

Hornsea Project Four

Statement of Common Ground between Hornsea Project Four, the Holderness Fishing Industry Group and the National Federation of Fisherman's Organisations

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10/05/2022	03	Updated draft for discussion with HFIG and NFFO and submission at	
		Deadline 4.	
20/06/2022	04	Final draft for submission at Deadline 5.	
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Glossary

Term	Definition	
The Applicant	Orsted Hornsea Project Four Limited	
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.	

Acronyms

Acronym	Definition
DCO	Development Consent Order
EIA	Environmental Impact Assessment
HFIG	Holderness Fishing Industry Group
HVAC	High Voltage Alternating Current
HVDC	High Voltage Direct Current
MDS	Maximum Design Scenario
MHWS	Mean High Water Springs
MLWS	Mean Low Water Springs
NFFO	National Federation of Fisherman's Organisations
PEIR	Preliminary Environmental Information Report
PINS	Planning Inspectorate
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'), the Holderness Fishing Industry Group (HFIG) and the National Federation of Fisherman's Organisations (NFFO) to set out the areas of agreement and disagreement between the three parties in relation to the proposed 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 and interest to the HFIG and the NFFO in the marine environment seaward of Mean High Water Springs (MHWS).
- 1.1.1.3 The need for a SoCG between the Applicant, the HFIG and the NFFO is set out within the Rule 6 letter issued by the Planning Inspectorate (PINS) on 24 January 2022.
- 1.1.4 It is the intention that this document will facilitate further discussions between the Applicant, the HFIG and the NFFO and will provide the Examining Authority (ExA) with a clear overview of the level of common ground between all parties. This SoCG will be updated as discussions progress during the 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 application for development consent. The Impacts Register (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, Preliminary Environmental Information Report (PEIR) and DCO). In line with the Applicant's approach to proportionality, only Likely Significant Effects are included within the individual topic assessments of the Environmental Statement (ES).
- 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 Holderness Fishing Industry Group and the National Federation of Fisherman's Organisations remits

- 1.3.1.1 The elements of Hornsea Four which may affect the interests of the HFIG and the NFFO 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 focuses on specific issues relating to commercial fishing which have been raised during consultation undertaken in respect of Hornsea Four by the HFIG and the NFFO. In line



with the information provided by the HFIG and the NFFO in their Relevant Representations (PINS Reference AS-025 and PINS Reference AS-026, respectively), key areas of outstanding concern and therefore taken forward for consideration in the SoCG, include:

- Fish and Shellfish Ecology; and
- Commercial Fisheries.

1.4 Overview of Hornseg 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.
- 1.4.1.2 Key maximum design scenarios and assumptions for Hornsea Four offshore wind farm in relation to commercial fisheries are summarised below and described in full in Volume A2, Chapter 6: Commercial Fisheries:

Hornsea Four array area:

- o 110 with GBS Wind Turbine Generators (WTG) type foundations;
- \circ 70 suction caisson jacket (WTG type) foundations;
- o Minimum turbine spacing of 810 m;
- o Nine offshore substations and one accommodation platform;
- o 500 m exclusion zones around construction activities;
- o 50 m exclusion zones around incomplete structures;
- o 600 km length array cables and 90 km length interconnector cables;
- Roaming 500 m safe passing distance for mobile installation vessels, which may, in exceptional circumstances, be increased to 1,000 m dependant on the nature of the installation works.

• Hornsea Four offshore export cable corridor

- o Three HVAC booster stations:
- o 500 m exclusion zones around construction activities;
- o 50 m exclusion zones around incomplete structures;



- o 654 km length export cables;
- Roaming 500 m safe passing distance for mobile installation vessels, which may, in exceptional circumstances, be increased to 1,000 m dependant on the nature of the installation works.

2 Consultation

2.1 Summary of consultation with the Holderness Fishing Industry Group and the National Federation of Fisherman's Organisations

2.1.1.1 **Table 1** below summarises the consultation that the Applicant has undertaken with the HFIG and the NFFO 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 HFIG and the NFFO.

Date	Form of	Statutory/Non	Summary	
	consultation	Statutory		
10 July 2018	Meeting	Non-Statutory	Hornsea Project One Offshore Wind Farm, Hornsea Project Tw	
			Offshore Wind Farm & Hornsea Four project update meeting –	
			Hornsea Four update meeting 1:	
			Concern raised over details of fishing patterns and sensitivity of	
			the fleet.	
19	Meeting	Non-Statutory	Hornsea Project One, Hornsea Project Two & Hornsea Four	
September			project update meeting — Hornsea Four update meeting 2:	
2018			Concern raised regarding cumulative impact of Hornsea Projec	
			One and Hornsea Project Two	
24 January	Meeting	Non-Statutory	Hornsea Project One, Hornsea Project Two & Hornsea Four	
2019			project update meeting – Hornsea Four update meeting 3:	
			Discussion around construction timings and specific locations of	
			construction activities for Hornsea One and Two and	
			forthcoming Hornsea Four surveys.	
16 April 2019	Meeting	Non-Statutory	Hornsea Project One, Hornsea Project Two & Hornsea Four	
			project update meeting — Hornsea Four update meeting 4:	
			Discussion around phasing of gear clearance to facilitate Hornse	
			Four surveys.	
02 May 2019	Meeting	Non-Statutory	Hornsea Project One, Hornsea Project Two & Hornsea Four	
			project update meeting — Hornsea Four update meeting 5:	
			Discussion of timings of gear clearance and key areas of	
			commercial fisheries activity.	
20 August	Meeting	Non-Statutory	Hornsea Project One, Hornsea Project Two & Hornsea Four	
2019			project update meeting — Hornsea Four update meeting 6:	
			Review of the previous year and discussion of timings of gear	
			clearance and key areas of commercial fisheries activity for the	
			upcoming 2020 surveys.	
20	Section 42	Statutory	Section 42 Response	
September	Response		A concern was raised regarding the Hornsea Four array area	
2019			being in an area where the offshore fleet targets predominately	
			edible crab with smaller catches of lobster. The pitfalls of using	



Hornsea Project Four

Applicant's Statement of Commonality of Statements of Common Ground

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Date	Form of	Statutory/Non	Summary
	consultation	Statutory	
			Vessel Monitoring System (VMS) data combined with the North
			East Inshore Fisheries and Conservation Authority (NE IFCA)
			sightings leading to underestimations of fleet size and vessels
			working in the area was also raised.
24	Section 42	Statutory	Section 42 Response
September	Response		Raised several concerns regarding applying Magnitude Criteria,
2019			missing activities from the construction phase assessment, the
			worst-case scenario presented for the operation and
			maintenance phase and associated wording, the impact of
			cables on businesses, missing measures from the cumulative
			effects assessment, and co-existence issues, for which several
20	Maatina	Non-Statutory	commitments were suggested to address this.
November	Meeting	Non-Statutory	Hornsea Four Update Meeting Presentation on updates on Hornsea Four since the Preliminary
2019			Environmental Impact Report (PEIR), and discussion around the
2019			Section 42 comments, effects on potting vessels, industry
			perception on the importance of the offshore areas for brown
			crab, and clarity on safety zones, manned platforms, and
			maintenance regimes.
6 December	Meeting	Non-Statutory	Hornsea Project One, Hornsea Project Two, Hornsea Project
2019		. von Gratatory	Three & Hornsea Four project update meeting – Hornsea Four
			update meeting 7:
			Outlined reduced survey scope for 2020 and reviewing
			commercial fisheries strategy.
27 August	Email	Non-Statutory	Hornsea Four Update
2020			Provision of details on the change to Order Limits from PEIR to
			DCO for Hornsea Four array area, including presentation of
			change to baseline characterisation and confirmation of no
			material change to impact assessment findings.
20	Meeting	Non-Statutory	Hornsea Four Lessons Learned
November			A presentation reviewing lessons learned from activities in 2020.
2020			Brief introduction of 2021 survey schedule.
18 August	Meeting	Non-Statutory	Hornsea Four Lessons Learned
2021			A presentation reviewing the survey timeline between
			November 2020 – May 2021, and lessons learnt. Review of
			2022 survey schedule and fisheries strategy. Informed of
			HOW04 Seabird compensation ideas and asked for input.
14 January	Meeting	Non-Statutory	HFIG ECRF and Hornsea 4 Update
2022			Presentation from HFIG on ECRF projects, an update on the
			HOW04 2022 survey programme and fisheries strategy. Note
			that HFIG and NFFO had not made relevant representations
28 January	Meeting	Non-Statutory	HFIG and Ørsted relationship review session
2022			Meeting reviewing future plans of HFIG. Outlining consent and
			examination process. Directing HFIG to the PINS website
04 February	Meeting	Non-Statutory	HFIG and Ørsted relationship review session
2022			Meeting reviewing future plans of HFIG and Ørsted working
			relationship. Explanation of SoCG.



Date		Statutory/Non Statutory	Summary
21 February 2022	Meeting	Non-Statutory	HFIG SOCG

3 Agreement Logs

3.1 Overview

- 3.1.1.1 The following sections of this SoCG set out the level of agreement between all 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 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 all 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, the HFIG or the NFFO is not	
considered to result in a material impact 1 to the assessment conclusions.	
Not Agreed – material impact	Not Agreed – material impact
The matter is not agreed between the parties and the outcome of the	
approach taken by either the Applicant, the HFIG or the NFFO is considered	
to result in a materially different impact 2 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 the HFIG and/or the NFFO).	

 $^{^{}m 1}$ No material impact: the parties agree with the category of impact significance concluded in the ES.

² Material impact: the parties do not agree with the category of impact significance concluded in the ES.



3.2 Fish & Shellfish Ecology

Table 3: NFFO Agreement Log: Fish & Shellfish Ecology.

ID	Hornsea Four Position	NFFO Position	Position Summary
Environmental Impact Assessment			
NFFO	The assessment has identified all appropriate plans and policies	Agreed. All appropriate plans and policies relevant to fish ecology	Agreed
-FSE-	relevant to fish ecology and has given due regard to them within the	and were given due regard at the point of application.	
01	assessment (see Section 3.3 of Volume A2, Chapter 3: Fish and		
	Shellfish Ecology (APP-015)).		
NFFO	The assessment has identified all appropriate plans and policies	Agreed.	Agreed
-FSE-	relevant to shellfish ecology and has given due regard to them within		
02	the assessment (see Section 3.3 of Volume A2, Chapter 3: Fish and		
	Shellfish Ecology (APP-015)).		
NFFO	Sufficient data has been collated to appropriately characterise the	Disagreed. The data collection fails to appropriately characterise	Not Agreed – no
-FSE-	fish ecology baseline environment for the purposes of informing the	the fish ecology baseline for informing the EIA. Concerned with the	material impact
03	EIA (see Section 3.6 and 3.7 of Volume A2, Chapter 3: Fish and	age of data used.	
	Shellfish Ecology (APP-015)).		
NFFO	Sufficient data has been collated to appropriately characterise the	Disagreed. The data collection fails to appropriately characterise	Not Agreed – no
-FSE-	shellfish ecology baseline environment for the purposes of informing	the shellfish ecology baseline for informing the EIA. Concerned with	material impact
04	the EIA (see Section 3.6 and 3.7 of Volume A2, Chapter 3: Fish and	the data collection methods used.	(discussion closed
	Shellfish Ecology (APP-015)).	However all parties note resolution has been reached in relation to	via NFFO-FSE-18)
		NFFO-FSE-18. No further discussion on this SOCG is intended.	
NFFO	The potential impacts identified in Section 3.11 of Volume A2,	Agreed. The potential impacts identified for fish ecology are	Agreed
-FSE-	Chapter 3: Fish and Shellfish Ecology (APP-015) represent a	appropriate.	
05	comprehensive list of potential impacts on fish ecology from Hornsea		
	Four.		
NFFO	The potential impacts identified in Section 3.11 of Volume A2,	Agreed. The potential impacts identified for shellfish ecology are	Agreed
-FSE-	Chapter 3: Fish and Shellfish Ecology (APP-015) represent a	appropriate.	
06	comprehensive list of potential impacts on shellfish ecology from		
	Hornsea Four.		



ID	Hornsea Four Position	NFFO Position	Position Summary
NFFO	The impact assessment methodology described in Section 3.10 of	Disagreed. The EIA methodology inappropriately assigns weight to	Not Agreed – no
-FSE-	Volume A2, Chapter 3: Fish and Shellfish Ecology (APP-015) used for	non-site specific data.	material impact
07	the EIA provide an appropriate approach to assessing potential		
	impacts of Hornsea Four on fish ecology.		
NFFO	The impact assessment methodology described in Section 3.10 of	Disagreed. The EIA methodology inappropriately assigns weight to	Not Agreed – no
-FSE-	Volume A2, Chapter 3: Fish and Shellfish Ecology (APP-015) used for	non-site specific data.	material impact
08	the EIA provide an appropriate approach to assessing potential	However all parties note resolution has been reached in relation to	(discussion closed
	impacts of Hornsea Four on shellfish ecology.	NFFO-FSE-18. No further discussion on this SOCG is intended.	via NFFO-FSE-18)
NFFO	The maximum design scenarios (MDS) presented in Section 3.9 of	Agreed.	Agreed
-FSE-	Volume A2, Chapter 3: Fish and Shellfish Ecology (APP-015) are		
09	appropriate in relation to fish ecology.		
NFFO	The maximum design scenarios (MDS) presented in Section 3.9 of	Agreed.	Agreed
-FSE-	Volume A2, Chapter 3: Fish and Shellfish Ecology (APP-015) are		
10	appropriate in relation to shellfish ecology.		
NFFO	The conclusions of the assessment of impacts for construction,	Disagreed: Disagreement on the data that has fed into assessment	Not Agreed – no
-FSE-	operation and decommissioning are agreed in relation to fish ecology	(see NFFO-FSE-03) and therefore can't agree with the conclusions	material impact
11	(see Section 3.15 of Volume A2, Chapter 3: Fish and Shellfish Ecology	drawn from that the baseline. However, more complete baseline is	
	(APP-015))	unlikely to alter the outcome of the assessments.	
NFFO	The conclusions of the assessment of impacts for construction,	Disagreed: Disagreement on the data that has fed into assessment	Not Agreed – no
-FSE-	operation and decommissioning are agreed in relation to shellfish	(see NFFO-FSE-04) and therefore can't agree with the conclusions	material impact
12	ecology (see Section 3.15 of Volume A2, Chapter 3: Fish and Shellfish	drawn from that the baseline. It is not possible to ascertain whether	(discussion closed
	Ecology (APP-015))	an appropriate baseline would alter the outcome of assessments.	via NFFO-FSE-18)
		However all parties note resolution has been reached in relation to	
		NFFO-FSE-18. No further discussion on this SOCG is intended.	
NFFO	The conclusions of the assessment of cumulative impacts are agreed	Disagreed: Disagreement on the data that has fed into the	Not Agreed – no
-FSE-	in relation to fish ecology (see Section 3.15 of Volume A2, Chapter 3:	cumulative assessment (see NFFO-FSE-03) and therefore can't	material impact
13	Fish and Shellfish Ecology (APP-015)).	agree with the conclusions drawn from that the baseline. However,	
		more complete baseline is unlikely to alter the outcome of the	
		assessments.	
		Agreement that all relevant projects have been considered in the	
		cumulative assessment.	



ID	Hornsea Four Position	NFFO Position	Position Summary
NFFO	The conclusions of the assessment of cumulative impacts are agreed	Disagreed: Disagreement on the data that has fed into the	Not Agreed – no
-FSE-	in relation to shellfish ecology (see Section 3.15 of Volume A2,	cumulative assessment (see NFFO-FSE-04) and therefore can't	material impact
14	Chapter 3: Fish and Shellfish Ecology (APP-015)).	agree with the conclusions drawn from that the baseline. It is not	(discussion closed
		possible to ascertain whether an appropriate baseline would alter	via NFFO-FSE-18)
		the outcome of assessments.	
		However all parties note resolution has been reached in relation to	
		NFFO-FSE-18. No further discussion on this SOCG is intended.	
		Agreement that all relevant projects have been considered in the	
		cumulative assessment.	
NFFO	Given the impacts of the project, the following proposed	Agreed insofar as within the remit and technical expertise of the	Agreed
-FSE-	Commitments outlined in Volume A4, Annex 5.2: Commitments	NFFO.	
15	Register (APP-050) are appropriate in relation to fish ecology:		
	 Co2 (avoidance of protected/designated sites); 		
	 Co44 (avoidance of Holderness Inshore MCZ); 		
	 Co45 (avoidance of Holderness Offshore MCZ); 		
	Co83 (cable burial);		
	 Co85 (no more than 2 simultaneous piles); 		
	Collo (piling Marine Mammal Mitigation Protocol);		
	Coll1 (construction project environmental management and		
	monitoring plan);		
	Coll3 (decommissioning Marine Mammal Mitigation Protocol);		
	Col81 (offshore decommissioning plan);		
	Co190 (seasonal piling restriction for herring); and		
	Co201 (maximum of 110 Gravity Base Structure (GBS)		
	foundations).		
NFFO	Given the impacts of the project, the following proposed	Agreed insofar as within the remit and technical expertise of the	Agreed
-FSE-	Commitments outlined in Volume A4, Annex 5.2: Commitments	NFFO.	
16	Register (APP-050) are appropriate in relation to shellfish ecology:		
	 Co2 (avoidance of protected/designated sites); 		
	Co44 (avoidance of Holderness Inshore MCZ);		
	Co45 (avoidance of Holderness Offshore MCZ);		
	Co83 (cable burial);		



Hornseg Four Position	NFFO Position	Position Summary
 Co85 (no more than 2 simultaneous piles); Co110 (piling Marine Mammal Mitigation Protocol); Co111 (construction project environmental management and monitoring plan); Co113 (decommissioning Marine Mammal Mitigation Protocol); Co181 (offshore decommissioning plan); Co190 (seasonal piling restriction for herring); and Co201 (maximum of 110 Gravity Base Structure (GBS) foundations). 	NPPO Position	Position summary
atters		
The monitoring relevant to fish ecology, set out in Section 3.5 of <u>F2.7:</u> Outline Marine Monitoring Plan (APP-242) is appropriate.	Disagreed: Particle Size Analysis monitoring welcomed but monitoring also need to include population modelling of herring	Not Agreed – no material impact
	and sandeel to make the PSA monitoring more meaningful. We welcome the Applicant's proposed seagrass restoration and monitoring project.	
The monitoring relevant to shellfish ecology, set out in Section 3.5 of F2.7: Outline Marine Monitoring Plan (APP-242) is appropriate.	Agreed. At the request of the NFFO and HFIG, the Applicant is in the process of agreeing the scope of a proposed shellfish ecology	Agreed
	 Collo (piling Marine Mammal Mitigation Protocol); Coll (construction project environmental management and monitoring plan); Collo (decommissioning Marine Mammal Mitigation Protocol); Col81 (offshore decommissioning plan); Col90 (seasonal piling restriction for herring); and Co201 (maximum of 110 Gravity Base Structure (GBS) foundations). atters The monitoring relevant to fish ecology, set out in Section 3.5 of F2.7: Outline Marine Monitoring Plan (APP-242) is appropriate. The monitoring relevant to shellfish ecology, set out in Section 3.5 of	 Co85 (no more than 2 simultaneous piles); Co110 (piling Marine Mammal Mitigation Protocol); Co111 (construction project environmental management and monitoring plan); Co113 (decommissioning Marine Mammal Mitigation Protocol); Co181 (offshore decommissioning plan); Co190 (seasonal piling restriction for herring); and Co201 (maximum of 110 Gravity Base Structure (GBS) foundations). atters Disagreed: Particle Size Analysis monitoring welcomed but monitoring relevant to fish ecology, set out in Section 3.5 of F2.7: Outline Marine Monitoring Plan (APP-242) is appropriate. Disagreed: Particle Size Analysis monitoring welcomed but monitoring also need to include population modelling of herring and sandeel to make the PSA monitoring more meaningful. We welcome the Applicant's proposed seagrass restoration and monitoring project. The monitoring relevant to shellfish ecology, set out in Section 3.5 of Agreed. At the request of the NFFO and HFIG, the Applicant is in the



Table 4: HFIG Agreement Log: Fish & Shellfish Ecology.

ID	Hornsea Four Position	HFIG Position	Position Summary		
Environr	Environmental Impact Assessment				
HFIG-	The assessment has identified all appropriate plans and policies	Agreed. All appropriate plans and policies relevant to fish ecology	Agreed		
FSE-O1	relevant to fish ecology and has given due regard to them within the	and were given due regard at the point of application.			
	assessment (see Section 3.3 of Volume A2, Chapter 3: Fish and				
	Shellfish Ecology (APP-015)).				
HFIG-	The assessment has identified all appropriate plans and policies	Agreed. All appropriate plans and policies relevant to fish ecology	Agreed		
FSE -02	relevant to shellfish ecology and has given due regard to them within	and were given due regard at the point of application.			
	the assessment (see Section 3.3 of Volume A2, Chapter 3: Fish and				
	Shellfish Ecology (APP-015).				
HFIG-	Sufficient data has been collated to appropriately characterise the	Disagreed. The data collection fails to appropriately characterise	Not Agreed – no		
FSE -03	fish ecology baseline environment for the purposes of informing the	the fish ecology baseline for informing the EIA. Concerned with the	material impact		
	EIA (see Section 3.6 and 3.7 of Volume A2, Chapter 3: Fish and	age of data used.			
	Shellfish Ecology (APP-015)).				
HFIG-	Sufficient data has been collated to appropriately characterise the	Disagreed. The data collection fails to appropriately characterise	Not Agreed – no		
FSE-04	shellfish ecology baseline environment for the purposes of informing	the shellfish ecology baseline for informing the EIA. Concerned with	material impact		
	the EIA (see Section 3.6 and 3.7 of Volume A2, Chapter 3: Fish and	the data collection methods used.	(discussion closed		
	Shellfish Ecology (APP-015)).	However all parties note resolution has been reached in relation to	via HFIG-FSE-18)		
LIEIC	The state of the s	HFIG-FSE-18. No further discussion on this SOCG is intended.			
HFIG- FSE-05	The potential impacts identified in Section 3.11 of Volume A2,	Agreed. The potential impacts identified for fish ecology are	Agreed		
FSE-05	Chapter 3: Fish and Shellfish Ecology (APP-015) represent a	appropriate.			
	comprehensive list of potential impacts on fish ecology from Hornsea Four.				
HFIG-	The potential impacts identified in Section 3.11 of Volume A2,	Agreed. The potential impacts identified for shellfish ecology are	Agreed		
FSE-06	Chapter 3: Fish and Shellfish Ecology (APP-015) represent a	appropriate.	Agreed		
132 00	comprehensive list of potential impacts on shellfish ecology from	appropriate.			
	Hornsea Four.				
HFIG-	The impact assessment methodology described in Section 3.10 of	Disagreed. The EIA methodology inappropriately assigns weight to	Not Agreed – no		
FSE-07	Volume A2, Chapter 3: Fish and Shellfish Ecology (APP-015) used for	non site specific data. HFIG to check.	material impact		
	the EIA provide an appropriate approach to assessing potential	,			
	impacts of Hornsea Four on fish ecology.				



ID	Hornsea Four Position	HFIG Position	Position Summary
HFIG-	The impact assessment methodology described in Section 3.10 of	Disagreed. The EIA methodology inappropriately assigns weight to	Not Agreed – no
FSE -08	Volume A2, Chapter 3: Fish and Shellfish Ecology (APP-015) used for	non site specific data.	material impact
	the EIA provide an appropriate approach to assessing potential	However all parties note resolution has been reached in relation to	(discussion closed
	impacts of Hornsea Four on shellfish ecology.	HFIG-FSE-18. No further discussion on this SOCG is intended.	via HFIG-FSE-18)
HFIG-	The maximum design scenarios (MDS) presented in Section 3.9 of	Agreed.	Agreed
FSE -09	Volume A2, Chapter 3: Fish and Shellfish Ecology (APP-015) are		
	appropriate in relation to fish ecology.		
HFIG-	The maximum design scenarios (MDS) presented in Section 3.9 of	Agreed.	Agreed
FSE-10	Volume A2, Chapter 3: Fish and Shellfish Ecology (APP-015) are		
	appropriate in relation to shellfish ecology.		
HFIG-	The conclusions of the assessment of impacts for construction,	Disagreed. Disagreement on the data that has fed into assessment	Not Agreed – no
FSE-11	operation and decommissioning are agreed in relation to fish ecology	(see HFIG-FSE-03) and therefore can't agree with the conclusions	material impact
	(see Section 3.15 of Volume A2, Chapter 3: Fish and Shellfish Ecology	drawn from that the baseline. However, more complete baseline is	
	(APP-015))	unlikely to alter the outcome of the assessments.	
HFIG-	The conclusions of the assessment of impacts for construction,	Disagreed. Disagreement on the data that has fed into assessment	Not Agreed – no
FSE -12	operation and decommissioning are agreed in relation to shellfish	(see HFIG-FSE-04) and therefore can't agree with the conclusions	material impact
	ecology (see Section 3.15 of Volume A2, Chapter 3: Fish and Shellfish	drawn from that the baseline. It is not possible to ascertain whether	(discussion closed
	Ecology (APP-015))	an appropriate baseline would alter the outcome of assessments.	via HFIG-FSE-18)
		However all parties note resolution has been reached in relation to	
		HFIG-FSE-18. No further discussion on this SOCG is intended.	
HFIG-	The conclusions of the assessment of cumulative impacts are agreed	Disagreed. Disagreement on the data that has fed into the	Not Agreed – no
FSE -13	in relation to fish ecology (see Section 3.15 of Volume A2, Chapter 3:	cumulative assessment (see HFIG-FSE-03) and therefore can't agree	material impact
	Fish and Shellfish Ecology (APP-015)).	with the conclusions drawn from that the baseline. However, more	
		complete baseline is unlikely to alter the outcome of the	
		assessments.	
		Agreement that all relevant projects have been considered in the	
		cumulative assessment.	
HFIG-	The conclusions of the assessment of cumulative impacts are agreed	Disagreed. Disagreement on the data that has fed into the	Not Agreed – no
FSE -14	in relation to shellfish ecology (see Section 3.15 of Volume A2,	cumulative assessment (see HFIG-FSE-04) and therefore can't agree	material impact
	Chapter 3: Fish and Shellfish Ecology (APP-015))	with the conclusions drawn from that the baseline. It is not possible	(discussion closed
		to ascertain whether an appropriate baseline would alter the	via HFIG-FSE-18)
		outcome of assessments.	



ID	Hornsea Four Position	HFIG Position	Position Summary
		However all parties note resolution has been reached in relation to	
		HFIG-FSE-18. No further discussion on this SOCG is intended.	
		Agreement that all relevant projects have been considered in the	
		cumulative assessment.	
HFIG-	Given the impacts of the project, the following proposed	Agreed. Insofar as within the remit and technical expertise of the	Agreed
FSE -15	Commitments outlined in Volume A4, Annex 5.2: Commitments	HFIG.	
	Register (APP-050) are appropriate in relation to fish ecology:		
	 Co2 (avoidance of protected/designated sites); 		
	 Co44 (avoidance of Holderness Inshore MCZ); 		
	 Co45 (avoidance of Holderness Offshore MCZ); 		
	Co83 (cable burial);		
	 Co85 (no more than 2 simultaneous piles); 		
	 Collo (piling Marine Mammal Mitigation Protocol); 		
	Coll1 (construction project environmental management and		
	monitoring plan);		
	Coll3 (decommissioning Marine Mammal Mitigation Protocol);		
	 Co181 (offshore decommissioning plan); 		
	 Co190 (seasonal piling restriction for herring); and 		
	 Co201 (maximum of 110 Gravity Base Structure (GBS) foundations). 		
HFIG-	Given the impacts of the project, the following proposed	Agreed. Insofar as within the remit and technical expertise of the	Agreed
FSE -16	Commitments outlined in Volume A4, Annex 5.2: Commitments	HFIG.	
	Register (APP-050) are appropriate in relation to shellfish ecology:		
	 Co2 (avoidance of protected/designated sites); 		
	 Co44 (avoidance of Holderness Inshore MCZ); 		
	 Co45 (avoidance of Holderness Offshore MCZ); 		
	Co83 (cable burial);		
	 Co85 (no more than 2 simultaneous piles); 		
	 Collo (piling Marine Mammal Mitigation Protocol); 		
	Coll1 (construction project environmental management and		
	monitoring plan);		
	Coll3 (decommissioning Marine Mammal Mitigation Protocol);		
	Co181 (offshore decommissioning plan);		



ID	Hornsea Four Position	HFIG Position	Position Summary
	Co190 (seasonal piling restriction for herring); and		
	Co201 (maximum of 110 Gravity Base Structure (GBS) foundations).		
Other M	atters		
HFIG- FSE-17	The monitoring relevant to fish ecology, set out in Section 3.5 of F2.7: Outline Marine Monitoring Plan (APP-242) is appropriate.	Disagreed. Particle Size Analysis monitoring welcomed but monitoring also need to include population modelling of herring and sandeel to make the PSA monitoring more meaningful. We welcome the Applicant's proposed seagrass restoration and monitoring project.	Not Agreed – no material impact
HFIG- FSE-18	The monitoring relevant to shellfish ecology, set out in Section 3.5 of F2.7: Outline Marine Monitoring Plan (APP-242) is appropriate.	Agreed. At the request of the NFFO and HFIG, the Applicant is in the process of agreeing the scope of a proposed shellfish ecology monitoring campaign.	Agreed



3.3 Commercial Fisheries

Table 5: NFFO Agreement Log: Commercial Fisheries.

ID	Hornsea Four Position	NFFO Position	Position Summary		
Environ	Environmental Impact Assessment				
NFFO	Sufficient data has been collated to appropriately characterise the	Agreed. Noting Volume A2, Chapter 6: Commercial Fisheries	Agreed		
-CF-	baseline environment for the purposes of informing the EIA (see Section 6.6	(APP-018) has been updated at Deadline 5.			
01	and 6.7 of Volume A2, Chapter 6: Commercial Fisheries (APP-018)).				
NFFO	The potential impacts identified in Section 6.11 of Volume A2, Chapter 6:	Agreed.	Agreed		
-CF-	Commercial Fisheries (APP-018) represent a comprehensive list of				
02	potential impacts on commercial fisheries from Hornsea Four.				
NFFO	The impact assessment methodology described in Section 6.10 of Volume	Agreed. Noting Volume A2, Chapter 6: Commercial Fisheries	Agreed		
-CF-	A2, Chapter 6: Commercial Fisheries (APP-018) for the EIA provide an	(APP-018) has been updated at Deadline 5.			
03	appropriate approach to assessing potential impacts of Hornsea Four.				
NFFO	The MDS presented in Section 6.9 of Volume A2, Chapter 6: Commercial	Agreed. Noting the impact statement wordings in relation to	Agreed		
-CF-	Fisheries (APP-018) is appropriate in relation to commercial fisheries.	snagging on exposed cables has been amended, adding the			
04		following statement ''and potential exposure of that			
		infrastructure leading to gear snagging' in Volume A2, Chapter			
		6: Commercial Fisheries (APP-018) updated at Deadline 5			
		The Applicant confirms Volume A2, Chapter 6: Commercial			
		Fisheries (APP-018) has been updated at Deadline 5.			
NFFO	The conclusions of the assessment of impacts for construction, operation	Agreed. Noting F2.9: Outline Fisheries Coexistence and Liaison	Agreed		
-CF-	and decommissioning are agreed (see Section 6.11 and 6.15 of Volume A2,	Plan has been updated to state that there will be a separate			
05	Chapter 6: Commercial Fisheries (APP-018)).	Fisheries Coexistence and Liaison Plan for the operations and			
		maintenance phase.			
NFFO	The conclusions of the assessment of cumulative impacts are agreed (see	Agreed.	Agreed		
-CF-	Section 6.15 of Volume A2, Chapter 6: Commercial Fisheries (APP-018).				
06					
NFFO	Given the impacts of the project, the following proposed Commitments	Agreed.	Agreed		
-CF-	outlined in Volume A4, Annex 5.2: Commitments Register (APP-050) are				
07	appropriate:				



ID	Hornsea Four Position	NFFO Position	Position Summary
	Co2 (avoidance of protected/designated sites);		
	Co81 (5% under keel clearance for scour protection);		
	Co83 (cable burial);		
	Co85 (no more than 2 simultaneous piles);		
	 Co89 (Notices to Mariners and Kingfisher Bulletins); 		
	Co90 (ongoing liaison via Fisheries Liaison Officer and Fishing Industry		
	Representative);		
	Co93 (aids to navigation);		
	Co94 (notification of United Kingdom Hydrographic Office (UKHO));		
	Co95 (fisheries coexistence and liaison plan);		
	Co99 (compliance with MGN654);		
	Coll1 (construction project environmental management and		
	monitoring plan);		
	Col39 (safety zones);		
	Co180 (FLOWW guidance);		
	Co181 (offshore decommissioning plan);		
	 Co201 (maximum of 110 Gravity Base Structure (GBS) foundations). 		
Draft D	CO and Deemed Marine Licences		
NFFO	The wording of the following requirements and conditions pertaining to	Agreed insofar as within the remit and technical expertise of the	Agreed
-CF-	commercial fisheries are appropriate and adequate (see $\underline{\text{C.1.1}}$	NFFO.	
80	Development Consent Order (DCO) Volume C1 draft DCO including draft		
	Deemed Marine Licence (DML) (APP-203)):		
	 Part 1(6) of DCO Schedules 11 and 12 with reference to a 		
	decommissioning plan;		
	• Part 2 - Condition 7 of DCO Schedules 11 and 12 with reference to		
	notifications and inspections;		
	• Part 2 - Condition 8 of DCO Schedules 11 and 12 with reference to aids		
	to navigation;		
	• Part 2 - Condition 11(10) of DCO Schedules 11 and 12 with reference to		
	dropped objects;		
	• Part 2 - Condition 13(1(c) of DCO Schedules 11 and 12 with reference		
	to a Construction Method Statement;		



ID	Hornsea Four Position	NFFO Position	Position Summary
	 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)(h) of DCO Schedules 11 and 12 with reference to a Cable Specification and Installation Plan; Part 2 - Condition 13(1)(i) of DCO Schedules 11 and 12 with reference to a Aid to Navigation Management Plan; and Part 2 - Condition 15 of DCO Schedules 11 and 12 with reference to 		
NFFO -CF- 09	Offshore Safety Management. The commitment to producing a Fisheries Coexistence and Liaison Plan (see C.1.1 Development Consent Order (DCO) Volume C1 draft DCO including draft Deemed Marine Licence (DML) (APP-203)): Part 2 - Condition 13(7) of DCO Schedules 11 and 12), that must be submitted to and approved by the Marine Management Organisation (MMO) prior to the commencement of construction activities, is appropriate for describing the approach to liaison and consultation with the fishing industry throughout the lifetime of Hornsea Four. The final version of the FCLP will be produced in accordance with F2.9: Outline Fisheries Coexistence and Liaison Plan (APP-244).	Agreed. Noting F2.9: Outline Fisheries Coexistence and Liaison Plan has been updated to state that there will be a separate Fisheries Coexistence and Liaison Plan for the operations and maintenance phase and to refer to the latest version of the FLOWW guidance.	Agreed
Other N			
NFFO -CF- 10	The measures identified within F2.9: Outline Fisheries Coexistence and Liaison Plan (APP-244) are appropriate for liaison and consultation with the fishing industry throughout the lifetime of Hornsea Four.	Agreed. Noting that whilst F2.9: Outline Fisheries Coexistence and Liaison Plan specifies liaison with the fishing industry is to occur not less than 2 weeks prior to the commencement of planned works, this shall be the very minimum notice period expected.	Agreed
NFFO -CF- 11	Geophysical surveys, as outlined in Section 3.2 of F2.7: Outline Marine Monitoring Plan (APP-242) are appropriate to confirm: Cable burial success; Adequate protection of buried assets, foundations and crossings; and Presence of any dropped objects. No other seabed monitoring is required for commercial fisheries interests.	Agreed.	Agreed



ID	Hornsea Four Position	NFFO Position	Position Summary
NFFO	Navigation by fishing vessels have appropriately been considered in	Agreed. Noting fishing activity is assessed within Volume A2,	Agreed
-CF-	Volume A5, Annex 7.1: Navigational Risk Assessment (APP-081 – APP-	Chapter 6: Commercial Fisheries (APP-018).	
12	<u>083)</u> .		



Table 6: HFIG Agreement Log: Commercial Fisheries.

ID	Hornsea Four Position	HFIG Position	Position Summary		
Environ	Environmental Impact Assessment				
HFIG-	Sufficient data has been collated to appropriately characterise the	Agreed. Noting Volume A2, Chapter 6: Commercial Fisheries	Agreed		
CF-01	baseline environment for the purposes of informing the EIA (see Section	(APP-018) has been updated at Deadline 5.			
	6.6 and 6.7 of Volume A2, Chapter 6: Commercial Fisheries (APP-018)).				
HFIG-	The potential impacts identified in Section 6.11 of Volume A2, Chapter	Agreed.	Agreed		
CF -02	6: Commercial Fisheries (APP-018) represent a comprehensive list of				
	potential impacts on commercial fisheries from Hornsea Four.				
HFIG-	The impact assessment methodology described in Section 6.10 of	Agreed. Noting Volume A2, Chapter 6: Commercial Fisheries	Agreed		
CF -03	Volume A2, Chapter 6: Commercial Fisheries (APP-018) for the EIA	(APP-018) has been updated at Deadline 5.			
	provide an appropriate approach to assessing potential impacts of				
	Hornsea Four.				
HFIG-	The MDS presented in in Section 6.9 of Volume A2, Chapter 6:	Agreed. Noting the impact statement wordings in relation to	Agreed		
CF -04	Commercial Fisheries (APP-018) is appropriate in relation to commercial	snagging on exposed cables has been amended, adding the			
	fisheries.	following statement ''and potential exposure of that infrastructure			
		leading to gear snagging' in Volume A2, Chapter 6: Commercial			
		Fisheries (APP-018) updated at Deadline 5			
		The MDS is agreed.			
HFIG-	The conclusions of the assessment of impacts for construction,	Agreed. Noting F2.9: Outline Fisheries Coexistence and Liaison	Agreed		
CF -05	operation and decommissioning are agreed (see Section 6.15 of Volume	Plan has been updated to state that there will be a separate			
	A2, Chapter 6: Commercial Fisheries (APP-018))	Fisheries Coexistence and Liaison Plan for the operations and			
		maintenance phase.			
HFIG-	The conclusions of the assessment of cumulative impacts are agreed	Agreed.	Agreed		
CF -06	(see Section 6.15 of Volume A2, Chapter 6: Commercial Fisheries (APP-				
	018)				
HFIG-	Given the impacts of the project, the following proposed Commitments	Agreed.	Agreed		
CF -07	outlined in Volume A4, Annex 5.2: Commitments Register (APP-050)				
	are appropriate:				
	 Co2 (avoidance of protected/designated sites); 				
	 Co81 (5% under keel clearance for scour protection); 				



ID	Hornsea Four Position	HFIG Position	Position Summary
	Co83 (cable burial);		
	Co85 (no more than 2 simultaneous piles);		
	Co89 (Notices to Mariners and Kingfisher Bulletins);		
	Co90 (ongoing liaison via Fisheries Liaison Officer and Fishing Industry		
	Representative);		
	Co93 (aids to navigation);		
	Co94 (notification of United Kingdom Hydrographic Office (UKHO));		
	Co95 (fisheries coexistence and liaison plan);		
	Co99 (compliance with MGN654);		
	Colll (construction project environmental management and		
	monitoring plan);		
	Col39 (safety zones);		
	Co180 (FLOWW guidance);		
	Co181 (offshore decommissioning plan);		
	Co201 (maximum of 110 Gravity Base Structure (GBS) foundations).		
Draft D	CO and Deemed Marine Licences		
HFIG-	The wording of the following requirements and conditions pertaining to	Agreed insofar as within the remit and technical expertise of the	Agreed
CF-08	commercial fisheries are appropriate and adequate (see <u>C.1.1</u>	HFIG.	
	Development Consent Order (DCO) Volume C1 draft DCO including		
	draft Deemed Marine Licence (DML) (APP-203):		
	Part 1(6) of DCO Schedules 11 and 12 with reference to a		
	decommissioning plan;		
	Part 2 - Condition 7 of DCO Schedules 11 and 12 with reference to		
	notifications and inspections;		
	Part 2 - Condition 8 of DCO Schedules 11 and 12 with reference to		
	aids to navigation;		
	Part 2 - Condition 11(10) of DCO Schedules 11 and 12 with reference		
	to dropped objects;		
	• Part 2 - Condition 13(1(c) of DCO Schedules 11 and 12 with reference		
	to a Construction Method Statement;		



ID	Hornsea Four Position	HFIG Position	Position Summary
	 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)(h) of DCO Schedules 11 and 12 with reference to a Cable Specification and Installation Plan; Part 2 - Condition 13(1)(i) of DCO Schedules 11 and 12 with reference to a Aid to Navigation Management Plan; and Part 2 - Condition 15 of DCO Schedules 11 and 12 with reference to 		
	Offshore Safety Management.		
HFIG- CF-09	The commitment to producing a Fisheries Coexistence and Liaison Plan (see C.1.1 Development Consent Order (DCO) Volume C1 draft DCO including draft Deemed Marine Licence (DML) (APP-203)): Part 2 - Condition 13(7) of DCO Schedules 11 and 12), that must be submitted to and approved by the Marine Management Organisation (MMO) prior to the commencement of construction activities, is appropriate for describing the approach to liaison and consultation with the fishing industry throughout the lifetime of Hornsea Four. The final version of the FCLP will be produced in accordance with F2.9: Outline Fisheries Coexistence and Liaison Plan (APP-244).	Agreed. Noting F2.9: Outline Fisheries Coexistence and Liaison Plan has been updated to state that there will be a separate Fisheries Coexistence and Liaison Plan for the operations and maintenance phase and to refer to the latest version of the FLOWW guidance.	Agreed
Other M			
HFIG- CF-10	The measures identified within F2.9: Outline Fisheries Coexistence and Liaison Plan (APP-244) are appropriate for liaison and consultation with the fishing industry throughout the lifetime of Hornsea Four.	Agreed. Noting that whilst F2.9: Outline Fisheries Coexistence and Liaison Plan specifies liaison with the fishing industry is to occur not less than 2 weeks prior to the commencement of planned works, this shall be the very minimum notice period expected.	Agreed
HFIG- CF-11	Geophysical surveys, as outlined in Section 3.2 of F2.7: Outline Marine Monitoring Plan (APP-242) are appropriate to confirm: Cable burial success; Adequate protection of buried assets, foundations and crossings; and Presence of any dropped objects.	Agreed.	Agreed



ID	Hornsea Four Position	HFIG Position	Position Summary
	No other seabed monitoring is required for commercial fisheries		
	interests.		
HFIG-	Navigation by fishing vessels have appropriately been considered in	Agreed. Noting fishing activity is assessed within Volume A2,	Agreed
CF -12	Volume A5, Annex 7.1: Navigational Risk Assessment (APP-081 – APP-	Chapter 6: Commercial Fisheries (APP-018).	
	<u>083)</u> .		