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Sent: 08 February 2019 21:12

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Cc: Andrew Guyton <ANGUY@orsted.co.uk>; Stuart Livesey <STLIV@orsted.co.uk>

Subject: Hornsea Project Three (UK) Ltd response to Deadline 6 (Part 5)

Dear Kay, K-J

Please find attached the 5th instalment of documents.

Best regards,

Dr Dominika Chalder PIEMA

Environment and Consent Manager

[REDACTED]

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Appendix 13 to Deadline 6 submission –
Ornithology roadmap with Natural England for the examination
phase (ver.C)

Date: 8th February 2019

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Date	Version	Status	Description / Changes
14/012/2018	A	Final	Submitted at Deadline 3 (14 th Dec 2018) – REP3-025
23/01/2019	B	Final	Submitted at Deadline 5 (23 rd Jan 2019) – REP5-020
08/02/2019	C	Final	Submitted at Deadline 6 (8 th Feb 2019)

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High level Ornithology Roadmap

ExA Deadline 3 (14/12/2018)

1. Ornithological roadmap
2. Age class data from aerial surveys
3. Papers requested by the Examining Authority

Deadline 4 (15/01/2019)

1. Alternative baseline (use of upper confidence metrics)
2. Presentation of CRM using the following:
 - Alternative baseline
 - NE's seasonal definitions
 - NE's apportioning values
 - NE's nocturnal activity factors

Deadline 5 (23/01/2019)

Meeting with NE to discuss following D4 submission

1. Clarifications in relation to HRA screening
2. Updated PVA using outputs from D4
3. Migratory species clarification
4. OSPAR lighting clarification
5. Immature apportioning
6. Submissions in relation to statistical queries raised by the ExA.

ISH5

Deadline 6 (08/02/2019)

1. Responses to questions at ISH2
2. Responses to queries raised at Deadline 5
3. Any other clarifications required following submissions at D3, 4 and 5.
4. Additional data requested by NE.
5. Ornithology SOCG with NE.
6. Updated presentation of CRM estimates as discussed at ISH5.

Meeting with NE following D6 submission

Additional data requested by NE.

Consider if mitigation necessary in view of further NE advice / RIES.

Deadline 7 (13/03/2019)

1. Responses to queries raised at Deadline 6
2. Updated Ornithology SOCG with NE.
3. Additional data requested by NE

Deadline 3

Item	Status
<p>1. Ornithological roadmap</p> <ul style="list-style-type: none">• To include a request for confirmation of the parameters recommended by Natural England.	Completed
<p>2. Age class data from aerial surveys as requested at ISH2.</p>	Completed
<p>3. Submission of papers requested by the Examining Authority.</p> <ul style="list-style-type: none">• Band (2012) - Using a collision risk model to assess bird collision risks for offshore windfarms.• Mcgregor <i>et al.</i> (2017) - A Stochastic Collision Risk Model for Seabirds in Flight.• Parsons <i>et al.</i> (2015) - Quantifying foraging areas of little tern around its breeding colony SPA during chick-rearing.• Wilson <i>et al.</i> (2014) - Quantifying usage of the marine environment by terns <i>Sterna</i> sp. around their breeding colony SPAs	Completed

Deadline 4

Item	Status
<p>1. Alternative baseline - use of upper confidence limits (densities or population estimates) for December to March in both collision risk modelling and displacement analysis.</p>	Completed
<p>2. Calculation and presentation of collision risk estimates applying those parameters recommended by Natural England:</p> <ul style="list-style-type: none">• Nocturnal activity factors – as described in paragraph 3.13 of WR.• Density data – use of upper confidence limits for December to March.• Seasonal definitions – as described in Table 7.1 of WR.• Apportioning values – a range of apportioning values as indicated in paragraph 7.19 of WR (e.g. multiples of 10).	Completed
<p>3. Calculation of displacement mortality applying those parameters recommended by Natural England:</p> <ul style="list-style-type: none">• Population estimates – use of upper confidence limits for December to March.• Displacement/mortality rates – full matrix will be presented (10-100 for displacement and 1, 2, 5, 10-100 for mortality) with SNCB guidance on appropriate displacement and mortality rates followed.• Seasonal definitions - as described in Table 7.1 of WR.• Apportioning values - a range of apportioning values as indicated in paragraph 7.19 of WR (e.g. multiples of 10).	Completed

Meeting with NE following D4 : 21/01/2019

Item	Status
<p>1. Discussion in relation to the information submitted at Deadline 4 and to understand if the information provided is in line with the information requested by NE:</p> <ul style="list-style-type: none">• Presentation of collision risk estimates utilising Natural England's recommended parameters.• Presentation of displacement results utilising Natural England's recommended parameters.	Completed
<p>2. Seek to understand whether there's any additional information that can be submitted that may help to reach agreement on any specific topics (without prejudice to NE's position regarding 24 months baseline data).</p>	Completed
<p>3. Statement of Common Ground – discuss NE's preferences regarding format of SOCG.</p>	Completed

Deadline 5

Item	Status
1. Clarification in relation to HRA screening as requested by the ExA.	Completed
2. Submission of PVA clarifications as requested by Natural England.	Completed
3. Identification of those migratory species considered at other projects in the same migratory front.	Completed
4. Clarification into the use of OSPAR guidance in relation to the effects of lighting.	Completed
5. Application of the SNH apportioning approach for immature auks	Completed
6. Submission of clarifications in relation to those statistical questions raised by the ExA at ISH1	Completed

Deadline 6

Item	Status
1. Responses to questions at ISH5, including: <ul style="list-style-type: none">• Clarifications regarding age class data• Clarifications regarding as built scenarios and scaling.	Completed
2. Submission of papers requested by the Examining Authority.	Completed
3. Responses to queries raised at Deadline 5	Completed
4. Any other clarifications required following submissions at D3, 4 and 5	Completed
1. Provision of additional Ornithological data as request by NE at D4.	In progress – will be submitted as soon as feasible following Deadline 6.
4. Collision Risk Estimates presented as discussed at ISH 5: <ul style="list-style-type: none">• Position of the Applicant in relation to Collision Risk Modelling (D6: Appendix 28).• Position of Natural England in relation to Collision Risk Modelling (D6: Appendix 29).	Completed
5. Statement of Common Ground with Natural England on Ornithological matters.	In progress – will be submitted as soon as feasible following Deadline 6 (see Statement of Commonality)

Deadline 6 to Deadline 7

Item	Status
1. Provision of additional Ornithological data as request by NE at D4 (the Applicant is preparing this data and will provide to NE as soon as possible).	
2. Consider if mitigation necessary / feasible, in view of further NE advice / RIES.	
Meeting week of 25 th March	
1. Discuss Deadline 6 submissions including CRM estimate tables presenting both the Applicant's and Natural England's positions.	
2. Discuss updates to Statement of Common Ground with Natural England on Ornithological matters	

Deadline 7

Item	Status
1. Responses to queries raised at Deadline 6.	
2. Updated Statement of Common Ground with Natural England on Ornithological matters.	