLAB); Aires C (Catarina); Drew J (Jessica);

Jonathan Wilson

Subject: RE: 150915 - Consultation on BOWL's Post Consent Development Specification and

Layout Plan for the Wind Farm - MS LOT to Consultees

Attachments: LF0000005-PLN-152 Beatrice DSLP Rev01_NS_Comments 12.5.15.pdf

Dear Ali,

Thanks for your below email. I am content with the DSLP however I do have one query regarding para 4.2.22 and a "2.5km exclusion zone around the 'Jacky' platform" and I'd be grateful if I could have some further information on what this will entail.

Regards

Nick

Nick Salter Offshore Renewables Advisor Navigation Safety Branch Maritime and Coastguard Agency

Tel: 023 8032 9448 Mob:

Email: nick.salter@mcga.gov.uk

From: Alexander.Ford@gov.scot [mailto:Alexander.Ford@gov.scot]

Sent: 15 September 2015 12:51

To: navigationsafety; Nick Salter; navigation@nlb.org.uk; ArchieJ@nlb.org.uk;

RNevinson@ukchamberofshipping.com; karen.hall@jncc.gov.uk; Enrique.Pardo@jncc.gov.uk;

jnccadvice@jncc.gov.uk; Erica.Knott@snh.gov.uk; catriona.gall@snh.gov.uk; marineenergy@snh.gov.uk;

renewables@sff.co.uk; m.morrison@sff.co.uk; amundin@ukchamberofshipping.com

Cc: Paul.Smith@gov.scot; Nicola.Bain@gov.scot; Catarina.Aires@gov.scot

Subject: 150915 - Consultation on BOWL's Post Consent Development Specification and Layout Plan for the Wind

Farm - MS LOT to Consultees

Dear Sir/Madam.

Following my emails on 11th June and 11th August, please find attached a proposed 'Development Specification and Layout Plan' (for the wind farm) ("DSLP (OfWF)") (Revision 1 issued 10/09/2015) post-consent plan and covering letter addressed to MS-LOT from Beatrice Offshore Windfarm Limited ("BOWL").

The purpose of the DSLP (OfWF) is to attempt to satisfy the requirement of condition 13 of the Beatrice Offshore Wind Farm section 36 consent awarded to BOWL in March 2014; and part of condition 3.2.2.6 of the associated BOWL Offshore Transmission Works (OfTW) marine licence issued in September 2014, as it relates to the offshore transformer modules.

(http://www.gov.scot/Topics/marine/Licensing/marine/scoping/Beatrice).

The conditions state that the plan is to be submitted to the Scottish Ministers for their written approval; following a consultation with MCA, NLB, CoS, the JNCC, SNH, SFF and any such other advisors as may be required at the discretion of the Scottish Ministers. MS LOT hereby asks each stakeholder to review the attached plan in order to determine whether it is fit for purpose for the Scottish Ministers to give it their written approval.

Please can each stakeholder review the plan by the **19**th **October 2015**. MS-LOT welcomes any comments each stakeholder may have. If you wish to submit comments, please reply to ms.marinelicensing@scotland.gsi.gov.uk

Kind regards Ali

Alexander Ford

Marine Licensing Casework Officer

Marine Scotland – Marine Planning & Policy Division

Scotling Covernment Marine Laboratory 375 Victoria

Scottish Government, Marine Laboratory, 375 Victoria Road, Aberdeen, AB11 9DB Tel: +44 (0)1224 295414

S/B: +44 (0)1224 876544 Fax: +44 (0)1224 295524 e. alexander.ford@gov.scot

w: http://www.gov.scot/marinescotland

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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.

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T: +44 (0)1224 876544 F: +44 (0)1224 295511 MS Renewables@scotland.gsi.gov.uk.



Alan Kier Licensing Operations Team Marine Scotland 375 Victoria Road Aberdeen AB11 9DB



003-0W-BOWL-8

SSE RENEWABLES: BEATRICE, MORAY FIRTH - DSLP - MARINE SCOTLAND SCIENCE COMMENTS

Marine Scotland Science (MSS) has reviewed the submitted document and has provided the following comments.

ornithology

MSS has no comments on ornithology.

diadromous fish

MSS has no comments on diadromous fish.

commercial fisheries

MSS has reviewed the Beatrice Development Specification and Layout Plan. Section 4.2.6 described the spacing between wind turbines. In most cases, (82 out of 84) turbines are spaced at a distance of approx. 1,170 m apart in all directions. This accommodates 50m micro-siting of wind turbines (or OTM structures) while maintaining the commercial fishing industry recommended minimum 1 km distance with adjacent structures. However, MSS note that in the case of two of the turbine locations, this will not be the case (B-D3: 945.5m to nearest turbine; and B-E1: 1065.5m to nearest turbine). We do not expect this to be a risk to navigational safety, but raise this as an issue that MS-LOT may wish to be aware of, particularly in respect of fishing operations.

aquaculture

There are no further comments to add to those made on 18 August in response to the consultation request on the SSE Renewables: Beatrice, Moray Firth - Environmental Management Plan, Construction Programme and Method Statement.

benthic ecology

MSS has no comments on benthic ecology

marine mammals

MSS has no comments on marine mammals

fish ecology

MSS has no comments on fish ecology.







Hopefully these comments are helpful to you. If you wish to discuss any matters further contact the MSS Renewables in-box MS_Renewables@scotland.gsi.gov.uk.

Yours sincerely



Paul Stainer

Marine Scotland Science 19 October 2015









Our Ref: MM/fl: 15-130

Your Ref:

6th October 2010

email: ms.marinelicensing@scotland.gsi.gov.uk

Marine Scotland Licencing Operations Team Marine Laboratory 375 Victoria Road Aberdeen AB11 9DB Scottish Fishermen's Federation 24 Rubislaw Terrace Aberdeen, AB10 1XE Scotland UK

T: +44 (0) 1224 646944 F: +44 (0) 1224 647058

E: sff@sff.co.uk

www.sff.co.uk

Dear Sirs

LF00005-LET-230 BOWL Development Specification & Layout Plan

The Scottish Fishermen's Federation, on behalf of its members, the Anglo-Scottish Fishermen's Association, the Clyde Fishermen's Association, the Fishing Vessel Agents & Owners Association (Scotland) Limited, the Mallaig and North-West Fishermen's Association Ltd, the Orkney Fishermen's Association, Scallop Association, the Scottish Pelagic Fishermen's Association Ltd, the Scottish Whitefish Producers' Association Ltd and the Shetland Fishermen's Association who represent over 500 fishing industry businesses across Scotland is pleased to have the opportunity to respond to this Consultation.

While recognising that the potential footprint of the Beatrice windfarm development has now come down to 84 turbines as opposed to 277 the SFF notes that the planned layout was developed solely by the applicants with little input from the Commercial Fisheries Working Group (CFWG) or any part of the catching sector and thus will inevitably preclude some forms of fishing from within the boundary. This exclusion will need to be addressed in the Commercial Fisheries mitigation strategy.

Regarding Wind turbine Spacing, the SFF would note that para 4.2.5 can only refer to surface navigation and therefore it is not applicable to bottom fishing with towed gears, not does any other statement in the DSLP address this. SFF therefore awaits the outcome of the work in the CFWG attempting to mitigate the impacts of the Turbine placings.

Noting the various Figures delineating the inter-array cabling and Table 4.4 defining the links, referring to para 4.7.5, the SFF would still expect burial to be the minimum target and discussions with industry as to the best method of any further protection.

If all these points are addressed in the CF mitigation strategy the SFF will not object to the DSLP consent.

Yours faithfully



Bertie Armstrong
Chief Executive
Scottish Fishermen's Federation





CNS REN OSWF Beatrice

16 October 2015

All of nature for all of Scotland Nàdar air fad airson Alba air fad

Marine Scotland
Licensing Operations Team
PO Box 101
375 Victoria Road
Aberdeen
AB11 9DB

For the attention of: Nicola Bain

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BEATRICE OFFSHORE WIND FARM SNH & JNCC COMMENTS ON THE DEVELOPMENT SPECIFICATION & LAYOUT PLAN

Thank you for providing us with a copy of BOWL's Development Specification and Layout Plan (DSLP) for consultation. We have relatively few comments to make on this plan, however, please note that we are unable to provide advice on landscape and visual interests at this time. This is because the design statement is not yet available for comment and it is this document which should explain how landscape and visual impacts have been accounted for (alongside other key constraints) and mitigated as far as possible in finalising the wind farm layout.

In future, **we recommend** that MS-LOT requests the design statements for offshore wind farms to be submitted alongside the specification and layout plans.

Landscape and Visual Interests

It is noted in Section 1.4 and Table 1.3 (pages 11-12) that the design statement is a relevant consent plan in relation to the DSLP, however, there is no reference to the purpose and scope of design statements either here or elsewhere in the document. We recommend that the DSLP acknowledges the importance of landscape and visual interests (as raised in Appendix E of the SNH & JNCC response of 8 July 2013) and indicates that the design statement will address these issues and explain how they've been accounted for in finalising the wind farm layout.

In this regard, there are various publications that give further advice on the development and use of design statements:

- Siting and designing wind farms in the landscape version 2 (SNH, 2014)
 http://www.snh.org.uk/pdfs/strategy/renewables/Guidance Siting Designing wind farms.pdf
 - While this guidance primarily relates to onshore wind farms, there are some elements that are helpful when considering offshore development. Paragraphs 5.8 and 5.9 (page 33) provide further advice on the purpose and scope of design statements.
- PAN 68 Design statements http://www.gov.scot/Publications/2003/08/18013/25389

 Offshore Renewables: Guidance on assessing the impact on coastal landscape and seascape, guidance for scoping an Environmental Statement. (SNH, 2012) http://www.snh.gov.uk/docs/A702206.pdf

This guidance includes advice on layout and design of marine renewables developments in Section 5. Please see paragraphs 5.1 - 5.7 (p26-28) for advice relating to offshore wind.

Other Relevant Conditions

Alongside the relevant consent plans discussed in the DSLP, we note that it is relevant to consider condition 5 of the Section 36 consent as this relates to the wind turbine specifications. We think it would be helpful to make reference to the discussions that have taken place between MS-LOT and BOWL over turbine selection (see MS-LOT letter dated 22 July 2014), including the collision risk modelling undertaken in support of the final choice of turbine (the Siemens SWT-7.0-154).

Plan Iteration

We consider that BOWL have clearly laid out the arrangements for any required plan iteration – see Section 3 and Figure 3.1 (p14-15). We do not anticipate that there would be significant involvement from SNH or JNCC in this regard, but we have agreed with MS-LOT that they will seek our advice where relevant.

Benthic Interests

In Section 4, under the discussion of key constraints (paragraphs 4.2.21 and 4.2.22), we think it would be helpful to clarify that there have been no key benthic interests recorded on-site that would need to be accounted for in the wind farm layout. In this regard, we recommend that reference is made to the results of the pre-construction sand eel survey that has been carried out and accepted by MS-LOT as a valid baseline (report dated March 2014, letter from MS-LOT dated 24 April 2015).

We would welcome clarification over any discussions that have taken place between MS-LOT and BOWL regarding micro-siting allowances (paragraph 4.2.7).

Constraints Mapping (Figure 4.4)

Paragraphs 4.2.21 notes the single plugged and abandoned wellhead that lies within the proposed turbine array (and is shown on Figure 4.4). We recommend that the two further wellheads which lie within the exclusion area around the Jacky platform are also represented on Figure 4.4. If any further information is needed in this regard, it is available here:

https://www.gov.uk/guidance/oil-and-gas-offshore-maps-and-gis-shapefiles

We also think it would be helpful to improve the labelling relating to the archaeological interests discussed in paragraph 4.2.21 (and to which we think the red "HA" lettering refers).

Cable Protection

It remains unclear whether or not any protection will be required in respect of the intra-array cables. In contrast to the Environmental Management Plan (please see our response of 28 August 2015), paragraph 4.7.5 of the DSLP indicates that cable protection is likely to be needed if target burial depths cannot be achieved. We note that this matter is due to be addressed in more detail in the cable plan so we will provide any required advice once this plan is submitted.

Further Advice

Please contact me at catriona.gall@snh.gov.uk for any queries in relation to this advice, excepting in relation to oil & gas where JNCC should be contacted in the first instance: enrique.pardo@jncc.gov.uk

As noted, SNH will be able to provide advice on landscape and visual interests in respect of the proposed layout once the design statement and accompanying visualisations are submitted for consultation. If time allows, we would welcome a meeting with BOWL to discuss these matters (as we suggested in our response to the initial viewpoint consultation, 11 December 2014).

Yours sincerely,

Catriona Gall

Marine Renewables Casework Adviser (Offshore Wind) SNH Policy & Advice

cc. Enrique Pardo, JNCC

Dinsdale R (Rosanne)

From: Drew J (Jessica)

Sent: 13 October 2015 10:47

To: 'Adrian Mundin'

Subject: RE: ONE WEEK BEFORE REMINDER BOWL - Post Consent Development

Specification and Layout Plan for the Wind Farm

Many thanks Adrian

Kind regards

Jessica

From: Adrian Mundin [mailto:AMundin@ukchamberofshipping.com]

Sent: 12 October 2015 16:13

To: Drew J (Jessica)

Subject: RE: ONE WEEK BEFORE REMINDER BOWL - Post Consent Development Specification and Layout Plan for

the Wind Farm

Dear Jessica, thank you for the email. I have no further comments thanks.

best regards Adrian

Adrian J Mundin MVO

Policy Manager

UK Chamber of Shipping

30 Park Street, London, SE1 9EQ

DD +44 (0) 20 7417 2828

M

amundin@ukchamberofshipping.com www.ukchamberofshipping.com

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From: Jessica.Drew@gov.scot [mailto:Jessica.Drew@gov.scot]

Sent: 12 October 2015 09:44

To: Adrian Mundin

Subject: FW: ONE WEEK BEFORE REMINDER BOWL - Post Consent Development Specification and Layout Plan for

the Wind Farm

Good morning

Please find below a reminder email sent to all consultees regarding BOWL's DSLP.

As you see the original email has been sent to your former colleague Richard Nevinson. Further to the below email, if you have not forwarded any comments, I would be grateful if you would by the 19th October 2015.

Many thanks

Jessica Drew
Marine Licensing Casework Officer
Marine Scotland – Marine Planning & Policy Division
Scottish Government, Marine Laboratory, 375 Victoria Road, Aberdeen, AB11 9DB

S/B: +44 (0)1224 876544 Fax: +44 (0)1224 295524 e. jessica.drew@gov.scot

w: http://www.gov.scot/marinescotland

From: Drew J (Jessica)
Sent: 12 October 2015 09:36

To: 'navigationsafety@mcga.gov.uk'; 'nick.salter@mcga.gov.uk'; 'navigation'; 'Archie Johnstone'; 'Richard Nevinson'; 'karen.hall@jncc.gov.uk'; 'Enrique Pardo'; 'jnccadvice@jncc.gov.uk'; 'Erica Knott'; 'catriona.gall@snh.gov.uk'; 'marineenergy@snh.gov.uk'; 'renewables@sff.co.uk'; 'm.morrison@sff.co.uk'; 'amundin@ukchamberofshipping.com' **Cc:** Bain N (Nicola) (MARLAB); Aires C (Catarina)

Subject: ONE WEEK BEFORE REMINDER BOWL - Post Consent Development Specification and Layout Plan for the Wind Farm

Dear All,

ONE WEEK BEFORE REMINDER

Further to my colleague Alex Ford's previous correspondence, please find attached the consultation email for the BOWL DSLP for the wind farm and the DSLP Plan documents.

I would be grateful if you forward any comments on the DSLP by the deadline of 19th October. If you have no comments to make please submit a "nil return" response.

Many thanks,

Jessica Drew
Marine Licensing Casework Officer
Marine Scotland – Marine Planning & Policy Division
Scottish Government, Marine Laboratory, 375 Victoria Road, Aberdeen, AB11 9DB

S/B: +44 (0)1224 876544 Fax: +44 (0)1224 295524 e. jessica.drew@gov.scot

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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.

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