

Hornsea Project Four

Statement of Common Ground between Hornsea Project Four and Natural England: Other Offshore Matters

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11/02/2022	01	Initial draft for Natural England Review and submission at Deadline 1.
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	03	

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Glossary

Term	Definition	
Development Consent	An order made under the Planning Act 2008 granting development consent	
Order (DCO)	for one or more Nationally Significant Infrastructure Projects (NSIP).	
Hornsea Project Four	The term covers all elements of the project (i.e. both the offshore and	
Offshore Wind Farm	onshore). Hornsea Four infrastructure will include offshore generating	
	stations (wind turbines), electrical export cables to landfall, and connection	
	to the electricity transmission network. Hereafter referred to as Hornsea	
	Four.	
Orsted Hornsea Project Four	The Applicant for the proposed Hornsea Project Four Offshore Wind Farm	
Ltd	Development Consent Order (DCO).	

Acronyms

Acronym	Definition			
CEA	Cumulative Effects Assessment			
DMLs	Deemed Marine Licences			
DCO	Development Consent Order			
EIA	Environmental Impact Assessment			
ES	Environmental Statement			
HVAC	High Voltage Alternating Current			
HVDC	High Voltage Direct Current			
LSE	Likely Significant Effect			
MHWS	Mean High Water Springs			
MLWS	Mean Low Water Springs			
PEIR	Preliminary Environmental Information Report			
PINS	The Planning Inspectorate			
SNCB	Statutory Nature Conservation Body			
SoCG	Statement of Common Ground			

1 Introduction

1.1 Reason for this document

- 1.1.1.1 This Statement of Common Ground (SoCG) has been prepared between Orsted Hornsea Project Four Limited ('the Applicant') and Natural England to set out the areas of agreement and disagreement between the two parties in relation to the Development Consent Order (DCO) application for the Hornsea Project Four offshore wind farm (hereafter referred to as 'Hornsea Four').
- 1.1.1.2 This SoCG covers other offshore matters which includes the topics of:
 - Marine Geology, Oceanography and Physical Processes;
 - Benthic and Intertidal Ecology;
 - Fish and Shellfish Ecology;
 - Marine Mammals;
 - Seascape, Landscape and Visual Resources; and
 - Other Plans and Documents.
- 1.1.1.3 This SoCG covers offshore matters only, which for the purposes of this document, are defined as matters below Mean High Water Springs (MHWS).
- 1.1.1.4 Due to the nature and complexities of offshore ornithology and the Derogations Case, separate SoCGs have been developed with Natural England to address these topics as set out in Table 1 below.

Table 1: Summary of all SoCGs sought with Natural England.

SoCG's sought with Natural England	Document
	Reference
SoCG between Hornsea Project Four and Natural England: Offshore and Intertidal Ornithology	G1.9
SoCG between Hornsea Project Four and Natural England: Onshore Matters	Pending ref.
SoCG between Hornsea Project Four and Natural England: Derogation and Compensation	Pending ref.

- 1.1.1.5 The need for a SoCG between the Applicant and Natural England is set out within the Rule 6 letter issued by the Planning Inspectorate (PINS) on 24 January 2022.
- 1.1.1.6 Following detailed discussions undertaken through the Evidence Plan Process, the Applicant and Natural England have sought to progress a SoCG. It is the intention that this document will provide the PINS with a clear overview of the level of common ground between both parties. This document will facilitate further discussions between the Applicant and Natural England and the SoCG will be updated as discussions progress during the Hornsea Four examination process.

1.2 Approach to SoCG

1.2.1.1 The Applicant took the decision at an early stage to adopt a proportionate approach to Environmental Impact Assessment (EIA) for Hornsea Four which is detailed and integrated throughout the DCO application. The Impacts Register (see Volume A4, Annex 5.1: Impacts

Register) is a key tool that details all potential impacts identified for Hornsea Four and sets the scope of the EIA at various stages of the project (Scoping, PEIR and DCO). In line with the Applicant's approach to proportionality, only Likely Significant Effects (LSE) were included within the individual topic assessments within the relevant chapters of the Environmental Statement (ES). This SoCG seeks to set out the agreements reached with Natural England on the proportionate approach to EIA in addition to other matters such as (but not limited to) the adequacy of baseline data collection, the assessment methodology and conclusions reached (Section 3.7).

1.2.1.2 The structure of this SoCG is as follows:

- Section 1: Introduction;
- Section 2: Consultation;
- Section 3: Agreement Logs; and
- Section 4: Summary.

1.3 Application elements under Natural England's remit

1.3.1.1 The elements of Hornsea Four which may affect the interests of Natural England are Work Numbers 1 to 10, covering both onshore and offshore works. These are detailed in Part 1 (Authorised Development) of Schedule 1 (Authorised Project) of the draft DCO (Volume C1.1: Draft DCO).

1.4 Overview of Hornseg Four

- 1.4.1.1 Hornsea Four is an offshore wind farm which will be located approximately 69 km offshore the East Riding of Yorkshire in the Southern North Sea and will be the fourth project to be developed in the former Hornsea Zone. Hornsea Four will include both offshore and onshore infrastructure and consists of:
 - Hornsea Four array area: This is where the offshore wind generating station will be located which will include the turbines, array cables, offshore accommodation platforms and a range of offshore substations as well as offshore interconnector cables and export cables;
 - Hornsea Four offshore export cable corridor: This is where the permanent offshore
 electrical infrastructure (offshore export cables, as well as the HVAC booster station (if
 required), will be located;
 - Hornsea Four intertidal area: This is the area between MHWS and Mean Low Water Springs (MLWS) through which all of the offshore export cables will be installed;
 - Hornsea Four onshore export cable corridor: This is where the permanent onshore electrical cable infrastructure will be located; and
 - Hornsea Four onshore substation including energy balancing infrastructure: This is
 where the permanent onshore electrical substation infrastructure (onshore HVDC
 converter/HVAC substation, energy balancing infrastructure and connections to the
 National Grid) will be located.

2 Consultation

2.1 Summary of consultation with Natural England

2.1.1.1 Table 2 below summarises the consultation that the Applicant has undertaken with Natural England relevant to Other Offshore Matters during the pre-application phase.

Table 2: Summary of pre-application consultation with Natural England.

Date	Form of	Statutory/Non	Summary
	consultation	Statutory	
07/08/2018	Meeting	Non Statutory	Evidence Plan Steering Group Meeting 1
			Introduction to the proposed project and project teams and
			summary, reflections, agreement and sign off on the Terms o
			Reference.
12/09/2018	Meeting	Non Statutory	Marine Processes & Ecology Evidence Plan Technical Panel
			Meeting 1
			Meeting to introduce Hornsea Four, the consenting programme
			evidence plan process and the proportionate approach to EIA. Ar
			overview of work undertaken to date was provided, including
			scoping and approach to baseline.
13/09/2018	Meeting	Non Statutory	Marine Mammals Evidence Plan Technical Panel Meeting 1
			Introduction to the project. Introduction to the TP, the EP
			process and the proportionate approach to EIA; and
			Discussion on key position papers.
03/10/2018	Meeting	Non Statutory	Marine Mammals Evidence Plan Technical Panel Meeting 2
			Introduction to the project. Introduction to the TP, the EP
			process and the proportionate approach to EIA; and
			Discussion on key position papers.
15/10/2018	Consultation	Statutory	Hornsea Four Scoping Report
26/11/2018	Consultation	Statutory	Scoping Opinion
			Consultation response on the Scoping Report from Natural
			England.
12/12/2018	Meeting	Non Statutory	Evidence Plan Steering Group Meeting 2
			Update on the project development activities. Review of the
			Scoping Opinion responses and discussion on the next steps in
			relation to seeking agreement with key stakeholders on the
			data to be included in the PEIR and ES.
12/12/2018	Meeting	Non Statutory	Marine Processes & Ecology Evidence Plan Technical Panel
			Meeting 2
			Meeting to provide Hornsea Four update, recap of the EIA
			Meeting to provide Hornsea Four update, recap of the EIA scoping report and approach to EIA proportionality. Scoping
			scoping report and approach to EIA proportionality. Scoping
14/01/2019	Meeting	Non Statutory	scoping report and approach to EIA proportionality. Scoping opinions received were discussed, and necessary next steps,
14/01/2019	Meeting	Non Statutory	scoping report and approach to EIA proportionality. Scoping opinions received were discussed, and necessary next steps, including survey and assessment work.
14/01/2019	Meeting	Non Statutory	scoping report and approach to EIA proportionality. Scoping opinions received were discussed, and necessary next steps, including survey and assessment work. Marine Mammals Evidence Plan Technical Panel Meeting 3
14/01/2019	Meeting	Non Statutory	scoping report and approach to EIA proportionality. Scoping opinions received were discussed, and necessary next steps, including survey and assessment work. Marine Mammals Evidence Plan Technical Panel Meeting 3 Project updates, review of responses received during the

Date	Form of	Statutory/Non	Summary
	consultation	Statutory	
06/03/2019	Consultation	Non Statutory	Responses to Benthic and Intertidal Technical Note.
30/04/2019	Meeting	Non Statutory	Marine Processes & Ecology Evidence Plan Technical Panel
			Meeting 3
			Meeting to provide Hornsea Four update since receipt of
			Scoping Opinion. Review of responses to both the Scoping
			Report and the HRA Screening Report, and the approach to the
			RIAA. Discussion on the next steps to seeking agreement in
			relation to data to be included in the PEIR and ES. Discussion on
			Biodiversity Net Gain.
30/04/2019	Meeting	Non Statutory	Marine Mammals Evidence Plan Technical Panel Meeting 4
			Meeting to provide a Hornsea Four update and updates on
			ongoing baseline surveys. Section 42 comments received were
			discussed (including the provision of necessary further
			information or evidence, and /or the Applicant's proposed
			response). Consensus was sought on the proposed approach to
			ES (impacts to be covered in detail in the ES chapter) and what
			additional evidence or information is required. Comments on the
			Noise modelling methodology and RIAA.
25/06/2019	Meeting	Non Statutory	Evidence Plan Steering Group Meeting 3
			Update on project information, local information events,
			onshore and offshore Technical Panels and non-Evidence Plan
			consultation.
26/06/2019	Meeting	Non Statutory	Marine Mammals Evidence Plan Technical Panel meeting 5
			Project updates and discussion around the scope of the PEIR and
			ES. Review of the impacts register and discussion on next steps
			to seeking agreement with stakeholders on the data and
			information to be included in the PEIR and ES.
13/08/2019	Consultation	Statutory	Hornsea Four PEIR
			Published for statutory Section 42 consultation.
23/09/2019	Consultation	Statutory	Natural England letter response to PEIR
	response		Providing comments on the PEIR.
06/11/2019	Meeting	Non Statutory	Evidence Plan Steering Group Meeting 4
			Update on project information and overview of the programme
			to DCO application. Update to Terms of Reference to reflect
			Historic England joining Steering Group. Updates to the Impacts
			Register and Commitments Register. Discussion on the Draft
			DCO and DMLs.
06/11/2019	Meeting	Non Statutory	Marine Mammals Technical Panel Meeting 6
			Data collection and description of the baseline environment and
			the inclusion of bottlenose dolphin in the baseline; impact
			assessment methodology in response to Section 42 comments
			regarding simultaneous piling, ramp-up hammer energy
			scenarios and Unexploded Ordnance (UXO); and the RIAA.
13/11/2019	Meeting	Non Statutory	Marine Processes & Ecology Evidence Plan Technical Panel
			Meeting 4
			Meeting to provide a Hornsea Four update and updates on
			ongoing baseline surveys. Section 42 comments received were

Date	Form of	Statutory/Non	Summary
	consultation	Statutory	
			discussed (including the provision of necessary further
			information or evidence, and /or the Applicant's proposed
			response). Consensus was sought on the proposed approach to
			ES (impacts to be covered in detail in the ES chapter) and what
			additional evidence or information is required. New
			commitments in relation to the Dogger Bank Creyke Beck cable
			crossing and Smithic Bank.
17/12/2019	Meeting	Non Statutory	Marine Mammals Technical Panel Meeting 7
			Project and programme updates; and updates to the Impacts
			Register.
16/03/2020	Meeting	Non Statutory	Evidence Plan Steering Group Meeting 5
			Review of draft ES documents by the relevant Technical Panels.
			Overview of planned seabed investigations. Project updates and
			updates to the Impacts Register, Commitments Register, Draft
			DCO and DMLs.
06/06/2020	Meeting	Non Statutory	Marine Mammals Technical Panel Meeting 8
			Discussion on the draft ES documents provided for review prior
			to the meeting; Presentation of updated HRA screening for
			marine mammals; Discussion on the approach to the UXO
			assessment; and Presentation of grey seal information that will
			form part of the RIAA.
10/05/2021	Meeting	Non Statutory	Marine Mammals Technical Panel Meeting 9
			Project updates including the reduction in the developable area
			and the change to the project programme; Discussion on the
			bottlenose dolphin Management Unit and assessment;
			presentation of approach to the cumulative assessment in
			relation to seismic surveys, disturbance impacts, simultaneous
			piling and a new form of result presentation; and updates
			required to the modelling as a result of the change to Order
			Limits.
21/10/2020	Meeting	Non Statutory	Evidence Plan Steering Group Meeting 6
			Review of draft ES documents by the relevant Technical Panels.
			Project updates on change to Hornsea Four Order Limits. DCO
			application submission programme, SoCGs and Project Seabird
			and Derogation. Overview of Design Vision Statement and
			planned seabed investigations.
11/05/2021	Meeting	Non Statutory	Marine Ecology and Processes Technical Panel Meeting 5C —
			Fish and Shellfish Ecology
			Project updates including the reduction in the developable area.
			Discussion on key issues raised in the consultee comments
			(spawning timings for Banks herring and the conclusions of
			assessments); and
			updates required to the draft ES documents as a result of the
	-		change to Order Limits.
13/05/2021	Meeting	Non Statutory	Marine Ecology and Processes Technical Panel Meeting 5A —
			Marine Processes

Date	Form of consultation	Statutory/Non Statutory	Summary
			Project updates including the reduction in the developable area and the change to the project programme. Review of consultee
			comments on the draft ES Chapter and Technical Report and
			the key issues identified; and updates required to the modelling
			as a result of the change to Order Limits.
13/05/2021	Meeting	Non Statutory	Marine Ecology and Processes Technical Panel Meeting 5B —
			Benthic and Intertidal Ecology
			Project updates including the reduction in the developable area
			and the change to the project programme. General agreements
			from consultee comments on the draft ES Chapter and
			Technical Report. Discussion on key issues raised in the
			consultee comments; and updates required to the draft ES
			documents as a result of the change to Order Limits.
29/07/2021	Meeting	Non Statutory	Evidence Plan Steering Group Meeting 7
			Project updates on change to DCO application submission
			programme, SoCGs and non-statutory compensation
			consultation. Overview of geophysical and geotechnical
			investigations.
17/08/2021	Meeting	Non Statutory	Outline Marine Monitoring Plan Meeting
			To discuss consultee comments on the Outline Marine
			Monitoring Plan document provided for consultation to Natural
			England and the MMO in consultation with Cefas.

3 Agreement Logs

3.1 Overview

- 3.1.1.1 The following sections of this SoCG set out the level of agreement between the parties for each relevant component of the application (as identified in paragraph 1.3.1.1) seaward of MHWS.
- 3.1.1.2 In order to easily identify whether a matter is 'agreed', 'not agreed' or an 'ongoing point of discussion', the colour coding system set out in **Table 3** below is used within the 'position' column of the following sections of this document.

Table 3: Position Status Key.

Position Status	Position Colour Coding
Agreed	Agreed
The matter is considered to be agreed between the parties	
Not Agreed – no material impact	Not Agreed – no material impact
The matter is not agreed between the parties, however the outcome of the	
approach taken by either the Applicant or Natural England is not considered	
to result in a material impact to the assessment conclusions.	
Not Agreed – material impact	Not Agreed – material impact

Position Status	Position Colour Coding
The matter is not agreed between the parties and the outcome of the	
approach taken by either the Applicant or Natural England is considered to	
result in a materially different impact to the assessment conclusions.	
Ongoing point of discussion	Ongoing point of discussion
The matter is neither 'agreed' nor 'not agreed' and is a matter where further	
discussion is required between the parties (e.g. where documents are yet to	
be shared with Natural England).	



3.2 Marine Geology, Oceanography and Physical Processes

Table 4: Agreement Log - Marine Geology, Oceanography and Physical Processes.

ID	Hornsea Four Position	Natural England Position	Position Summary
Environmental In	npact Assessment		
NE-MPOFF-02	Existing and project-specific survey data is sufficient to inform the assessment. The impact assessment methodologies used for	The Marine Geology, Oceanography and Physical Processes chapter and technical report provide an extensive range of information and evidence. However, we consider there to be a number of gaps in the baseline characterisation and therefore, we do not consider the baseline characterisation to be complete at this stage. Natural England has outstanding concerns relating to the EIA assessment	Ongoing point of discussion Ongoing point of
NE-MPOPP-02	the EIA provide an appropriate approach to assessing potential impacts of Hornsea Four.	methodology Natural England does not agree that appropriate marine process receptors have been identified for assessment and considers that the "study areas" are too narrow in scope. Additional receptors to be considered; Holderness Inshore MCZ Holderness Offshore MCZ Flamborough and Filey Coast SPA	discussion Ongoing point of discussion
		 Flamborough SSSI Humber Estuary SAC, SPA, SSSI and Ramsar Greater Wash SPA Southern North Sea SAC Holderness Coast (high environmental Value) Smithic bank (high environmental value) Flamborough Front (high sensitivity) The Hills Outer silver pit (geological feature) 	
NE-MPOFF-03	The maximum design scenario (MDS) presented in the assessment is appropriate.	Natural England note that there are a number of instances whereby the MDS is based on conservative assumptions resulting in a larger project envelope rather than being underpinned and refined by survey data.	Ongoing point of discussion
NE-MPOFF-04	The Worst Case Scenario (WCS) of impact to this receptor which could occur within the parameters of the MDS has been assessed.	Natural England has highlighted a number of marine geology oceanography and physical process receptors that are missing from the assessments (see NE-	Ongoing point of discussion



ID	Hornsea Four Position	Natural England Position	Position Summary
		MPOFF – 02). Therefore, we do not agree that the worst-case scenario has	
		been assessed in all cases.	
NE-MPOFF-05	The conclusions of the assessment of impacts for	Given our concerns relating to the identification of receptors, data gaps and	Ongoing point of
	construction, operation and decommissioning are	incomplete assessments, we are unable to agree with the conclusions of the	discussion
	appropriate.	ES at this time.	
		Furthermore, we would highlight that impacts on marine geology	
		oceanography and physical process may give rise to impacts on intertidal and	
		benthic ecology as well as species impacts. We may therefore need to revisit	
		our comments on other ES chapters as additional data and assessment	
		becomes available.	
NE-MPOFF-06	The conclusions of the assessment of cumulative	We would advise that the Viking Link interconnector cable should be screened	Ongoing point of
	impacts are appropriate.	into the marine processes cumulative assessment.	discussion
		It should be noted that Eastern Green Link and the Northern Endurance	
		Partnership should now be considered in Tier 2.	
		Certain impacts assessed for the project alone are not considered in the	
		cumulative assessment as they are assessed as 'not significant' on a project	
		alone basis. Natural England believe these should be carried forward to the	
		CEA or the Applicant needs to provide further detail to justify the exclusion of	
		these potential cumulative impacts.	
		It should also be noted that the CEA is likely to need to be updated pending	
		updates to the 'project alone' assessments	
		Further consideration needs to be given to the multiple projects all proposing	
		cable crossings at Smithic Bank in terms of potential impacts to the form and	
		function of the sandbank and in relation to nearshore sediment pathways.	
NE-MPOFF-07	Given the impacts of the project, the proposed	CO189 - Natural England notes and welcomes that the Dogger Bank cable	Ongoing point of
	Commitments outlined in Volume A4, Annex 5.2:	crossing will be positioned east of Smithic Bank and seaward of the 20m depth	discussion
	Commitments Register are appropriate.	contour. However, it still needs to be demonstrated that this location is	
		sufficiently seaward as to avoid alterations to the local wave/current regime,	
		sediment transport regime and morphology of the sandbank	
		Natural England expect to request further commitments are made in the	
		commitment register as we progress through examination	



D	Hornsea Four Position	Natural England Position	Position Summary
Draft DCO and D	eemed Marine Licences		
NE-MPOFF-08	The wording of the following requirements and	Natural England expect to review and request additional amendments to the	Ongoing point of
	conditions pertaining to marine geology,	DCO as appropriate, as we move through examination.	discussion
	oceanography and physical processes are		
	appropriate and adequate:		
	• Part 2 - Condition 13(1(c) of DCO Schedules 11		
	and 12 with reference to a Construction		
	Method Statement;		
	• Part 2 - Condition 13(1)(e) of DCO Schedules 11		
	and 12, Part 2 - Condition 13(1)(e) with		
	reference to the development of a Scour		
	Protection Management Plan;		
	• Part 2 - Condition 13(1)(h) of DCO Schedules 11		
	and 12 with reference to a Cable Specification		
	and Installation Plan;		
	• Part 1(6) of DCO Schedules 11 and 12 with		
	reference to a decommissioning plan;		
	• Paragraph 2(a) of Part 1 of DCO Schedules 11		
	and 12 with reference to the maximum		
	volumes of material to be disposed seaward of		
	Mean High Water Springs (MHWS) within the		
	Hornsea Four Order Limits.		
Report to Inform	Appropriate Assessment		
IE-MPOFF-09	LSE Screening - The RIAA has identified all	Based on the information currently available, we consider that Flamborough	Ongoing point of
	relevant features of the designated sites (in	Head SAC should also be screened in for further assessment of changes to	discussion
	relation to marine processes) that may be	physical processes during construction and decommissioning and beyond the	
	sensitive to changes as a result of the proposed	operational lifetime of the project, as well as for potential changes to the	
	activities.	hydrodynamic regime (arising as a result of potential impacts to the	
		Flamborough Front). Flamborough and Filey Coast SPA should also be	
		screened in for the same impacts.	
		We also consider that the Humber Estuary SAC/SPA/Ramsar should also be	
		screened in for further assessment of changes to physical processes	
		throughout all stages of the project, and that the Southern North Sea SAC	



ID	Hornsea Four Position	Natural England Position	Position Summary
		should be screened in for changes to hydrodynamic regime (Flamborough	
		Front) and sediment transport regime.	
NE-MPOFF-10	Outcomes of the RIAA - Conclusion of no AEoI at	As a result of Natural England's concerns relating to the LSE Screening and	Ongoing point of
	any sites is appropriate in relation to marine	evidence gaps within the Environmental Statement, we are currently unable	discussion
	processes, either alone or in-combination as a	to exclude beyond reasonable scientific doubt the potential for impacts to	
	result of the proposed activities.	Flamborough Head SAC, Flamborough and Filey Coast SPA, Humber Estuary	
		SAC/SPA/Ramsar and Southern North Sea SAC. Additional measures to	
		avoid/reduce/mitigate potential impacts may need to be explored.	
Marine Conserva	tion Zone Assessment		
NE-MPOFF-10	Screening – The MCZ assessment has identified all	In light of our comments on the ES chapter, we advise that potentially impacts	Ongoing point of
	relevant MCZs that may be sensitive to changes	to physical process attributes are also assessed for MCZs. For habitat features	discussion
	as a result of the proposed activities and the	this includes:	
	associated impacts.	Supporting processes – energy exposure	
		Supporting processes – sediment movement and hydrodynamic regime	
		For the Spurn Head Geological feature of Holderness Inshore this includes:	
		Extent of supporting geomorphological processes and associated	
		sediments	
		Sediment transport pathways and connectivity to wider environment	
		Extent and distribution.	
NE-MPOFF-11	Assessment Conclusion – Conclusion of no	As a result of Natural England's concerns relating to the screening of potential	Ongoing point of
	potential for significant impacts to Holderness	impact pathways, and the evidence gaps within the ES, we are currently	discussion
	Inshore MCZ and Holderness Offshore MCZ is	unable to exclude beyond reasonable scientific doubt, the potential for	
	appropriate.	significant impacts to Holderness Inshore MCZ and Holderness Offshore MCZ.	
		Additional measures to avoid/reduce/mitigate potential impacts may need to	
		be explored.	
Other Matters			
NE-MPOFF-12	Monitoring – Appropriate monitoring requirements	Natural England expect the project to require some additional monitoring	Ongoing point of
	have been identified and presented in F2.7:	commitments to be made to assess Marine Processes during construction and	discussion
	Outline Marine Monitoring Plan.	operation of Hornsea 4.	



3.3 Benthic and Intertidal Ecology

Table 5: Agreement Log – Benthic and Intertidal Ecology.

ID	Hornsea Four Position	Natural England Position	Position Summary
Environmental In	npact Assessment		
NE-BEOFF-01	Existing and project-specific survey data is sufficient to inform the assessment.	Natural England are generally satisfied with the project specific baseline data collected including the method and consider the sampling frequency within the order area to be adequate.	Agreed
		It is unclear how the benthic environment as characterised within the benthic study area has been used to inform impacts outside the order limits where habitats may be different, therefore our confidence in this area of the assessment is lower. Clarification on this matter would be useful.	Not Agreed – No material impact
		Natural England wish to see additional raw data relating to the classification of Stony Reef to confirm it is in fact of 'low' reefiness. We also request a more precautionary approach is taken in any reef assessments conducted during preconstruction surveys.	Ongoing point of discussion
NE-BEOFF-02	The impact assessment methodologies used for the EIA provide an appropriate approach to assessing potential impacts of Hornsea Four.	Natural England has outstanding concerns relating to the EIA assessment methodology.	Ongoing point of discussion
NE-BEOFF-03	The maximum design scenario (MDS) presented in the assessment is appropriate.	Natural England note that there are a number of instances whereby the MDS is based on conservative assumptions resulting in a larger project envelope rather than being underpinned and refined by survey data. There is no MDS presented for the area which will be affected by disposal of spoil material. This should be provided so that the impacts can be fully assessed. Location of the HDD exit pits should be clarified and fully assessed.	Ongoing point of discussion
NE-BEOFF-04	The conclusions of the assessment of impacts for construction, operation and decommissioning are appropriate.	As NE have outstanding concerns relating to the assessment methodology, we cannot fully support all of the assessment conclusions. The impact of drill arisings being deposited on the seabed should be fully assessed. The impact of the disturbance of contaminated sediments should also be fully	Ongoing point of discussion Ongoing point of discussion Ongoing point of
NE-BEOFF-05	The conclusions of the assessment of cumulative impacts are appropriate.	It should be noted that Eastern Green Link 2 and the Northern Endurance Partnership should now be considered in Tier 2.	discussion Ongoing point of discussion



ID	Hornsea Four Position	Natural England Position	Position Summary
		Certain impacts assessed for the project alone are not considered in the	Ongoing point of
		cumulative assessment, as they are assessed as 'not significant' on a project	discussion
		alone basis. Natural England believe these should be carried forward to the CEA	
		or the Applicant needs to provide further detail to justify the exclusion of these	
		potential cumulative impacts.	
		It should also be noted that the CEA may need to be updated following	Ongoing point of
		adjustments to the 'project alone' assessments.	discussion
NE-BEOFF-06	Given the impacts of the project, the proposed	Natural England may request additional mitigation throughout the course of the	Ongoing point of
	Commitments outlined in Volume A4, Annex	examination in order to address some of our outstanding concerns.	discussion
	5.2: Commitments Register are appropriate.	We also remain unclear as to the status of the Commitments Register and how	
		this document links to the DCO/DML i.e. whether the inclusion of something on	
		the commitments register negates the need for it to be incorporated as a	
		separate condition. Further clarification on this point from Orsted and the	
		regulators would be welcome.	
Report to Inform	Appropriate Assessment		
NE-BEOFF-07	LSE Screening - The RIAA has identified all	There are a number of indirect impact pathways described in Appendix E of RR	Ongoing point of
	relevant features of the designated sites (in	(Marine geology, oceanography and physical processes) of our response which	discussion
	relation to benthic and intertidal ecology) that	require further consideration.	
	may be sensitive to changes as a result of the		
	proposed activities.		
NE-BEOFF-08	Outcomes of the RIAA - Conclusion of no AEoI	Natural England notes that there is no information provided in relation to the	Ongoing point of
	at any sites is appropriate in relation to	likely disposal locations within their order limits for the disposal of material	discussion
	benthic and intertidal ecology, either alone or	removed during site preparation and installation works and would welcome	
	in-combination as a result of the proposed	clarification on this point to support the assumptions made within the	
	activities.	assessment.	
		Based on our comments in Appendix E of RR, we are unable to exclude the	
		potential for impacts to a number of designated benthic sites.	
MCZ Assessment			
NE-BEOFF-09	Screening – In relation to benthic and	There are a number of indirect impact pathways described in Appendix E of RR	Ongoing point of
	intertidal ecology, the MCZ assessment has	of our response which require further consideration.	discussion
	identified all relevant MCZs that may be		
	sensitive to changes as a result of the		



ID	Hornsea Four Position	Natural England Position	Position Summary
	proposed activities and the associated impacts.		
NE-BEOFF-10	Assessment Conclusion – In relation to benthic and intertidal ecology, the conclusion of no potential for significant impacts to Holderness Inshore MCZ and Holderness Offshore MCZ is appropriate.	Natural England notes that there is no information provided in relation to the likely disposal locations of material removed during site preparation and installation works and would welcome clarification on this point to support the assumptions made within the assessment. Based on our comments in Appendix E of RR, we are unable to exclude the potential for impacts to a number of designated sites. Please see Appendix E for further details.	As above
Draft DCO and Do	eemed Marine Licences		
NE-BEOFF-11	The wording of the following requirements and conditions pertaining to benthic and intertidal ecology are appropriate and adequate: • Part 2 - Condition 13(1(a) of DCO Schedules 11 and 12 with reference to a Design Plan; • Part 2 - Condition 13(1(c) of DCO Schedules 11 and 12 with reference to a Construction Method Statement; • Part 2 - Condition 13(1(d) of DCO Schedules 11 and 12 with reference to a Construction Project Environmental Management and Monitoring Plan; • Part 2 - Condition 13(1)(e) of DCO Schedules 11 and 12, Part 2 - Condition 13(1)(e) with reference to the development of a Scour Protection Management Plan; • Part 2 - Condition 13(1)(h) of DCO Schedules 11 and 12 with reference to a Cable Specification and Installation Plan;	Natural England expect to review and request additional amendments to the DCO as necessary as we move through examination.	Ongoing point of discussion



ID	Hornsea Four Position	Natural England Position	Position Summary
	• Part 1(6) of DCO Schedules 11 and 12 with		
	reference to a decommissioning plan.		
Other Matters			
NE-BEOFF-12	Monitoring – Appropriate monitoring	Depending on the outcome of the ongoing discussions highlighted above, there	Ongoing point of
	requirements have been identified and	may be a requirement for additional monitoring.	discussion
	presented in F2.7: Outline Marine Monitoring		
	Plan.		



3.4 Fish and Shellfish Ecology

Table 6: Agreement Log – Fish and Shellfish Ecology.

ID	Hornsea Four Position	Natural England Position	Position Summary
Environmental In	npact Assessment		
NE-FSEOFF-01	Existing and project-specific survey data is sufficient to	Natural England is broadly satisfied with data collected and baseline	Not Agreed – No
	inform the assessment.	characterisation, although note that some of the data are old (overall 10	material impact
		years) and would have liked the assessment to have been completed on up-	
		to-date information. Overall, we would defer to Cefas regarding the	
		suitability of data.	
		Natural England agree with the identification of herring and sandeel as key	
		species of concern that require species-specific assessments, owing to their	
		close affiliation with seabed sediments within the project boundary.	
NE-FSEOFF-02	The impact assessment methodologies used for the	Natural England has outstanding concerns relating to the EIA assessment	Ongoing point of
	EIA provide an appropriate approach to assessing	methodology.	discussion
	potential impacts of Hornsea Four.		
NE-FSEOFF-03	The maximum design scenario (MDS) presented in the	Natural England note that there are a number of instances whereby the MDS	Ongoing point of
	assessment is appropriate.	is based on conservative assumptions resulting in a larger project envelope	discussion
		rather than being underpinned and refined by survey data.	
NE-FSEOFF-04	The conclusions of the assessment of impacts for	As NE have outstanding concerns relating to the assessment methodology,	Ongoing point of
	construction, operation and decommissioning are appropriate.	we cannot fully support all of the assessment conclusions.	discussion
		The impact of habitat loss due to drill arising also needs to be assessed.	Ongoing point of
		, ,	discussion
		We have outstanding concerns around the predicted 'peak' Herring	Ongoing point of
		spawning season and the duration of the commitment to limit piling noise.	discussion
		New evidence has been published on the impacts of EMF on Shellfish	Ongoing point of
		therefore NE now advise this is scoped in for assessment.	discussion
NE-FSEOFF-05	The conclusions of the assessment of cumulative	It should be noted that Eastern Green Link and the Northern Endurance	Ongoing point of
	impacts are agreed.	Partnership should now be considered in Tier 2.	discussion
		It should also be noted that CEA may require updating, pending the	
		outcome of some of the updated 'project alone' assessments.	



ID	Hornsea Four Position	Natural England Position	Position Summary
		Certain impacts assessed for the project alone are not considered in the	Ongoing point of
		cumulative assessment as they are assessed as 'negligible' on a project	discussion
		alone basis, or 'highly localised nature of impact'. Natural England believe	
		these should be carried forward to the CEA or the Applicant needs to	
		provide further detail to justify the exclusion of these potential cumulative	
		impacts.	
NE-FSEOFF-06	Given the impacts of the project, the proposed	Natural England may request additional mitigation throughout the course of	Ongoing point of
	Commitments outlined in Volume A4, Annex 5.2:	the examination in order to address some of our outstanding concerns.	discussion
	Commitments Register are appropriate.	We also remain unclear as to the status of the Commitments Register and	
		how this document links to the DCO/DML i.e. whether the inclusion of	
		something on the commitments register negates the need for it to be	
		incorporated as a separate condition. Further clarification on this point from	
		Orsted and the regulators would be welcome.	
Report to Inform	Appropriate Assessment		
NE-FSEOFF-07	LSE Screening - The RIAA has identified all relevant	Natural England would have expected to see the migratory fish features of	Ongoing point of
	features of the designated sites (in relation to	the Humber Estuary considered in the LSE assessment.	discussion
	migratory fish) that may be sensitive to changes as a	Natural England still have concerns relating to the availability of prey items	
	result of the proposed activities.	which will have consequences for protected features such as birds & marine	
		mammals. Indirect affects assessments being submitted at a later deadline.	
NE-FSEOFF-08	Outcomes of the RIAA - Conclusion of no AEoI at any	Natural England does not consider it possible to carry out a meaningful	Not agreed – No
	sites is appropriate in relation to migratory fish, either	assessment of impacts to migrating lamprey as there are so many	material impact
	alone or in-combination as a result of the proposed	unknowns, however, given the distance from the associated designated sites	
	activities.	to the project area we would anticipate the risk to thee features to be low.	



ID	Hornsea Four Position	Natural England Position	Position Summary
Draft DCO and D	eemed Marine Licences		
NE-FSEOFF-09	The wording of the following requirements and conditions pertaining to fish and shellfish ecology are appropriate and adequate: • Part 2 - Condition 13(1(a) of DCO Schedules 11 and 12 with reference to a Design Plan; • Part 2 - Condition 13(1(c) of DCO Schedules 11 and 12 with reference to a Construction Method Statement; • Part 2 - Condition 13(1(d) of DCO Schedules 11 and 12 with reference to a Construction Project Environmental Management and Monitoring Plan; • Part 2 - Condition 13(1)(e) of DCO Schedules 11 and 12, Part 2 - Condition 13(1)(e) with reference to the development of a Scour Protection Management Plan; • Part 2 - Condition 13(1)(g) of DCO Schedules 11 and 12 with reference to a Marine Mammal Mitigation Protocol • Part 2 - Condition 13(1)(h) of DCO Schedules 11 and 12 with reference to a Cable Specification and Installation Plan; and • Part 1(6) of DCO Schedules 11 and 12 with reference to a decommissioning plan.	Natural England expect to review and request additional amendments to the DCO as necessary as we move through examination.	Ongoing point of discussion
NE-FSEOFF-10	The wording of the following requirements and conditions pertaining to Fish and Shellfish Ecology are appropriate and adequate: • Part 2 - Condition 18(2)(b) of DCO Schedules 11 and 12 with reference to construction noise monitoring is appropriate.	Natural England expect to review and request additional amendments to the DCO as necessary as we move through examination.	Ongoing point of discussion
NE-FSEOFF-11	The wording of the following requirements and conditions pertaining to Fish and Shellfish Ecology are appropriate and adequate:	We have outstanding concerns around the predicted 'peak' Herring spawning season and the duration of the commitment to limit piling noise.	Ongoing point of discussion



ID	Hornsea Four Position	Natural England Position	Position Summary
	Condition 23 of DCO Schedule 12 with reference		
	to a piling restriction between 1st September and		
	16 th October is appropriate.		
Other Matters			
NE-FSEOFF-12	Monitoring – Appropriate monitoring requirements		Ongoing point of
	have been identified and presented in F2.7: Outline		discussion
	Marine Monitorina Plan.		



3.5 Marine Mammals

Table 7: Agreement Log – Marine Mammals.

ID	Hornsea Four Position	Natural England Position	Position Summary
Environmental Im	npact Assessment		
NE-MMOFF-01	Existing and project-specific survey data is	We consider the data collected, when used in conjunction with other available	Agreed
	sufficient to inform the assessment.	data, is sufficient. We welcome the inclusion of the latest publications.	
NE-MMOFF-02	The impact assessment methodologies used for	Natural England has outstanding concerns relating to the EIA assessment	Ongoing point of
	the EIA provide an appropriate approach to	methodology.	discussion
	assessing potential impacts of Hornsea Four.		
NE-MMOFF-03	The maximum design scenario (MDS) presented	Natural England note that there are a number of instances whereby the MDS	Ongoing point of
	in the assessment is appropriate.	is based on conservative assumptions resulting in a larger project envelope	discussion
		rather than being underpinned and refined by survey data.	
NE-MMOFF-04	The Worst Case Scenario (WCS) of impact to this	Natural England agrees that the WCS has been assessed.	Agreed
	receptor which could occur within the		
	parameters of the MDS has been assessed.		
NE-MMOFF-05	The conclusions of the assessment of impacts	Natural England broadly agrees with the assessment outcomes.	Agreed
	for construction, operation and		
	decommissioning are agreed.		
NE-MMOFF-06	The conclusions of the assessment of	The list of projects screened into the CEA seems appropriate, however this	Ongoing point of
	cumulative impacts are agreed.	should be reviewed before the agreed cut-off date.	discussion
		It should be noted that Eastern Green Link and the Northern Endurance	
		Partnership should now be considered in Tier 2.	
		The Applicant has not provided sufficient justification to scope out vessel	
		collision risk and vessel disturbance for specific marine mammals. Further	
		justification should be provided and/or the pathways screened in.	
NE-MMOFF-07	Given the impacts of the project, the proposed	Natural England may request additional mitigation throughout the course of	Ongoing point of
	Commitments outlined in Volume A4, Annex	the examination in order to address some of our outstanding concerns.	discussion
	5.2: Commitments Register are appropriate.	We also remain unclear as to the status of the Commitments Register and	
		how this document links to the DCO/DML i.e. whether the inclusion of	
		something on the commitments register negates the need for it to be	
		incorporated as a separate condition. Further clarification on this point from	
		Orsted and the regulators would be welcome.	



Hornsea Four Position	Natural England Position	Position Summary
Appropriate Assessment		
The results of the HRA Screening in relation to marine mammals are agreed.	We consider that all relevant sites and receptors have been identified, however insufficient information has been provided to demonstrate no LSE to harbour seal in The Wash and North Norfolk Coast SAC from vessel collision risk.	Ongoing point of discussion
The conclusions of the assessment of adverse effect alone in relation to marine mammals are agreed.	Further information on vessel movements is required to demonstrate no likely significant effect (LSE) on the harbour seal feature of The Wash and North Norfolk Coast SAC as a result of vessel collision risk.	Ongoing point of discussion
	Assessment of concurrent piling submitted at Deadline 1 has increased the number of individuals at risk of PTS. The current mitigation proposed will not mitigate the full PTS zone as set out in the new assessment and should be revisited.	Ongoing point of discussion
The conclusions of the assessment of adverse effect in-combination in relation to marine mammals are agreed.	Natural England have outstanding concerns with the conclusions of the assessment of adverse effect in-combination in relation to marine mammals, including: Different tiers being used between the RiAA and CEA in the ES Seismic surveys have not been included.	Ongoing point of discussion
	There is an over-reliance on the SIP process to manage in-combination impacts to the SNS SAC.	Not agreed – Material impact
emed Marine Licences		
The wording of the following requirements and conditions pertaining to marine mammals are appropriate and adequate: • Part 2 - Condition 13(1(c) of DCO Schedules 11 and 12 with reference to a Construction Method Statement; • Part 2 - Condition 13(1(d) of DCO Schedules 11 and 12 with reference to a Construction Project Environmental Management and Monitoring Plan; • Part 2 - Condition 13(1)(d)(v) of DCO	Natural England expect to review and request additional amendments as necessary to the DCO as we move through examination.	Ongoing point of discussion
	The results of the HRA Screening in relation to marine mammals are agreed. The conclusions of the assessment of adverse effect alone in relation to marine mammals are agreed. The conclusions of the assessment of adverse effect in-combination in relation to marine mammals are agreed. The wording of the following requirements and conditions pertaining to marine mammals are appropriate and adequate: Part 2 - Condition 13(1(c) of DCO Schedules 11 and 12 with reference to a Construction Method Statement; Part 2 - Condition 13(1(d) of DCO Schedules 11 and 12 with reference to a Construction Project Environmental Management and Monitoring Plan;	The results of the HRA Screening in relation to marine mammals are agreed. We consider that all relevant sites and receptors have been identified, however insufficient information has been provided to demonstrate no LSE to harbour seal in The Wash and North Norfolk Coast SAC from vessel collision risk. The conclusions of the assessment of adverse effect alone in relation to marine mammals are agreed. Further information on vessel movements is required to demonstrate no likely significant effect (LSE) on the harbour seal feature of The Wash and North Norfolk Coast SAC as a result of vessel collision risk. Assessment of vessel collision risk. Assessment of concurrent piling submitted at Deadline 1 has increased the number of individuals at risk of PTS. The current mitigation proposed will not mitigate the full PTS zone as set out in the new assessment and should be revisited. Natural England have outstanding concerns with the conclusions of the assessment of adverse effect in-combination in relation to marine mammals, including: • Different tiers being used between the RiAA and CEA in the ES • Seismic surveys have not been included. There is an over-reliance on the SIP process to manage in-combination impacts to the SNS SAC. The wording of the following requirements and conditions pertaining to marine mammals are appropriate and adequate: • Part 2 - Condition 13(1(d) of DCO Schedules 11 and 12 with reference to a Construction Method Statement; • Part 2 - Condition 13(1(d) of DCO Schedules 11 and 12 with reference to a Construction Project Environmental Management and Monitoring Plan; • Part 2 - Condition 13(1(d) of DCO Schedules 11 and 12 with reference to a Construction Project Environmental Management and Monitoring Plan; • Part 2 - Condition 13(1(d) of DCO Schedules 11 and 12 with reference to a Construction Project Environmental Management and Monitoring Plan;



ID	Hornsea Four Position	Natural England Position	Position Summary
	• Part 1(6) of DCO Schedules 11 and 12 with		
	reference to a decommissioning plan.		
NE-MMOFF-12	The wording of the following requirements and	This condition secures the use of a Site Integrity Plan so that in combination	Ongoing point of
	conditions pertaining to marine mammals are	projects and the project alone do not have an adverse effect on the integrity	discussion
	appropriate and adequate:	of the Southern North Sea Special Area of Conservation (SNS SAC). This	
	• Part 2 - Condition 13(j) of DCO Schedules 11	condition is linked to condition 14 which requires the document to be	
	and 12 with reference to a site integrity plan	produced no later than 4 months prior to commencement. We consider that it	
	is appropriate.	should be restricted to a requirement of no sooner than 9 months and no later	
		than 6 months prior to commencement.	
NE-MMOFF-13	The wording of the following requirements and	Natural England expect to request additional amendments to the DCO as we	Ongoing point of
	conditions pertaining to marine mammals are	move through examination.	discussion
	appropriate and adequate:		
	• Part 2 - Condition 13(1)(g) of DCO Schedules		
	11 and 12 with reference to a Marine		
	Mammal Mitigation Protocol is appropriate.		
NE-MMOFF-14	The wording of the following requirements and	Natural England expect to request additional amendments to the DCO as we	Ongoing point of
	conditions pertaining to marine mammals are	move through examination.	discussion
	appropriate and adequate:		
	• Part 2 - Condition 18(2)(b) of DCO Schedules		
	11 and 12 with reference to construction		
	noise monitoring is appropriate.		
Other Matters			
NE-MMOFF-15	Monitoring – Appropriate monitoring		Ongoing point of
	requirements have been identified and		discussion
	presented in F2.7: Outline Marine Monitoring		
	Plan.		



3.6 Seascape, Landscape and Visual Resources

Table 8: Agreement Log — Seascape, Landscape and Visual Resources.

ID	Hornsea Four Position	Natural England Position	Position Summary
Environmental Im	pact Assessment		
NE-SVROFF-01	The scoping out of seascape, landscape and visual	Natural England considers that the development does not have	Agreed
	resources impacts in relation to the array area is agreed,	the potential to impact on the special character of the	
	including the cumulative assessment.	Flamborough Head Heritage Coast (FHHC) and its seascape	
		setting.	
NE-SVROFF-02	The scoping out of seascape, landscape and visual	Natural England considers that the development does not have	Agreed
	resources impacts in relation to the HVAC booster	the potential to impact on the special character of the	
	station(s) is agreed, including the cumulative assessment.	Flamborough Head Heritage Coast (FHHC) and its seascape	
		setting.	
Draft DCO and De	eemed Marine Licences		
NE-SVROFF-03	The wording of the following requirements and	Agreed.	Agreed
	conditions pertaining to Seascape, Landscape and Visual		
	Resources are appropriate and adequate:		
	Part 2 - Condition 22 of DCO Schedule 12 with		
	reference to a HVAC booster station lighting plan is		
	appropriate.		



3.7 Other Documents and Plans

Table 9: Agreement Log – Other Documents and Plans.

ID	Hornsea Four Position	Natural England Position	Position Summary
Outline Marine Mam	nmal Mitigation Protocol		
NE-OTHEROFF-01	F2.5 Outline Marine Mammal Mitigation Protocol	The Outline Marine Mammal Mitigation Protocol	Ongoing point of
	provides an appropriate framework for securing marine	(OMMMP) includes an appropriate range of mitigation	discussion
	mammal mitigation measures in agreement with	measures, however further discussion is needed with	
	Statutory Nature Conservation Bodies (SNCBs) and the	regards to Acoustic Deterrence Device (ADD) duration	
	MMO prior to construction.	and the use of bubble curtains and noise abatement	
		systems. We also suggest the Applicant consider the	
		use of Passive Acoustic Monitoring (PAM). Further, none	
		of these mitigation measures have currently been	
		committed to.	
Outline Marine Mon	toring Plan		
NE-OTHEROFF-02	F2.7 Outline Marine Monitoring Plan provides an	Aspects of the OMMP remain extremely short and	Ongoing point of
	appropriate framework to agree monitoring with	lacking in detail. There has been no consideration of the	discussion
	SNCBs and the MMO prior to construction.	areas of the assessment where assumptions have been	
		made and where the project could contribute to filling	
		knowledge gaps (for example, with regards to	
		operational WTG noise levels, or the assumed	
		distribution of bottlenose dolphin close to the coast).	
		We recommend that the OMMP is kept live during	
		examination so an updated, final version can be	
		provided capturing the results of further discussion.	
Outline Southern No	orth Sea Special Area of Conservation Site Integrity Plan		
NE-OTHEROFF-03	F2.11 Outline Southern North Sea Special Area of	The Applicant proposes that mitigation commitments	Not agreed –
	Conservation Site Integrity Plan provides an	will be managed post-consent via the implementation	Material impact
	appropriate framework to agree mitigation measures	of the SIP prior to construction. Natural England have	
	for effects on the Southern North Sea SAC with SNCBs	significant concerns over the feasibility of adding	
	and the MMO prior to construction.	mitigation at this late stage when decisions around	
		cost, equipment type etc. have already been made. We	
		consider that mitigation should be committed to at this	



ID	Hornsea Four Position	Natural England Position	Position Summary
		stage within the SIP and MMMP to allow resource to be	
		planned for. We consider there to be an over-reliance	
		on the SIP process to manage in-combination impacts	
		to the SNS SAC.	
HVAC Booster Stati	on Lighting Plan		
NE-OTHEROFF-04	F2.17 HVAC Booster Station Lighting Plan provides an	Agreed.	Agreed
	appropriate framework to secure the lighting		
	requirements for the HVAC booster station(s) to ensure		
	that the night-time effects on the setting of the		
	Flamborough Head Heritage Coast will not be		
	significantly adverse.		

4 Summary

- 4.1.1.1 This SoCG has outlined the consultation that has taken place between the Applicant and Natural England during the pre-application phase. The agreement logs present the positions reached between Hornsea Four and Natural England in relation to relevant other offshore matters.
- 4.1.1.2 This SoCG will be updated as discussions progress and made available to PINS as requested through the DCO examination phase.