

Hornsea Project Four

Statement of Common Ground between Hornsea Project Four and Environment Agency

Deadline 1, Date: 08 March 2022

Document Reference: G1.12

Revision: 01

Prepared Orsted, February 2022 Checked Orsted, February 2022

Accepted Thomas Watts, Orsted, March 2022
Approved Julian Carolan, Orsted, March 2022

G1.12 Version A



Revision History

Date	Version	Reason for issue	
10/08/2021	i	1^{st} draft for Environment Agency (EA) with proposed areas of agreements	
18/02/2022	ii	2 nd draft with initial Environment Agency agreements and Rule 6	
		amendments incorporated.	
08/03/2022	01	Version submitted as Deadline 1 with updated position provided by the	
		Environment Agency.	

Signatories

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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.

Acronyms

Acronym	Definition	
CEA	Cumulative Effects Assessment	
DCO	Development Consent Order	
ECC	Export Cable Corridor	
EIA	Environmental Impact Assessment	
ES	Environmental Statement	
ExA	Examining Authority	
HVAC	High Voltage Alternating Current	
HVDC	High Voltage Direct Current	
LSE	Likely Significant Effect	
MHWS	Mean High Water Springs	
MLWS	Mean Low Water Springs	
SoCG	Statement of Common Ground	
OnSS	Onshore substation	
PEIR	Preliminary Environmental Information Report	
UK	United Kingdom	
WFD	Water Framework Directive	



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 Environment Agency to set out the areas of agreement and disagreement between the two 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 the onshore topics of Hydrology and Flood Risk, onshore Ecology, and Geology and Ground Conditions only, in addition to general matters relevant on onshore and the project as a whole. It also covers in lesser detail the offshore topics of Marine Geology, Oceanography and Physical Processes, the offshore Water Framework Directive (WFD) Assessment and Commercial Fisheries.
- 1.1.1.3 The need for a SoCG between the Applicant and Environment Agency is set out within the Rule 6 letter issued by the Planning Inspectorate.
- 1.1.1.4 It is the intention that this document will facilitate further discussions between the Applicant and the Environment Agency and will provide PINS with a clear overview of the level of common ground between both parties. This document will be updated throughout the application 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 (APP-049)) 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 Applicants approach to proportionality, only Likely Significant Effects (LSE) 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: Onshore Agreement Log;
 - Section 5: Offshore Agreement Log; and
 - Section 5: Summary.



1.3 Application elements under the Environment Agency remit

1.3.1.1 The elements of Hornsea Four which may affect the interests of the Environment Agency are work numbers 2 and 4 to 1 nautical mile (NM) off the coast (offshore works), and work numbers 6 to 10, onshore. These are detailed in Part 1 (Authorised Development) of Schedule 1 (Authorised Project) of the draft DCO (C1.1: Draft DCO including Draft DML (APP-203)).

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 (ECC): 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 Mean High Water Springs (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 (OnSS) 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 Environment Agency

2.1.1.1 **Table 1** summarises the consultation that the Applicant has undertaken with Environment Agency during the pre-application phase. In addition, a number of Position Statements and draft documents (including the impacts Register) have been issued throughout the perapplication stage of Hornsea Four, for review and comment.

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

Date	Form of	Statutory/Non	Summary
	consultation	Statutory	
12/09/2018	Meeting	Non Statutory	Hornsea Project Four – Water and Flood Risk Evidence Plan
			Technical Panel meeting #1
			Initial meeting to discuss the approach to the Scoping Report,
			and the scope of any proposed surveys, the EIA including
			assessment methodology and the initial discussion of key issues
			or areas of concern.
15/10/2018	Consultation	Statutory	Hornsea Project Four Offshore Wind Farm Scoping Report
23/11/2018	Consultation response	Statutory	Scoping Opinion
			Providing comments on the Scoping Report.
15/01/2019	Meeting	Non Statutory	Hornsea Project Four — Water and Flood Risk Evidence Plan
			Technical Panel meeting #2
			Meeting to provide project updates, and an overview of the
			survey methodology and preliminary results obtained from
			ongoing surveys. Discussion on Scoping responses received by
			the project, accompanied by a discussion on the next steps for
			the PEIR and ES assessments.
05/04/2019	Meeting	Non Statutory	Hornsea Project Four — Water and Flood Risk Evidence Plan
			Technical Panel meeting #3
			Meeting to provide project updates, Hornsea Fours
			proportionate EIA, further evidence base to scope out impacts
			where consensus had not been reached with stakeholders, as
			well as the next steps to seeking consensus with stakeholders
			on the approach to the PEIR.
05/04/2019	Position Paper	Non Statutory	Hornsea Project Four — Water Resources and Flood Risk
			Technical Panel meeting #3 Position Paper
			Position paper to support and inform the third Water and Flood
			Risk Evidence Plan Technical Panel meeting. Provided further



Date	Form of	Statutory/Non	Summary
	consultation	Statutory	
			detail on baseline data collection, responses to key scoping
			opinions received, the propose approach to the PEIR and
			focussed questions for stakeholders.
08/04/2019	Meeting	Non Statutory	Hornsea Project Four — Ecology Evidence Plan Technical Pane meeting #3
			Meeting to provide project updates, Hornsea Fours
			proportionate EIA, further evidence base to scope out impacts
			where consensus had not been reached with stakeholders, as
			well as the next steps to seeking consensus with stakeholders
			on the approach to the PEIR.
27/06/2019	Meeting	Non Statutory	Hornsea Project Four – Water and Flood Risk Technical Panel
2770072017	riccing	Nonstatutory	meeting #4
			Meeting to provide project updates, further evidence base to
			scope out impacts where consensus had not been reached with
			stakeholders, and to present an update on how to read the
			Hornsea Four proportionate PEIR.
09/07/2019	Meeting	Non Statutory	Hornsea Project Four — Ecology Evidence Plan Technical Pane
0,,,,,,,			meeting #4
			Meeting to provide project updates, further evidence base to
			scope out impacts where consensus had not been reached with
			stakeholders, and to present an update on how to read the
			Hornsea Four proportionate PEIR.
13/08/2019	Consultation	Statutory	Hornsea Project Four PEIR
			Published for statutory Section 42 consultation.
23/11/2019	Consultation response	Statutory	Environment Agency letter response to PEIR
			Providing comments on the PEIR.
05/11/2019	Meeting	Non Statutory	Hornsea Project Four — Water and Flood Risk Technical Panel
			meeting #5
			Meeting to provide project updates since the submission of the
			PEIR and the close of the 2019 Section 42 consultation.
			Summary and Hornsea Fours initial responses to key Section 42
			comments received, and to seek consensus on the approach to
			the ES.
13/11/2019	Meeting	Non Statutory	Hornsea Project Four — Ecology Evidence Plan Technical Pane meeting #5
			Meeting to provide project updates since the submission of the PEIR and the close of the 2019 Section 42 consultation.



Date	Form of	Statutory/Non	Summary
	consultation	Statutory	
			Summary and Hornsea Fours initial responses to key Section 4:
			comments received and to seek consensus on the approach to
			the ES.
05/02/2020	Meeting	Non Statutory	Hornsea Project Four – EIA & DCO workshop (Environment
			Agency) meeting #1
			To discuss specific comments raised by the EA at Section 42
			and through the evidence plan process around flood
			improvements, opportunities for enhancements, updates to
			project Commitments, Protective Provisions, and the
			Disapplication of the 2016 Environmental Permitting
			Regulations.
17/02/2020	Consultation	Statutory	Further Statutory Section 42 consultation
			Published by the Applicant for comments.
01/04/2020	Position Paper	Non Statutory	Hornsea Project Four — Hydrology and Flood Risk Assessment
			of modelled water levels for OnSS & Commitments Position
			Paper
			Position paper on Hornsea Fours updated proposed position to
			freeboard mitigation and updates to relevant Commitments
			discussed as Section 42 and in subsequent evidence plan
			technical panel meetings.
29/01/2021	Meeting	Non Statutory	Meeting held between the respective estates teams to discus
			Protective Provisions and specific crossing matters.
07/06/2021	Position	Non Statutory	In addition, issue of baseline validity position papers for
	Papers		ecology, ground condition and hydrology and flood risk,
	·		reflecting a delay to the DCO application submission.
17/06/2021	Draft documents	Non Statutory	Draft DCO documents issued for review
	documents		The following documents were shared with the Environment
			-
			Agency to review, prior to DCO application submission:
			Geology and Ground Conditions ES Chapter
			Hydrology and Flood Risk ES Chapter
			Impacts Register Tabs for each of the abovementioned
			topics.
			Draft commitments register.
07/09/2021	Meeting	Non Statutory	Meeting to discuss comments received from the EA on flood
			defence investment, OnSS flood risk and excavations, peak
			flow allowances, withdrawal of flood defences and statement
			of common ground.



3 Onshore Agreement Log

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 onshore topic (as identified in paragraph 1.1.1.2). In order to easily identify whether a matter is 'agreed' or 'not agreed', a colour coding system of green, orange and red is used respectively within the 'position' column.
- 3.1.1.2 The following section of this SoCG summaries the level of agreement between Hornsea Four and the Environment on all relevant matters landward of MHWS.

3.1.2 General

Table 2: Agreement Log: General

ID	Statement on which agreement is sought	Position	Commentary
G1.12:	There is a specific need to provide	Agreed	N/A
1.1	renewable energy, which is in line with		
	government policy.		
G1.12:	The Applicant has adequately consulted	Agreed	N/A
1.2	with the Environment Agency throughout		
	all stages of the project to date and the		
	summary of Consultation (Section 2 of this		
	SoCG) is a fair and accurate record of pre-		
	application consultation.		
G1.12:	The site selection and route refinement	Agreed	N/A
1.3	outlined in Volume A1, Chapter 3: Site		
	Selection and Consideration of		
	Alternatives has properly considered the		
	alternatives for the relevant elements of		
	Hornsea Four (landfall, onshore ECC and		
	OnSS).		
G1.12:	The selection of the OnSS site is	Agreed	N/A
1.4	appropriate and was discussed and agreed		
	with the Environment Agency through the		
	pre-application consultation process.		
G1.12:	The Applicant's approach to proportionate	Agreed	N/A
1.5	EIA has been discussed with the		
	Environment Agency to produce an		
	Environment Statement that accords with		
	the Infrastructure Planning (Environmental		
	Impact Assessment) Regulations 2017		
G1.12:	The Protective Provisions set out in C1.1:	Area for	The EA have agreed to disapply the 2016
1.6	Draft Development Consent Order have	ongoing	Environmental Permitting Regulations (EPR) in
		discussion	regards to flood risk. However, additional



ID	Statement on which agreement is sought	Position	Commentary
	been informed by the Environment Agency		constraints have since been identified that
	and are considered appropriate.		may affect the disapplication of EPR and the
			inclusion of the Protective Provisions.
			Specifically, there is an issue around certain
			watercourse crossings regarding depth of the
			cables and the interaction with possible future
			flood alleviation options.
G1.12:	Waste management is adequately	Agreed	N/A
1.7	covered in the application, with the		
	inclusion of the Outline Waste		
	Management Plan, which forms Appendix E		
	of F2.2: Outline Code of Construction		
	Practice (APP-237).		

3.1.3 Hydrology and Flood Risk

Table 3: Agreement Log: Hydrology and Flood Risk.

ID	Statement on which agreement is sought	Position	Commentary
EIA – Po	olicy and planning		
G1.12:	Volume A3, Chapter 2: Hydrology and	Agreed	Various flood risk meetings were held,
2.1	Flood Risk (APP-026) has identified all		specifically around the following:
	relevant plans and policies and		 Onshore substation and appropriate FRA
	appropriate consideration has been given		scoping, including additional modelling
	to them in the assessment.		and suitable climate change
			considerations.
			 Cable routing, and construction
			methodology under 'main river'
			watercourses.
			Wider consideration was given to landfall
			elements, and interaction with coastal
			processes and policies.
EIA – B	aseline Environment		
G1.12:	The ES adequately defines the baseline	Agreed	Flood risk is adequately assessed for risk to the
2.2	environment relevant to Hydrology and		proposed infrastructure. The assessment has
	Flood Risk in Volume A3, Chapter 2:		drawn on latest available modelling, and
	Hydrology and Flood Risk (APP-026), to		consideration given to other sources of risk –
	inform the EIA.		including surface water.
			The "baseline" considers future flood risk that i
			expected to occur as a result of climate
			change.



ID	Statement on which agreement is sought	Position	Commentary
G1.12:	The study areas identified in Section 2.5 of	Agreed	Figures 2.2 – 2.6 identify the working corridor
2.3	Volume A3, Chapter 2: Hydrology and		and the watercourses to be crossed. The study
	Flood Risk (APP-026) are appropriate.		area has identified and considered these
			surface waterbodies. Many of these
			watercourses form part of the River Hull
			catchment drainage, comprising of complex
			drainage features. Responsibility for the
			watercourses include those under the
			jurisdiction of the Internal Drainage Board, the
			Environment Agency, and the Lead Local
			Flood Authority. Flood risk across the study
			area is complex, and some interdependencies
			exist that make isolating flood risk in any one
			location difficult. For the construction element,
			the reports appreciate this complexity, with a
			view to managing and mitigating the flood risk
			source(s) identified. For the operational phase,
			flood risk is considered taking into account
			appropriate allowances for climate change.
G1.12:	The maximum design scenarios identified	Agreed	Consideration has been given to the design
2.4	and outlined, where relevant, for each	Agreed	flood risks to the development taking into
2.4	impact in Section 2.9 of Volume A3,		account the appropriate climate change
			allowances.
	Chapter 2: Hydrology and Flood Risk		
	(APP-026), and in the 'Hydrology and		For the onshore substation, further modelling
	Flood Risk' tab of Volume A4, Annex 5.1:		was obtained which included alternative
	Impacts Register (APP-049), represent the		allowances. This additional modelling did
	maximum project parameters for		indicate higher flood risk to the substation site.
	assessment.		To mitigate this risk, a sequential approach
			within the site was utilised, alongside the use
			of a precautionary freeboard, to avoid
			interacting with areas potentially at increased
			flood risk (including those areas currently
			shown as Flood Zone 1 within the EA's Flood
			Map and the East Riding of Yorkshire Council
			SFRA). We agreed that through the use of
			freeboard that the risk was adequately
			assessed and mitigated to ensure sensitive
			aspects of the development are to be located
			in areas of lowest overall flood risk.
			Consideration was also given to other sources
			of risk, including surface water. Again,
			avoidance of the areas indicated to be at risk,
			and placement of sensitive onshore substation
			elements outside these areas was
			demonstrated.



		I	
ID	Statement on which agreement is sought	Position	Commentary
G1.12:	The potential impacts identified in Table	Area for	The Impacts Register HFR-C-1 refers to the
2.5	2.9 of Volume A3, Chapter 2: Hydrology	ongoing	commitment for utilising trenchless crossing
	and Flood Risk (APP-026), and in the	discussion	techniques. Additionally, agreement was
	'Hydrology and Flood Risk' tab of Volume		reached to ensure that reception pits were
	A4, Annex 5.1: Impacts Register (APP-		located at least 20m set back from 'main river'
	049), represent a comprehensive list of the		watercourses (and flood defences where they
	potential impacts.		exist) – stated in Table 2.9. We support the use
			of trenchless techniques to cross 'main rivers'
			which minimises disturbance to those 'main
			rivers.' Additionally, the use of trenchless
			techniques will further reduce possible flood
			risk issues. Within early meetings, a minimum
			depth for watercourse crossings was
			established. Subsequent meetings confirmed
			that this minimum depth should also apply
			where cables were being installed below flood
			defences. This was given further consideration
			by the Environment Agency in response to a
			number of flood incidents affecting the
			catchment, and in response to emerging
			strategic flood risk planning concerns.
			The Environment Agency agree that the
			Environmental Statement is adequate.
			However, specific concerns have been raised in
			regard to Watton Beck, where further
			investigation is required. This was discussed in
			a meeting in September 2021 and requires
			further consideration to meet agreement.
G1.12:	The methodologies used in Section 2.10 of	Agreed	In general, this section includes an assessment
2.6	Volume A3, Chapter 2: Hydrology and		of risk based on environmental value
	Flood Risk (APP-026) are appropriate for		(sensitivity) and magnitude of impact (degree
	assessing the potential impacts of Hornsea		of change). We agree with the broad
	Four.		definitions provided, and the receptors
			identified.
EIA – As G1.12:	sessment Conclusions The conclusion that no LSE was identified	Agreed	The FIA included quiding principles of
2.7	at Scoping (or during subsequent	Agreed	The EIA included guiding principles of proportionality, which was discussed with the
۷./	correspondence with hydrology and flood		Environment Agency during initial meetings. It
	risk stakeholders) for impacts HFR-C-1		was also agreed in these early meetings to
	(disturbance from cable crossings of Main		consider feedback loops, should additional
	Rivers and IDB watercourses), HFR-C-3		information or context become available. In
	(disturbance from cable crossings of minor		general, we agree that (for flood risk), no LSE
	drainage ditches), HFR-C-5 (disruption of		were identified. Some of the activities
	local land drainage), HFR-C-6 (changes in		identified were subject to inherent
	to out tails a sails age, it is to e-o (changes in		rasmanea were subject to innerent



ID	Statement on which agreement is sought	Position	Commentary
	water quality, construction), HFR-O-7		commitments or mitigation in order to agree
	(alteration in run-off characteristics at		with those risks having no LSE. Of specific
	onshore substation), HFR-C-8 (mobilisation		interest to flood risk:
	of pollutants), HFR-D-9 (decommissioning		
	onshore ECC), HFR-D-10 (impacts		 HFR-C-1 included a number of
	associated with decommissioning onshore		commitments to agree on parameters
	substation), HFR-O-11 (impacts associated		relating to minimum depths below
	with operation) and not being significant in		watercourses and flood risk
	EIA terms, which resulted in these potential		infrastructure, minimum horizontal
	impacts being 'Scoped out' of further		distances for reception pits. Some of this
	assessment or 'not considered in detail in		has subsequently raised some issues
	the ES', is appropriate.		which require further agreement.
G1.12:	The conclusion that no LSE was identified	Agreed	In terms of flood risk, these project activities
2.8	for impacts HFR-C-12 (hydrological and		have minimal impact. It was considered
	water quality effects on designated sites)		possible that these activities could interact
	and HFR-O-13 (thermal impacts on water		with the surface waterbodies, and potentially
	resources) (not identified at Scoping), and		affect flood risk operations indirectly and/or
	not being significant in EIA terms, resulted		affect wider aspects such as Water Frameworl
	in these potential impacts being not		Directive. In terms of flood risk, the
	considered in detail in the PEIR or ES. This is		commitments set out in the Impacts Register
	appropriate.		against HFR-C-12 and HFR-O-13 are
			acceptable.
G1.12:	The conclusion that no LSE was identified	Area for	HFR-C-2 includes reference to use of
2.9	for HFR-C-2 (access across watercourses)	ongoing	temporary watercourse crossings, including
	and HFR-C-4 (access across minor drainage	discussion	'main rivers' and 'ordinary watercourses.' The
	ditches) at PEIR, and not being significant in		Environment Agency's position only refers to
	EIA terms, and were therefore not		crossings of 'main rivers.' We agree that any
	considered in detail in the ES, is		such crossings should avoid the use of culverts
	appropriate.		in line with our policy. The Impacts Register
			indicates that the locations of crossings is
			shown in Figure 2.10-2.14 of the Volume
			A3:Chapter 2, although it is slightly unclear
			whether temporary crossings interact with any
			'main rivers.' Within the Hydrology and Flood
			Risk document submitted at PEIR, Section
			2.11.1.10 stated that "several temporary
			crossings are proposed on[named 'main
			rivers'],these crossings would be located on
			tributaries rather than the main river channels.
			The Environment Agency agreed to the notes
			of a technical meeting where any temporary
			crossings over main rivers would (a) avoid use
			· · · · · · · · · · · · · · · · · · ·
			of culverts and (b) be of clear span
			of culverts and (b) be of clear span construction. On smaller watercourses, the use



ID	Ctttt.i.hti	Destries	C
ID	Statement on which agreement is sought	Position	Commentary
			be useful to be abundantly clear where
			temporary crossings are proposed where they
			interact with 'main rivers,' particularly where
			disapplication of the Environmental Permitting
			Regulations is being considered. We believe
			this comment requires clarification rather than
			being significantly revisited.
			HFR-C-4 refers to possible temporary
			culverting of minor watercourses (i.e. not
			affecting any 'main river'). Whilst our
			comments relating to the EA's culverting
			position remain valid, comments relating to
			the jurisdiction over ordinary watercourses
			remains with other Risk Management
			Authorities.
G1.12:	The assessment of potential effects on	Agreed	N/A
2.10	Hydrology and Flood Risk in Volume A3,		
	Chapter 2: Hydrology and Flood Risk		
	(APP-026) is appropriate and		
	proportionate and identifies the likely		
	significant effects from Hornsea Four.		
G1.12:	The conclusions of the CEA on hydrology	Agreed	N/A
2.11	and flood risk presented in Section 2.12		
	and inter-related effects in Section 2.14 of		
	Volume A3, Chapter 2: Hydrology and		
	Flood Risk (APP-026), are appropriate.		
Draft D	I CO / Outline Management Plans / Mitigation an	d Monitoring	
G1.12:	The measures described in F2.6: Outline	Agreed.	The Lead Local Flood Authority take the lead
2.12	Onshore Infrastructure Drainage Strategy		on surface water and detailed drainage design,
	(APP-241) are appropriate and adequately		whilst the Internal Drainage Board provide
	mitigate likely significant effects where		input within drainage areas under their control.
	possible.		
			In terms of managing overall risks in relation to
	F2.6 Outline Onshore Infrastructure		drainage, we agree with the drainage strategy
	Drainage Strategy (APP-241) includes all		which endeavours to restrict surface water
	relevant mitigation measures specified in		runoff to greenfield runoff rates and volumes.
	· · · · · · · · · · · · · · · · · · ·		The outline strategy indicates that further
	Volume A3, Chapter 2: Hydrology and		22
	Volume A3, Chapter 2: Hydrology and Flood Risk (APP-026) and is appropriate for		assessment is required to identify if SuDS can
	Flood Risk (APP-026) and is appropriate for		assessment is required to identify if SuDS can
	Flood Risk (APP-026) and is appropriate for managing construction and post		assessment is required to identify if SuDS can be incorporated. We agree with the principles



ID	Statement on which agreement is sought	Position	Commentary
	Volume A4, Annex 5.2: Commitments		A minor point that may require further
	Register (APP-050) includes commitments		discussion is that where attenuation is
	(Co14, Co19, Co191) to produce a strategy		proposed around the OnSS, that this may sit
	in accordance with the outline strategy		within flood zone 2 or 3. Consideration may
	which is secured via Requirement 13 and		need to be given to how that attenuation
	15 of C1.1: Draft Development Consent		interacts with flood risk in these areas, and
	Order (APP-203).		floodplain compensation may need to be
			considered depending on the final design and
			position.
			We are supportive of the commitment Co183
			which requires any temporary access tracks
			crossing floodplain areas to be as consistent
			with existing ground levels as possible. Co184
			has similar commitments where temporary
			watercourse crossings may be required, and
			should be read in conjunction with the relevant
			aspects of the Impacts Register relating to
			temporary watercourse crossing construction
G1.12:	Requirement 13 and 15 of the draft DCO	Agreed	N/A
2.13	(C1.1: Draft DCO (APP-203)) is sufficient to		
	secure the mitigation measures described		
	in F2.6: Outline Onshore Infrastructure		
	Drainage Strategy (APP-241).		
G1.12:	F2.2 Outline Code of Construction	Area for	With the exception of the points raised in our
2.14	Practice (APP-237) (CoCP) includes all	ongoing	response under G1.12 : 2.5 , we agree with the
	relevant mitigation measures specified in	discussion	Outline CoCP for the onshore elements.
	Volume A3, Chapter 2: Hydrology and		
	Flood Risk (APP-026) and is appropriate for		
	managing construction and post		
	construction impacts from Hornsea Four on		
	hydrology and flood risk receptors		
	landward of MLWS.		
	Volume A4, Annex 5.2: Commitments		
	Register (APP-050) includes a commitment		
	(Co124) to produce a CoCP in accordance		
	with the Outline CoCP which is secured via		
	Requirement 17 of C1.1: Draft		
	Development Consent Order (APP-203).		
G1.12:	The application and modification of	Area for	This is linked both to the concerns around
2.15	legislative provisions, as set out in of C1.1 :	ongoing	Watton Beck and the temporary bridges over
•			main rivers, as discussed above. Before the
	Draft Development Consent Order (APP-	discussion	main rivers, as discussed above, before the



ID	Statement on which agreement is sought	Position	Commentary
	Environmental Permitting (England and		disapplication of EPR, we need to agree a
	Wales) 2016 is considered appropriate.		position regarding a way forward.

3.1.4 Onshore Ecology

Table 4: Agreement Log: Onshore Ecology.

ID	Statement on which agreement is sought	Position	Commentary
EIA – Po	plicy and planning		
G1.12:	Volume A3, Chapter 3: Ecology and	TBC	Awaiting position from the Environment Agency
3.1	Nature Conservation (APP-027) has		
	identified all relevant plans and policies		
	and appropriate consideration has been		
	given to them in the assessment.		
EIA – Bo	aseline Environment		
G1.12:	The ES adequately defines the baseline	TBC	Awaiting position from the Environment Agency
3.2	environment relevant to Ecology and		
	Nature Conservation in Section 3.7;		
	Volume A3, Chapter 3: Ecology and		
	Nature Conservation (APP-027) to inform		
	the EIA.		
EIA – As	ssessment Methodology		
G1.12:	The study areas identified in Section 3.5 of	TBC	Awaiting position from the Environment Agency
3.3	Volume A3, Chapter 3: Ecology and		
	Nature Conservation (APP-027) are		
	appropriate.		
G1.12:	The maximum design scenarios identified	TBC	Awaiting position from the Environment Agency
3.4	and outlined, where relevant, for each		
	impact in Section 3.9 of Volume A3,		
	Chapter 3: Ecology and Nature		
	Conservation (APP-027), and in the		
	'Ecology and Nature Conservation' tab of		
	Volume A4, Annex 5.1: Impacts Register		
	(APP-049), represent the maximum		
	project parameters for assessment.		
G1.12:	The potential impacts identified in Table	TBC	Awaiting position from the Environment Agency
3.5	3.13 and Section 3.11 of Volume A3,		
	Chapter 3: Ecology and Nature		
	Conservation (APP-027), and in the		
	'Ecology and Nature Conservation' tab of		
	Volume A4, Annex 5.1: Impacts Register		
	(APP-049), represent a comprehensive list		
	of the potential impacts.		



ID	Statement on which agreement is sought	Position	Commentary
G1.12:	The methodologies used in Section 3.10 of	TBC	Awaiting position from the Environment Agency
3.6	Volume A3, Chapter 3: Ecology and	150	, watering position from the Environment, igency
0.0	Nature Conservation (APP-027) are		
	appropriate for assessing the potential		
	impacts of Hornsea Four.		
FIA – As	sessment Conclusions		
G1.12:	The conclusion that no LSE was identified	TBC	Awaiting position from the Environment Agency
3.7	at Scoping (or during subsequent	150	, watering position from the Environment, igency
0.7	correspondence with ecology and nature		
	conservation stakeholders) for impacts		
	ENC-C-7 (impacts on white clawed		
	crayfish and fish, construction), ENC-C-10		
	(accidental release of pollution,		
	construction), ENC-O-12 (habitat		
	degradation from operation and		
	maintenance of onshore ECC), ENC-O-13		
	(impacts on protected species from		
	operation and maintenance of onshore		
	ECC), ENC-O-15 (accidental release of		
	pollution, operation), ENC-D-16 (impacts		
	on habitats of decommissioning of onshore		
	ECC), ENC-D-19 (accidental release of		
	pollutants, decommissioning), and not		
	being significant in EIA terms, which		
	resulted in these potential impacts being		
	'Scoped out' of further assessment or 'not		
	considered in detail in the ES', is		
	appropriate.		
G1.12:	The conclusion that no LSE was identified	TBC	Awaiting position from the Environment Agency
3.8	for ENC-C-2 (impacts on designated sites,	150	, watering position from the Environment, igeney
0.0	construction), ENC-C-8 (impacts on		
	reptiles, construction), ENC-D-17		
	(decommissioning onshore substation on		
	habitats) at PEIR, and not being significant		
	in EIA terms, and were therefore not		
	considered in detail in the ES, is		
	appropriate.		
G1.12:	The conclusion that impacts ENC-C-1,	TBC	Awaiting position from the Environment Agency
3.9	ENC-C-3, ENC-C-4, ENC-C-5, ENC-C-6,	150	, watering position from the Environment, igeney
J.,	ENC-C-9, ENC-O-11, ENC-O-14, ENC-D-18		
	assessed within Volume A3 Chapter 3:		
	Ecology and Nature Conservation (APP-		
	027) are not considered to be significant		
	in EIA terms is appropriate when		
	considered alongside the commitments in		
	considered atorigate the communents in	1	



ID	Statement on which agreement is sought	Position	Commentary
שו	Table 3.14 and where relevant, identified	Position	Commentary
	further mitigation measures.		
G1.12:	The conclusions of the CEA on ecology	TBC	Awaiting position from the Environment Agency
3.10	and nature conservation presented in	TDC	Awaiting position from the Environment Agency
5.10	Section 3.12 and inter-related effects in		
	Section 3.14 of Volume A3, Chapter 3:		
	Ecology and Nature Conservation (APP-		
	027), are appropriate.		
Draft D	CO / Outline Management Plans / Mitigation an	d Monitorin	a a
G1.12:	Requirement 8, 10 and 19 of the draft	TBC	Awaiting position from the Environment Agency
3.11	DCO (C1.1: Draft DCO (APP-203)) is	TDC	Awarding position from the Environment Agency
5.11	sufficient to secure the mitigation		
	measures described in F2,,3: Outline		
	Ecological Management Plan (APP-238)		
	and F2.8: Outline Landscape		
G1.12:	Management Plan (APP-243). F2.3 Outline Ecological Management Plan	TBC	Awaiting position from the Environment Agency
3.12	(APP-238) includes all relevant mitigation	TDC	Awaiting position from the Environment Agency
5.12	measures specified in Volume A3, Chapter		
	3: Ecology and Nature Conservation		
	(APP-027) and is appropriate for		
	managing construction and post		
	construction impacts from Hornsea Four		
	on ecology and nature conservation		
	receptors landward of MHWS.		
	receptors tandward of Fill 1w3.		
	Volume A4, Annex 5.2: Commitments		
	Register (APP-050) includes a		
	commitment (Co168) to produce an EMP		
	in accordance with the Outline EMP which		
	is secured via Requirement 10 of C1.1 :		
	Draft DCO (APP-203)		
G1.12:	F2.2 Outline Code of Construction	TBC	Awaiting position from the Environment Agency
2.13	Practice (APP-237) includes all relevant		, ,
	mitigation measures specified in Volume		
	A3, Chapter 3: Ecology and Nature		
	Conservation (APP-027) and is		
	appropriate for managing construction		
	and post construction impacts from		
	Hornsea Four on ecology and nature		
	conservation receptors landward of		
	MLWS.		
	Volume A4, Annex 5.2: Commitments		
	Register (APP-050) includes a		



ID	Statement on which agreement is sought	Position	Commentary
	commitment (Co124) to produce a CoCP		
	in accordance with the Outline CoCP		
	which is secured via Requirement 17 of		
	C1.1: Draft DCO (APP-203).		
G1.12:	The biodiversity net gain measures set out	TBC	Awaiting position from the Environment Agency
2.14	in F2.16: Outline Net Gain Strategy (APP-		
	251) are sufficiently comprehensive and		
	appropriate.		

3.1.5 Geology and Ground Conditions

Table 5: Agreement Log: Geology and Ground Conditions.

ID	Statement on which agreement is sought	Position	Commentary
EIA – Po	licy and planning		
G1.12:	Volume A3, Chapter 1: Geology and	Agreed	N/A
4.1	Ground Conditions (APP-025) has		
	identified all relevant plans and policies		
	and appropriate consideration has been		
	given to them in the assessment.		
EIA — Ba	seline Environment		
G1.12:	The ES adequately defines the baseline	Agreed	N/A
4.2	environment relevant to Geology and		
	Ground Conditions in Section 1.7; Volume		
	A3, Chapter 1: Geology and Ground		
	Conditions (APP-025) to inform the EIA.		
EIA – As	sessment Methodology		
G1.12:	The study areas identified in Section 1.5 of	Agreed	N/A
4.3	Volume A3, Chapter 1: Geology and		
	Ground Conditions (APP-025) are		
	appropriate.		
G1.12:	The maximum design scenarios identified	Agreed	N/A
4.4	and outlined, where relevant, for each		
	impact in Section 1.9 of Volume A3,		
	Chapter 1: Geology and Ground		
	Conditions (APP-025), and in the 'Geology		
	and Ground Conditions' tab of Volume A4,		
	Annex 5.1: Impacts Register (APP-049),		
	represent the maximum project		
	parameters for assessment.		
G1.12:	The potential impacts identified in Table	Agreed	N/A
4.5	1.7 and Section 1.11 of Volume A3,		
	Chapter 1: Geology and Ground		
	Conditions (APP-025), and in the 'Geology		



	I		
	and Ground Conditions' tab of Volume A4,		
	Annex 5.1: Impacts Register (APP-049),		
	represent a comprehensive list of the		
	potential impacts.		
G1.12:	The methodologies used in Section 1.10 of	Agreed	N/A
4.6	Volume A3, Chapter 1: Geology and		
	Ground Conditions (APP-025) are		
	appropriate for assessing the potential		
	impacts of Hornsea Four.		
EIA – As	sessment Conclusions		
G1.12:	The conclusion that no LSE was identified	Agreed	N/A
4.7	at Scoping (or during subsequent	9	
	correspondence with geology and ground		
	conditions stakeholders) for impacts GGC-		
	C-1 (damage to designated geological		
	SSSIs), GGC-C-2 (indirect effects on		
	designated geological SSSIs), GGC-C-6 (soil		
	compaction), GGC-C/O-9 (accidental		
	spills), and GGC-D-10 (decommissioning),		
	and not being significant in EIA terms,		
	which resulted in these potential impacts		
	being 'Scoped out' of further assessment		
	or 'not considered in detail in the ES', is		
	appropriate.		
G1.12:	The conclusion that no LSE was identified	Agreed	N/A
4.8	for GGC-O-3 (sterilisation of future mineral		
	resources), GGC-C-7 (dewatering of		
	trenches and excavations), ENC-C-8		
	(physical intrusion into groundwater		
	resource), GGC-C-11 (impacts on		
	groundwater resources) at PEIR, and not		
	being significant in EIA terms, and were		
	therefore not considered in detail in the ES,		
	is appropriate.		
G1.12:	The conclusion that impacts GGC-C-4	Agreed	N/A
4.9	(exposure of workforce to health impacts),		
	GGC-C-5 (encountering contamination		
	during intrusive works), assessed within		
	Volume A3, Chapter 1: Geology and		
	Ground Conditions (APP-025) are not		
	considered to be significant in EIA terms is		
	appropriate when considered alongside		
	the commitments in Table 1.8 and where		
	relevant, identified further mitigation		
	measures.		
	measures.		



G1.12:	The conclusions of the CEA on geology	Agreed	N/A
4.10	and ground conditions presented in		
	Section 1.12 and inter-related effects in		
	Section 1.14 of Volume A3, Chapter 1:		
	Geology and Ground Conditions (APP-		
	025), are appropriate.		
Draft DC	CO / Outline Management Plans / Mitigation an	d Monitoring	
G1.12:	Requirement 14 of the draft DCO (C1.1:	Agreed	N/A
4.11	Draft DCO (APP-203) is sufficient to secure		
	the mitigation measures associated with		
	contaminated land and groundwater.		
G1.12:	F2.2 Outline Code of Construction	Agreed	N/A
4.12	Practice (APP-237) includes all relevant		
	mitigation measures specified in of		
	Volume A3, Chapter 1: Geology and		
	Ground Conditions (APP-025) and is		
	appropriate for managing construction		
	and post construction impacts from		
	Hornsea Four on ecology and nature		
	conservation receptors landward of		
	MLWS.		
	Volume A4, Annex 5.2: Commitments		
	Register (APP-050) includes a		
	commitment (Co124) to produce a CoCP		
	in accordance with the Outline CoCP		
	which is secured via Requirement 17 of		
	C1.1: Draft Development Consent Order.		

3.1.6 Onshore WFD

Table 6: Agreement log: Onshore WFD.

ID	Statement on which agreement is sought	Position	Commentary
G1.12:	Section 1 of Volume A6, Annex 2.3: Water	Agreed	N/A
5.1	Framework Directive Compliance		
	Assessment has identified all appropriate		
	legislation and policy context relevant to		
	the onshore WFD Assessment.		
G1.12:	The methodology for the WFD	Agreed	N/A
5.2	assessment as set out in Section 2 and		
	Section 3 of Volume A6, Annex 2.3: Water		
	Framework Directive Compliance		
	Assessment , is acceptable and		
	satisfactory.		



	T		
G1.12:	The parametres used for the Scoping and	Agreed	N/A
5.3	Impact assessment stages of the WFD		
	assessment, as set out in Section 3.3 of		
	Volume A6, Annex 2.3: Water Framework		
	Directive Compliance Assessment, have		
	adequately assessed the maximum design		
	scenarios (in Section 2.2 to Section 2.4 of		
	Volume A6, Annex 2.3: Water Framework		
	Directive Compliance Assessment) for		
	Hornsea Four (both alone and		
	cumulatively).		
G1.12:	The water bodies identified in Section 4.1	Agreed	N/A
5.4	and Table 1 of Volume A6, Annex 2.3:		
	Water Framework Directive Compliance		
	Assessment, have been accurately		
	screened and characterised.		
G1.12:	The Scoping process outlined in Section	Agreed	N/A
5.5	4.2 of Volume A6, Annex 2.3: Water		
	Framework Directive Compliance		
	Assessment, has identified the quality		
	elements for each of the relevant water		
	bodies.		
G1.12:	The conclusions of the impact assessment,	Agreed	N/A
5.6	as set out in Section 4.3 and Section 5 of		
	Volume A6, Annex 2.3: Water Framework		
	Directive Compliance Assessment,		
	identifying.		



4 Offshore Agreement log

4.1 Overview

- 4.1.1.1 This section of the SoCG set out the level of agreement between the parties for each relevant offshore topic (as identified in paragraph 1.1.1.2).
- 4.1.1.2 The following section of this SoCG summaries the level of agreement between Hornsea Four and the Environment on all relevant matters seaward of MHWS.

Table 7: Agreement Log: Offshore Matters

ID	Statement on which agreement is sought	Position	Commentary			
Offshore WFD						
G1.12:	Volume A5, Annex 2.2: Water	Agreed	N/A			
6.1	Framework Directive Assessment (APP-					
	069) accurately and adequately					
	considers the effects of Hornsea Four to					
	ensure that the proposed activities would					
	not cause or contribute to deterioration					
	of status or jeopardise any waterbodies					
	from achieving Good status.					
Marine Ge	ology, Oceanography and Physical Processes					
G1.12:	Volume A2, Chapter 1: Marine Geology,	Agreed	N/A			
6.2	Oceanography and Physical Processes					
	(APP-013) accurately and adequately					
	assesses potential impacts and identifies					
	that no significant effects will occur as a					
	result of Hornsea Four.					
Fisheries						
G1.12:	Volume A2, Chapter 6: Commercial	TBC	Awaiting position from the Environment			
6.3	Fisheries (APP-018) accurately and		Agency			
	adequately assesses potential impacts					
	and identifies that no significant effects					
	will occur as a result of Hornsea Four.					



5 Summary

- 5.1.1.1 This SoCG has outlined the consultation that has taken place between the Applicant and the Environment Agency during the pre-application phase. The agreement logs present the position reached between Hornsea Four and the Environment Agency in relation to relevant onshore and offshore matters.
- 5.1.1.2 This SoCG will be updated as discussions progress and made available to the ExA as requested through the DCO examination phase.