

Hornsea Project Four

Statement of Common Ground between Hornsea Project Four and the Marine Management Organisation

Deadline: 1, Date: 8 March 2022

Document Reference: G1.17

Revision: 01

Prepared GoBe Consultants, February 2022

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Accepted David King, Ørsted, 08 March 2022
Approved Julian Carolan, Ørsted, March 2022

G1.17 Revision 01



Revision History

Date	Revision	Reason for issue
08 March 2022	01	First draft for review
	02	
	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
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
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 the Marine Management Organisation (MMO) 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 all topics of relevance to the MMO in the marine environment seaward of Mean High Water Springs (MHWS).
- 1.1.1.3 The need for a SoCG between the Applicant and the MMO is set out within the Rule 6 letter issued by the Planning Inspectorate (PINS) on 24 January 2022.
- 1.1.1.4 Following detailed discussions undertaken through the Evidence Plan Process, the Applicant and the MMO have sought to progress a SoCG. It is the intention that this document will provide PINS with a clear overview of the level of common ground between both parties. This document will facilitate further discussions between the Applicant and the MMO 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 the MMO 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.
- 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 The Marine Management Organisations remit

1.3.1.1 The elements of Hornsea Four which may affect the interests of the MMO are Work Numbers 1 to 5, covering the intertidal (seaward of MHWS) and offshore works. These are detailed in



Part 1 (Authorised Development) of Schedule 1 (Authorised Project) of the draft DCO (C1.1: Draft DCO including Draft DML).

- 1.3.1.2 This SoCG covers technical topics of the DCO application of relevance to the MMO comprising:
 - Draft DCO and Deemed Marine Licences (non-EIA topic-specific);
 - Marine Geology, Oceanography and Physical Processes;
 - Benthic & Intertidal Ecology;
 - Fish and Shellfish Ecology;
 - Marine Mammals/Underwater Noise; and
 - Outline Plan Documents.
- 1.3.1.3 It is agreed that, whilst the MMO retains an interest in the following areas with respect to the provisions set out in the DCO and DMLs, the MMO defers to other parties for the following topics and has made little or no comment in relation to the technical assessments associated with them. Agreement logs have not been presented for these topics:
 - Shipping and Navigation;
 - Commercial Fisheries;
 - Seascape, Landscape and Visual;
 - Aviation, Military and Communications;
 - Marine Archaeology;
 - Offshore and Intertidal Ornithology;
 - Without Prejudice Derogation Case and
 - Infrastructure and Other Users.

1.4 Overview of Hornsea Four

- 1.4.1.1 Hornsea Four is an offshore wind farm which will be located approximately 65 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 High Voltage
 Alternating Current (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 High
 Voltage Direct Current (HVDC) converter/HVAC substation, energy balancing
 infrastructure and connections to the National Grid) will be located.



2 Consultation

2.1 Summary of consultation with the Marine Management Organisation

2.1.1.1 **Table 1** below summarises the consultation that the Applicant has undertaken with the MMO during the pre-application phase for each relevant component of the application (as identified in **paragraph 1.3.1.1**) seaward of MHWS.

Table 1: Summary of pre-application consultation with the MMO.

Date	Form of consultation	Statutory/Non Statutory	Summary
07/08/2018	Meeting	Non Statutory	Evidence Plan Steering Group Meeting 1
000.2020		. 1011 01414101.9	Introduction to the proposed project and project teams and
			summary, reflections, agreement and sign off on the Terms of
			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. An
			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 the MMO.
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 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	Marine Mammals Evidence Plan Technical Panel Meeting 3
			Project updates, review of responses received during the
			Scoping process. Discuss the next steps in relation to seeking
			agreement with stakeholders on the data and information to be
			included in the PEIR and ES.



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	MMO 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
	1	1	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
10/05/0001		\\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	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
01/10/0000		\\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	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
11/05/2021	Ma atia a	NI Ct-t-t	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
17/0F/2021	Mootin -	Non Ctatut	change to Order Limits. Marine Ecology and Processes Technical Panel Meeting 5A —
13/05/2021	Meeting	Non Statutory	i marine ecology and Processes Technical Panel Meeting SA —



Date	Form of	Statutory/Non	Summary
	consultation	Statutory	
			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.





3 Agreement Log

3.1 Overview

- 3.1.1.1 The following sections set out the level of agreement between the Applicant and the MMO, 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 2** below is used within the 'position' column of the following sections of this document.

Table 2: 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
The matter is not agreed between the parties, however the outcome of the approach	material impact
taken by either the Applicant or the MMO is not considered to result in a material	
impact to the assessment conclusions.	
Not Agreed – material impact	Not Agreed – material
The matter is not agreed between the parties and the outcome of the approach taken	impact
by either the Applicant or the MMO is considered to result in a materially different	
impact to the assessment conclusions.	
Ongoing point of discussion	Ongoing point of
The matter is neither 'agreed' nor 'not agreed' and is a matter where further discussion	discussion
is required between the parties (e.g. where documents are yet to be shared with the	
MMO).	



3.2 Draft DCO and Deemed Marine Licences (non-EIA topic specific)

Table 3: Agreement Log: Draft DCO and Deemed Marine Licences.

ID	Hornsea Four Position	MMO's Position	Position Summary
MMO-DCO-01	The wording of the following Article	The dDCO contains 2 DMLs consisting of one for the generation assets (Schedule 11) and one for the	Ongoing point of
	is appropriate and adequate:	transmission assets (Schedule 12). Splitting the assets into two separate DMLs ensures smooth transitions	discussion
	Benefit of the Order (DCO: Article	during the transfer of benefit. If a transfer of benefit were to happen, it is unclear what mechanisms	
	5, Part 2, Principal Powers).	would be in place to ensure two different asset holders working in the same area would collaborate	
		together, especially with regard to in-combination effects. This is considered a potential risk to the	
		project by the MMO. The MMO is therefore considering requesting the inclusion of a collaboration	
		condition to go within the DML. The MMO will confirm this within it's next written response.	
		The MMO ultimately defers to the Secretary of State, however, believes that eight weeks is too short of	
		a timescale to include full consultation.	
		The MMO does not agree with Article 5 in its current form. The MMO highlights that once a DCO is	
		consented the DMLs become standalone consent to be administered by the MMO and governed by the	
		MCAA 2009.	
		The MMO requests justification or rationale as to why these provisions and a deviation from the	
		provisions of Marine and Coastal Access Act 2009 ("MCAA 2009") are required for the purpose of the two	
	4	DMLs for this project.	
MMO-DCO-02	The wording of the following	The MMO has concerns over these timescales as it is not enough time to fully assess and review	Ongoing point of
	Condition is appropriate and	documents and therefore request that this is changed to six months.	discussion
	adequate:		
	Part 2, Condition 14 of DCO		
	Schedules 11 and 12 regarding		
	the timescales associated with		
	the submission of documentation.		
MMO-DCO-03	The wording of the following Articles	The MMO strongly considers that the activities authorised under the dDCO and DML should be limited to	Ongoing point of
	is appropriate and adequate:	those that are assessed within the EIA, and so the statement within the DML "unlikely to give rise to any	discussion
	Amendments to approved details	materially new or materially greater environmental effects" should be updated to clarify this.	
	(DCO: Article 30, Part 3); and		
	Part 1, Article 9 of DCO		
	Schedules 11 and 12 regarding		



ID	Hornsea Four Position	MMO's Position	Position Summary
	the materiality of amendments		
	to or variations from the		
	approved details.		
MMO-DCO-04	The interpretations of all terms		Ongoing point of
	within the following sections of the		discussion
	DCO and DMLs are appropriate and		
	adequate:		
	Article 2, Part 1 of C1.1: Draft		
	DCO including Draft DML;		
	Condition 1, Part 1 of Schedule		
	11 of C1.1: Draft DCO including		
	Draft DML; and		
	Condition 1, Part 1 of Schedule		
	12 of C1.1: Draft DCO including		
	Draft DML.		
MMO-DCO-05	The wording of the following Article	It is the MMO's position that the ES should be updated at the end of Examination. This is because	Ongoing point of
	is appropriate and adequate:	throughout the Examination process further information can be requested and provided by the Applicant	discussion
	Certification of plans and	that directly links to the conclusions of the ES, including addendums to chapters etc.	
	documents, etc. (DCO: Article 38,	The MMO understands that this can be a large undertaking but believes it is paramount so that these	
	Part 7, Miscellaneous and	updates can be easily identified as part of the Environmental Statement and as a Certified document.	
	General).	The MMO welcomes Article 38 to reference Schedule 15 for the Certified documents and plans as this	
		would help with clarity at the post consent stage. The MMO will review the updated Schedule 15 once	
		this has been updated further.	
MMO-DCO-06	The wording of the following Article	The MMO believes that this condition should be updated to include the following wording at the start:	Ongoing point of
	is appropriate and adequate:	"Subject to article 42 (saving provisions for Trinity House) any difference"	discussion
	Arbitration (DCO: Article 39, Part		
	7, Miscellaneous and General).		
MMO-DCO-07	The wording of the following		Ongoing point of
	Schedule is appropriate and		discussion
	adequate:		
	Authorised Project (DCO:		
	Schedule 1)		



ID	Hornsea Four Position	MMO's Position	Position Summary
MMO-DCO-08	The wording of the following		Ongoing point of
	Schedule is appropriate and		discussion
	adequate:		
	Deemed Marine Licence Under		
	The 2009 Act— Generation		
	Assets (DCO: Schedule 11)		
MMO-DCO-09	The wording of the following		Ongoing point of
	Schedule is appropriate and		discussion
	adequate:		
	Deemed Marine Licence Under		
	The 2009 Act— Transmission		
	Assets (DCO: Schedule 12)		





3.4 Marine Geology, Oceanography and Physical Processes

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

ID	Hornsea Four Position	MMO's Position	Position Summary
Environmenta	l Impact Assessment		
MMO-MP-01	Existing and project-specific survey data is sufficient to inform the assessment.	The MMO believes that further information should be provided to provide enough evidence on the baseline.	Ongoing point of discussion
MMO-MP-02	The impact assessment methodologies used for the EIA provide an appropriate approach to assessing potential impacts of Hornsea Four.	Adverse effects, in terms of coastal processes, are identified and then linked via a pathway to a sensitive receptor (the SPR (Source-Pathway-Receptor) methodology). Therefore, whilst there maybe adverse impacts locally around (say) a structure, if no receptor is nearby, no adverse impact is assumed and thus is discounted. In this project many of the impactors are offshore are thus discounted. However, the MMO still has major concerns about the cumulative impact of cables crossing Smithic Bank.	Ongoing point of discussion
MMO-MP-03	The maximum design scenario (MDS) presented in the assessment is appropriate.	The Maximum Design Scenario ("MDS") has correctly used the use of GBS as its worst realistic scenario as this involves large structures (conical concrete structures) and significant abouts of seabed preparation. In the offshore GBS/Monopile/jacket zone the MMO agrees with the conclusion except for those associated with the potential changes to Flamborough Front.	Ongoing point of discussion
MMO-MP-04	The conclusions of the assessment of impacts for construction, operation and decommissioning are agreed.	Except for the Smithic Holderness export cable area with Dogger Bank A+B export cables there is not an adequate description of the potential cumulative and interrelated impacts and effects on the physical and biological environment.	Ongoing point of discussion
MMO-MP-05	The conclusions of the assessment of cumulative impacts are agreed.	Except for the Smithic Holderness export cable area with Dogger Bank A+B export cables there is not an adequate description of the potential cumulative and interrelated impacts and effects on the physical and biological environment.	Ongoing point of discussion
MMO-MP-06	Given the impacts of the project, the proposed Commitments outlined in Volume A4, Annex 5.2: Commitments Register are appropriate.		Ongoing point of discussion
Draft DCO and	Deemed Marine Licences		
MMO-MP-01	The wording of the following requirements and conditions pertaining to marine geology, oceanography and physical processes are appropriate and adequate:		Ongoing point of discussion



ID	Hornsea Four Position	MMO's Position	Position Summary
	• 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.		
Other Matte	ers		





3.5 Benthic & Intertidal Ecology

Table 5: Agreement Log: Benthic & Intertidal Ecology.

ID	Hornseg Four's Position	MMO's Position	Position Summany	
		MMO s Position	Position Summary	
	ronmental Impact Assessment			
MMO-BE-01	Existing and project-specific survey data is sufficient to inform	The MMO believes that the intertidal survey and subsequent characterisation	Ongoing point of	
	the assessment.	are appropriate.	discussion	
		The Array and export cable corridor have been characterised using a		
		combination of historical data, geophysical data, drop down video ("DDV") (for		
		fauna and sediments at all stations and Annex I stony reef under a separate		
		survey design) and grab (for fauna and sediment composition). Each of the		
		locations sampled by grab (and DDV) have been assigned a European nature		
		information system ("EUNIS") biotope and corresponding JNCC Marine Nature		
		Conservation Review ("MNCR") biotope classification. All information has been		
		used to develop predictive habitat distributions across the Project area. Whilst		
		this is a sensible approach, which has been alluded to in previous		
		consultations, the MMO has major concerns regarding some of the		
		classifications and model outputs following review of the raw data. The MMO		
		also believes that further information should be brought through into the ES		
		chapter to provide evidence for the classifications and model outputs.		
MMO-BE-02	The impact assessment methodologies used for the EIA provide		Ongoing point of	
	an appropriate approach to assessing potential impacts of		discussion	
	Hornsea Four.			
MMO-BE-03	The maximum design scenario (MDS) presented in the		Ongoing point of	
	assessment is appropriate.		discussion	
MMO-BE-04	The conclusions of the assessment of impacts for construction,		Ongoing point of	
	operation and decommissioning are agreed.		discussion	
MMO-BE-05	The conclusions of the assessment of cumulative impacts are		Ongoing point of	
	agreed.		discussion	
MMO-BE-06	Given the impacts of the project, the proposed Commitments		Ongoing point of	
	outlined in Volume A4, Annex 5.2: Commitments Register are		discussion	
	appropriate.		2.12.2300.01.	
	арргорнате.	<u>I</u>		



Draft DCO and Deemed Marine Licences

MM	O-B	E-07
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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; and
- Part 1(6) of DCO Schedules 11 and 12 with reference to a decommissioning plan.

Ongoing point of discussion

Other Matters





3.6 Fish & Shellfish Ecology

Table 6: Agreement Log: Fish & Shellfish Ecology.

ID	Hornsea Four Position	MMO's Position	Position Summary
Environmental	Impact Assessment		
MMO-FSE-01	Existing and project-specific survey data is sufficient to inform the	The MMO believes an appropriate characterisation of the environment for	Ongoing point of
	assessment.	fisheries and fish ecology has been presented.	discussion
MMO-FSE-02	The impact assessment methodologies used for the EIA provide		Ongoing point of
	an appropriate approach to assessing potential impacts of		discussion
	Hornsea Four.		
MMO-FSE-03	The maximum design scenario (MDS) presented in the assessment	A clear and detailed project description has been presented within Chapter	Ongoing point of
	is appropriate.	4. There are a number of elements of the infrastructure that have yet to be	discussion
		determined as the project design is still evolving, however, the options for	
		the various infrastructure appear to have been appropriately considered in	
		the EIA process, for example, maximum design scenarios, depending on the	
		different infrastructure or different construction methods being selected	
		for the project.	
MMO-FSE-04	The conclusions of the assessment of impacts for construction,		Ongoing point of
	operation and decommissioning are agreed.		discussion
MMO-FSE-05	The conclusions of the assessment of cumulative impacts are	The MMO is currently unable to agree with the conclusions reached on	Ongoing point of
	agreed.	cumulative impacts of noise on fish. This is primarily due to the lack of	discussion
		appropriate modelling to assess the extent of behavioural effects of piling	
		on fish, and because the mitigation currently proposed (a temporal piling	
		restriction for the HVAC booster station) is not considered adequate	
		mitigation to protect spawning herring and their eggs and larvae. Please	
		see detailed comments in sections 3.7.21 to 3.7.24 regarding modelling of	
		behavioural effects and sections 3.7.25 to 3.7.25 regarding the timing of	
		the Banks herring spawning season.	
MMO-FSE-06	Given the impacts of the project, the proposed Commitments		Ongoing point of
	outlined in Volume A4, Annex 5.2: Commitments Register are		discussion
	appropriate.		



ID	Hornsea Four Position	MMO's Position	Position Summary
Draft DCO an	d Deemed Marine Licences		
MMO-FSE-07	 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. 		Ongoing point of discussion
MMO-FSE-08	Part 2 - Condition 18(2)(b) of DCO Schedules 11 and 12 with reference to construction noise monitoring is appropriate.		Ongoing point of discussion
MMO-FSE-09	Condition 23 of DCO Schedule 12 with reference to a piling restriction between 1 st September and 16 th October is appropriate.	The MMO supports the proposed piling restriction as a form of mitigation to protect spawning herring and their eggs and larvae from the impacts of noise and vibration. However, the MMO does not agree with the proposed dates of the restriction (1st September and 16th October). The MMO	Ongoing point of discussion



3.7 Marine Mammals/Underwater Noise

Table 7: Agreement Log: Marine Mammals/Underwater Noise.

ID	Hornsea Four Position	MMO's Position	Position Summary		
Environmenta	Environmental Impact Assessment				
MMO-MM-01	Existing and project-specific survey data is sufficient to inform the	The MMO defers to Natural England on if the existing environment	Ongoing point of		
	assessment.	(baseline) has been characterised appropriately.	discussion		
MMO-MM-02	The impact assessment methodologies used for the EIA provide		Ongoing point of		
	an appropriate approach to assessing potential impacts of		discussion		
	Hornsea Four.				
MMO-MM-03	The maximum design scenario (MDS) presented in the assessment		Ongoing point of		
	is appropriate.		discussion		
MMO-MM-04	The conclusions of the assessment of impacts for construction,		Ongoing point of		
	operation and decommissioning are agreed.		discussion		
MMO-MM-05	The conclusions of the assessment of cumulative impacts are		Ongoing point of		
	agreed.		discussion		
MMO-MM-06	Given the impacts of the project, the proposed Commitments		Ongoing point of		
	outlined in Volume A4, Annex 5.2: Commitments Register are		discussion		
	appropriate.				
Draft DCO and	Deemed Marine Licences				
MMO-MM-07	The wording of the following requirements and conditions		Ongoing point of		
	pertaining to marine mammals are appropriate and adequate:		discussion		
	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 Schedules 11 and 12 with				
	reference to a Vessel Management Plan; and				
	Part 1(6) of DCO Schedules 11 and 12 with reference to a				
	decommissioning plan.				



ID	Hornsea Four Position	MMO's Position	Position Summary
MMO-MM-08	Part 2 - Condition 13(j) of DCO Schedules 11 and 12 with		Ongoing point of
	reference to a site integrity plan is appropriate.		discussion
MMO-MM-08	Part 2 - Condition 13(1)(g) of DCO Schedules 11 and 12 with		Ongoing point of
	reference to a Marine Mammal Mitigation Protocol is appropriate.		discussion
MMO-MM-09	Part 2 - Condition 18(2)(b) of DCO Schedules 11 and 12 with		Ongoing point of
	reference to construction noise monitoring is appropriate.		discussion
Other Matters			





3.8 Outline Plan Documents

Table 8: Agreement Log: Outline Plan Documents.

ID	Hornsea Four Position	MMO's Position	Position Summary
MMO-OP-01	The Outline Marine Mammal Mitigation	The MMO disagrees with the approach [focusing on mitigating only the "instantaneous" SPLpeak	Ongoing point of
	Protocol is appropriate and adequate.	PTS-onset impact ranges]. The MMMP should focus on mitigating both the predicted SPLpeak and	discussion
		SELcum impact ranges.	
		The MMO would expect the commitment to providing at source reduction measures to be included	
		within the Commitment Register but was unable to find this mentioned specifically. The MMO	
		requests that this is updated to reflect this commitment and that this is captured within the DML.	
		The MMO notes that despite the arguments put forward by the Project, it does appear that they	
		are committed to reducing the risk of cumulative PTS and this will be appropriately considered	
		within the MMMP. As above the MMO welcomes this.	
MMO-OP-02	The Outline Southern North Sea Special Area	The MMO defers to Natural England at this stage on what should be included within the Outline SIP	Ongoing point of
	of Conservation Site Integrity Plan is	document.	discussion
	appropriate and adequate.	However, the MMO highlights that if consented the MMO would require further information within	
		the SIP document to include in-combination management measures. This would include any	
		potential additional requirements the MMO believes are necessary to enable the guidance to be	
		followed and could include additional reporting requirement	
MMO-OP-03	The Dredging and Disposal Site	The environment surrounding the proposed dredge area has been thoroughly characterised in	Ongoing point of
	Characterisation is appropriate and adequate.	terms of both physical and chemical composition, based on a sampling regime conducted in 2019,	discussion
		which is appropriate.	
		The ES concludes that potential impacts related to dredging and disposal operations are	
		negligible. The MMO agrees with this conclusion, based on the information provided.	
		However, comments are still outstanding regarding the inclusion of details relating to the sampling	
		and analysis of marine sediment from within the proposed dredge area.	
MMO-OP-04	The Outline Marine Monitoring Plan is		Ongoing point of
	appropriate and adequate.		discussion
MMO-OP-05	The Outline Fisheries Coexistence and Liaison	The MMO notes the Outline Fisheries Liaison and Coexistence Plan will be developed further at the	Ongoing point of
	Plan is appropriate and adequate.	post consent stage, however, the MMO believes the Applicant can provide further detail at this	discussion
		stage.	