

# Hornsea Offshore Wind Farm

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Project Two

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## Applicant's Response to E.ON E&P's Response at Deadline VI

**Appendix P to the Response submitted for Deadline VII**

**Application Reference: EN010053**

10 December 2015

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## **Applicant's Response to E.ON E&P's Response at Deadline VI**

The Applicant's submission below is in response to E.ON E&P's response at Deadline VI. The response is structured in the same format as Section 2 of E.ON E&P's response at Deadline VI.

Throughout this response, the Applicant makes reference to previous submissions regarding the ongoing E.ON E&P discussions, including its response at:

- Deadline I – Appendix CC;
- Deadline V – Appendix G and Appendix J; and
- Deadline VI – Appendix H, Appendix I and Appendix L.

The Applicant also refers the Examining Authority to its responses to Questions 7 and 8 of the Rule 17 Letter, submitted for Deadline VII.

**Table 1: Applicant's Response to E.ON E&P's Response at Deadline VI**

Table Section and Number	Cross reference to Applicant's Deadline V submission		Applicant's Response
	Topic	Reference to Applicant's response at Deadline V)	
A	Applicant's Draft DCO (Version 6)		
A1	Protective provisions	Appendix A	The Applicant has previously responded to the issues raised by E.ON E&P at paragraphs 2.1 to 2.7 of Appendix L of the Applicant's response at Deadline VI, which should be read with the protective provision plan at Appendix X of the Applicant's submission at Deadline VII.
B	Summary of Oral Case at ISH		
B1	Governance of interaction of offshore wind, and oil and gas developments	Appendix G, paragraph 4.13	The Applicant has previously responded to the issues raised by E.ON E&P at paragraphs 1.1 to 1.20 of Appendix L of the Applicant's response at Deadline VI.
B2	E.ON E&P's interests	Appendix J	The Applicant has previously responded to the issues raised by E.ON E&P at paragraphs 3.1 to 3.5 of Appendix H of the Applicant's response at Deadline VI.
B3	Interaction of Hornsea Project Two and E.ON E&P's interests: Category One interests	Appendix G, paragraph 4.15	The Applicant has previously responded to the issues raised by E.ON E&P in the following responses: <ul style="list-style-type: none"> <li>- Paragraph 3.2 of Appendix H of the Applicant's response at Deadline VI; and</li> <li>- Paragraph 4.3, of Appendix J of the Applicant's response at Deadline V.</li> </ul>

Table Section and Number	Cross reference to Applicant's Deadline V submission		Applicant's Response
	Topic	Reference to Applicant's response at Deadline V)	
B4	Interaction of Hornsea Project Two and E.ON E&P's interests: Category Two interests	Appendix G, paragraph 4.17	The Applicant has previously responded to the issues raised by E.ON E&P at paragraphs 1.3 and 2.1 to 2.7 of Appendix L of the Applicant's response at Deadline VI, which should be read with the protective provision plan at Appendix X of the Applicant's submission at Deadline VII.
B5		Appendix G, paragraph 4.18	The Applicant has previously responded to the issues raised by E.ON E&P at paragraphs 1.2 to 1.8, 1.18 to 1.20 and 2.1 to 2.7 of Appendix L of the Applicant's response at Deadline VI, which should be read with the protective provision plan at Appendix X of the Applicant's submission at Deadline VII.
B6		Appendix G, paragraph 4.19	The Applicant has previously responded to the issues raised by E.ON E&P at paragraphs 1.3 and 2.1 to 2.7 of Appendix L of the Applicant's response at Deadline VI, which should be read with the protective provision plan at Appendix X of the Applicant's submission at Deadline VII.
B7	Interaction of Hornsea Project Two and E.ON E&P's interests: Category Three interests	Appendix G, paragraph 4.20	The Applicant has previously responded to the issues raised by E.ON E&P in the following responses: <ul style="list-style-type: none"> <li>- Paragraph 3.2 of Appendix H of the Applicant's response at Deadline VI;</li> <li>- Paragraphs 2.1 to 2.7 of Appendix L of the Applicant's response at Deadline VI, which should be read with the protective provision plan at Appendix X of the Applicant's submission at Deadline VII; and</li> <li>- Paragraph 4.3 of Appendix J of the Applicant's response at Deadline V.</li> </ul>

Table Section and Number	Cross reference to Applicant's Deadline V submission		Applicant's Response
	Topic	Reference to Applicant's response at Deadline V)	
B8	E.ON E&P's future consent applications	Appendix G, paragraph 4.21 and 4.22	The Applicant has previously responded to the issues raised by E.ON E&P at paragraphs 1.12, 1.15, 1.16 and 2.1 to 2.7 of Appendix L of the Applicant's response at Deadline VI, which should be read with the protective provision plan at Appendix X of the Applicant's submission at Deadline VII.
B9		Appendix G, paragraph 4.23	The Applicant has previously responded to the issues raised by E.ON E&P at paragraphs 1.2 to 1.8, 1.18 to 1.20 and 2.1 to 2.7 of Appendix L of the Applicant's response at Deadline VI, which should be read with the protective provision plan at Appendix X of the Applicant's submission at Deadline VII.
B10		Appendix G, paragraph 4.24 and 4.25	<p>The Applicant refers to its discussion of policy at Appendix L of the Applicant's response to Deadline VI. The Applicant also refers to its responses to Question 7 and Question 8 of the Rule 17 Letter.</p> <p>In response to E.ON E&amp;P's assertion that the full target capacity for the wind farm can be accommodated outside of the area it has identified, the Applicant notes the removal of the 5 MW wind turbine option from the Hornsea Two design envelope does not reduce the area required for the wind farm itself and therefore no reduction to the generation asset boundary is justified on the basis of the removal of a turbine category option or reduced maximum turbine numbers. If a larger wind turbine is selected, the spacing between the turbines would normally be increased commensurately to ensure the Project operates productively and efficiently. Any reduction in the area removes flexibility for layouts which is required to avoid construction and operational constraints and to achieve an optimal energy yield. Any restriction on flexibility could therefore impact on cost and yield.</p>

Table Section and Number	Cross reference to Applicant's Deadline V submission		Applicant's Response
	Topic	Reference to Applicant's response at Deadline V)	
B11		Appendix G, paragraph 4.26	The Applicant has previously responded to the issues raised by E.ON E&P at paragraphs 1.12 and 1.7 to 1.8 of Appendix L of the Applicant's response at Deadline VI.
B12		Appendix G, paragraph 4.27	The Applicant has previously responded to the issues raised by E.ON E&P at paragraphs 1.7 to 1.17 and 2.1 to 2.7 of Appendix L of the Applicant's response at Deadline VI, which should be read with the protective provision plan at Appendix X of the Applicant's submission at Deadline VII.
B13	The Pragmatic solution in this DCO application process	Appendix G, paragraph 4.28 to 4.30	The protective provision plan shown at Appendix X of the Applicant's read with the Applicant's proposed protective provisions adequately protect access to E.ON E&P's proposed developments.

Table Section and Number	Cross reference to Applicant's Deadline V submission		Applicant's Response
	Topic	Reference to Applicant's response at Deadline V)	
B14	Other examples of interactions between offshore wind farms and oil and gas operators	Appendix G, paragraph 4.31	<p>The Applicant has previously responded to the issues raised by E.ON E&amp;P at paragraphs 4.1 to 4.2 of Appendix L of the Applicant's response at Deadline V.</p> <p>The Applicant has made significant effort to reach a reasonable commercial agreement with E.ON E&amp;P to enable effective cooperation and allocation of areas, allowing both parties to have a reasonable opportunity to exploit their interests as set out in paragraph 1.10 of Appendix L of the Applicants response at Deadline VI. The Applicant notes that commercial discussions have taken place on a confidential basis and so the Applicant is unable to provide the Ex. A with details of those discussions. In the event a commercial agreement cannot be reached the protective provisions as proposed by the Applicant at Appendix I of the Applicants response at Deadline VI, read with the protective provision plan at Appendix X of the Applicant's submission at Deadline VII, provide a pragmatic and robust solution to achieve successful co-existence between the parties.</p>
C	Summary of Oral Case presented by Dr Emily Wood		
C1	Overview	Appendix J, Paragraph 4.1	<p>The Applicant wishes to clarify that E.ON E&amp;P's interests were categorised by the Applicant for the basis of making the distinction to the Examining Authority of what was known at the time of the ES submission and what was considered to be new or released information.</p> <p>The Applicant disputes the claim by E.ON E&amp;P that the Joly and Dodgson prospects were presented as potential development options anywhere in the consultation letter of July 2014 response. The</p>

Table Section and Number	Cross reference to Applicant's Deadline V submission		Applicant's Response
	Topic	Reference to Applicant's response at Deadline V)	
			<p>Applicant agrees that the potential development of Cobra and Hawking was presented however these lie in Block 48/1 and 48/2 which are not coincident with the Project and overlap with the AfL of a potential future project within the Hornsea Zone which the Applicant has not progressed.</p> <p>The Applicant has addressed known exploration and development activities at paragraph 3.2 of Appendix H of the Applicants response at Deadline VI.</p> <p>The Applicant find it difficult to understand how consultation with other oil and gas operators in regard to other interests has any bearing on the assessment of E.ON E&amp;P's interests in Block 48/3 as suggested by E.ON E&amp;P. The Applicant was made aware by E.ON E&amp;P that there was the potential for another operator to be offered the licence for Block 48/3 which the Applicant notes only underlines the fact that the proposals for Block 48/3, as presented by E.ON E&amp;P during pre-application consultation, were clearly not known.</p> <p>The Applicant agrees that the potential development of Newton was known as stated at paragraph 3.4 of Appendix H of the Applicant's response at Deadline VI and that the ES assessed this development.</p> <p>The Applicant advises that no shapefiles of any oil and gas reserves have been presented to the Applicant to date and notes the confidentiality request (paragraph 3.5 of Appendix H of the Applicants response at Deadline VI).</p>
C2	Category One	Appendix J, Paragraph 4.3	No response provided by E.ON E&P.



Table Section and Number	Cross reference to Applicant's Deadline V submission		Applicant's Response
	Topic	Reference to Applicant's response at Deadline V)	
C3		Appendix J, Paragraph 4.4	<p>The Applicant has previously responded to the issues raised by E.ON E&amp;P with regard to what is included in the assessment at:</p> <ul style="list-style-type: none"> <li>- Paragraphs 3.2 to 3.5 of Appendix L of the Applicant's response at Deadline VI ; and</li> <li>- Paragraphs 4.3 to 4.11 of Appendix J of The Applicants response at Deadline V.</li> </ul> <p>The Applicant agrees that the potential development of Cobra and Hawking was presented however these lie in Block 48/1 and 48/2 which are not immediately adjacent to or within the boundaries of the Project.</p>
C4		Appendix J, Paragraph 4.5	The Applicant has previously responded to the issues raised by E.ON E&P at paragraphs 3.1 to 3.5 of Appendix H of the Applicant's response at Deadline VI.
C5	Category Two	Appendix J, Paragraph 4.6	Please see Table 1, section C1 above.
C6		Appendix J, Paragraph 4.7	<p>The Applicant has previously responded to the issues raised by E.ON E&amp;P with regard to what information could be included in the ES at paragraphs 3.1 to 3.5 of Appendix H of the Applicant's response at Deadline VI.</p> <p>The Applicant has previously responded with regard to consent requirements at paragraph 1.3 of Appendix L of the Applicants response at Deadline VI.</p>
C7		Appendix J, Paragraph 4.8	No response provided by E.ON E&P.
C8		Appendix J, Paragraph 4.9	No response provided by E.ON E&P.

Table Section and Number	Cross reference to Applicant's Deadline V submission		Applicant's Response
	Topic	Reference to Applicant's response at Deadline V)	
C9		Appendix J, Paragraph 4.10	E.ON E&P provided a number of comments in relation to the SoCG at Deadline VI however these comments were not constructive in allowing the finalisation of a meaningful SoCG. On this basis, the parties' respective positions are more clearly set out in this Appendix.
C10	Category Three	Appendix J, Paragraph 4.11	<p>The Applicant has previously responded to the issues raised by E.ON E&amp;P in the following responses:</p> <ul style="list-style-type: none"> <li>- Paragraph 3.2 of Appendix H of the Applicant's response at Deadline VI;</li> <li>- Paragraphs 2.1 to 2.7 of Appendix L of the Applicant's response at Deadline VI, which should be read with the protective provision plan at Appendix X of the Applicant's submission at Deadline VII.; and</li> <li>- Paragraph 4.3 of Appendix J of the Applicant's response at Deadline V.</li> </ul>
C11	Drilling and Seismic	Appendix J, Paragraph 6.1	No response provided by E.ON E&P.

Table Section and Number	Cross reference to Applicant's Deadline V submission		Applicant's Response
	Topic	Reference to Applicant's response at Deadline V)	
C12	Drilling and Seismic: Category One	Appendix J, Paragraph 6.2	<p>The Applicant has previously responded with regard to what information was known to the Applicant and could be assessed within the ES, see paragraphs 4.3 to 4.11 of Appendix J of the Applicants response at Deadline V.</p> <p>The Applicant notes that in relation to the requirement for proof of what information was available to the Applicant is quite clearly detailed in the Consultation Report (Doc Ref No.2.1) and material contained within this report. The Applicant has previously responded with regard to the assessment of the drilling of potential wells within the Newton Prospect (see paragraph 4.4 of Appendix J of the Applicants response at Deadline V). The Applicant advises both parties were waiting for the announcement of the 28<sup>th</sup> round in order to initiate any further assessments on the potential activity in Block 48/3 as detailed in the Applicants previous response at paragraph 4.1 of Appendix H of the Applicants response at Deadline VI.</p> <p>The Applicant advises that the issues raised by E.ON E&amp;P with regard to B10 are as per the Applicant's response at B10.</p>

Table Section and Number	Cross reference to Applicant's Deadline V submission		Applicant's Response
	Topic	Reference to Applicant's response at Deadline V)	
C13		Appendix J, Paragraph 6.3	The Applicant notes E.ON E&P's concern that the ES makes no reference to a 30 month period in which seismic activity can take place prior to construction. The Applicant agrees this is not explicitly stated however advises that as stated at paragraph 4.5 of Appendix H of the Applicants response at Deadline VI, the assessment considers the information provided during consultation prior to submission. The Applicant wishes to restate that the information on other seismic techniques was provided by E.ON E&P during consultation prior to submission and the Applicant has presented these options only as alternatives in just the same manner that E.ON E&P intended the information to be used (paragraph 11.6.91 of Volume 2, Chapter 11 of the ES).
C14		Appendix J, Paragraph 6.4	The Applicant has previously responded to the issues raised by E.ON E&P at paragraphs 4.5 to 4.7 and 4.9 to 4.10 of Appendix H of the Applicant's response at Deadline VI.
C15	Drilling and Seismic: Category Two	Appendix J, Paragraph 6.5	The Applicant wishes to advise that while discussions have been ongoing with E.ON E&P on the agreement for coexistence, they have also made it clear that they are open to discussions with regard to E.ON E&P wishing to drill within the AfL (E.ON E&P's response at Deadline I and Deadline II) but to date E.ON E&P have not provided a request to drill a specific well within the AfL for which coordinates can be provided to the Applicant.

Table Section and Number	Cross reference to Applicant's Deadline V submission		Applicant's Response
	Topic	Reference to Applicant's response at Deadline V)	
C16		Appendix J, Paragraph 6.6	<p>With regard to E.ON E&amp;Ps concerns regarding drilling within Block 48/3, please see the Applicant's response at C15.</p> <p>The Applicant advises that they have responded in regard to E.ON E&amp;P's concerns about working towards mutual coexistence at paragraphs 4.21 to 4.23 of Appendix H of the Applicants response at Deadline VI.</p>
C17		Appendix J, Paragraph 6.7	<p>The Applicant suggests that the response by E.ON E&amp;P is unclear and notes that, as shown in Figure 4 of E.ON E&amp;P's written representation, the first exploration well location for Newton Prospect is outside the Project AfL.</p>
C18		Appendix J, Paragraph 6.8	<p>The Applicant agrees that information was included in E.ON E&amp;P's Deadline V submission in regard to drilling being required at a variety of locations in the overlapping area. The Applicant has responded previously with regard to E.ON E&amp;P's coexistence Proposals at paragraphs 2.1 to 2.7 of Appendix L of the Applicants response at Deadline VI, which should be read with the protective provision plan at Appendix X of the Applicant's submission at Deadline VII..</p> <p>The Applicant agrees with E.ON E&amp;P that the requirement for consent to plug and abandon any wells through DECC must be a consideration that is taken into account in the commercial agreement or protective provisions put forward for activity within the Project AfL. The Applicant considers that this issue is fully taken into account in its proposed protective provisions by the identification of a proposed protected area and E.ON's right of prior approval of works within this area (acting reasonably).</p>

Table Section and Number	Cross reference to Applicant's Deadline V submission		Applicant's Response
	Topic	Reference to Applicant's response at Deadline V)	
C19		Appendix J, Paragraph 6.9	<p>The Applicant agrees with E.ON E&amp;P that the location of exploration, appraisal and production wells are contingent on the outcome of the Newton prospect and on the interpretation of seismic survey data.</p> <p>The Applicant has responded previously to E.ON E&amp;P with regard to a protected area in paragraph 2.3 of Appendix L of the Applicants response at Deadline VI, which should be read with the protective provision plan at Appendix X of the Applicant's submission at Deadline VII.</p> <p>The Applicant agrees with E.ON E&amp;P that, as per the response at C18 above, the requirement for consent to plug and abandon any wells through DECC must be a consideration that is included in the commercial agreement or protective provisions put forward for activity within the Project AfL.</p>
C20	Helicopter Access: Category one	Appendix J, Paragraph 7.1	No response provided by E.ON E&P.
C21		Appendix J, Paragraph 7.2	The Applicant has previously responded to the issues raised by E.ON E&P at paragraph 4.52 of Appendix H of the Applicant's response at Deadline VI.
C21		Appendix J, Paragraph 7.3	<p>The Applicant has previously responded to the issues raised by E.ON E&amp;P with regard to visual low level flights at paragraphs 4.53 to 4.54 of Appendix H of the Applicant's response at Deadline VI.</p> <p>The Applicant has previously responded to the issues raised by E.ON E&amp;P with regard to E.ON E&amp;P's coexistence proposal at paragraphs 2.1 to 2.7 of Appendix L of the Applicant's response at Deadline VI, which should be read with the protective provision plan at Appendix X of the Applicant's submission at Deadline VII.</p>

Table Section and Number	Cross reference to Applicant's Deadline V submission		Applicant's Response
	Topic	Reference to Applicant's response at Deadline V)	
C22		Appendix J, Paragraph 7.3	<p>The Applicant notes the information provided by E.ON E&amp;P to the Applicant at Deadline V states that helicopters no longer fly from Great Yarmouth to the Babbage Platform and that they now fly from Humberside and Norwich. The Applicant does not consider that this would result in a material difference to the assessment (and would indeed result in a slightly lesser effect) (see Figure 8.8 of Volume 2, Chapter 8 of the ES). Flights from Humberside would approach Babbage from the west using HMR 8 which would not be affected by the Project. Flights from Norwich would approach Babbage along the HMR 4 and then HMR 13 which is the same HMR flown from Great Yarmouth.</p> <p>The Applicant has responded with regard to aviation safety risk at paragraphs 8.1 to 8.5 of Appendix H of the Applicant's response at Deadline VI.</p>
C23		Appendix J, Paragraph 7.4	The Applicant has previously responded to the issues raised by E.ON E&P at paragraph 4.41 of Appendix H of the Applicant's response at Deadline VI.
C24	Helicopter Access: Category Two	Appendix J, Paragraph 7.5	The Applicant has previously responded to the issues raised by E.ON E&P at paragraphs 8.1 to 8.5 of Appendix H of the Applicant's response at Deadline VI.
C25		Appendix J, Paragraph 7.6	The Applicant has previously responded to the issues raised by E.ON E&P at paragraph 4.41 of Appendix H of the Applicant's response at Deadline VI.

Table Section and Number	Cross reference to Applicant's Deadline V submission		Applicant's Response
	Topic	Reference to Applicant's response at Deadline V)	
C26		Appendix J, Paragraph 7.7	The Applicant agrees with E.ON E&P that once the location of a platform which requires helicopter access is known, further assessment can be made as to the impact on that platform by the Project. The Applicant advises that E.ON E&P have not provided the coordinates of a likely platform location to the Applicant, either during pre or post application consultation.
C27		Appendix J, Paragraph 7.8	<p>The Applicant is unclear on E.ON E&amp;P's statement that future helicopter support plan to the platform is required and wishes to know which platform E.ON E&amp;P is referring to.</p> <p>The Applicant has previously responded with regard to E.ON E&amp;P's coexistence proposals at paragraphs 2.1 to 2.7 of Appendix L of the Applicant's response at Deadline VI, which should be read with the protective provision plan at Appendix X of the Applicant's submission at Deadline VII.</p>
C28		Appendix J, Paragraph 7.9	The Applicant agrees with E.ON E&P regarding the wording used in their written representation (July 2015). The Applicant is correct however in the fact that a platform which does not have a helideck will not require routine helicopter access.



Table Section and Number	Cross reference to Applicant's Deadline V submission		Applicant's Response
	Topic	Reference to Applicant's response at Deadline V)	
C29		Appendix J, Paragraph 7.10	<p>The Applicant agrees with E.ON E&amp;P that consultation cannot proceed until the location of a platform is known. The Applicant disagrees with the requirement, as stated by E.ON E&amp;P, that having insufficient information on which to consult implies that the Applicant should then provide a 9 NM free airspace around any potential future location of a platform that E.ON E&amp;P may decide to install within Block 48/3. Such a requirement is not only impractical it has no legal basis and is not stated in any air regulation of which the Applicant is aware.</p> <p>The Applicant has previously responded with regard to E.ON E&amp;P's coexistence proposals at paragraphs 2.1 to 2.7 of Appendix L of the Applicant's response at Deadline VI, which should be read with the protected provision plan at Appendix X of the Applicant's submission at Deadline VII.</p> <p>The Applicant has previously responded with regard to the aviation assessment and reiterates that the 9 NM zone is a consultation zone and not a prohibition on development (paragraph 4.54 of Appendix H of the Applicant's response at Deadline VI).</p>
C30	Aviation Safety Risk: Category One and Two	Appendix J, Paragraph 8.1	No response provided by E.ON E&P.
C31		Appendix J, Paragraph 8.2	The Applicant has previously responded to the issues raised by E.ON E&P at paragraphs 4.38 to 4.54 of Appendix H of the Applicant's response at Deadline VI.
C32		Appendix J, Paragraph 8.3	The Applicant has previously responded to the issues raised by E.ON E&P at paragraphs 4.43 to 4.49 of Appendix H of the Applicant's response at Deadline VI.

Table Section and Number	Cross reference to Applicant's Deadline V submission		Applicant's Response
	Topic	Reference to Applicant's response at Deadline V)	
C33		Appendix J, Paragraph 8.4	The Applicant has previously responded to the issues raised by E.ON E&P at paragraphs 4.38 to 4.54 of Appendix H of the Applicant's response at Deadline VI.
C34		Appendix J, Paragraph 8.5	The Applicant has previously responded to the issues raised by E.ON E&P at paragraphs 4.38 to 4.54 of Appendix H of the Applicant's response at Deadline VI.
C35	Vessel operational complexity and transit times	Appendix J, Paragraph 9.1	No response provided by E.ON E&P.
C36		Appendix J, Paragraph 9.2	The Applicant has previously responded to the issues raised by E.ON E&P at paragraphs 4.24 to 4.37 of Appendix H of the Applicant's response at Deadline VI.
C37	Vessel operational complexity and transit times: Category One	Appendix J, Paragraph 9.3	<p>The Applicant can confirm that all vessels types and operators within the Hornsea development were identified and consulted (where relevant) throughout the pre-application consultation process (see Section 15 of Volume 5, Annex 5.7.1: Subzone 2 and Offshore Cable Route NRA of the ES (Doc ref No 7.5.7.1)). The pre-application consultation gave operators, including overarching bodies such as the Chamber of Shipping to ensure all receptors are considered, the opportunity to identify any particular concerns for their vessel type.</p> <p>The Applicant advises that Table 7.14 of Volume 2, Chapter 7: Shipping and Navigation of the ES (Doc ref No 7.2.7) identifies a number of mitigation measures, including the monitoring and control (marine coordination) of all activities associated within the development, in this case the potential 84 construction vessels.</p>

Table Section and Number	Cross reference to Applicant's Deadline V submission		Applicant's Response
	Topic	Reference to Applicant's response at Deadline V)	
			<p>These vessels will be guided by the marine coordination centre and any overlapping activities discussed in advance with the other operators ensuring above standard marine navigational regulations (i.e., COLREGs) that activities are safely managed, including dynamic risk assessment, as part of the vessels own safety management system. With respect to vessels operating on Dynamic Positioning (DP) over a wellhead specifically, or close to the offshore wind farm site, then these vessels would be required to carry out a risk assessment with respect to carrying out their operations taking into account adjacent structures, shipping activity and operations prior to them going on location. These vessels are very familiar with operating within metres of offshore structures. A number of these vessels would also be likely to be located within an operational 500 m safety zone, which would prevent any potential for interaction with the Project's construction vessels.</p> <p>Furthermore, the Applicant notes that the SoCG between the Applicant and both the Maritime and Coastguard Agency (MCA) and Trinity House Lighthouse Service (THLS) state that the Applicant has adequately addressed the navigational safety impacts on commercial vessels from the development of the Project and that the mitigation measures to be implemented are sufficient to bring risk to tolerable levels or as low as reasonably practicable (see paragraph 3.9.1 of Appendix PP and paragraph 3.9.1 of Appendix TT of the Applicant's response at Deadline I respectively).</p>

Table Section and Number	Cross reference to Applicant's Deadline V submission		Applicant's Response
	Topic	Reference to Applicant's response at Deadline V)	
C38	Vessel operational complexity and transit times: Category Two	Appendix J, Paragraph 9.4	The Applicant advises that no meaningful assessment can be made regarding the impact of the project construction vessels on E.ON E&P's vessel requirements without having a clear indication of the type and number of vessels and the period of when they will be operating. The Applicant has previously responded to the issues raised by E.ON E&P at paragraphs 4.24 to 4.37 of Appendix H of the Applicant's response at Deadline VI.
C39	Vessel Collision Risk: Category One and Two	Appendix J, Paragraph 10.1 and 10.2	The Applicant has previously responded to the issues raised by E.ON E&P at paragraphs 4.24 to 4.37 of Appendix H of the Applicant's response at Deadline VI.

Table Section and Number	Cross reference to Applicant's Deadline V submission		Applicant's Response
	Topic	Reference to Applicant's response at Deadline V)	
C40		Appendix J, Paragraph 10.3	<p>The Methodology for Assessing Marine Navigational Risk (DECC, 2013) identifies a requirement to predict the future case level of risk based on the predicted growth but also foreseeable future changes in the marine environment. The Applicant notes that the SoCG between the Applicant and the MCA states that the Applicant has met the requirements of the NRA methodology and therefore adequately assessed future case traffic (Section 3.8 of Appendix PP of the Applicant's response at Deadline I). The Applicant would like to highlight to the Ex. A that E.ON E&amp;P's response at Deadline VI highlights three cargos/routes that have increased, however it does not note the overarching changes in marine traffic throughout the area including periods of recession, for example in recent validations where routes have ceased trading (including ferry routes) but also the implications of larger vessels, in which an increase in tonnage through a port does not mean an increase in the number of movements. Therefore 10% is used as a consistent amount to show how the area would be impacted by an increase in the number of vessels, a value of which is as noted above, an agreed approach with the MCA (Appendix PP of the Applicant's response at Deadline I) and other key navigational stakeholders.</p>

Table Section and Number	Cross reference to Applicant's Deadline V submission		Applicant's Response
	Topic	Reference to Applicant's response at Deadline V)	
C41		Appendix J, Paragraph 10.4	<p>The Applicant has previously responded to the issues raised by E.ON E&amp;P with regards to the NRA at paragraphs 4.24 to 4.37 of Appendix H of the Applicant's response at Deadline VI.</p> <p>The Applicant would like to highlight to the Ex. A that they have continued to engage with the Maritime and Coastguard Agency (MCA) throughout the examination phase of the Project, including at the request of the Ex. A on the marine traffic validation exercise (see paragraph 7.23 to 7.24 of Appendix G of the Applicant's response at Deadline V).</p>
C42	Shipping Hazard Assessment: Category One and Two	Appendix J, Paragraph 11.1 and 11.2	The Applicant has previously responded to the issues raised by E.ON E&P at paragraphs 4.24 to 4.37 of Appendix H of the Applicant's response at Deadline VI.
C43		Appendix J, Paragraph 11.3 and 11.4	The Applicant has previously responded to the issues raised by E.ON E&P at paragraphs 4.24 to 4.37 of Appendix H of the Applicant's response at Deadline VI.
C44	Pipelines and Umbilicals: Category One and Two	Appendix J, Paragraph 12.1 to 12.7	<p>The Applicant has previously responded to the issues raised by E.ON E&amp;P at paragraphs 12.1 to 12.7 of Appendix J of the Applicant's response at Deadline V.</p> <p>The Application advises that no allowance could be made in the ES for a potential pipeline and potential subsea manifold area proposed in post submission consultation material (July 2015) as suggested by E.ON E&amp;P.</p>

Table Section and Number	Cross reference to Applicant's Deadline V submission		Applicant's Response
	Topic	Reference to Applicant's response at Deadline V)	
C45	Decommissioning: Category One and Two	Appendix J, Paragraph 13.1 and 13.2	The Applicant responded previously to E.ON E&P with regard to decommissioning at the response to Deadline I (see Appendix CC: Table heading: Decommissioning). The Applicant's proposed protective provisions, provided at Appendix I of the Applicant's response at Deadline VI, provide sufficient protection to E.ON E&P to decommission.
C46		Appendix J, Paragraph 13.3	The Applicant wishes to advise that until the development plans are known for Block 48/3 it is not possible to assess how the decommissioning of such development may be affected by the Project. The Applicant's proposed protective provisions, provided at Appendix I of the Applicant's response at Deadline VI, provide sufficient protection to E.ON E&P to decommission.

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	Topic	Reference to Applicant's response at Deadline V)	
D	DONG Energy's response to E.ON's oral submissions		
D1	No hydrocarbon assets in Zone 2	Appendix K, row 1 of table	<p>The Applicant has previously responded to the issues raised by E.ON E&amp;P at paragraph 4.15 of Appendix H of the Applicant's response at Deadline VI.</p> <p>The Applicant also wishes to advise that as part of the planning process for the Hornsea Round 3 Zone, the Applicant has undertaken a formal Zone Appraisal and Planning process; a method recommended to zone developers by The Crown Estate as part of the Round 3 offshore wind leasing and as a way of managing how each development is taken forward across the entire zone. As part of this process a stakeholder advisory group was established. The Oil and Gas UK were part of this advisory group, who are the leading representative body for the UK offshore oil and gas industry and the trade association for the whole sector (Annex 5 of the Consultation Report (Doc ref No 2.2).</p>
D2	Insufficient attention to assets/works in categories 2 and 3	Appendix K, row 2 of table	<p>The Applicant agrees with E.ON E&amp;P in regard to the information provided in consultation in July 2014 which clearly states the development of 3-4 wells. The Applicant wishes to advise that no mention of Joly or Dodgson or Newton Deep was made.</p> <p>The Applicant has previously responded in regard to the ability to assess unknown development scenarios at paragraph 4.11 of Appendix J of the Applicant's response at Deadline V.</p>



Table Section and Number	Cross reference to Applicant's Deadline V submission		Applicant's Response
	Topic	Reference to Applicant's response at Deadline V)	
D3		Appendix K, row 2 of table	<p>The Applicant has previously responded in regard to the assessment of seismic activity in Block 48/3 at paragraph 4.5 of Appendix H of the Applicant's response at Deadline VI.</p> <p>The Applicant has previously responded in regard to the sensitivity of Block 48/3 at paragraph 3.1 of Appendix H of the Applicants response at Deadline VI.</p> <p>The Applicant advises that the assessment on seismic activity to which E.ON E&amp;P refers at paragraph 11.6.91 of Volume 2, Chapter 11 of the ES is for the construction phase only (6 years) and that a further assessment on seismic activity during the operational phase is presented at paragraph 11.6.202 of Volume 2, Chapter 11 of the ES.</p>
D4	E.ON E&P's proposed activities	Appendix K, row 3 of table	<p>The Applicant agrees with E.ON E&amp;P in regard to the information provided in consultation in July 2014 which clearly states the development of 3-4 wells at Newton. The Applicant advises that no mention of Joly or Dodgson or Newton Deep was made.</p> <p>The Applicant has previously responded in regard to the ability to assess unknown development scenarios at paragraph 4.11 of Appendix J of the Applicant's response at Deadline V.</p>

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	Topic	Reference to Applicant's response at Deadline V)	
D5		Appendix K, row 3 of table	<p>The Applicant has previously responded to the issues raised by E.ON E&amp;P with regard to the assessment on E.ON E&amp;P's activities at paragraphs 3.1 to 3.2 of Appendix H of the Applicant's response at Deadline VI.</p> <p>The Applicant has set out in detail its position with regards to the proper application of policy and consenting processes to deal with the potential interactions between the parties. The Applicant refers to Appendix L of its response to Deadline VI and to its responses to Questions 7 and 8 of the Rule 17 Letter submitted for Deadline VII. The Applicant advises that, as previously responded at paragraph 3.1 of Appendix H of the Applicant's response at Deadline VI, Block 48/3 was not licenced at time of the submission of the ES.</p>
D6		Appendix K, row 3 of table	The Applicant has previously responded to the issues raised by E.ON E&P at paragraphs 3.4 to 3.5 of Appendix H of the Applicant's response at Deadline VI.
D7		Appendix K, row 3 of table	The Applicant has previously responded to the issues raised by E.ON E&P at paragraphs 1.9 to 1.11 of Appendix L of the Applicant's response at Deadline VI.

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	Topic	Reference to Applicant's response at Deadline V)	
D8	Proceed at own risk	Appendix K, row 4 of table	<p>The Applicant has previously responded to the issues raised by E.ON E&amp;P with regard to consideration of coexistence and the mitigation measures presented by the Applicant in the ES, at paragraph 1.13 of Appendix L of the Applicant's response at Deadline VI and at paragraphs 4.22, 4.25, 4.30, 4.38 and 4.52 of Appendix H of the Applicants response at Deadline VI.</p> <p>The Applicant advises that the requirement for consideration of a Wind Farm AfL is provided in DECC licence guidance at Note 4 (DECC, 2014). The Applicant has responded previously with regard to how to accommodate coexistence at paragraphs 4.21 to 4.23 of Appendix H of the Applicant's response at Deadline VI and in regard to the application of protective provisions within the DCO at paragraphs 2.1 to 2.7 of Appendix L of the Applicant's response at Deadline VI, which should be read with the protective provision plan at Appendix X of the Applicant's submission at Deadline VII.</p>
D9	Seismic surveys in built/under construction wind farm areas	Appendix K, row 5 of table	<p>The Applicant wishes to restate that the information on other seismic techniques was provided by E.ON E&amp;P during consultation and the Applicant has presented these options only as alternatives in just the same manner that E.ON E&amp;P intended the information to be used (paragraph 11.6.91 of Volume 2, Chapter 11 of the ES).</p> <p>In addition the Applicant would like to note that E.ON E&amp;P wish to complete seismic data acquisition for Block 48/3 prior to construction activity which further supports the assessment as presented at paragraph 11.6.93 of Volume 2, Chapter 11 of the ES.</p>

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	Topic	Reference to Applicant's response at Deadline V)	
D10	Navigation	Appendix K, row 6 of table	<p>The Applicant notes that E.ON E&amp;P disagrees with the findings of the NRA, however the Applicant would like to reiterate that the NRA is a summary of many years of consultation and assessment completed by expert navigational consultants Anatec, and that the MCA and THLS (the key maritime stakeholders for the UK) confirm within their SoCG or representations that the NRA methodology meets all the required standards (in particular Section 3.8 of Appendix PP and Section 3.8 of Appendix TT of the Applicant's response at Deadline I).</p> <p>The E.ON E&amp;P Deadline VI response also indicates that the current updates to MCAs guidance (which the Applicant would like to highlight will be a new MGN not an updated MGN 371) are being consulted on informally with marine stakeholders. This is incorrect. These MGN updates are currently being discussed formally and both the Applicant (through developer representatives) and their expert shipping consultants, Anatec, are involved with the process. Relevant updates will be considered, with the MCA post consent, but at present as the new MGN is not yet agreed the current MGN 371 is the applicable guidance. The Applicant also disagrees that the MGN is moving towards practical elements rather than an 'over-reliance' of models but, for the sake of clarity, would highlight that the computer simulation only forms a small part of the total NRA process undertaken for the Project, which also included extensive consultation and discussions into the more practical application.</p>

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	Topic	Reference to Applicant's response at Deadline V)	
E	Impact of DONG Energy's investment in the Humber Area		
E1	Positive socio-economic effects on the Humber area from DONG Energy's offshore projects	Appendix Z	<p>The Applicant notes that E.ON, in their response at Deadline VI, refers to the "Report on the Impact of DONG Energy Investments in the Humber Area" included at Appendix Z of the Applicant's response at Deadline V. The Applicant would like to highlight that the purpose of this report was to assess the impact of DONG Energy's investments in the Humber area. This included other consented wind farm developments, Hornsea Project One, Race Bank, Westermost Rough and Lincs. The scope of the study was not to consider the potential impact of oil and gas activities in the Humber area.</p> <p>The Applicant would like to clarify that Appendix Z of the Applicant's response at Deadline V did not include an assessment of the potential socio-economic impacts arising from the Project. This is because the Project is still at the pre-consent stage and therefore outside the scope of the report. However E.ON E&amp;P's claim that there would be "<i>much reduced ongoing socio-economic impact resulting from Hornsea Project Two</i>" is inaccurate and inconsistent with the evidence presented within the ES and submissions made by the Applicant throughout the Examination phase. Specifically, the Applicant refers the Ex. A to paragraph 5.1 of Appendix G of the Applicant's response at Deadline V, which confirms that the Applicant is likely to establish an operations and maintenance base in the vicinity of the Project area. The Applicant is therefore able to commit to a medium scenario during the operation and maintenance phase, as described in paragraphs 11.6.55 to 11.6.59 of Volume 3, Chapter 11: Socio-economics of the ES (Doc ref No 7.3.11).</p>

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	Topic	Reference to Applicant's response at Deadline V)	
F	In Principle Monitoring Plan		
F1	Monitoring of shipping and navigation	Appendix EE	<p>As noted by E.ON E&amp;P in their response at Deadline VI, the aim of the In Principle Monitoring Plan (IPMP), submitted at Appendix EE of the Applicant's response at Deadline V, is to agree the objectives of any monitoring required by the Deemed Marine Licences (DMLs). The Applicant notes that the monitoring of shipping and navigation has been agreed with the MCA, as noted in paragraph 3.16.6 of Appendix PP of the Applicant's response at Deadline I.</p> <p>The Applicant notes that the wording of the shipping and navigation monitoring, specifically at Schedules H, I, J and K, Part 2, Condition 14(5) and Condition 15(2)(e) of the draft DCO, has been agreed with the MCA and includes a commitment for a report to be issued to the MMO and the MCA at the end of each year of the construction period and at the end of the first year after construction is completed. It is also noted that, pursuant to Schedule H, I, J and K, Part 2, Condition 14(1) and Condition 15(1) of the draft DCO, any methodologies (including timings) for data collection shall be approved in advance by the MMO.</p>
G	Deadline 5 summary response to Deadline 5		
G1	Compulsory Acquisition	Applicant's response to CA28 and Appendix G, paragraphs 4.32 to 4.34	The Applicant notes E.ON E&P's response at Deadline VI, which confirms that they are satisfied the Applicant does not seek the compulsory acquisition of E.ON E&P's interests. The Applicant can confirm that the book of reference has been updated on this basis, see Appendix I of the Applicant's submission at Deadline VII.
G2	Proposed refinement of	Applicant's response to	As noted in the Applicant's response to Deadline VI, as a result of

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	Topic	Reference to Applicant's response at Deadline V)	
	Rochdale envelope	Deadline V, paragraph 7.1	<p>continued discussions between the Applicant and Natural England, Natural England have advised that there is no potential for an adverse effect on the integrity of the kittiwake feature of the Flamborough and Filey Coast potential Special Protection Area (pSPA) from the Project alone, subject to a commitment by the Applicant to mitigate collision effects on kittiwake through a reduction in the Project's design envelope, specifically:</p> <ul style="list-style-type: none"> <li>▪ The removal of the 5 MW wind turbine generator (WTG) option (the smallest capacity is now a 6 MW WTG); and</li> <li>▪ Increasing the minimum blade tip height from 26 m relative to lowest astronomical tide (LAT) to 29.97 m relative to LAT.</li> </ul> <p>Subsequent to the Applicant's response to Deadline VI, the Applicant and Natural England have continued discussions in relation to the potential effect of the Project on the kittiwake feature of the Flamborough and Filey Coast pSPA, in-combination with other plans and projects. As a result of these discussions, the Applicant has proposed a further refinement to the Project's envelope, which represents a further increase to the minimum blade tip height. Specifically, the Applicant would now propose to increase the minimum blade tip height from 26 m relative to LAT to 34.97 m relative to LAT. In addition, the maximum rotor diameter has been reduced from 250 m to 241.03 m, ensuring that the maximum blade tip height specified in the draft DCO (276 m relative to LAT) is not exceeded. As a result of these mitigation measures, As a result of these mitigation measures, Natural England have confirmed to the Applicant their view that the effect of the additional predicted mortality</p>

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			<p>from the Project alone (14.2 based on Natural England's calculation), while not <i>de minimis</i>, is so small as to not materially alter the significance of the overall in-combination mortality figure or the likelihood of an adverse effect on the integrity of the SPA or pSPA arising from such an in-combination level of mortality (see Table 1 of Appendix R of the Applicant's response to Deadline VII for full details of the agreement reached with Natural England on offshore ornithology matters).</p> <p>The Applicant refers the Ex. A to Table 2, Appendix R of its response to Deadline VII which establishes, where the assessment identified a worst case scenario based on the maximum number of turbines, the lower blade tip height or the maximum rotor diameter, any potential effect on the conclusions of the assessment. The Applicant confirms that these amendments do not increase the worst case scenarios presented within the Project's ES and HRA, nor alter the assessment conclusions presented therein.</p>

## References:

DECC (2013) Methodology for Assessing the Marine Navigational Risks of Offshore Wind Farms. DECC , London

DECC (2014) Other Regulatory Issues. Available at [https://www.gov.uk/government/uploads/system/uploads/attachment\\_data/file/274943/28R\\_other\\_regulatory\\_issues.pdf](https://www.gov.uk/government/uploads/system/uploads/attachment_data/file/274943/28R_other_regulatory_issues.pdf). Accessed 4<sup>th</sup> December 2015