

Hornsea Project Three
Offshore Wind Farm

Appendix 40 to Deadline 7 submission – Ornithology roadmap with Natural England for the examination phase (ver.D)

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Organisation	Ørsted Hornsea Project Three				
Author	Felicity Browner				
Checked by	Andrew Guyton				
Approved by	Andrew Guyton				
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14/12/2018	Α	Final	Submitted at Deadline 3 (14th Dec 2018) – REP3-025		
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Ørsted

5 Howick Place,

London, SW1P 1WG

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High level Ornithology Roadmap

ExA Deadline 3 (14/12/2018)

Deadline 4

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

- (15/01/2019)
 - 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)

ISH5

- Clarifications in relation to HRA
- 2. Updated PVA using outputs from D4

screening

- 3. Migratory species clarification
- 4. OSPAR lighting clarification
- 5. Immature apportioning
- 6. Submissions in relation to statistical queries raised by the ExA.

Deadline 6 (08/02/2019

ISH7

- 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.

following (did not take place)

Consider if view of further NE

Deadline 7 (13/03/2019

- Responses to queries raised at Deadline 6
- 2. Additional data requested by NE.
- 3. Information on potential mitigation options.
- Responses to questions at ISH7.
- 5. Papers requested by the Examining Authority.

High level Ornithology Roadmap

Deadline 8 (22/03/2019)

 Ornithology SOCG with Natural England.

Item	Status
 Ornithological roadmap To include a request for confirmation of the parameters recommended by Natural England. 	Completed
2. Age class data from aerial surveys as requested at ISH2.	Completed
 3. Submission of papers requested by the Examining Authority. Band (2012) - Using a collision risk model to assess bird collision risks for offshore windfarms. Mcgregor et al. (2017) - A Stochastic Collision Risk Model for Seabirds in Flight. Parsons et al. (2015) - Quantifying foraging areas of little tern around its breeding colony SPA during chick-rearing. Wilson et al. (2014) - Quantifying usage of the marine environment by terns Sterna sp. around their breeding colony SPAs 	Completed

Item	Status
1. Alternative baseline - use of upper confidence limits (densities or population estimates) for December to March in both collision risk modelling and displacement analysis.	Completed
 2. Calculation and presentation of collision risk estimates applying those parameters recommended by Natural England: 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
 3. Calculation of displacement mortality applying those parameters recommended by Natural England: 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

ltem	Status
 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: Presentation of collision risk estimates utilising Natural England's recommended parameters. Presentation of displacement results utilising Natural England's recommended parameters. 	Completed
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).	Completed
3. Statement of Common Ground – discuss NE's preferences regarding format of SOCG.	Completed

ltem	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

ltem	Status
 Responses to questions at ISH5, including: 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.	Submitted at Deadline 7 as Appendix 15.
 4. Collision Risk Estimates presented as discussed at ISH 5: 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 7 (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).	Submitted at Deadline 7 as Appendix 15.
2. Consider if mitigation necessary / feasible, in view of further NE advice / RIES.	Potential mitigation options presented at ISH 7 to ExA. Further detail sent to NE on 13.03.19 and submitted at Deadline 7 (Appendix 13 and 15). The Applicant has requested a meeting with NE to discuss.
Meeting week of 25 th February	
1. Discuss Deadline 6 submissions including CRM estimate tables presenting both the Applicant's and Natural England's positions.	NE have not yet agreed to a meeting with Ornithology specialists.
2. Discuss updates to Statement of Common Ground with Natural England on Ornithological matters	High level discussion had taken place during a weekly call with case manager but NE did not agree to a meeting with Ornithology specialists.

ltem	Status
1. Responses to queries raised at Deadline 6	Submitted at Deadline 7 in Applicant's response to Interested Parties Written Representations at Deadline 6.
2. Updated Statement of Common Ground with Natural England on Ornithological matters.	The SOCG was sent to NE to approve (04/03/2019). The Applicant hopes to be able to submit at the next deadline.
3. Responses to questions at ISH7	Complete (ISH7 Hearing Summary, Appendices 12, 13 & 15)
4. Papers requested by the Examining Authority at ISH7.	Submitted at Deadline 7 (Appendices 7, 8, 9, 10, 11, 20, 37, 38)