Hornsea Project Four

Commitments Register

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1. Glossary and Acronyms

Glossary

Term	Definition
Annex 1 habitats	A type of habitat listed in Annex I of Council Directive 92/43/EEC on the conservation of natural habitats and of wild fauna and flora.
Connection works	Work Nos. 6 to 10 of the draft DCO and any related further associated development in connection with those works.
Enhancement Commitment	Commitments made by the project to provide broader environmental enhancement that Hornsea Four seeks to deliver across a range of environmental aspects. Enhancement commitments are not required to mitigate environmental impacts of the project.
Joint bays	An excavation located at regular intervals along the cable route consisting of a concrete flat base slab constructed beneath the ground to facilitate the jointing together of the cables.
Link boxes	These are smaller pits, compared to JBs, which house connections between the cable shielding, joints for fibre optic cables and other auxiliary equipment.
Logistics compounds	A construction site associated with the connection works including central offices, welfare facilities, and storage for construction of the works.
Maintenance period	To inspect, upkeep, repair, adjust, and alter and further includes remove, reconstruct and replace, to the extent assessed in the environmental statement.
Mobilisation period	Arrival and departure of the workforce, site inspections, safety checks, site meetings, low-key maintenance and safety checking. A full description is provided in the outline CoCP.
Primary Commitment	Measures that form an intrinsic part of the design that are described in the design evolution narrative and included within the project description e.g. reducing development heights to reduce visual impact.
Relevant Planning Authority	East Riding of Yorkshire Council, or any successor to it as planning authority for the land in question.
Regular Operator	Commercial operator whose vessel(s) are observed to transit through a particular region on a regular basis.
Secondary Commitment	Measures that require further activity in order to achieve the anticipated outcome, e.g. development of the optimal reinstatement measures for restoring a disturbed sensitive natural habitat.
Tertiary Commitment	Measures which will be required regardless of the EIA process as they are imposed e.g. as a result of legislative requirements and/or standard industry practices e.g. via a Construction Environmental Management Plan (CEMP), Code of Construction Practice (CoCP) or similar.
Offshore	Offshore covers seaward of MHWS and includes the intertidal zone which is between MHWS and MLWS.
Onshore	Onshore covers landward of MHWS.

Acronyms

Acronym	Definition
AEZs	Archaeological exclusion zones
AfL	Agreement for Lease
CAA	Civil Aviation Authority
CoCP	Code of Construction Practice
CPEMMP	Construction Project Environmental Management and Monitoring Plan
CTMP	Construction Traffic Management Plan
DCO	Development Consent Order
DML	Deemed Marine License
EA	Environment Agency
ECoW	Ecological Clark of Works
ERCoP	Emergency Response and Cooperation Plan
ERYC	Lead Local Flood Authority
HDD	Horizontal Directional Drill
HGV	Heavy Goods Vehicle
IAQM	Institute of Air Quality Management
IDB	Internal Drainage Board
LAT	Lowest Astronomical Tide
LIE	Local Information Event
LLFA	Lead local flood authority
MCA	Marine Conservation Zone
MCZ	Marine Conservation Zone
MHCC	Marine Helicopter Coordination Centre
MHWS	Mean High Water Springs
MMO	Marine Management Organisation
MSL	Mean Sea Level
NSR	Nearest Sensitive Receptor
OEMP	Outline Ecological Management Plan
OnSS	Onshore Substation
OREIs	Offshore Renewable Energy Installations
PAD	Protocol for Archaeological Discoveries
PEIR	Preliminary Environmental Information Report
PPG	Pollution Prevention Guidance (PPG)
PPP	Pollution Prevention Plan
PRA	Preliminary Risk Assessment
ProW	Public Rights of Way
RPSS	Route Planning and Site Selection
SAC	Special Area of Conservation
SPA	Special Protection Area
SSSI	Site of Special Scientific Interest
SuDS	Sustainable Drainage System
VMP	Vessel Management Plan
WSI	Written Scheme of Investigation
WTG	Wind Turbine Generator

2. Relevant Documents

Document Name	Document Reference	DCO Reference
Draft Development Consent Order (DCO)	C1.1	n/a
DCO Works Plans - Offshore	D1.4.1	n/a
DCO Works Plans - Onshore	D1.4.2	n/a
Outline Code of Construction Practice (CoCP)	F2.2	DCO Requirement 17
Outline Ecological Management Plan (EMP)	F2.3	DCO Requirement 10
Outline Marine Written Scheme of Investigation (WSI)	F2.4	DCO Schedule 11, Part 2 - Condition 13(2) & 13(3) and; DCO Schedule 12, Part 2 - Condition 13(2) & 13(3)
Outline Marine Mammal Mitigation Protocol (MMMP)	F2.5	DCO Schedule 11, Part 2 - Condition 13(1)(g) and; DCO Schedule 12, Part 2 - Condition 13(1)(g)
Outline Onshore Infrastructure Drainage Strategy	F2.6	DCO Requirement 13 & 15
Outline Monitoring Plan	F2.7	DCO Schedule 11, Part 2 - Condition 17, 18 and 19 and; DCO Schedule 12, Part 2 - Condition 17, 18 and 19.
Outline Landscape Management Plan	F2.8	DCO Requirement 8
Outline Fisheries Coesistence and Liaison Plan	F2.9	n/a
Outline Written Scheme of Investigation for Onshore Archaeology	F2.10	DCO Requirement 16
Outline Design Plan	F2.13	DCO Requirement 7
Outline Enhancement Strategy	F2.14	DCO Requirement 22
Outline Offshore Cable Specification and Installation Plan	F2.15	DCO Schedule 11, Part 2 - Condition 13(1)(h) and; DCO Schedule 12, Part 2 - Condition 13(1)(h)
Outline Net Gain Strategy	F2.16	DCO Requirement 6
HVAC Booster Station Lighting Plan	F2.17	DCO Schedule 12, Part 2 - Condition 22
Outline Employment and Skills Plan	F2.18	DCO Requirement 25

3. Overview

Hornsea Four has adopted a number of Primary, Secondary and Tertiary Commitments (see glossary for definitions) as part of the EIA process in order to avoid or reduce impacts where possible. This annex details all Commitments that are taken forward within the ES and provides details as to how the Commitments are secured, for example by providing cross referencing to the DCO and relevant outline management plans. A full list of documents which are relevant to and should be read in conjunction with the Commitments Register is set out in Section 2.

Commitments have been informed through consultation on the Scoping Report, subsequent informal consultation with a range of key consultees and feedback from members of the public at Local Information Events. Following formal consultation on the PEIR, the Commitments Register has been updated to include new or amended Commitments in response to feedback where possible. An overview of the consultation undertaken to date is provided within **Volume 1, Chapter 6, Consultation**.

The following tables provides an overview of the information contained within the Commitment Register.

Table 1: Commitment Register (Section 4) Explained

Commitment Reference	Each Commitment has a unique ID assigned to it to enable consultees to easily track the evolution of commitments throughout the development of the project.
Commitment Stage	Relates to the stage of the project when the Commitment was made.
Type	Details whether the Commitment is Primary, Secondary, Tertiary or Enhancement (see Glossary).
Hornsea Four Commitment	Details the Commitment made by Hornsea Four.
Project Phase	Details the project phase the commitment is relevant to (e.g. construction).
Project Element	Details the project elements the commitment is relevant to (e.g. Co96 which is relevant to agreement on the layout of the turbines would be relevant to the 'array').
Onshore Topic relevance	Details the onshore topics which the Commitment is relevant to. The user can filter by topic to allow all Commitments relevant to a specific topic to be seen. The Commitment will also be detailed within the identified Onshore Chapters of the ES.
Offshore Topic relevance	Details the offshore topics which the Commitment is relevant to. The user can filter by topic to allow all Commitments relevant to a specific topic to be seen. The Commitment will also be detailed within the identified Offshore Chapters of the ES.
How is the Commitment secured?	Details the mechanism for how the Commitment is to be legally secured (for example through inclusion of a Requirement of the DCO).
When (e.g. pre-construction)	Where Commitments are secured though a management Strategy or Plan (for example the Code of Construction Practice) this column provides details in relation to the timing for final approval of the Strategy or Plan.
Who (decision maker)	Where Commitments are secured though a management Strategy or Plan (for example the Code of Construction Practice) this column provides details in relation to the decision maker for final approval of the Strategy or Plan.
Relevant Application Documents (at ES stage)	Where Commitments are secured though a management Strategy or Plan, Hornsea Four has sought to provide an Outline of that Strategy or Plan. Where this is the case this is detailed within this column. An overview of the Strategies and Plans provided in support of the DCO application can be found in Section 2 of this Register.

Table 2: Change Log (Section 5 & 6) Explained

Commitment Reference	Each Commitment has a unique ID assigned to it to enable consultees to easily track the evolution of commitments throughout the development of the project.
Commitment Stage	Relates to the stage of the project when the Commitment was made.
Hornsea Four Commitment	Details the Commitments made by Hornsea Four at RPSS, Scoping and PEIR stages of the project which have since been revised or removed. Text which is struck through has been removed from the Commitment and is no longer included within the Commitment Register. Text in red is new text which has now been added to the Commitments within the Commitment Register.
Explanation of the change	Provides an explanation for the changes made to RPSS, Scoping and PEIR Commitments. For example commitments may have been updated to provide clarity or where possible remove ambiguous statements. Commitments may also have been merged to streamline the commitments which are proposed by the project.

Table 3: Public Commitments (Section 7) Explained

Public Commitment Reference	Members of the public were asked to provide suggested Commitments during the Local Information Events. Each suggestion was given a unique reference number.
Public Commitment/ Comment	Details the Commitment or comment made by the member of the public.
Hornsea Four Action	Details how the comment was responded to: i.e. New commitment made; an existing commitment was amended to accommodate the comment made; the comment is covered by an existing comment; or the comment is noted and requires no further action.
Relevant Commitment Reference	Provides a reference to the new or relevant updated/existing commitments which are included within the Commitment Register (Section 4).
Hornsea Four Response	Hornsea Fours response to the comment made and an explanation as how this has been taken into consideration within the Commitment Register.

Commitment Reference	Commitment Stage	Type	Hornsea Four Commitment	Project Phase	Project Element					Onshore Topic relevance										Offshore Topic relevance											How is the Commitment secured?	When (e.g. pre-commencement)	Who (decision maker)	Relevant Application Documents
					Onshore ECC	Offshore ECC	Landfall	Onshore Substation (ONSS)	Array	Geology & Ground Conditions, Hydrology & Flood Risk		Ecology	Landscape & Visual	Historic Environment, Land Use & Amenity		Traffic & Transport	Noise & Vibration	Air Quality	Socio-economics	Marine Processes	Benthic & Intertidal Ecology	Fish & Shellfish	Marine Mammals	Offshore & Intertidal	Commercial Fisheries	Shipping & Navigation	Aviation and Radar	Marine Archaeology	Seascape	Infrastructure & Other Users				
Co1	Scoping	Primary	All Environment Agency (EA) main rivers, Internal Drainage Board (IDB) maintained drains, main roads and railways will be crossed by HDD or other trenchless technology as set out in the Onshore Crossing Schedule. Where HDD technologies are not practical, the crossing of Ordinary watercourses may be undertaken by open cut methods. In such cases, temporary measures will be employed to maintain flow of water along the watercourse. Main rivers will not be temporarily dammed and/or rerouted.	Construction	X		X	X		X	X	X					X														DCO Requirement 17 (Code of construction practice)	Pre-commencement of the relevant stage of the connection works	Relevant Planning Authority	Outline CoCP (Doc No. F2.2)
Co2	RPSS	Primary	A range of sensitive historical, cultural and ecological conservation areas (including statutory and non-statutory designations) have been directly avoided by the permanent Hornsea Four footprint, at the point of Development Consent Order Submission (DCO). These include, but are not restricted to: Listed Buildings (564 sites); Scheduled Monuments (30 sites); Registered Parks and Gardens (Thwaite Hall and Risby Hall); Onshore Conservation Areas (18 sites); Onshore National Site Network (one site); Offshore National Site Network (three sites); Offshore Marine Conservation Zones (two sites); Sites of Special Scientific Interest (two sites); Local Nature Reserves (none have been identified); Local Wildlife sites (33 sites); Yorkshire Wildlife Trust Reserves (none have been identified); Royal Society for the Protection of Birds (RSPB) Reserves (none have been identified); Heritage Coast; National Trust land; Ancient Woodland (10 sites and known Tree Preservation Orders (TPOs)); non-designated built heritage assets (334 sites); and historic landfill (none have been identified). Where possible, unprotected areas of woodland, mature and protected trees (i.e. veteran trees) have and will also be avoided.	Construction	X		X	X		X		X	X	X							X	X	X		X	X					X	DCO Works Plan - Onshore; and DCO Works Plan - Offshore	n/a	n/a	DCO Works Plan - Onshore (Doc No. D1.4.2) DCO Works Plan - Offshore (Doc No. D1.4.1)
Co4	PEIR	Tertiary	A Pollution Prevention Plan (PPP) will be developed in accordance with the outline PPP and will include details of emergency spill procedures. Good practice guidance detailed in the Environment Agency's Pollution Prevention Guidance (PPG) notes (including PPG01, PPG05, PPG08 and PPG21) will be followed where appropriate, or the latest relevant available guidance.	Construction	X		X	X		X	X	X																				DCO Requirement 17 (Code of construction practice)	Pre-commencement of the relevant stage of the connection works	Relevant Planning Authority	Outline CoCP (Doc No. F2.2)
Co6	PEIR	Tertiary	During construction of piled foundations, the following guidance will be used: Piling and Penetrative Ground Improvement Methods on land Affected by Contamination: Guidance on Pollution Prevention (Environment Agency, 2001), or latest relevant available guidance.	Construction				X		X	X	X																				DCO Requirement 17 (Code of construction practice)	Pre-commencement of the relevant stage of the connection works	Relevant Planning Authority	Outline CoCP (Doc No. F2.2)
Co7	Scoping	Primary	The construction work area associated with onshore export cable corridor will be 80 m working width to minimise the construction footprint, except at the Network Rail Crossing near Beswick, the approach to landfall and the approach to the onshore substation. At the Network Rail Crossing the working width is extended up to 120 m to facilitate HDD of the railway line. The permanent onshore export cable corridor width will be 60m except where obstacles are encountered such as the Network Rail Crossing near Beswick (where the permanent footprint may be extended up to 120 m to facilitate HDD of the railway line), and on the approach to the landfall and onshore substation.	Construction	X					X		X	X	X																			DCO Works Plan - Onshore	n/a	n/a	DCO Works Plan - Onshore (Doc No. D1.4.2)
Co8	PEIR	Tertiary	Soil will be stored and managed in accordance with DEFRA Construction Code of Practice for Sustainable Use of Soils on Construction Sites (Ref PB1328) or the latest relevant available guidance.	Construction	X		X	X		X	X				X																DCO Requirement 17 (Code of construction practice)	Pre-commencement of the relevant stage of the connection works	Relevant Planning Authority	Outline CoCP (Doc No. F2.2)
Co10	Scoping	Tertiary	Post-construction, the working area will be reinstated to pre-existing condition as far as reasonably practical in line with DEFRA 2009 Construction Code of Practice for the Sustainable Use of Soils on Construction Sites PB13298 or latest relevant available guidance.	Construction	X		X	X		X	X		X			X															DCO Requirement 17 (Code of construction practice) DCO Requirement 20 (Restoration of land used temporarily for construction)	Pre-commencement of the relevant stage of the connection works Within 12 months of completion of the connection works	Relevant Planning Authority	Outline CoCP (Doc No. F2.2)
Co13	PEIR	Tertiary	Where cable trenching or road widening of the construction accesses is required across perched or near-surface secondary A or B aquifers, measures will be implemented to protect groundwater quality. These will be detailed within the Pollution Prevention Plan (PPP) (Co4). Additionally, in such areas, thermally insulated cables will be used to minimise effects on groundwater temperature). Furthermore, measures to ensure that the cable trench does not become a conduit for groundwater flow will also be implemented. All such measures will be identified following consultation with the Environment Agency and will be reported within the CoCP (Co124) and in line with the requirements of Section 23-25 of the Land Drainage Act 1991, or the latest relevant available guidance.	Construction	X					X	X																					DCO Requirement 17 (Code of construction practice)	Pre-commencement of the relevant stage of the connection works	Relevant Planning Authority	Outline CoCP (Doc No. F2.2)
Co14	PEIR	Tertiary	A Construction Drainage Scheme will be developed for the temporary onshore construction works in accordance with the Outline Onshore Infrastructure Drainage Strategy. The Construction Drainage Scheme will ensure that existing land drainage is maintained during construction and will identify specific drainage measures for each area of land based on information identified and recorded by a Land Drainage Consultant prior to construction. The Construction Drainage Scheme will be developed in consultation with landowners, the Lead Local Flood Authority (ERYC), the Environment Agency and relevant Internal Drainage Board.	Construction	X		X	X		X	X																					DCO Requirement 13 (Surface and foul water drainage)	Pre-commencement of the relevant stage of the connection works	Lead local flood authority	Outline Onshore Infrastructure Drainage Strategy (Doc No. F2.6)
Co18	PEIR	Secondary	HDD entry and exit points will be located at least 9 m away from IDB and Ordinary surface watercourses and 20m from EA surface water courses or the landward toe of the EA surface watercourse's flood defences. Where a surface watercourse is to be crossed by HDD, the onshore export cables will be installed at least 1.2 m beneath the hard bed of any watercourses and the optimal clearance depth beneath watercourses will be agreed with the relevant authorities prior to construction. Where EA flood defences are present a minimum 1.2 m vertical clearance will be maintained between the hard bed of the watercourse and the landward toe of those flood defences. Where Hornsea Four crosses sites of particular sensitivity (e.g. embanked EA watercourses, SSSIs or groundwater Inner Source Protection Zones (SPZs)) a hydrogeological risk assessment will be undertaken to inform a site specific crossing method statement which will also be agreed with the relevant authorities prior to construction.	Construction	X					X	X	X																				DCO Requirement 17 (Code of construction practice)	Pre-commencement of the relevant stage of the connection works	Relevant Planning Authority	Outline CoCP (Doc No. F2.2)
Co19	PEIR	Tertiary	An Onshore Infrastructure Drainage Strategy will be developed for the permanent onshore operational development in accordance with the Outline Onshore Infrastructure Drainage Strategy. The Onshore Infrastructure Drainage Strategy will include measures to ensure that existing land drainage is reinstated and/or maintained. This will include measures to limit discharge rates and attenuate flows to maintain greenfield run-off rates at the Onshore Substation. The Onshore Infrastructure Drainage Strategy will be developed in line with the latest relevant drainage guidance notes in consultation with the Environment Agency, Lead Local Flood Authority and relevant Internal Drainage Board as appropriate.	Construction	X			X		X	X				X																	DCO Requirement 13 (Surface and foul water drainage) DCO Requirement 15 (Surface water)	Pre-commencement of the relevant stage of the connection works Pre-commencement of the relevant stage of the works in Work No. 7	Lead local flood authority Relevant Planning Authority	Outline Onshore Infrastructure Drainage Strategy (Doc No. F2.6)

Commitment Reference	Commitment Stage	Type	Hornsea Four Commitment	Project Phase	Project Element						Onshore Topic relevance										Offshore Topic relevance											How is the Commitment secured?	When (e.g. pre-commencement)	Who (decision maker)	Relevant Application Documents
					Onshore ECC	Offshore ECC	Landfall	Onshore Substation (ONSS)	Array	Geology & Ground Conditions, Hydrology & Flood Risk	Ecology	Landscape & Visual	Historic Environment, Land Use & Amenity	Traffic & Transport	Noise & Vibration	Air Quality	Socio-economics	Marine Processes	Benthic & Intertidal Ecology	Fish & Shellfish	Marine Mammals	Offshore & Intertidal	Commercial Fisheries	Shipping & Navigation	Aviation and Radar	Marine Archaeology	Seascape	Infrastructure & Other Users				
Co25	Scoping	Primary	The onshore export cable corridor (inclusive of the 400kV export cables) will be completely buried underground for its entire length. No overhead pylons will be installed as part of the consented works for Hornsea Four.	Construction	X					X		X	X																	DCO Schedule 1, Part 1 Authorised Development	n/a	n/a	n/a
Co26	Scoping	Primary	Where hedgerows and/or trees require removal, this will be undertaken prior to topsoil removal. Sections of hedgerows and trees which are removed will be replaced using like for like hedgerow species.	Construction	X		X	X			X	X	X																	DCO Requirement 17 (Code of construction practice); and; DCO Requirement 10 (Ecological Management Plan)	Pre-commencement of the relevant stage of the connection works Pre-commencement of the relevant stage of the connection works	Relevant Planning Authority Relevant Planning Authority	Outline CoCP (Doc No. F2.2) Outline EMP (Doc No. F2.3)
Co27	PEIR	Primary	Trees identified to be retained within the Onshore Crossing Schedule will be fenced off and worked around. Where works are required close to trees that will remain in situ, techniques will be used to safeguard the root protection zone.	Construction	X		X	X			X	X																		DCO Requirement 17 (Code of construction practice); and; DCO Requirement 10 (Ecological Management Plan)	Pre-commencement of the relevant stage of the connection works Pre-commencement of the relevant stage of the connection works	Relevant Planning Authority Relevant Planning Authority	Outline CoCP (Doc No. F2.2) Outline EMP (Doc No. F2.3)
Co28	Scoping	Primary	Joint Bays will be completely buried, with the land above reinstated except where access will be required from ground level, e.g. via link box chambers and manholes.	Construction	X		X			X		X	X																	DCO Requirement 17 (Code of construction practice); and; DCO Requirement 20 (Restoration of land used temporarily for construction)	Pre-commencement of the relevant stage of the connection works Within 12 months of completion of the connection works	Relevant Planning Authority Relevant Planning Authority	Outline CoCP (Doc No. F2.2)
Co30	PEIR	Secondary	A Landscape Management Plan will be developed in accordance with the Outline Landscape Management Plan. The Landscape Management Plan will include details of mitigation planting at the onshore substation site, including the number, location, species and details of management and maintenance of planting. Where practical, landscape mitigation planting will be established as early as reasonably practicable in the construction phase.	Construction	X		X	X			X	X	X																	DCO Requirement 8 (Provision of landscaping)	Pre-commencement of the relevant stage of the connection works	Relevant Planning Authority	Outline Landscape Management Plan (Doc No. F2.8)
Co33	Scoping	Tertiary	All vegetation requiring removal will be undertaken outside of the bird breeding season. If this is not reasonably practicable, the vegetation requiring removal will be subject to a nesting bird check by a suitably qualified ECoW. If nesting birds are present, the vegetation will not be removed until the young have fledged or the nest failed.	Construction	X		X	X			X																			DCO Requirement 10 (Ecological Management Plan); and DCO Requirement 17 (Code of construction practice).	Pre-commencement of the relevant stage of the connection works Pre-commencement of the relevant stage of the connection works	Relevant Planning Authority Relevant Planning Authority	Outline EMP (Doc No. F2.3) Outline CoCP (Doc No. F2.2)
Co35	PEIR	Secondary	Where required, provision will be made for badger access in relevant construction areas, when work is not taking place in order to ensure normal movements as far as reasonably possible. Provision will be made to ensure avoiding the entrapment of any animals within relevant construction areas. Checks will be made prior to the start of any works to ensure no animals are trapped. Appropriate checks will be made as required by the ECoW.	Construction	X		X	X			X																			DCO Requirement 10 (Ecological Management Plan); and DCO Requirement 17 (Code of construction practice).	Pre-commencement of the relevant stage of the connection works Pre-commencement of the relevant stage of the connection works	Relevant Planning Authority Relevant Planning Authority	Outline EMP (Doc No. F2.3) Outline CoCP (Doc No. F2.2)
Co36	Scoping	Primary	Core working hours for the construction of the onshore components of Hornsea Four will be as follows: • Monday to Friday: 07:00 - 18:00 hours; • Saturday: 07:00 - 13:00 hours; • Up to one hour before and after core working hours for mobilisation ("mobilisation period"), i.e. 06:00 to 19:00 weekdays and 06:00 to 14:00 Saturdays; and • Maintenance period 13:00 to 17:00 Saturdays. *Activities carried out during mobilisation and maintenance will not generate significant noise levels (such as piling, or other such noisy activities).* In circumstances outside of core working practices, specific works may have to be undertaken outside the core working hours. ERYC will be informed in writing.	Construction	X		X	X			X				X	X														DCO Requirement 17 (Code of construction practice)	Pre-commencement of the relevant stage of the connection works	Relevant Planning Authority	Outline CoCP (Doc No. F2.2)
Co41	Scoping	Primary	All HDD crossings will be undertaken by non-impact methods in order to minimise construction vibration beyond the immediate location of works.	Construction	X		X			X	X	X				X												DCO Requirement 17 (Code of construction practice)	Pre-commencement of the relevant stage of the connection works	Relevant Planning Authority	Outline CoCP (Doc No. F2.2); Onshore Crossing Schedule (Doc No. A4.4.1)

Commitment Reference	Commitment Stage	Type	Hornsea Four Commitment	Project Phase	Project Element				Onshore Topic relevance												Offshore Topic relevance												How is the Commitment secured?	When (e.g. pre-commencement)	Who (decision maker)	Relevant Application Documents
					Onshore ECC	Offshore ECC	Landfall	Onshore Substation (ONSS)	Array	Geology & Ground Conditions	Hydrology & Flood Risk	Ecology	Landscape & Visual	Historic Environment	Land Use & Amenity	Traffic & Transport	Noise & Vibration	Air Quality	Socio-economics	Marine Processes	Benthic & Intertidal Ecology	Fish & Shellfish	Marine Mammals	Offshore & Intertidal	Commercial Fisheries	Shipping & Navigation	Aviation and Radar	Marine Archaeology	Seascape	Infrastructure & Other Users				
Co43	PEIR	Secondary	All temporary and permanent working areas of the onshore Export Cable Corridor (ECC), logistics compounds and the onshore substation site will be clearly marked and secured with appropriate fencing.	Construction	X																										DCO Requirement 17 (Code of construction practice) *(relevant to temporary fencing)* DCO Requirement 12 (Fencing and other means of enclosure) *(relevant to permeant fencing)*	Pre-commencement of the relevant stage of the connection works Pre-commencement of the relevant stage of the connection works	Relevant Planning Authority Relevant Planning Authority	Outline CoCP (Doc No. F2.2)
Co44	RPSS	Primary	The Holderness Inshore Marine Conservation Zone (MCZ) will not be crossed by the offshore export cable corridor including the associated temporary works area.	Construction		X														X	X	X										DCO Works Plans - Offshore	n/a	n/a	DCO Works Plan - Offshore (Doc No. D1.4.1)
Co45	RPSS	Primary	The Holderness Offshore Marine Conservation Zone (MCZ) will not be crossed by the offshore export cable corridor including the associated temporary works area.	Construction		X														X	X	X										DCO Works Plans - Offshore	n/a	n/a	DCO Works Plan - Offshore (Doc No. D1.4.1)
Co46	RPSS	Primary	All intrusive construction activities will be routed and microsited to avoid any identified archaeological receptors pre construction, with buffers as detailed in the Marine Written Scheme of Investigation (WSI).	Construction		X			X																		X				DCO Schedule 11, Part 2 - Condition 13(2) & 13(3) and; DCO Schedule 12, Part 2 - Condition 13(2) & 13(3) *(Marine Written Scheme of Archaeological Investigation)*	Pre-commencement of the relevant stage of licensed activities	MMO	Outline Marine Written Scheme of Investigation (Doc No. F2.4)
Co48	PEIR	Primary	Habitats of principal importance (Section 41 of the 2006 Natural Environment and Rural Communities (NERC) Act) will be avoided where possible, informed through the undertaking of survey works pre-construction.	Pre-construction		X			X												X										DCO Schedule 11, Part 2 - Condition 13(1)(a)(v) and; DCO Schedule 12, Part 2 - Condition 13(1)(a)(v) *(Pre-construction plans and documentation)*	Pre-commencement of the relevant stage of licensed activities	MMO	Outline Monitoring Plan (Doc No. F2.7)
Co49	RPSS	Primary	There will be no permanent High Voltage infrastructure installed above surface within 110 m of residential properties and sub surface infrastructure (including the onshore export cable) within 50 m of residential properties.	Construction	X		X	X					X				X	X													DCO Requirement 7 (Detailed design approval onshore); and DCO Works Plan - Onshore	Pre-commencement of the relevant stage of the works in Work No. 7 n/a	Relevant Planning Authority	Outline Design Plan (F2.13)
Co57	PEIR	Tertiary	Where offshore export cables must cross third party infrastructure, such as existing cables and pipelines, both the third-party asset and the installed cables will be protected.	Construction		X																								X	DCO Schedule 11, Part 2 - Condition 13(1)(h) and; DCO Schedule 12, Part 2 - Condition 13(1)(h) *(Cable specification and installation plan)*	Pre-commencement of the relevant stage of licensed activities	MMO	n/a
Co61	PEIR	Secondary	Prior to the commencement of works, the contractor (or project appointed Agricultural Liaison Officer) will undertake soil condition surveys and intrusive soil survey trial pits to identify and describe the physical and nutrient characteristics of the existing soil profiles. Such work will inform the reinstatement under Co10.	Pre-construction	X		X	X		X					X																	DCO Requirement 17 (Code of construction practice)	Pre-commencement of the relevant stage of the connection works	Relevant Planning Authority	Outline CoCP (Doc No. F2.2)
Co62	PEIR	Secondary	Temporary access points off the highway will be installed to facilitate vehicular access from the road, and into the onshore cable corridor during construction. The access points will be constructed in line with the local authorities' requirements, relevant appropriate standards and in accordance with the principles established in the Outline Construction and Traffic Management Plan.	Construction	X		X	X								X																DCO Requirement 18 (Construction traffic management plan); and Access to Works Plans	Pre-commencement of the relevant stage of the connection works n/a	Relevant Planning Authority n/a	Outline CoCP (Doc No. F2.2) Access to Works Plans (Doc No. D1.5.1)
Co63	PEIR	Primary	The haul road will be installed within the works area of the onshore Export Cable Corridor (ECC) to minimise impacts during construction on agricultural land. With the exception of a section of haul road at Beck Hill (south of Gembling House, YO25 8HS) and Miles Lane (Leconfield, HU17 7RB).	Construction	X		X	X							X																	DCO Requirement 17 (Code of construction practice)	Pre-commencement of the relevant stage of the connection works	Relevant Planning Authority	Outline CoCP (Doc No. F2.2)
Co64	Scoping	Tertiary	Topsoil and subsoil will be stored in separate stockpiles in line with DEFRA Construction Code of Practice for the Sustainable Use of Soils on Construction Sites PB13298 or the latest relevant available guidance. Any suspected or confirmed contaminated soils will be appropriately separated, contained and tested before removal (if required).	Construction	X		X	X		X	X						X															DCO Requirement 17 (Code of construction practice) DCO Requirement 14 (Contaminated land and groundwater scheme)	Pre-commencement of the relevant stage of the connection works Pre-commencement of the relevant stage of the connection works	Relevant Planning Authority Relevant Planning Authority	Outline CoCP (Doc No. F2.2)
Co65	PEIR	Tertiary	A Site Waste Management Plan (SWMP) will be developed in accordance with the Outline Site Waste Management Plan, with consideration of the latest relevant available guidance.	Construction	X		X	X		X	X	X																			DCO Requirement 17 (Code of construction practice)	Pre-commencement of the relevant stage of the connection works	Relevant Planning Authority	Outline CoCP (Doc No. F2.2)

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					Onshore ECC	Offshore ECC	Landfall	Onshore Substation (ONSS)	Array	Geology & Ground Conditions	Hydrology & Flood Risk	Ecology	Landscape & Visual	Historic Environment	Land Use & Amenity	Traffic & Transport	Noise & Vibration	Air Quality	Socio-economics	Marine Processes	Benthic & Intertidal Ecology	Fish & Shellfish	Marine Mammals	Offshore & Intertidal	Commercial Fisheries	Shipping & Navigation	Aviation and Radar	Marine Archaeology	Seascape	Infrastructure & Other Users				
Co68	PEIR	Secondary	All logistics compounds will be removed and sites will be reinstated when construction has been completed.	Construction	X		X	X		X	X	X	X		X															DCO Requirement 17 (Code of construction practice) DCO Requirement 20 (Restoration of land used temporarily for construction)	Pre-commencement of the relevant stage of the connection works Within 12 months of completion of the connection works	Relevant Planning Authority Relevant Planning Authority	Outline CoCP (Doc No. F2.2)
Co69	PEIR	Secondary	Construction site lighting will only operate when required and will be positioned and directed to avoid unnecessary illumination to residential properties, sensitive ecological receptors, footpath users, and minimise glare to users of adjoining public highways. Construction site lighting will be designed in accordance with latest relevant available guidance and legislation and the details of the location, height, design and luminance of lighting to be used will be detailed within the final Code of Construction Practice. The design of construction site lighting will accord with the details provided in the Outline Code of Construction Practice (Co124) and Outline Ecological Management Plan (Co168).	Construction	X		X	X				X	X	X																	DCO Requirement 17 (Code of construction practice); and DCO Requirement 10 (Ecological Management Plan)	Pre-commencement of the relevant stage of the connection works Pre-commencement of the relevant stage of the connection works	Relevant Planning Authority Relevant Planning Authority	Outline CoCP (Doc No. F2.2) Outline EMP (Doc No. F2.3)
Co76	Scoping	Tertiary	Appropriate Personal Protective Equipment (PPE) will be used and relevant good working practices applied to avoid potential risk to human health from any potential ground contamination, in line with relevant available guidance.	Construction	X		X	X		X																			DCO Requirement 17 (Code of construction practice)	Pre-commencement of the relevant stage of the connection works	Relevant Planning Authority	Outline CoCP (Doc No. F2.2)
Co77	Scoping	Tertiary	A contaminated land and groundwater scheme will be prepared to identify any contamination and any remedial measures which may be required.	Construction	X		X	X		X	X																		DCO requirement 14 (Contaminated land and groundwater scheme)	Pre-commencement of the relevant stage of the connection works	Relevant Planning Authority	n/a
Co78	RPSS	Primary	All ponds identified during the route planning and site selection process have been avoided where possible. During construction any newly identified ponds will be avoided through micro-siting of the onshore export cable where reasonably practicable.	Construction	X		X	X				X																	DCO Requirement 10 (Ecological Management Plan)	Pre-commencement of the relevant stage of the connection works	Relevant Planning Authority	Outline EMP (Doc No. F2.3)
Co79	Scoping	Primary	Disturbance to PRoWs will be temporary where reasonably practicable and PRoWs will be reinstated as soon as reasonably practical. A PRoW Management Plan will be developed in accordance with the Outline PRoW Management Plan. The PRoW Management Pan will include details of temporary and permanent diversions, closures, gated crossings and signage to be provided during construction.	Construction	X		X	X					X		X																DCO Requirement 17 (Code of construction practice)	Pre-commencement of the relevant stage of the connection works	Relevant Planning Authority	Outline CoCP (Doc No. F2.2)
Co81	Scoping	Tertiary	Where scour protection is required, MGN 654 will be adhered to with respect to changes greater than 5% to the under keel clearance in consultation with the MCA.	Construction		X			X															X	X				X	DCO Schedule 11, Part 2 - Condition 15 and; DCO Schedule 12, Part 2 - Condition 15 *(Offshore safety management)*	Pre-commencement of the relevant stage of licensed activities	MMO	n/a
Co82	Scoping	Tertiary	A Scour Protection Management Plan will be developed. It will include details of the need, type, quantity and installation methods for scour protection.	Construction		X			X											X	X									DCO Schedule 11, Part 2 - Condition 13(1)(e) and; DCO Schedule 12, Part 2 - Condition 13(1)(e) *(Scour Protection Management Plan)*	Pre-commencement of the relevant stage of licensed activities	MMO	n/a
Co83	Scoping	Primary	Where possible, cable burial will be the preferred option for cable protection.	Construction		X														X	X	X			X	X					DCO Schedule 11, Part 2 - Condition 13(1)(h) and; DCO Schedule 12, Part 2 - Condition 13(1)(h) *(Cable specification and installation plan)*	Pre-commencement of the relevant stage of licensed activities	MMO	Outline Offshore Cable Specification and Installation Plan (Doc No. F2.15)
Co84	RPSS	Primary	Presence of habitats of principal importance (Section 41 of the 2006 Natural Environment and Rural Communities (NERC) Act) will be identified through a review of the latest available benthic datasets and pre-construction surveys. Foundations and cables will be micro-sited around habitats of principal importance wherever reasonably practicable (subject to agreement with the MMO) to an extent not resulting in a hazard for marine traffic and Search & Rescue capability.	Construction		X			X												X										DCO Schedule 11, Part 2 - Condition 13(1)(a)(v) and; DCO Schedule 12, Part 2 - Condition 13(1)(a)(v) *(Pre-construction plans and documentation)*	Pre-commencement of the relevant stage of licensed activities	MMO	n/a

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					Onshore ECC	Offshore ECC	Landfall	Onshore Substation (ONSS)	Array	Geology & Ground Conditions, Hydrology & Flood Risk	Ecology	Landscape & Visual	Historic Environment, Land Use & Amenity	Traffic & Transport	Noise & Vibration	Air Quality	Socio-economics	Marine Processes	Benthic & Intertidal Ecology	Fish & Shellfish	Marine Mammals	Offshore & Intertidal	Commercial Fisheries	Shipping & Navigation	Aviation and Radar	Marine Archaeology	Seascape	Infrastructure & Other Users				
Co85	PEIR	Primary	There will only be a maximum installation of 2 piled foundations within a 24 hour period. It is possible for installation of the two piled foundations to occur concurrently i.e. within a 24 hour period at up to two locations within the HVAC search area or up to two locations within the array. The two piled foundation locations may also be piled simultaneously.	Construction					X											X	X		X							DCO Schedule 11, Part 2 - Condition 13(1)(g) and; DCO Schedule 12, Part 2 - Condition 13(1)(g) *(Marine Mammal Mitigation Protocol).* *and;* *DCO Schedule 11, Part 2 - Condition 13(1)(c) and; DCO Schedule 12, Part 2 - Condition 13(1)(c) (Construction Method Statement)*	Pre-commencement of the relevant stage of licensed activities	MMO	Outline MMMP (Doc No. F2.5)
Co86	RPSS	Primary	The offshore export cable corridor and cable landfall (below MHWS) will not cross the Greater Wash SPA, Flamborough & Filey Coast SPA and the Flamborough Head SAC.	Construction		X													X			X							DCO Schedule 1, Part 1 Authorised Development	n/a	n/a	DCO Works Plan - Offshore (Doc No. D1.4.1)
Co87	PEIR	Primary	Proposed developable area has been selected and refined from the larger Hornsea Four Agreement for Lease (AfL) area to avoid areas of shipping and navigation activity and areas with the highest concentrations of birds (kittiwake, gannet, guillemot and razorbill) that are more likely to be displaced by the construction activities, and birds that are more likely to fly at heights that brings them within the rotor swept zone and hence at risk of collision.	Construction					X															X							DCO Schedule 1, Part 1 Authorised Development	n/a	n/a	DCO Works Plan - Offshore (Doc No. D1.4.1)
Co88	Scoping	Tertiary	Construction and operational maintenance vessels (e.g. CTVs) will avoid high concentrations of rafting red-throated diver.	Construction		X			X													X							DCO Schedule 11, Part 2 - Condition 13)(1)(d)(v) and; DCO Schedule 12, Part 2 - Condition 13(1)(d)(v) *(Vessel Management Plan)*	Pre-commencement of the relevant stage of licensed activities	MMO	n/a
Co89	Scoping	Tertiary	Advance warning and accurate location details of construction, maintenance and decommissioning operations, associated Safety Zones and advisory passing distances will be given via Notifications to Mariners and Kingfisher Bulletins.	Construction		X			X														X	X				X	DCO Schedule 11, Part 2 - Condition 7 and; DCO Schedule 12, Part 2 - Condition 7 *(Notifications and inspections)*	n/a	n/a	n/a
Co90	Scoping	Tertiary	Ongoing liaison with fishing fleets will be maintained during construction, maintenance and decommissioning operations via an appointed Fisheries Liaison Officer and Fishing Industry Representative.	Construction		X			X														X						DCO Schedule 11, Part 2 - Condition 13(1)(d)(vi) and; DCO Schedule 12, Part 2 - Condition 13(1)(d)(vi) *(construction project environmental management and monitoring plan)*	Pre-commencement of the relevant stage of licensed activities	MMO MMO	n/a n/a

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					Onshore ECC	Offshore ECC	Landfall	Onshore Substation (ONSS)	Array	Geology & Ground Conditions	Hydrology & Flood Risk	Ecology	Landscape & Visual	Historic Environment	Land Use & Amenity	Traffic & Transport	Noise & Vibration	Air Quality	Socio-economics	Marine Processes	Benthic & Intertidal Ecology	Fish & Shellfish	Marine Mammals	Offshore & Intertidal	Commercial Fisheries	Shipping & Navigation	Aviation and Radar	Marine Archaeology	Seascape	Infrastructure & Other Users				
Co93	RPSS	Tertiary	Aids to navigation (marking and lighting) will be deployed in accordance with the latest relevant available standard industry guidance and as advised by Trinity House, MCA and Civil Aviation Authority (CAA) and MoD as appropriate. This will include a buoyed construction area around the array area and the HVAC booster station in consultation with Trinity House.	Construction		X			X																	X	X	X			X	DCO Schedule 11, Part 2 - Condition 8 and Condition 10; DCO Schedule 12, Part 2 - Condition 8 *(Aids to navigation)* DCO Schedule 11, Part 2 - Condition 13(1)(j) and Condition 10 and; DCO Schedule 12, Part 2 - Condition 13(1)(j) *(Aid to navigation management plan)*	n/a Pre-commencement of the relevant stage of licensed activities	n/a MMO	n/a n/a
Co94	RPSS	Tertiary	The United Kingdom Hydrographic Office will be notified of both the commencement (within two weeks), progress and completion of offshore construction works (within two weeks) to allow marking of all installed infrastructure on nautical charts.	Construction		X			X															X	X				X	DCO Schedule 11, Part 2 - Condition 7(10) and; DCO Schedule 12, Part 2 - Condition 7(10)	n/a	n/a	n/a
Co95	Scoping	Tertiary	A Fisheries Co-existence and Liaison Plan will be developed in accordance with the Outline Fisheries Co-existence and Liaison Plan prior to the commencement of construction.	Construction		X			X															X						n/a	n/a	n/a	n/a
Co96	Scoping	Tertiary	The project commits to agree layout principles with the Marine Management Organisation (MMO), in consultation with the Maritime Coastguard Agency (MCA) and Trinity House.	Construction					X																X				X	DCO Schedule 11, Part 2 - Condition 13(1)(a) and; DCO Schedule 12, Part 2 - Condition 13(1)(a) *(Pre-construction plans and documentation)*	Pre-commencement of the relevant stage of licensed activities	MMO	Layout Principles (A4.4.7)
Co98	Scoping	Tertiary	Monitoring and annual reporting of vessel traffic for the duration of the construction period and three consecutive years following the completion of construction of the authorised project, unless otherwise agreed in writing by the MMO.	Construction		X			X																X				X	DCO Schedule 11, Part 2 - Condition 18(2)(b) and; DCO Schedule 12, Part 2 - Condition 18(2)(b) *(Construction Monitoring)*	Pre-commencement of the relevant stage of licensed activities	n/a	n/a
Co99	Scoping	Tertiary	Hornsea Four will ensure compliance with MGN654 where appropriate. This includes completion of an MGN 654 Search and Rescue Checklist in consultation with the MCA. Should any permanently manned platforms be included within the final design, emergency response must be discussed with the MCA as soon as practicable.	Construction		X			X																X	X	X			X	DCO Schedule 11, Part 2 - Condition 15 and; DCO Schedule 12, Part 2 - Condition 15 *(Offshore safety management)*	Pre-commencement of the relevant stage of licensed activities	MMO	n/a
Co102	Scoping	Tertiary	The Defence Infrastructure Organisation and the Civil Aviation Authority (CAA) will be informed of the locations, heights and lighting status of the wind turbines, including estimated and actual dates of construction and the maximum height of any construction equipment to be used, prior to the start of construction, to allow inclusion on Aviation Charts.	Construction					X																			X			X	DCO Schedule 11, Part 2 - Condition 10 and; DCO Schedule 12, Part 2 - Condition 10 *(Aviation Safety)*	Pre-commencement of licensed activities	n/a	n/a
Co107	Scoping	Tertiary	Crossing and proximity agreements with known existing pipeline and cables operators will be sought.	Construction		X			X																				X	Secured by commercial agreements with pipeline and cable operators.	n/a	n/a	n/a
Co108	Scoping	Tertiary	A Vessel Management Plan (VMP) will be developed pre-construction which will determine vessel routing to and from construction areas and ports to minimise, as far as reasonably practicable, encounters with marine mammals.	Construction		X			X														X							DCO Schedule 11, Part 2 - Condition 13(1)(d)(v) and; DCO Schedule 12, Part 2 - Condition 13(1)(d)(v) *(Vessel management plan)*	Pre-commencement of the relevant stage of licensed activities	MMO	n/a

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					Onshore ECC	Offshore ECC	Landfall	Onshore Substation (ONSS)	Array	Geology & Ground Conditions	Hydrology & Flood Risk	Ecology	Landscape & Visual	Historic Environment	Land Use & Amenity	Traffic & Transport	Noise & Vibration	Air Quality	Socio-economics	Marine Processes	Benthic & Intertidal Ecology	Fish & Shellfish	Marine Mammals	Offshore & Intertidal	Commercial Fisheries	Shipping & Navigation	Aviation and Radar	Marine Archaeology	Seascape	Infrastructure & Other Users				
Co110	Scoping	Tertiary	A piling Marine Mammal Mitigation Protocol (MMMP) will be developed in accordance with the Outline MMMP and will be implemented during construction. The piling MMMP will include measures to ensure the risk of instantaneous permanent threshold shift (PTS) to marine mammals is negligible and will be in line with the latest relevant available guidance. The piling MMMP will include details of soft starts to be used during piling operations with lower hammer energies used at the beginning of the piling sequence before increasing energies to the higher levels.	Construction					X															X	X									DCO Schedule 11, Part 2 - Condition 13(1)(g) and; DCO Schedule 12, Part 2 - Condition 13(1)(g) *(Marine mammal mitigation protocol)*	Pre-commencement of the relevant stage of licensed activities	MMO	Outline MMMP (Doc No. F2.5)
Co111	Scoping	Tertiary	A Construction Project Environmental Management and Monitoring Plan (CPEMMP) will be developed and will include details of: - a marine pollution contingency plan to address the risks, methods and procedures to deal with any spills and collision incidents of the authorised project in relation to all activities carried out below MHWS; - a chemical risk review to include information regarding how and when chemicals are to be used, stored and transported in accordance with recognised best practice guidance; - a marine biosecurity plan detailing how the risk of introduction and spread of invasive non-native species will be minimised; - waste management and disposal arrangements; - a vessel management plan, to determine vessel routing to and from construction sites and ports, to include a code of conduct for vessel operators; and - the appointment and responsibilities of a company fisheries liaison officer.	Construction		X			X														X	X	X		X						DCO Schedule 11, Part 2 - Condition 13(1)(d) and; DCO Schedule 12, Part 2 - Condition 13(1)(d) *(Construction Project Environmental Management and Monitoring Plan)*	Pre-commencement of the relevant stage of licensed activities	MMO	n/a
Co113	Scoping	Tertiary	A Decommissioning Marine Mammal Mitigation Protocol (MMMP) will be implemented during decommissioning. The Decommissioning MMMP will be approved by the Marine Management Organisation (MMO) in consultation with Natural England. The Decommissioning MMMP will include measures to ensure the risk of instantaneous permanent threshold shift (PTS) to marine mammals is negligible and will be in line with the latest relevant available guidance.	Decommissioning		X			X															X	X									*A separate Marine License will be applied for at the point of decommissioning which will include Conditions relevant to minimising impacts on marine mammals where appropriate.*	n/a	MMO	n/a
Co114	Scoping	Tertiary	Good practice air quality management measures will be applied where human receptors reside within 350 m of works or ecological receptors are present within 200 m, as described in Institute of Air Quality Management (IAQM) Guidance on the Assessment of Dust from Demolition and Construction 2014, version 1.1, or latest relevant available guidance.	Construction	X		X	X			X			X				X															DCO Requirement 17 (Code of construction practice)	Pre-commencement of the relevant stage of the connection works	Relevant Planning Authority	Outline CoCP (Doc No. F2.2)
Co119	PEIR	Secondary	In areas of confirmed presence, or potential for great crested newt (i.e. within 250 m of an identified great crested newt pond) appropriate exclusion fencing will be erected and working areas 'trapped out' prior to the commencement of relevant onshore construction works, in line with Great crested newt mitigation guidelines, English Nature, 2001 or the latest available relevant guidance..	Construction							X																							DCO Requirement 10 (Ecological Management Plan); and DCO Requirement 17 (Code of construction practice)	Pre-commencement of the relevant stage of the connection works Pre-commencement of the relevant stage of the connection works	Relevant Planning Authority Relevant Planning Authority	Outline EMP (Doc No. F2.3) Outline CoCP (Doc No. F2.2)
Co120	PEIR	Secondary	Habitat manipulation will be undertaken in order to discourage reptiles from the working area(s). A qualified ecologist will undertake a search of all working areas identified as being suitable for reptiles. Any reptiles found within the working area will be relocated into suitable adjacent habitat.	Construction							X																						DCO Requirement 10 (Ecological Management Plan); and DCO Requirement 17 (Code of construction practice)	Pre-commencement of the relevant stage of the connection works Pre-commencement of the relevant stage of the connection works	Relevant Planning Authority Relevant Planning Authority	Outline EMP (Doc No. F2.3) Outline CoCP (Doc No. F2.2)
Co122	PEIR	Secondary	Prior to the commencement of construction activities, pre-construction surveys will be undertaken by the Ecological Clerk of Works (ECoW) where necessary, in accordance with the Outline Ecological Management Plan and latest available species specific guidance.	Construction							X																						DCO Requirement 10 (Ecological Management Plan); and DCO Requirement 17 (Code of construction practice)	Pre-commencement of the relevant stage of the connection works Pre-commencement of the relevant stage of the connection works	Relevant Planning Authority Relevant Planning Authority	Outline EMP (Doc No. F2.3) Outline CoCP (Doc No. F2.2)
Co123	Scoping	Tertiary	Based on noise modelling results, where noise has the potential to cause significant adverse effects, mufflers and acoustic barriers will be used where HDD is being undertaken.	Construction	X		X	X			X			X			X															DCO Requirement 17 (Code of construction practice)	Pre-commencement of the relevant stage of the connection works	Relevant Planning Authority	Outline CoCP (Doc No. F2.2)

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					Onshore ECC	Offshore ECC	Landfall	Onshore Substation (ONSS)	Array	Geology & Ground Conditions	Hydrology & Flood Risk	Ecology	Landscape & Visual	Historic Environment	Land Use & Amenity	Traffic & Transport	Noise & Vibration	Air Quality	Socio-economics	Marine Processes	Benthic & Intertidal Ecology	Fish & Shellfish	Marine Mammals	Offshore & Intertidal	Commercial Fisheries	Shipping & Navigation	Aviation and Radar	Marine Archaeology	Seascape	Infrastructure & Other Users				
Co124	Scoping	Tertiary	A Code of Construction Practice (CoCP) will be developed in accordance with the outline CoCP. The outline CoCP will include measures to reduce temporary disturbance to residential properties, recreational users and existing land users.	Construction	X		X	X		X	X	X	X	X	X	X	X	X												DCO Requirement 17 (Code of construction practice)	Pre-commencement of the relevant stage of the connection works	Relevant Planning Authority	Outline CoCP (Doc No. F2.2)
Co127	Scoping	Tertiary	An Onshore Decommissioning Plan will be developed prior to decommissioning in a timely manner. The Onshore Decommissioning Plan will include provisions for the removal of all onshore above ground infrastructure and the decommissioning of below ground infrastructure and details relevant to flood risk, pollution prevention and avoidance of ground disturbance. The Onshore Decommissioning Plan will be in line with the latest relevant available guidance.	Decommissioning	X		X	X		X	X	X	X	X	X	X	X	X												DCO Requirement 24 (Onshore decommissioning)	Within three months of permeant cessation of operation of the connection works	Relevant Planning Authority	n/a
Co134	RPSS	Primary	Cable installation works at the landfall area will be located at least 200 m from residential receptors.	Construction			X						X		X		X	X												DCO Works Plan - Onshore	n/a	n/a	DCO Works Plan - Onshore (Doc No. D1.4.2)
Co135	RPSS	Primary	Temporary construction highway access points along the onshore export cable corridor (ECC) will be located at least 150 m from residential receptors, with the exception of three receptors: Bridge Farm Holiday Cottages; Arms Farm and Elm Tree Farm, in Brigham, Driffield.	Construction	X								X				X	X												DCO Requirement 18 (Construction traffic management plan)	Pre-commencement of the relevant stage of the connection works	Relevant Planning Authority	Outline CoCP (Doc No. F2.2)
Co137	Scoping	Tertiary	HGV movements associated with operation and planned maintenance of the onshore infrastructure will operate only between the hours of 0700 – 2300. HGV movements may however be subject to unscheduled maintenance activities outside these hours. In this event the council will be informed via writing.	Operation and maintenance	X		X	X									X												DCO Requirement 18 (Construction traffic management plan)	Pre-commencement of the relevant stage of the connection works	Relevant Planning Authority	Outline CoCP (Doc No. F2.2)
Co138	Scoping	Primary	Lower air draught of wind turbines will be a minimum of 40 m above Mean Sea Level (MSL) 42.43 m above Lowest Astronomical Tide (LAT)).	Operation and maintenance					X														X							DCO Requirement 2(2)(c) *(Detailed offshore design parameters)* DCO Schedule 11, Part 2 - Condition 1(2)(c) *(Design parameters)*	n/a n/a	n/a n/a	n/a n/a
Co139	Scoping	Secondary	Safety zones of up to 500 m will be applied during construction, maintenance and decommissioning phases. Where defined by risk assessment, guard vessels will also be used to ensure adherence with Safety Zones or advisory passing distances to mitigate impacts which pose a risk to surface navigation during construction, maintenance and decommissioning phases.	Construction		X			X																X	X				X	Application for safety zones to be made post consent under 'The Electricity (Offshore Generating Stations) (Safety Zones) (Applications Procedures and Control of Access) Regulations 2007 (SI No 2007/1948)'. Safety zones required are also detailed within the Project Description.	n/a	n/a	Safety Zone Statement (Doc No. F1.2)
Co140	RPSS	Tertiary	A Marine Written Scheme of Archaeological Investigation (WSI) will be developed in accordance with the Outline Marine WSI. The Marine WSI will include the requirement for Archaeological Exclusion Zones (AEZs) to be established to protect any known / identified / unexpected marine archaeological receptors and the implementation of a Protocol for Archaeological Discoveries (PAD) in accordance with 'Protocol for Archaeological Discoveries: Offshore Renewables Projects' (The Crown Estate, 2014).	Construction		X			X																	X					DCO Schedule 11, Part 2 - Condition 13(2) & 13(3) and; DCO Schedule 12, Part 2 - Condition 13(2) &13(3) *(Marine Written Scheme of Archaeological Investigation)*	Pre-commencement of the relevant stage of licensed activities	MMO	Outline Marine Written Scheme of Investigation (Doc No. F2.4)

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					Onshore ECC	Offshore ECC	Landfall	Onshore Substation (ONSS)	Array	Geology & Ground Conditions	Topography & Flood Risk	Ecology	Landscape & Visual	Historic Environment	Land Use & Amenity	Traffic & Transport	Noise & Vibration	Air Quality	Socio-economics	Marine Processes	Benthic & Intertidal Ecology	Fish & Shellfish	Marine Mammals	Offshore & Intertidal	Commercial Fisheries	Shipping & Navigation	Aviation and Radar	Marine Archaeology	Seascape	Infrastructure & Other Users				
Co143	PEIR	Secondary	The landfall site will avoid the Barmston Main Drain.	Construction	X		X				X																					DCO Works Plan - Onshore	n/a	n/a	DCO Works Plan - Onshore (Doc No. F1.4.2)
Co144	LIE1	Tertiary	A Construction Traffic Management Plan (CTMP) will be developed in accordance with the outline CTMP to be submitted with the DCO application. The CTMP will set standards and procedures for: 1. Managing the numbers and routing of HGVs during the construction phase; 2. Managing the movement of employee traffic during the construction phase; 3. Details of localised road improvements necessary to facilitate safe use of the existing road network; and 4. Details of measures to manage the safe passage of HGV traffic via the local highway network.	Construction	X		X									X	X															DCO Requirement 18 (Construction traffic management plan)	Pre-commencement of the relevant stage of the connection works	Relevant Planning Authority	Outline CoCP (Doc No. F2.2)
Co145	LIE1	Primary	Views of Beverley Minster from the A1079 will not be obstructed by the siting of the onshore substation.	Pre-construction				X					X	X																	DCO Requirement 7 (Detailed design approval onshore)	Pre-commencement of the relevant stage of the works in Work No. 7	Relevant Planning Authority	Outline Design Plan (F2.13)
Co147	LIE1	Tertiary	Appropriate liaison will take place with the Internal Drainage Board during construction.	Construction	X		X	X			X																				DCO Requirement 17 (Code of construction practice)	Pre-commencement of the relevant stage of the connection works	Relevant Planning Authority	Outline CoCP (Doc No. F2.2)
Co150	LIE1	Primary	A new temporary and permanent access for the onshore substation, and temporary construction access for the onshore export cable corridor will be taken directly from the A1079, to route construction and operation and maintenance traffic away from Cottingham and Dunswell.	Construction; Operation & Maintenance	X			X						X		X															DCO Requirement 18 (Construction traffic management plan)	Pre-commencement of the relevant stage of the connection works	Relevant Planning Authority	Outline CoCP (Doc No. F2.2)
Co151	LIE1	Primary	No above ground infrastructure associated with Hornsea Four will obstruct the view from St Mary's Church Cottingham to Beverley Minister through considered design of the OnSS and site selection.	Pre-construction	X			X					X	X																	DCO Requirement 7 (Detailed design approval onshore)	Pre-commencement of the relevant stage of the works in Work No. 7	Relevant Planning Authority	Outline Design Plan (F2.13)
Co157	PEIR	Secondary	Fences, walls, ditches and drainage outfalls will be retained along the onshore export cable corridor and landfall, where possible. Where it is not reasonably practicable to retain them, any damage will be repaired and reinstated as soon as reasonably practical. The Environment Agency must be notified if damage occurs to any EA Main river or related flood infrastructure.	Construction	X		X	X			X	X	X																			DCO Requirement 17 (Code of construction practice)	Pre-commencement of the relevant stage of the connection works	Relevant Planning Authority	Outline CoCP (Doc No. F2.2)
Co158	PEIR	Secondary	Impacts on the English Coast Path national route will be minimised through site design considerations and phasing within working constraints for the landfall construction. In addition, Co79 will be applied to the English Coast Path national route.	Construction			X						X		X																DCO Requirement 17 (Code of construction practice)	Pre-commencement of the relevant stage of the connection works	Relevant Planning Authority	Outline CoCP (Doc No. F2.2)
Co159	PEIR	Secondary	Operational noise from the onshore substation will be at a noise level no greater than 5dB above the representative background ($L_{A90,T}$) during the day time and night at the identified noise Sensitive Receptors, as stated within the onshore noise assessment (document reference A3.8).	Operation and maintenance				X				X		X			X														DCO requirement 21 (Control of noise during operational phase)	Pre-commencement of the relevant stage of the works in Work No. 7	Relevant Planning Authority	n/a
Co160	PEIR	Secondary	AWritten Scheme of Investigation (WSI) for Onshore Archaeology will be developed in line with an Outline Written Scheme of Investigation (WSI) for Onshore Archaeology. The onshore WSI will detail the survey and archaeological mitigation requirements in advance of and during construction.	Construction	X		X	X						X																		DCO requirement 16 (Onshore archaeology)	Pre-commencement of the relevant stage of the connection works	Relevant Planning Authority	n/a
Co165	PEIR	Secondary	Where Public Rights of Way (PRoWs) are required to be closed during the construction of the onshore export cable corridor and landfall connection works, they will not be closed for any longer than three months at any one time, or for six months in total over the whole construction period. Where closures are required for longer period due to unforeseen circumstances encountered during construction, East Riding of Yorkshire Council will be informed in writing.	Construction	X		X	X					X		X																	DCO Requirement 17 (Code of construction practice)	Pre-commencement of the relevant stage of the connection works	Relevant Planning Authority	Outline CoCP (Doc No. F2.2)
Co166	PEIR	Secondary	An offshore geophysical survey (including a UXO survey) will be undertaken prior to construction and will be subject to a full archaeological review in consultation with Historic England.	Pre-construction	X		X	X																			X			DCO Schedule 11, Part 2 - Condition 13(2) & 13(3) and; DCO Schedule 12, Part 2 - Condition 13(2) & 13(3) *(Marine Written Scheme of Archaeological Investigation)*	Pre-commencement of the relevant stage of licensed activities	MMO	Outline Marine Written Scheme of Investigation (Doc No. F2.4)
Co167	PEIR	Secondary	An offshore geotechnical survey will be undertaken prior to construction, including a staged geoarchaeological assessment and analysis of geotechnical data inclusive of publication, in consultation with Historic England.	Pre-construction	X		X	X																			X			DCO Schedule 11, Part 2 - Condition 13(2) & 13(3) and; DCO Schedule 12, Part 2 - Condition 13(2) & 13(3) *(Marine Written Scheme of Archaeological Investigation)*	Pre-commencement of the relevant stage of licensed activities	MMO	Outline Marine Written Scheme of Investigation (Doc No. F2.4)

Commitment Reference	Commitment Stage	Type	Hornsea Four Commitment	Project Phase	Project Element						Onshore Topic relevance									Offshore Topic relevance											How is the Commitment secured?	When (e.g. pre-commencement)	Who (decision maker)	Relevant Application Documents
					Onshore ECC	Offshore ECC	Landfall	Onshore Substation (ONSS)	Array	Geology & Ground Conditions	Hydrology & Flood Risk	Ecology	Landscape & Visual	Historic Environment	Land Use & Amenity	Traffic & Transport	Noise & Vibration	Air Quality	Socio-economics	Marine Processes	Benthic & Intertidal Ecology	Fish & Shellfish	Marine Mammals	Offshore & Intertidal	Commercial Fisheries	Shipping & Navigation	Aviation and Radar	Marine Archaeology	Seascape	Infrastructure & Other Users			
Co168	PEIR	Tertiary	An Ecological Management Plan (EMP) will be developed in accordance with the Outline Ecological Management Plan (OEMP). The OEMP includes, but is not limited to pre-construction (Section 3), construction (Section 4) and post-mitigation measures (Section 5) relating to: habitats, hedgerows, birds, bats, badgers, otters, water voles, reptiles, great crested newts, terrestrial invertebrates, and other protected or notable species where relevant . The EMP will include details of any long-term mitigation and management measures relevant to onshore ecology and nature conservation The EMP will be developed in consultation with the relevant responsible authorities.	Construction			X						X	X																		DCO Requirement 10 (Ecological Management Plan)	Pre-commencement of the relevant stage of the connection works	Relevant Planning Authority	Outline EMP (Doc No. F2.3)
Co169	PEIR	Secondary	Piling at the Onshore Substation (OnSS) will not be undertaken within 180m of any noise sensitive receptors.	Construction			X										X													DCO Requirement 7 (Detailed design approval onshore)	Pre-commencement of the relevant stage of the works in Work No. 7	Relevant Planning Authority	Outline Design Plan (F2.13)
Co170	PEIR	Secondary	Joint bays and link boxes will be located a minimum of 20 m away from Environment Agency (EA) Main rivers.	Construction	X						X	X																		DCO Requirement 17 (Code of construction practice)	Pre-commencement of the relevant stage of the connection works	Relevant Planning Authority	Outline CoCP (Doc No. F2.2)
Co171	PEIR	Secondary	HGVs will avoid travel through Foston on the Wolds.	Construction	X		X	X								X														DCO Requirement 18 (Construction traffic management plan)	Pre-commencement of the relevant stage of the connection works	Relevant Planning Authority	Outline CoCP (Doc No. F2.2)
Co172	PEIR	Secondary	The bed and banks of watercourses will be reinstated to their pre-construction condition following the removal of any temporary structures. Culverts will not be used for temporary access track crossings across EA Main Rivers. Where a temporary access track crossing across an EA Main River may be required, clear span/ bailey bridges will be used. There will be no loss of cross-sectional area to Environment Agency (EA) Main rivers.	Construction	X						X	X																				DCO Requirement 17 (Code of construction practice)	Pre-commencement of the relevant stage of the connection works	Relevant Planning Authority	Outline CoCP (Doc No. F2.2)
Co175	PEIR	Secondary	A pre and post construction condition survey will also be undertaken at each Environment Agency (EA) Main river crossings, including any flood defences to be crossed. The scope and methodology of the survey will be agreed in advance with the EA. On completion of the project, details of the surveys under each Main River and flood defence will be submitted to the EA.	Construction	X						X	X																				DCO Requirement 17 (Code of construction practice)	Pre-commencement of the relevant stage of the connection works	Relevant Planning Authority	Outline CoCP (Doc No. F2.2)
Co176	PEIR	Tertiary	A Cable Specification and Installation Plan will be produced prior to construction of the offshore export cable which will include; details of cable burial depths; a detailed cable laying plan which ensures safe navigation is not compromised; details of cable protection for each cable crossing; and proposals for monitoring of offshore cable.	Construction		X															X					X					DCO Schedule 11, Part 2 - Condition 13(1)(h) and; DCO Schedule 12, Part 2 - Condition 13(1)(h) *(Cable specification and installation plan)*	Pre-commencement of the relevant stage of licensed activities	MMO	Outline Offshore CableSpecificatio n and Installation Plan (Doc No. F2.15)
Co177	PEIR	Tertiary	Hornsea Four vessels will comply with MGN 372 (Merchant and Fishing) Offshore Renewable Energy Installations (OREIs): Guidance to Mariners Operating in the Vicinity of UK OREIs (MCA, 2008) or the latest relevant available guidance where appropriate.	Construction		X			X																		X					DCO Schedule 11, Part 2 - Condition 15 and; DCO Schedule 12, Part 2 - Condition 15 *(Offshore Safety Management)*	Pre-commencement of the relevant stage of licensed activities	MMO	n/a
Co179	PEIR	Secondary	Hornsea Four will ensure marine coordination with the Marine Helicopter Coordination Centre (MHCC).	Construction		X			X																X					DCO Schedule 11, Part 2 - Condition 13(1)(c)(x) and; DCO Schedule 12, Part 2 - Condition 13(1)(c)(x) *(Construction Method Statement)*	Pre-commencement of the relevant stage of licensed activities	MMO	n/a
Co180	PEIR	Tertiary	The following or latest relevant available guidance will be followed where appropriate; 'FLOWW Best Practice Guidance for Offshore Renewables Developments: Recommendations for Fisheries Liaison (FLOWW 2014)' and 'FLOWW Best Practice Guidance for Offshore Renewables Developments: Recommendations for Fisheries Disruption Settlements and Community Funds' (FLOWW 2015).	Construction		X			X																		X					n/a	n/a	n/a	Outline Fisheries Coexistence and Liaison Plan (Doc No. F2.9)
Co181	PEIR	Tertiary	An Offshore Decommissioning Plan will be developed prior to decommissioning.	Decommissioning		X			X											X	X	X	X	X	X	X	X	X		X	DCO Schedule 11, Part 1(6) and; DCO Schedule 12, Part 1(6) *(General Provisions)*	Pre-commencement of decommissioning	Secretary of State	n/a

Commitment Reference	Commitment Stage	Type	Hornsea Four Commitment	Project Phase	Project Element						Onshore Topic relevance									Offshore Topic relevance											How is the Commitment secured?	When (e.g. pre-commencement)	Who (decision maker)	Relevant Application Documents
					Onshore ECC	Offshore ECC	Landfall	Onshore Substation (ONSS)	Array	Geology & Ground Conditions, Hydrology & Flood Risk	Ecology	Landscape & Visual	Historic Environment, Land Use & Amenity	Traffic & Transport	Noise & Vibration	Air Quality	Socio-economics	Marine Processes	Benthic & Intertidal Ecology	Fish & Shellfish	Marine Mammals	Offshore & Intertidal	Commercial Fisheries	Shipping & Navigation	Aviation and Radar	Marine Archaeology	Seascape	Infrastructure & Other Users				
Co183	PEIR	Secondary	Where reasonably practicable the design of all temporary access tracks within the floodplain of EA Main rivers (defined as areas of Flood Zone 2 and 3, as shown on the Environment Agency Flood Map for Planning), areas at risk of surface water flooding (as shown on the Risk of Flooding Surface Water maps), or in areas included on the historic flood map (from any source) will replicate or be as consistent with existing ground levels as possible, to limit any effects on future flood risk.	Construction	X		X	X			X																			DCO Requirement 17 (Code of construction practice)	Pre-commencement of the relevant stage of the connection works	Relevant Planning Authority	Outline CoCP (Doc No. F2.2)
Co184	PEIR	Secondary	Where the permanent access track to the OnSS may be required to pass over an existing watercourse, the crossing will be appropriately designed to maintain floodplain capacity and/or flow conveyance, where reasonably practicable. This shall include an allowance for the predicted effects of climate change.	Construction				X			X																			DCO Requirement 17 (Code of construction practice)	Pre-commencement of the relevant stage of the connection works	Relevant Planning Authority	Outline CoCP (Doc No. F2.2)
Co185	DCO	Secondary	Where the permanent access track to the OnSS is within areas of flood risk (as shown on the Environment Agency Flood Map for Planning) it will be appropriately designed to maintain existing ground elevations to ensure continued floodplain capacity and/or flow conveyance, where reasonably practicable.	Construction				X			X																			DCO Requirement 17 (Code of construction practice)	Pre-commencement of the relevant stage of the connection works	Relevant Planning Authority	Outline CoCP (Doc No. F2.2)
Co186	DCO	Tertiary	Where works to an EA Main river or ordinary watercourse are necessary, the appropriate permits and consents will be sought from the relevant authority as required. Details of the locations and work undertaken on any EA Main river or associated flood defences, including any reports or records, will be submitted to the Environment Agency.	Construction	X		X	X			X																			DCO Requirement 17 (Code of construction practice)	Pre-commencement of the relevant stage of the connection works	Relevant Planning Authority	Outline CoCP (Doc No. F2.2)
Co187	DCO	Secondary	The installation of the offshore export cables at landfall will be undertaken by Horizontal Directional Drilling or other trenchless methods.	Construction			X			X	X		X						X	X			X							DCO Requirement 17 (Code of construction practice); and DCO Schedule 12, Part 2 - Condition 13(1)(h) (Cable specification and installation plan)	Pre-commencement of the relevant stage of the connection works Pre-commencement of the relevant stage of licensed activities	Relevant Planning Authority MMO	Outline CoCP (Doc No. F2.2) Outline Offshore CableSpecification and Installation Plan (Doc No. F2.15)
Co188	DCO	Secondary	No cable protection will be employed within 350 m seaward of MLWS	Construction		X												X	X										DCO Schedule 11, Part 2 - Condition 13(1)(h) and; DCO Schedule 12, Part 2 - Condition 13(1)(h) *(Cable specification and installation plan)*	Pre-commencement of the relevant stage of licensed activities	MMO	Outline Offshore Cable Specification and Installation Plan (Doc No. F2.15)
Co189	DCO	Secondary	The Dogger Bank cable crossing will be positioned east of Smithic Bank (as identified at https://data.gov.uk/dataset/d19f631c-27c0-4c74-804f-d76a4632b702/annex-i-sandbanks-in-the-uk-v2-public) and seaward of 20 m depth contour.	Construction		X												X	X										DCO Schedule 11, Part 2 - Condition 13(1)(h) and; DCO Schedule 12, Part 2 - Condition 13(1)(h) *(Cable specification and installation plan)*	Pre-commencement of the relevant stage of licensed activities	MMO	Outline Offshore Cable Specification and Installation Plan (Doc No. F2.15)
Co190	DCO	Secondary	No impact piling within the HVAC search area (DCO Works No. 3) will be undertaken between 1st September and 16th October unless otherwise agreed with the relevant stakeholders.	Construction		X														X								DCO Schedule 12, Part 2 - Condition 23 *(Piling Restriction)*	n/a	MMO	n/a
Co191	DCO	Secondary	The drainage design at the onshore substation will include Sustainable Drainage System (SuDS) measures including filter drains, swales, attenuation and flow control structures for the operational drainage of the Onshore Substation. Surface water will be discharged from the site at a controlled rate which will be determined during the detailed design stage. Appropriate consideration will be given to maintaining the existing floodplain capacity and / or flow conveyance during extreme rainfall events. These principles are provided in the Outline Onshore Infrastructure Drainage Strategy with which the Onshore Infrastructure Drainage Strategy will be developed.	Construction				X			X																			DCO Requirement 15 (Surface Water)	Pre-commencement of Work No.7	Relevant Planning Authority	Outline Onshore Infrastructure Drainage Strategy (Doc No. F2.6)
Co192	DCO	Secondary	The beach at landfall will not be closed for public access during construction, unless an unforeseen and unplanned event occurs during which emergency access is required. Details will be agreed through the approval of a Code of Construction Practice (CoCP) with ERYC prior to construction of the connection works.	Construction			X					X		X															DCO Requirement 17 (Code of construction practice)	Pre-commencement of the relevant stage of the connection works	Relevant Planning Authority	Outline CoCP (Doc No. F2.2)
Co193	DCO	Secondary	Operational site lighting at the onshore substation will be designed in accordance with latest relevant available guidance and legislation and the details of the location, height, design and luminance of lighting to be used will be provided as part of detailed design for the onshore substation. The design of operation site lighting will accord with the details provided in the Outline Design Plan (Co195) and Outline Ecological Management Plan (Co168).	Operation and maintenance			X				X	X	X																	DCO Requirement 7 (Detailed design approval onshore)	Pre-commencement of Work No. 7	Relevant Planning Authority	Outline Design Plan (F2.13)
Co194	DCO	Enhancement	Where agreed with landowners, removed hedgerows and trees will be replaced with hedgerows of a more diverse and locally native species composition than that which was removed.	Construction	X			X				X																	DCO Requirement 22 (Enhancement Strategy)	Pre-commencement of the relevant stage of the connection works	Relevant Planning Authority	Outline Enhancement Strategy (Doc No. F2.14)
Co195	DCO	Secondary	Detailed design will be developed for the Onshore Substation in accordance with the Outline Design Plan which will include details regarding design and access. Examples of such detailed design information includes (but are not limited to): building heights and form; site layout; external appearance and colours; vehicular and pedestrian access.	Construction				X			X	X	X																	DCO Requirement 7 (Detailed design approval onshore)	Pre-commencement of the relevant stage of the works in Work No. 7	Relevant Planning Authority	Outline Design Plan (F2.13)

Commitment Reference	Commitment Stage	Type	Hornsea Four Commitment	Project Phase	Project Element				Onshore Topic relevance												Offshore Topic relevance												How is the Commitment secured?	When (e.g. pre-commencement)	Who (decision maker)	Relevant Application Documents
					Onshore ECC	Offshore ECC	Landfall	Onshore Substation (ONSS)	Array	Geology & Ground Conditions	Hydrology & Flood Risk	Ecology	Landscape & Visual	Historic Environment	Land Use & Amenity	Traffic & Transport	Noise & Vibration	Air Quality	Socio-economics	Marine Processes	Benthic & Intertidal Ecology	Fish & Shellfish	Marine Mammals	Offshore & Intertidal	Commercial Fisheries	Shipping & Navigation	Aviation and Radar	Marine Archaeology	Seascape	Infrastructure & Other Users				
Co196	DCO	Enhancement	The design of the attenuation feature will incorporate an appropriate landscaping to create an area of biodiverse habitat, as outlined in the Outline Enhancement Strategy.	Construction				X					X																		DCO Requirement 22 (Enhancement Strategy)	Pre-commencement of the relevant stage of the connection works	Relevant Planning Authority	Outline Enhancement Strategy (Doc No. F2.14)
Co197	DCO	Secondary	Where reasonably practicable, topsoil & subsoil stockpiling within the floodplain (defined as areas of Flood Zone 2 or 3 as identified on the Environment Agency Flood Map for Planning) of any EA Main River will be avoided at the Onshore Substation	Construction				X			X																				DCO Requirement 17 (Code of construction practice)	Pre-commencement of the relevant stage of the connection works	Relevant Planning Authority	Outline CoCP (Doc No. F2.2)
Co198	DCO	Enhancement	An Enhancement Strategy will be developed in accordance with the Outline Enhancement Strategy. The Outline Enhancement Strategy will include proposed measures to provide enhancement and will not inform the EIA process. Proposed enhancement measures include but are not limited to; provision of historic signage at landfall; improvements to PRoWs; wider biodiversity, hydrological and social enhancement measures across	Construction	X		X	X																								DCO Requirement 22 (Enhancement Strategy)	Pre-commencement of the relevant stage of the connection works	Relevant Planning Authority	Outline Enhancement Strategy (Doc No. F2.14)
Co199	DCO	Enhancement	A Net Gain Strategy will be developed in accordance with the Outline Net Gain Strategy. The Net Gain Strategy will include proposed measures to provide biodiversity net gain at the Hornsea Four onshore substation site	Construction	X		X	X																								DCO Requirement 6 (Biodiversity Net Gain)	Pre-commencement of the relevant stage of the connection works	Relevant Planning Authority	Outline Net Gain Strategy (Doc No. F2.16)
Co200	DCO	Secondary	Lighting at the HVAC Booster Station(s) will accord with the design set out in the HVAC Booster Station Lighting Plan to ensure that the night-time effects of the HVAC Booster Station lighting on the special characteristics of the Flamborough Head Heritage Coast will be not significant.	Construction		X																					x		X				DCO Schedule 12, Part 2 - Condition 22 (HVAC Booster Station Lighting Plan)	n/a	n/a	HVAC Booster Station Lighting Plan (Doc No. F2.17)
Co201	DCO	Primary	Gravity Base Structure (GBS) foundations (WTG type) will be utilised at a maximum of 80 of the 180 WTG foundation locations. The location of GBS foundations, if used for WTG, will be confirmed through a construction method statement which will include details of foundation installation methodology.	Construction					X											X	X	X	X		x			x			X	DCO Schedule 11, Part 2 - Condition 13(1(c) (Construction Method Statement)	Pre-commencement of the relevant stage of the licensed activities	MMO	n/a
Co202	DCO	Secondary	An Employment and Skills Plan will be developed in accordance with the Outline Employment and Skills Plan.	Construction	X	X	X	X	X										x												DCO Requirement 25 (Employment and Skills Plan)	Pre-commencement of the relevant stage of the connection works	Relevant Planning Authority	Outline Employment and Skills Plan (Doc No. F2.18)

5. RPSS & Scoping Change Log

Commitment Reference	Commitment Stage	Hornsea Four Commitment	Explanation of the change
Co1	RPSS	~~All natural watercourses including main rivers and ordinary watercourses (not artificial drainage ditches, flood defences), main roads and railways will be crossed by HDD or other trenchless technology where technically practical.~~ All main rivers, Interal Drainage Board (IDB) maintained drains, main roads and railways will be crossed by HDD or other trenchless technology as set out in the Onshore Crossing Schedule. Where HDD technologies are not practical, the crossing of ordinary watercourses may be undertaken by open cut methods. In such cases, temporary measures will be employed to maintain flow of water along the watercourse.	Co1 has been updated to include the latest PEIR information. The Commitment now notes that a Onshore Crossing Schedule is provided which includes the details of each crossing.
Co2	RPSS	~~Where practical~~ The following sensitive sites will be avoided by the permanent project footprint: Listed Buildings (580 sites), Registered Parks and Gardens (Thwaite Hall and Risby Hall), Scheduled Monuments (30 sites), Conservation Areas (19 sites), non-designated built heritage assets (368 sites) and Ancient Woodland (10 sites). Please refer to PEIR Volume 6, Annex 6.5.1 Appendix B Designated Assets Gazetteer for detailed lists of designated heritage assets that are avoided by Hornsea Four. With the exception of River Hull Headwaters SSSI, sensitive sites have been avoided. Please refer to PEIR Volume 6, Annex 3.1: Extended Phase 1 Habitat Survey Report for details.~~SSSI Units, Ancient woodland, areas of consented development, areas of historic landfill and other known areas of potential contamination, RSPB reserves, Local Nature Reserves, Local Wildlife Sites, Yorkshire Wildlife Trust Sites, National Trust Land, Listing Buildings, and Scheduled Monuments.~~ Where possible, unprotected areas of woodland, mature, and protected trees, (e.g. veteran trees) shall also be avoided or micro sited around	Co2 has been updated to include the latest PEIR information, so Co2 now provides details of some specific sensitive sites which will be avoided, and details any relevant exceptions.
Co7	Scoping	The temporary ~~construction~~ working area ~~will typically~~ associated with onshore export cable corridor will be 80m working width ~~along the underground cable route~~ to minimise the construction footprint, except the Network Rail Crossing near Beswick where the footprint is extended to 120m to facilitate HDD of the railway line. ~~other crossings may expand this default to greater than 80m (HDD and local factors, over small lengths.~~ The permanent ~~width~~ onshore export cable corridor width will be 60m except the Network Rail Crossing near Beswick where the footprint is extended to 120m to facilitate HDD of the railway line.	Co7 has been updated to make it clearer. The width of the permanent and temporary ECC have not been changed. Further information has been added to the commitment to include details of locations where the footprint is extended (i.e. at the Network Rail Crossing near Beswick).
Co10	Scoping	Post-construction, the working area will be reinstated to pre-existing condition as far as reasonably practical in line with DEFRA 2009 Construction Code of Practice for the Sustainable Use of Soils on Construction Sites PB13298 or latest relevant available guidance.	Co10 has been updated to state that the latest guidance will be followed. No further information has been changed.
Co22	Scoping	~~The following applies to both construction and operation:~~ ~~Refuelling of machinery will be undertaken within designated areas where spillages can be easily contained. Machinery will be routinely checked to ensure it is in good working condition. Any tanks and associated pipe work containing oils and fuels will be double skinned and be provided with intermediate leak detection equipment.~~ ~~Areas at risk of spillage, such as vehicle maintenance areas and hazardous substance stores (including fuel, oils and chemicals) will be bunded and carefully sited to minimise the risk of hazardous substances entering the drainage system or the local watercourses. Additionally the bunded areas will have impermeable bases to limit the potential for migration of contaminants into groundwater following any leakage/spillage. Bunds used will store fuel, oil etc. to have a 110% capacity. Disturbance to areas close to watercourses reduced to the minimum necessary for the work. Excavated material will be placed in such a way as to avoid any disturbance of areas near to the banks of watercourses and any spillage into the watercourses. Construction materials will be managed in such a way as to effectively minimise the risk posed to the aquatic environment. All plant machinery and vehicles will be maintained in a good condition to reduce the risk of fuel leaks. Drainage works to be constructed to relevant statutory guidance and approved via the Lead Local Flood Authority prior to the commencement of construction. Consultation with the Environment Agency to be ongoing throughout the construction period to promote best practice and to implement proposed mitigation measures.~~	Co22 detailed measures relevant to prevention of pollution. This Commitment has been removed and a singe commitment added to produce a Pollution Prevention Plan (Co4). The Pollution Prevention Plan will form part of the CoCP and relevant details are provided within the outline CoCP (document reference F2.2). Measures relating to contamination are contained within Co77. Co22 has therefore been removed, to streamline the commitments presented.
Co25	Scoping	The onshore export cable ~~route~~ corridor will be completely buried underground for its entire length. No overhead pylons will be installed ~~at any point during the project~~ as part of the consented works for Hornsea Four.	Co25 has been updated to make it clearer. The previously named export cable route is now named the export cable corridor. No information has been changed.
Co26	Scoping	~~Hedgerows and vegetation will be retained where possible. Where it is not possible to retain them, hedgerows will be removed prior to topsoil removal. The width of hedge and vegetation removed will be limited where practical.~~ Where hedgerows require removal, this will be undertaken prior to topsoil removal and the width of hedge removed will be limited where practical. Removed hedges and trees will be replaced with locally appropriate native species.	Co26 has been updated with the latest PEIR information. It now states that Hornsea Four will replace any removed hedges and trees with locally appropriate native species.

5. RPSS & Scoping Change Log

Commitment Reference	Commitment Stage	Hornsea Four Commitment	Explanation of the change
Co28	Scoping	Joint Bays will be completely buried, with the land above reinstated except~~ing link box chambers~~ where access will be required from ground level, e.g. via link box chambers and manholes.	Co28 has been updated to make it clearer. No information has been changed.
Co33	Scoping	~~Where removal of vegetation has to be undertaken during the bird breeding season, vegetation will be checked by a suitably qualified ecologist and where nests are present, the vegetation will not be removed until the chicks have fledged.~~ All vegetation requiring removal will be undertaken outside of the bird breeding season. If this is not possible, the vegetation requiring removal will be subject to a nesting bird check by a suitably qualified ECoW. If nesting birds are present, the vegetation will not be removed until the young have fledged or the nest failed.	Co33has been updated to make it clearer that vegetation removal will be undertaken outside of bird breeding season where possible.
Co34	Scoping	~~Where HDD technologies are not required or practical, the crossing of drainage ditches may be undertaken by open cut methods and / or the installation of temporary culverts or bridges to allow water to continue flowing.~~ ~~This will be in line with the appropriate advice and guidance notes. advice notes, guidance documents and additional information including Environment Agency Pollution Prevention Guidelines (PPGs) will be adhered to, particularly: • PPG01 General Guide to the Prevention of Water Pollution; • PPG02 Above Ground Oil Storage Tanks; • PPG04 Disposal of Sewage where no Mains Drainage is Available; • PPG05: Works in, Near or Liable to Affect Watercourses; • PPG06: Working at Construction and Demolition Sites; • PPG08 Safe Storage and Disposal of Used Oils; • PPG21: Pollution Incident Response Planning; and • Pollution Prevention: Major Pipeline.~~	Co34 had details relevant to methods that may be used where HDD is not possible. Measures relating to HDD, and other crossing techniques are now contained within Co1. Co34 also detailed measures relevant to prevention of pollution. This Commitment has been removed and a singe commitment added to produce a Pollution Prevention Plan (Co4). The Pollution Prevention Plan will form part of the CoCP and relevant details are provided within the outline CoCP (document reference F2.2). Measures relating to contamination are contained within Co77. Co34 has therefore been removed, to streamline the commitments presented
Co36	Scoping	Core working hours for the construction of the onshore components of Hornsea Four will be as follows: • Monday to Friday: 07:00 - 18:00 hours; • Saturday: 07:00 - 13:00 hours;	This works that may be conducted outside of normal working practices have been removed, and are instead listed in the Outline CoCP.
Co41	Scoping	All HDD ~~trenchless~~ crossings will be undertaken by non-impact methods ~~and, as such,~~ in order to minimise construction vibration ~~and as such, construction vibration will be unlikely to be significant~~ beyond the immediate location of works. ~~No blasting is anticipated.~~	It is too early to state whether blasting will be required for HDD crossing methods so this has been removed from the commitment.
Co44	RPSS	The Holderness Inshore Marine Conservation Zone (MCZ) ~~(designated for Intertidal sand and muddy sand, Moderate energy circalittoral rock, High energy circalittoral rock, Subtidal coarse sediment, Subtidal mixed sediments, Subtidal sand, Subtidal mud, and Spurn head (subtidal))~~ will ~~be avoided by marine ECR~~ not be crossed by the offshore export cable corridor including the associated temporary works area.	Co44 has removed the explanation of the MCZ, as this information is provided in the DCO Works Plan. It also now states that the temporary works area will not cross the Holderness Inshore MCZ. Furthermore, the previously named export cable route is now named the export cable corridor.
Co45	RPSS	The Holderness Offshore Marine Conservation Zone ~~recommended~~ MCZ ~~(rMCZ)(proposed to be designated for North Sea Glacial Tunnel valleys, Subtidal coarse sediment, Subtidal sand, Subtidal mixed sediments and Ocean Quahog (*Arctica islandica*))~~ will ~~be avoided by marine ECR.~~ not be crossed by the offshore export cable corridor including the associated temporary works area. ~~marine ECR.~~	Co45 has removed the explanation of the MCZ, as this information is provided in the DCO Works Plan. It also now states that the temporary works area will not cross the Holderness Inshore MCZ. Furthermore, the previously named export cable route is now named the export cable corridor.
Co46	RPSS	The offshore export cable corridor ~~marine ECC~~ and the ~~(including WTGs and inter-~~array ~~cables)~~ will be routed ~~so as~~ to avoid any identified archaeological receptors ~~known wrecks~~ pre construction, with buffers as detailed in the Marine Written Scheme of Investigation WSI. ~~(with a buffer of 50m around the wreck), further refined following high-resolution geophysical survey post-consent.~~	An Outline Marine WSI has been provided which includes full details of associated buffers, so it has been removed from here.
Co64	Scoping	~~During construction of the cable trenches, the topsoil and subsoil will be stripped and stored on site within the temporary working area corridor of the Hornsea Four onshore export cable corridor. The~~ Topsoil and subsoil will be stored in separate stockpiles in line with DEFRA 2009 Construction Code of Practice for the Sustainable Use of Soils on Construction Sites PB13298 or the latest relevant available guidance. Any suspected or confirmed contaminated soils will be appropriately separated, contained and tested before removal (if required). ~~No material will be stockpiled within the floodplain of any watercourse.~~	Co64 has been update to remove reference to storage of topsoil and subsoil as this detail is set out within the Project Description. It is not possible to commit to stockpiling on a floodplain, as it is unknown where flooding will take place in the future.

5. RPSS & Scoping Change Log

Commitment Reference	Commitment Stage	Hornsea Four Commitment	Explanation of the change
Co76	Scoping	~~Potential risks to human health from any encountered (unexpected) ground contamination will be avoided by the use of~~ Appropriate Personal Protective Equipment (PPE) will be used and relevant good working practices applied to avoid potential risk to human health from any potential ground contamination, in line with relevant available guidance. ~~and by adopting appropriate working practices will be adopted~~	Co76 has been updated to make it clearer. Appropriate good working practices have been removed, and will be detailed in the CoCP.
Co77	Scoping	A contaminated land and groundwater scheme will be prepared to identify any contamination and any remedial measures which may be required.~~encountered during the construction phase which would be subject to appropriate risk assessment and if necessary, either removed, treated and/ or mitigated as part of the project.~~	Co77 has been updated to align with the draft DCO which includes a requirement to develop a Contaminated land and groundwater scheme. This scheme will ensure contamination is dealt with appropriately and remediated where required.
Co78	RPSS	~~Micro-siting will be undertaken during detailed design to avoid all ponds if practical.~~ Ponds will be avoided through micro-siting of the onshore export cable where practical.	Co78 has been updated to make it clearer. No information has been changed.
Co79	Scoping	Severance to PRoW will be temporary where possible, and appropriate temporary diversions, gated crossings and signage will be provided ~~and/or temporary PRoWs/footpath diversions will be provided~~ during construction. PRoW will be reinstated as soon as reasonably practical. Where permanent severance to PRoW is necessary, permanent diversions of such routes will be applied.	Co79 has been updated with the latest PEIR information regarding PRoW crossings.
Co80	Scoping	~~A crossing schedule is provided which includes crossing methodology for each crossing of road, rail, PRoW and watercourse.~~	The crossing schedule is now referred to in Co7, Co27 and Co34, so Co80 has therefore been removed, to streamline the commitments presented.
Co81	Scoping	~~A scour protection layer (typically rock) may be needed where cable burial depths cannot be obtained.~~ Where scour protection is required, MGN 543 (or latest relevant available guidance) will be adhered to with respect to changes greater than 5% to the under keel clearance.	Co81 has been updated with updated PEIR information regarding scour protection.
Co82	Scoping	~~A scour protection layer (typically rock) may be needed on the seabed and would be installed either before or after foundation installation.~~ A Scour Protection Management Plan will be developed. It will include details of the need, type, quantity and installation methods for scour protection.	The detail regarding scour protection has been removed here, as the commitment now references the Scour Protection Management Plan, which will contain this information.
Co83	Scoping	~~Undertake a cable burial risk assessment to inform front end engineering works.~~ Where possible, cable burial will be the preferred option for cable protection.	Co83 has been changed to make a specific commitment in relation to cable burial as the preferred option for cable protection. Co176 provides a commitment to develop a Cable Specification and Installation Plan. An appropriate dML Condition is included within the Draft DCO.
Co84	RPSS	~~Foundations and cable routes~~ Presence of sensitive habitats will be identified through a review of the latest available benthic datasets and pre-construction surveys. Wind turbine foundations and the offshore export cable will be micro-sited around annex one habitat wherever reasonably practicable ~~qualifying sensitive habitat features~~ (subject to agreement with the MMO) to an extent not resulting in a hazard for marine traffic and Search & Rescue capability. ~~Presence of sensitive habitats will be identified through a review of the latest available benthic datasets and pre-construction surveys.~~	Co84 has been updated to include reference to micro-siting around Annex 1 habitat.
Co86	RPSS	The ~~proposed~~ offshore export cable corridor and cable landfall (below MHWS) will not cross the Greater Wash SPA, Flamborough & Filey Coast SPA and the Flamborough Head SAC. ~~all statutory marine designated areas.~~	Co86 has been updated to include specific reference to the relevant designated sites.
Co88	Scoping	Construction and operational maintenance vessels (e.g. CTVs) will ~~follow a route from their home port that~~ avoid high concentrations of rafting red-throated diver. ~~(a species known to be sensitive to disturbance by boat traffic).~~	The commitment has been updated to ensure it is clear, appropriate and practicable whilst ensuring disturbance to red-throated diver from vessel traffic is minimised.
Co89	Scoping	Advance warning and accurate location details of construction, maintenance and decommissioning operations, associated Safety Zones and advisory passing ~~safety~~ distances will be given ~~to fishing fleets (including~~ via Notices to Mariners and Kingfisher Bulletins~~)~~.	Co89 has been updated to make it clearer to read.
Co90	Scoping	Ongoing liaison with fishing fleets will be maintained during construction, maintenance and decommissioning operations via an appointed Fisheries Liaison Officer and Fishing Industry Representative.	This commitment has been updated to make it clearer. No information has been changed.
Co91	Scoping	~~Guard vessels will be used, where appropriate, during construction/maintenance/decommissioning operations to ensure communication of and adherence to Safety Zones and advisory safety distances.~~	At the point of scoping, two commitments were proposed (Co91 &Co139), in relation to the use of safety zones and guard vessels during construction/maintenance/decommissioning. A single commitment is now proposed and all details are included in Co139.

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5. RPSS & Scoping Change Log

Commitment Reference	Commitment Stage	Hornsea Four Commitment	Explanation of the change
Co92	RPSS	~~All infrastructure (including partially constructed/decommissioned) will be designed, marked and lit in accordance with standard industry guidance including MGN 543, CAP 764, CAP 437 and as advised by IALA and Trinity House.~~	Co92 had details relevant to MGN 543 guidance, specifying that infrastructure will be designed, marked and lit in accordance with this guidance. This has been removed, as a commitment to comply with MGN 543 is included in Co99.
Co93	RPSS	Aids to navigation (marking and lighting) will be deployed in accordance with the latest relevant available standard industry guidance and as advised by Trinity House, MCA and Civil Aviation Authority (CAA) and MoD as appropriate. This will include a buoyed construction area around the array area and the HVAC booster station in consultation with Trinity House.	Co93 has been updated to include reference to the relevant bodies who Hornsea Four will consult with on aids to navigation, and further information regarding the types of aids to navigation.
Co94	RPSS	The United Kingdom Hydrographic Office will be notified ~~Notifications will be made to the relevant bodies (e.g. United Kingdom Hydrographic Office)~~ of both the commencement (within two weeks), progress and completion of offshore construction works (within two weeks) to allow marking of all installed infrastructure on nautical charts.	Co94 has been updated to ensure alignment with the details included in the draft DCO.
Co95	Scoping	A fisheries co-existence and liaison plan will be prepared prior to the commencement of construction ~~in advance of construction commencing.~~	Co95 has been updated to made it clearer to read. The draft dMLs of the draft DCO includes a Condition to prepare a Fisheries Liaison and Coexistence Plan.
Co96	Scoping	~~Maintaining at least one line of symmetry/orientation in turbine layout~~ The project commits to agreeing layout principles with MCA, which will include maintaining at least one line of symmetry/orientation in turbine layout.	Co96 has been updated to reflect the production of the Layout Principles and to include the MCA as a consultee on the development of these principles.
Co98	Scoping	~~Construction~~ Monitoring of vessel traffic for the duration of the construction period ~~and coordination for project vessels.~~	Co98 has been updated to make it clearer to read.
Co99	Scoping	~~Development of Emergency Response and Cooperation Plan (ERCOP)~~ Hornsea Four will ensure compliance with MGN543 where appropriate.	Co99 has been updated to ensure alignment with the details included in the draft dMLs of the DCO.
Co101	Scoping	~~Air draught clearance of blades greater than 22m above MHWS. 23,8m MSL~~	Co101 has been replaced by Co138 which provides a commitment in relation to air draught clearance.
Co102	Scoping	~~Notification to aviation stakeholders of the location and height of all wind energy development and associated construction activities (all structures over 150 ft).~~ The Defence Geographic Organisation will be informed of the locations, heights and lighting status of the wind turbines, including estimated and actual dates of construction and the maximum height of any construction equipment to be used, prior to the start of construction, to allow inclusion on Aviation Charts.	Co102 has been updated to ensure alignment with the details included in the draft dMLs of the DCO.
Co105	Scoping	~~All structures (turbines and offshore support platforms) above 60 m in height to be fitted with aviation obstruction lighting.~~	Co93 will ensure that marking and lighting is deployed in line with industry guidance. Therefore, Co105 has been removed to streamline the Commitments presented.
Co106	Scoping	~~Turbines to be accessed by hoist will be equiped with a helihoist status light on each turbine to indicate to a helicopter operator that the turbine blades and nacelle are safely secured in position prior to helicopter hoist operations commencing.~~	Co99 will ensure that helihoist status light will be provided where necessary. This information will be detailed in MGN543.
Co107	Scoping	Crossing and proximity agreements with known existing pipeline and cables operators will be sought.	Co107 has been updated to make it clearer.
Co108	Scoping	A vessel management plan will be developed pre construction which will determine vessel routing to and from construction areas and ports to minimise encounters with marine mammals. ~~avoid areas of high risk. This will also include codes of conduct for vessel behaviour and for vessel operators including advice to operators to not deliberately approach marine mammals and to avoid abrupt changes in course or speed should marine mammals approach the vessel to bow-ride.~~	Co108 has been update to clarify the timing in relation to the development of the vessel management plan.
Co109	Scoping	~~During piling operations, soft starts will be used, with lower hammer energies used at the beginning of the piling sequence before increasing energies to the higher levels.~~	Co109 had details relevant to piling and hammer energies. Measures relating to piling are now contained within Co110 which notes that a MMMP will be implemented during construction, and includes the information from Co109.
Co110	Scoping	A piling Marine Mammal Mitigation Protocol (MMMP), ~~approved by the MMO in consultation with Natural England,~~ will be implemented during construction and will be developed in accordance with JNCC (2010) guidance. The piling MMMP will include details of soft starts to be used during piling operations with lower hammer energies used at the beginning of the piling sequence before increasing energies to the higher levels. ~~The MMMP will outline monitoring measures to ensure the impact zone is free of marine mammals before piling commences. The details of the MMMP will be agreed with Natural England.~~	Co110 has been updated to include reference to the JNCC (2010) guidance. An Outline MMMP has been produced which includes further details on appropriate measures to be implemented (see document F2.5)
Co111	Scoping	~~A PEMMP (construction and operation phases) and Decommissioning Plan (decommissioning phase) will be produced and followed. The PEMMP and Decommissioning Plan will cover the construction, operation and maintenance, and decommissioning phases of Hornsea Four respectively and will include~~ A Marine Pollution Contingency Plan (MPCP) will be developed. This MPCP will outline procedures to protect personnel working, safeguard the marine environment and mitigation measures in the event of an accidental pollution event arising from offshore operations relating to Hornsea Four. The MPCP will also ~~outline mitigation measures should an accidental spill occur, address potential contaminant releases and~~ include relevant key emergency contact details ~~(e.g. Environment Agency, Natural England and MCA).~~	Details relating to decommissioning have been removed from this commitment as the production of a Decommissioning Strategy is covered under Co181. The wording of this commitment relevant to a MPCP has been updated to ensure consistency with the wording in the draft dMLs of the DCO.

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5. RPSS & Scoping Change Log

Commitment Reference	Commitment Stage	Hornsea Four Commitment	Explanation of the change
Co112	Scoping	~~A UXO specific (MMMP), approved by the MMO in consultation with Natural England will be implemented during UXO clearance. The UXO MMMP will use ADDs, marine mammal observers and scare charges as the primary mitigation measures alongside other measures as may be agreed with Natural England and the MMO.~~	Removed this as Hornsea Four are not consenting the removal of UXO under the DCO. If UXO detonation is required, Hornsea Four will seek the relevant Marine Licence approvals which will be subject to their own conditions as required.
Co113	Scoping	A Decommissioning Marine Mammal Mitigation Protocol (MMMP), ~~approved by the MMO in consultation with Natural England,~~ will be implemented during decommissioning. The Decommissioning MMMP will include ~~robust~~ measures to ensure the risk of permanent threshold shift (PTS) to marine mammals is negligible and will be in line with the latest relevant available guidance. ~~outline monitoring measures to ensure the impact zone is free of marine mammals before decommissioning activities commences. The details of the MMMP will be agreed with Natural England.~~	Co113 has been updated to make it clearer and to note that the latest relevant available guidance will be followed.
Co114	Scoping	Best practice air quality management measures will be applied where it is relevant, as described in Institute of Air Quality Management (IAQM) Guidance on the Assessment of Dust from Demolition and Construction 2014, version 1.1, or latest relevant available guidance, ~~where relevant and practicable to the activities being undertaken.~~	Co114 has been updated to make it clearer and to note the use of the latest available guidance.
Co116	Scoping	~~Any contamination encountered during the construction phase would be subject to appropriate risk assessment and if necessary, either removed, treated and/ or mitigated as part of the project.~~	Co116 had details relevant to contamination risk assessment. This has been combined with Co77, which notes that a contaminated land and groundwater scheme will be prepared, which will identify any contamination and measures. The preparation of a contamination scheme is also included as a requirement in the draft DCO.
Co123	Scoping	Based on noise modelling results, where noise has the potential to cause significant adverse effects, the use of mufflers and acoustic barriers will be used where HDD is being undertaken. ~~and directional lighting for areas where HDD is undertaken~~.	Details in relation to directional lighting have been removed from this commitment as they are covered in Co69
Co124	Scoping	~~Adoption of an agreed Implementation of~~ A ~~Construction~~ Code of Construction Practice (CoCP) will be developed in accordance with the outline CoCP. The outline CoCP will include measures to ~~minimise~~ reduce temporary disturbance to residential properties, recreational users and existing land users.	Co124 has been updated to reflect that an Outline CoCP has been provided. The development of a CoCP is included as a requirement within the draft DCO.
Co127	Scoping	An Onshore Decommissioning Plan ~~or method statement~~ will be ~~agreed~~ developed prior to decommissioning. The Onshore Decommissioning Plan will include provisions for ~~with~~ the removal of all onshore above ground infrastructure and the decommissioning of below ground infrastructure and details relevant to pollution prevention and avoidance of ground disturbance. The Onshore Decommissioning Plan will be in line with the latest relevant available guidance.	Co127 has been updated with the latest PEIR information, which now has further information regarding what the Onshore Decommissioning Plan will include. The development of an onshore Decommissioning Plan is included as a requirement within the draft DCO.
Co128	Scoping	~~Appropriate sites will be selected through the RPSS process for onshore logistics compounds. Good construction practice will be applied.~~	Co128 is no longer necessary as this has already been undertaken through the site selection process. Co128 is therefore removed, to streamline the commitments presented.
Co133	RPSS	The onshore export cable corridor (ECC) will be routed to avoid residential receptors ~~noise sensitive properties avoided~~ by at least 50 m.	Co133 has been updated to make it align with the PEIR glossary. No information has been changed.
Co134	RPSS	Cable installation works at the landfall area will be located at least 200 m from residential receptors ~~noise sensitive properties~~.	Co134 has been updated to make it align with the PEIR glossary. No information has been changed.
Co135	RPSS	Temporary construction highway access points ~~access roads~~ along the onshore export cable corridor (ECC) will be located at least 150m from residential receptors, with the exception of two receptors: Bridge Farm Holiday Cottages, Brigham, Driffield, and a receptor off the A1035 Malton Road, Beverley. ~~noise sensitive properties.~~	Co135 has been updated with the latest PEIR information and to include details of exceptions where temporary highway access points may need to be closer than the specified minimum distance.
Co137	Scoping	HGV ~~vehicle~~ movements associated with operation and planned maintenance of the onshore infrastructure will operate only between the hours of ~~during the daytime and evening periods (i.e.~~ 0700 – 2300. HGV ~~vehicle~~ movements may however be subject to unscheduled maintenance activities ~~events~~ outside these hours. In this event the council will be informed via writing.	Co137 has changed reference of vehicle movements to HGV movements which is in line with the latest PEIR information.

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5. RPSS & Scoping Change Log

Commitment Reference	Commitment Stage	Hornsea Four Commitment	Explanation of the change
Co138	Scoping	~~Raised~~ Lower air draught of ~~WTG~~ wind turbines ~~to~~ will be a minimum of 35 m above Mean Sea Level (MSL) ~~instead of 22 m LAT~~	Co138 has been updated to make it clearer to read. No information has been changed.
Co139	Scoping	~~Application and use of~~ Safety zones of up to 500m will be applied during construction, maintenance and decommissioning phases. Where appropriate, guard vessels will also be used to ensure adherence of Safety Zones or advisory passing distances , as defined by risk assessment, to mitigate any impact which poses a risk to surface navigation during construction, maintenance and decommissioning phases. Such impacts may include partially installed structures or cables, extinguished navigation lights or other unmarked hazards.	Co139 has been updated to make it clearer to read. Information regarding the use of guard vessels has been added.
Co140	RPSS	~~Establishment of archaeological exclusion zones (AEZs) as required to protect any known / identified marine archaeological receptors.~~ Archaeological exclusion zones (AEZs) will be established in the Marine WSI in accordance with the outline Marine WSI (document reference F2.4), to protect any known / identified marine archaeological receptors.	Co140 has been reworded to note that full details of archaeological exclusion zone which are known at this stage are provided within the Outline Marine WSI (see document F2.4)..
Co141	Scoping	A Marine Written Scheme of Archaeological Investigation (WSI) will be developed in accordance with the Outline Marine WSI. ~~Development and agreement of an archaeological WSI.~~ The Marine WSI will includ~~ing~~ the ~~development and~~ implementation of a protocol for Archaeological Discoveries in accordance with 'Protocol for Archaeological Discoveries: Offshore Renewables Projects' (The Crown Estate, 2014).	Co141 has been updated to make it clearer to read. It is noted an Outline Marine WSI is provided (see document F2.4).
Co142	Scoping	~~A programme of geoarchaeological assessment and analysis will be undertaken on geotechnical samples collected across the ECC and array area, which will include early engagement with the geoarchaeologist to optimise sample locations, and will result in the delivery of a paleogeographic ground model.~~	Co142 details relevant to geoarchaeology assessment. This has been combined with Co141, which states that a Marine Written Scheme of Archaeological Investigation (WSI) will be developed in accordance with the Outline Marine WSI.This WSI will cover all of the information that was named in Co142. In addition Co166 and Co167 provided commitments for geophysical and geotechnical surveys including a full archaeological review.

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6. PEIR Change Log

Commitment Reference	Commitment Stage	Hornsea Four Commitment	Explanation of the change
Co1	Scoping	All Environment Agency (EA) main rivers, Internal Drainage Board (IDB) maintained drains, main roads and railways will be crossed by HDD or other trenchless technology as set out in the Onshore Crossing Schedule. Where HDD technologies are not practical, the crossing of Ordinary watercourses may be undertaken by open cut methods. In such cases, temporary measures will be employed to maintain flow of water along the watercourse. Main rivers will not be temporarily dammed and/or rerouted.	Co1 has been updated based on Section 42 comments received from the Environment Agency (EA) which highlighted that the EA does not 'own; all sewers or drains, but has permissive powers to undertake works on 'main rivers,' and in some circumstances, may also be the landowner'. The commitment also notes that main rivers will not be temporarily dammed and/or rerouted.
Co2	RPSS	~~The following sensitive sites will be avoided by the permanent project footprint: Listed Buildings (580 sites), Registered Parks and Gardens (Thwaite Hall and Risby Hall), Scheduled Monuments (30 sites), Conservation Areas (19 sites), non-designated built heritage assets (368 sites) and Ancient Woodland (10 sites and TPOs). Please refer to PEIR Volume 6, Annex 6.5.1 Appendix B Designated Assets Gazetteer for detailed lists of designated heritage assets that are avoided by Hornsea Four. With the exception of River Hull Headwaters SSSI, sensitive sites have been avoided. Please refer to PEIR Volume 6, Annex 3.1: Extended Phase 1 Habitat Survey Report for details.~~ ~~Where possible, unprotected areas of woodland, mature, and protected trees (e.g. veteran trees) shall also be avoided or micro sited around.~~ A range of sensitive historical, cultural and ecological conservation areas (including statutory and non-statutory designations) have been directly avoided by the permanent Hornsea Four footprint, at the point of Development Consent Order Submission (DCO). These include, but are not restricted to: Listed Buildings (564 sites); Scheduled Monuments (30 sites); Registered Parks and Gardens (Thwaite Hall and Risby Hall); Onshore Conservation Areas (18 sites); Onshore National Site Network (one site); Offshore National Site Network (three sites); Offshore Marine Conservation Zones (two sites); Sites of Special Scientific Interest (two sites); Local Nature Reserves (none have been identified); Local Wildlife sites (33 sites); Yorkshire Wildlife Trust Reserves (none have been identified); Royal Society for the Protection of Birds (RSPB) Reserves (none have been identified); Heritage Coast; National Trust land; Ancient Woodland (10 sites and known Tree Preservation Orders (TPOs)); non-designated built heritage assets (334 sites); and historic landfill (none have been identified). Where possible, unprotected areas of woodland, mature and protected trees (i.e. veteran trees) have and will also be avoided.	Co2 has been updated to specify all of the sites which will be avoided to provide further detail. This was a request made by Natural England at Scoping.
Co7	Scoping	The ~~temporary~~ construction work area associated with onshore export cable corridor will be 80 m working width to minimise the construction footprint, except at the Network Rail Crossing near Beswick, the approach to landfall and the approach to the onshore substation. ~~where~~ At the Network Rail Crossing the working width ~~footprint~~ is extended up to 120 m to facilitate HDD of the railway line. The permanent onshore export cable corridor width will be 60 m except where obstacles are encountered such as the Network Rail Crossing near Beswick (where the permanent footprint ~~is~~ may be extended up to 120m to facilitate HDD of the railway line), and on the approach to the landfall onshore substation.	Co7 has been updated to ensure alignment with the descriptions provided within the Project Description.
Co8	PEIR	~~Stockpiles will be a maximum of 2m high to avoid compaction from the weight, in line with DEFRA 2009 Construction Code of Practice for the Sustainable Use of Soils on Construction Sites PB13298 or the latest relevant available guidance.~~ Soil will be stored and managed in accordance with DEFRA Construction Code of Practice for Sustainable Use of Soils on Construction Sites (Ref PB1328) or the latest available guidance.	Co8 has been updated to reflect the Defra guidance. The previous commitment was based on a misinterpretation of the Defra guidance.
Co13	PEIR	Where cable trenching or road widening of the construction accesses is required across perched or near-surface secondary A or B aquifers, measures will be implemented to ~~ensure that help~~ protect groundwater quality ~~is not affected and~~. These will be detailed within the Pollution Prevention Plan (PPP) (Co4). ~~to prevent changes to chemical quality, and the use of~~ Additionally, in such areas, thermally insulated ~~Direct Current~~ cables will be used to ~~prevent~~ minimise effects on groundwater temperature~~)~~. Furthermore, measures to ensure that the cable trench does not become a conduit for groundwater flow will also be implemented ~~(e.g. ensuring that backfill is sufficiently compacted and has the same transmissivity as adjacent undisturbed material)~~. All such ~~ppropriate~~ measures will be identified following consultation with the Environment Agency and will be reported within the CoCP (Co124)~~. This will be,~~ and in line with the requirements of Section 23-25 of the Land Drainage Act 1991, or the latest relevant available guidance.	Co13 has been updated to make the commitment more concise and improve clarity. No further information has been changed.
Co14	PEIR	A Construction Drainage Scheme will be developed for the temporary onshore construction works in accordance with the Outline Onshore Infrastructure Drainage Strategy.~~, to~~ The Construction Drainage Scheme will ensure that existing land drainage is maintained during construction and will identify specific drainage measures for each area of land ~~will be specified~~ based on information identified and recorded by a Land Drainage Consultant prior to construction. The Construction Drainage Scheme will be developed in consultation with landowners, the Lead Local Flood Authority (ERYC), the Environment Agency and relevant Internal Drainage Board.	Co14 has been updated to reference the Outline Onshore Infrastructure Drainage Strategy which is provided alongside the DCO Application (see document F2.6).

Hornsea 4

6. PEIR Change Log

Commitment Reference	Commitment Stage	Hornsea Four Commitment	Explanation of the change
Co18	PEIR	HDD entry and exit points will be located at least 9 m away from IDB and Ordinary surface watercourses and 20m from EA surface water courses ~~and~~ or the landward toe of the EA surface watercourse's flood defences. ~~and Where flood defences are present t~~ Where a surface watercourse is to be crossed by HDD, the onshore export cables will be installed at least 1.2 m beneath the hard bed of any ~~the~~ watercourses~~ and~~ the optimal clearance depth beneath watercourses will be agreed with the relevant authorities prior to construction. Where EA flood defences are present a minimum 1.2 m vertical clearance will be maintained between the hard bed of the watercourse and the landward toe of those flood defences. Where Hornsea Four crosses sites of particular sensitivity (e.g. embanked EA watercourses, SSSIs or groundwater Inner Source Protection Zones (SPZs)) a hydrogeological risk assessment will be undertaken to inform a site specific crossing method statement which will also be agreed with the relevant authorities prior to construction.	Co18 has been updated to include all watercourses and to provide more specific information. It also now includes information on how Environment Agency (EA) flood defences will be dealt with.
Co19	PEIR	An Onshore Infrastructure Drainage Strategy will be developed for the permanent onshore operational development ~~onshore along the onshore cable corridor and the onshore substation~~ in accordance with the Outline Onshore Infrastructure Drainage Strategy. The Onshore Infrastructure Drainage Strategy ~~and~~ will include measures to ensure that existing land drainage is reinstated and/or maintained. ~~and~~ This will include ~~M~~measures to limit discharge rates and attenuate flows to maintain greenfield run-off rates ~~such that pre-development run-off rates to surrounding land are retained~~ at the Onshore Substation ~~will also be identified~~. The Onshore Infrastructure Drainage Strategy will be developed in line with the latest relevant drainage guidance notes in consultation with the Environment Agency, Lead Local Flood Authority and relevant Internal Drainage Board as appropriate.	Co19 has been updated to reference the Outline Onshore Infrastructure Drainage Strategy which is provided alongside the DCO Application (see document F2.6) and the latest relevant drainage guidance notes. It also specifies the measures that that will be included at the Onshore Substation. This is in response to Section 42 comments comments received from the Environment Agency (EA).
Co25	Scoping	The onshore export cable corridor (inclusive of the 400kV export cable corridor) will be completely buried underground for its entire length. No overhead pylons will be installed as part of the consented works for Hornsea Four.	Co25 has been updated to provide extra information by specifying the inclusion of the 400kV export cable corridor. No information has been changed.
Co26	Scoping	Where hedgerows and/or trees require removal, this will be undertaken prior to topsoil removal. ~~and the width of hedge removed will be limited where practical.~~ Sections of hedgerows and trees which are removed hedges and trees will be replaced ~~with locally appropriate native species.~~ using like for like hedgerow species.	Co26 has been updated to cover relevant mitigation for hedgerows and trees. A new commitment has been added to reflect the projects proposals for enhancement of hedgerows (Co194).
Co27	PEIR	Trees identified to be retained within ~~as per~~ the Onshore Crossing Schedule will be fenced off and worked around. Where works are required close to trees that will remain in situ ~~are required~~, techniques will be used to safeguard the root protection zone.	Co 27 has been slightly amended to make it clearer. No information has been changed.
Co30	PEIR	A Landscape Management Plan will be developed in accordance with the ~~o~~Outline Landscape Management Plan. The Landscape Management Plan will include details of mitigation planting at the onshore substation site, including the number, location, ~~and~~ species and details of management and maintenance of planting. ~~will be provided.~~ Where practical, landscape mitigation planting will be established as early as possible in the construction phase.	Co30 has been slightly amended to make it clearer. No information has changed
Co35	PEIR	Where required, Pprovision will be made for badger access in relevant construction areas, when work is not taking place in order to ensure normal movements as far as reasonably possible. Provision will be made to ensure avoiding the entrapment of any animals within relevant construction areas. Checks will be made prior to the start of any works to ensure no animals are trapped. Appropriate checks will be made as required by the ECoW.	Co35 has been amended to specify that badger access will only be utilised 'where required'.
Co46	PEIR	~~The offshore export cable corridor and the array~~ All intrusive construction activities will be routed and microsited to avoid any identified archaeological receptors pre construction, with buffers as detailed in the Marine Written Scheme of Investigation (WSI).	Co46 has been amended to accommodate comments made by Historic England prior to application.
Co48	PEIR	~~Potential Annex 1 habitats~~ Habitats of principal importance (Section 41 of the 2006 Natural Environment and Rural Communities (NERC) Act will be avoided where possible, informed through the undertaking of ~~geophysical~~ survey works pre-construction. ~~This excludes features of Smithic Sands which at the time of application is not designated.~~	Co48 has been amended by removing reference to Smithic Sands, following confirmation from Natural England that Smithic Bank is not Annex 1 or potential Annex 1 Habitat. Reference to 'potential' has been added for clarity, as Hornsea Four does not directly cross and protected sites.
Co49	RPSS	There will be no permanent High Voltage infrastructure installed above surface within ~~5~~110 m of residential properties and sub surface infrastructure (including the onshore export cable) within ~~2~~50 m of residential properties.	Co49 has been amended to reflect the updated distances from the latest project design, and to detail that the sub surface infrastructure includes the onshore export cable.
Co61	PEIR	Prior to the commencement of works, the contractor (or project appointed Agricultural Liaison Officer) will undertake ~~document information on existing agricultural management and soil/land conditions. This will include~~ soil condition surveys and intrusive soil survey trial pits to identify and describe the physical and nutrient characteristics of the existing soil profiles. Such work will inform the reinstatement under Co10.	Co61 has been amended to make the commitment more concise and now refers to how it links to Co10.
Co63	PEIR	The haul road will be installed within the works area of the onshore Export Cable Corridor (ECC) to minimise impacts during construction on agricultural land. With the exception of a section of haul road at Beck Hill (south of Gembling House, YO25 8HS) and Miles Lane (Leconfield, HU17 7RB).	Co63 has been updated to clarify the locations of where there will be an exception of a section of a haul road. The updates reflect the latest project design in response to landowner consultation feedback.

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Commitment Reference	Commitment Stage	Hornsea Four Commitment	Explanation of the change
Co64	Scoping	Topsoil and subsoil will be stored in separate stockpiles in line with DEFRA ~~2009~~ Construction Code of Practice for the Sustainable Use of Soils on Construction Sites PB13298 or the latest relevant available guidance. Any suspected or confirmed contaminated soils will be appropriately separated, contained and tested before removal (if required). Where reasonably practicable, topsoil & subsoil stockpiling within the floodplain (defined as areas of Flood Zone 2 or 3 as identified on the Environment Agency Flood Map for Planning) of any EA Main River will be avoided at the Onshore Substation	Following a further review of the flood zone mapping in relation to the onshore cable route, Hornsea Four is able to commit to the avoidance of topsoil and subsoil stockpiling within within Flood Zone 2 or 3 where possible which is included within a new Commitment (Co197). In response to comments raised by the Environment Agency (EA) around pollution prevention and the maintenance of flood plain capacity, Hornsea Four will provide details on the following with the Outline Code of Construction Practice (see document F2.2): •Seeding of storage mounds; •Use of silt traps in specific locations; and •Providing periodic gaps in storage mounds to allow water to flow across the floodplain.
Co65	PEIR	A Site Waste Management Plan (SWMP) will be developed in accordance with the Outline Site Waste Management Plan, with consideration of the latest relevant available guidance.	Co65 has been updated to reference the Outline Site Waste Management Plan which is provided alongside the DCO Application (see document F2.2)
Co68	PEIR	All logistics compounds will be removed and sites will be reinstated ~~restored to their original condition~~ when construction has been completed.	Co68 has been amended to be more concise. No information has changed.
Co69	PEIR	~~Site lighting will only operate when required and will be directional to avoid unnecessary illumination.~~ Construction site lighting will only operate when required and will be positioned and directed to avoid unnecessary illumination to residential properties, sensitive ecological receptors, footpath users, and minimise glare to users of adjoining public highways. Construction site lighting will be designed in accordance with latest relevant available guidance and legislation and the details of the location, height, design and luminance of lighting to be used will be detailed within the final Code of Construction Practice. The design of construction site lighting will accord with the details provided in the Outline Code of Construction Practice (Co124) and Outline Ecological Management Plan (Co168).	Co69 has been amended to be specific to construction site lighting and to include details of when construction lighting will operate. The commitment now specifies that the lighting will be designed in accordance with the latest relevant guidance, legislation, and the Outline Code of Construction Practice (Co124) and Outline Ecological Management Plan (Co168) (see document F2.2 and F2.3 respectively). A new commitment has been added to provide information relevant to operational lighting (Co193).
Co78	RPSS	All ponds identified during the route planning and site selection process have been avoided where possible. During construction any~~d~~ newly identified ponds will be avoided through micro-siting of the onshore export cable where reasonably practicable.	Co78 has been amended slightly to clarify that all known ponds have been avoided where possible through the site selection process and that further micro siting will be undertaken where possible to avoid newly identified ponds during construction.
Co79	Scoping	~~Severance to~~ Disturbance to PRoWs will be temporary where possible and PRoWS will be reinstated as soon as reasonably practical. A PROW Management Plan will be developed in accordance with the Outline PRoW Management Plan. The PRoW Management Pan will include details of temporary and permanent diversions, closures, gated crossings and signage to be provided during construction. ~~PRoW's will be temporary where possible and appropriate temporary diversions, gated crossings and signage will be provided during construction. PRoW will be reinstated as soon as reasonably practical. Where permanent severance to PRoW is necessary, permanent diversions of such routes will be applied.~~	Co79 has been amended to be more concise and the term 'severance' has been removed. 'Closures' has also been added to the list of information that will be detailed in the PROW Management Plan (see document F2.2).
Co81	Scoping	Where scour protection is required, MGN ~~543~~ 654 ~~(or latest relevant available guidance)~~ will be adhered to with respect to changes greater than 5% to the under keel clearance in consultation with the MCA.	Co81 has been amended to highlight that that the MCA will be consulted on matters relevant to offshore safety management. This change had been made in response to Section 42 comments received from the MCA. June 2021: the MGN number has been updated to MGN 654 which is the updated guidance document.
Co84	RPSS	Presence of ~~sensitive habitats~~ habitats of principal importance (Section 41 of the 2006 Natural Environment and Rural Communities (NERC) Act) will be identified through a review of the latest available benthic datasets and pre-construction surveys. ~~Wind turbine~~ Foundations and ~~the offshore export~~ cables will be micro-sited around ~~potential Annex I habitat~~ habitats of principal importance wherever reasonably practicable (subject to agreement with the MMO) to an extent not resulting in a hazard for marine traffic and Search & Rescue capability.	Co84 has been amended to include reference to 'potential' for clarity, as Hornsea Four does not directly cross and protected sites.
Co87	PEIR	Proposed developable area has been selected and refined from the larger Hornsea Four Agreement for Lease (AfL) area to avoid areas of shipping and navigation activity and areas with the highest concentrations of birds (kittiwake, gannet, guillemot and razorbill) that are more likely to be displaced by the construction activities, and birds that are more likely to fly at heights that brings them within the rotor swept zone and hence at risk of collision.	Co87 has been amended to include reference to the further refinement made to southern portion of the Order Limits between PEIR and DCO Application. Additionally it has been amended to reflect the updates to the developable area.
Co95	Scoping	A Fisheries Co-existence and Liaison Plan will be ~~prepared~~ developed in accordance with the Outline Fisheries Co-existence and Liaison Plan prior to the commencement of construction.	Co95 has been slightly amended to replace 'prepared' with 'developed'. No information has been changed.

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Commitment Reference	Commitment Stage	Hornsea Four Commitment	Explanation of the change
Co96	Scoping	The project commits to agree layout principles with the Marine Management Organisation (MMO), in consultation with the Maritime Coastguard Agency (MCA) and Trinity House. ~~The project commits to agreeing layout principles with MCA. which will include maintaining at least one line of symmetry/ orientation in turbine layout.~~	Co96 has been amended to remove unnecessary detail that will be documented in the layout principles. This change had been made in response to Section 42 comments received from the MCA.
Co98	Scoping	Monitoring and annual reporting of vessel traffic for the duration of the construction period.	Co98 has been updated to include 'annual reporting' of vessel traffic during construction. No further information has been changed.
Co102	Scoping	The Defence Infrastructure ~~Geographic~~ Organisation and the Civil Aviation Authority (CAA) will be informed of the locations, heights and lighting status of the wind turbines, including estimated and actual dates of construction and the maximum height of any construction equipment to be used, prior to the start of construction, to allow inclusion on Aviation Charts.	Co102 has been updated to include the Civil Aviation Authority (CAA), to ensure that the CAA are notified of the relevant information set out in the commitment. This change had been made in response to Section 42 comments received from the CAA. In addition the reference to the 'Defence Geographic Organisation' was incorrect and has been corrected to reference the 'Defence Infrastructure Organisation'.
Co108	Scoping	A Vessel Management Plan (VMP) will be developed pre-construction which will determine vessel routing to and from construction areas and ports to minimise, as far as reasonably practicable, encounters with marine mammals.	Co108 has been updated to specify that the commitment can only be applied as reasonably practicable.
Co110	Scoping	A piling Marine Mammal Mitigation Protocol (MMMP) will be developed in accordance with the Outline MMMP and ~~MMMP~~ will be implemented during construction. The piling MMMP will include measures to ensure the risk of instantaneous permanent threshold shift (PTS) to marine mammals is negligible and will be in line with the latest relevant available guidance. ~~and will be developed in accordance with JNCC (2010) guidance.~~ The piling MMMP will include details of soft starts to be used during piling operations with lower hammer energies used at the beginning of the piling sequence before increasing energies to the higher levels.	Co110 has been updated to reference the Outline Marine Mammal Mitigation Protocol (MMMP) which is provided alongside the DCO Application (see document F2.5)
Co111	Scoping	A Construction Project Environmental Management and Monitoring Plan (CPEMMP) will be developed and will include details of: - a marine pollution contingency plan to address the risks, methods and procedures to deal with any spills and collision incidents of the authorised project in relation to all activities carried out below MHWS; - a chemical risk review to include information regarding how and when chemicals are to be used, stored and transported in accordance with recognised best practice guidance; - a marine biosecurity plan detailing how the risk of introduction and spread of invasive non-native species will be minimised; - waste management and disposal arrangements; - a vessel management plan, to determine vessel routing to and from construction sites and ports, to include a code of conduct for vessel operators; and - the appointment and responsibilities of a company fisheries liaison officer ~~A Marine Pollution Contingency Plan (MPCP) will be developed. This MPCP will outline procedures to protect personnel working and to safeguard the marine environment and mitigation measures in the event of an accidental pollution event arising from offshore operations relating to Hornsea Four. The MPCP will also include relevant key emergency contact details~~	Co111 has been updated to include the wider requirements of a Construction Project Environmental Management and Monitoring Plan (CPEMMP) which will include details of a Marine Pollution Contingency Plan.
Co113	Scoping	A Decommissioning Marine Mammal Mitigation Protocol (MMMP) will be implemented during decommissioning. The Decommissioning MMMP will be approved by the Marine Management Organisation (MMO) in consultation with Natural England. The Decommissioning MMMP will include measures to ensure the risk of instantaneous permanent threshold shift (PTS) to marine mammals is negligible and will be in line with the latest relevant available guidance.	Co113 has been amended to state that the Decommissioning MMP will be approved by the MMO in consultation with Natural England based on the Section 42 comments received from Natural England.
Co114	Scoping	Good practice air quality management measures will be applied where ~~it is relevant~~ human receptors reside within 350m of works or ecological receptors are present within 200m, as described in Institute of Air Quality Management (IAQM) Guidance on the Assessment of Dust from Demolition and Construction 2014, version 1.1, or latest relevant available guidance.	Co114 has been updated to provide specific details on when air quality management measures will be applied. This was added in response to comments made by Natural England during the Section 42 consultation.
Co122	PEIR	Prior to the commencement of construction activities ~~and due to the mobility of species~~, pre-construction surveys will be undertaken by the Ecological Clerk of Works (ECoW)~~to ensure the site conditions remain unchanged to that previously recorded. Should site conditions have changed and/or species moved into the working area(s),~~ where necessary, ~~the ECoW will undertake additional surveys~~ in accordance with the the Outline Ecological Management Plan and latest available species specific guidance.	Co122 has been updated to make the commitment more concise and to specify that pre-construction surveys will be undertaken where determined through the Outline Ecological Management Plan (see document F2.3). It notes that the surveys will also be in accordance with the latest available species specific guidance.
Co127	Scoping	An Onshore Decommissioning Plan will be developed prior to decommissioning in a timely manner. The Onshore Decommissioning Plan will include provisions for the removal of all onshore above ground infrastructure and the decommissioning of below ground infrastructure and details relevant to flood risk, pollution prevention and avoidance of ground disturbance. The Onshore Decommissioning Plan will be in line with the latest relevant available guidance.	Co127 has been updated to ensure information is provided in a 'timely manner' and to include extra information by adding flood risk to the list of relevant details. These changes have been made in response to Section 42 comments received from the Environment Agency (EA).
~~**Co133**~~	~~RPSS~~	~~The onshore export cable corridor (ECC) will be routed to avoid residential receptors by at least 50 m.~~	Co133 has been removed as it is a repeat for Co49.

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Commitment Reference	Commitment Stage	Hornsea Four Commitment	Explanation of the change
Co135	RPSS	Temporary construction highway access points along the onshore export cable corridor (ECC) will be located at least 150 m from residential receptors, with the exception of ~~two~~ three receptors: Bridge Farm Holiday Cottages; Arms Farm and Elm Tree Farm, in Brigham, Driffield. .~~, and a receptor off the A1035 Malton Road, Beverley.~~	Co135 has been updated to reflect the latest project design. Co135 now lists the three receptors; including Arms Farm and Elm Tree Farm, which were not provided for at PEIR. Malton road was previously noted as an exception but because an access track was moved, it is now 314m away.
Co138	Scoping	Lower air draught of wind turbines will be a minimum of ~~30~~40 m above Mean Sea Level (MSL) (42.43 m above Lowest Astronomical Tide (LAT)) ~~Mean Sea Level (MSL) (40 m above Mean~~	Co138 has been updated to reflect the latest project position on lower air draught and converted any references to sea level heights and bird flight heights to ensure that the measures are used correctly in collision risk monitoring. These changes have been made in response to Section 42 comments made by Natural England.
Co139	Scoping	Safety zones of up to 500m will be applied during construction, maintenance and decommissioning phases. Where defined by risk assessment ~~appropriate~~, guard vessels will also be used to ensure adherence with Safety Zones or advisory passing distances~~, as defined by risk assessment,~~ to mitigate ~~any~~ impacts which pose a risk to surface navigation during construction, maintenance and decommissioning phases. ~~Such impacts may include partially installed structures or cables, extinguished navigation lights or other unmarked hazards.~~	Co139 has been updated to be more concise and easier to read.
Co140	RPSS	A Marine Written Scheme of Archaeological Investigation (WSI) will be developed in accordance with the Outline Marine WSI. The Marine WSI will include the requirement for Archaeological Exclusion Zones (AEZs) ~~will~~ to be established ~~in the Marine WSI in accordance with the outline Marine WSI (document reference F2.4),~~ to protect any known / identified / unexpected marine archaeological receptors and the implementation of a Protocol for Archaeological Discoveries (PAD) in accordance with 'Protocol for Archaeological Discoveries: Offshore Renewables Projects' (The Crown Estate, 2014).	Co140 has been updated to specify that the Marine Written Scheme of Archaeological Investigation (WSI) will be developed in accordance with the Outline Marine WSI (see document F2.4) and to accommodate changes requested by Historic England prior to application. It also now provides for the implementation of a Protocol for Archaeological Discoveries (PAD).
~~**Co141**~~	~~Scoping~~	~~A Marine Written Scheme of Archaeological Investigation (WSI) will be developed in accordance with the Outline Marine WSI. The Marine WSI will include the implementation of a protocol for Archaeological Discoveries in accordance with 'Protocol for Archaeological Discoveries: Offshore Renewables Projects' (The Crown Estate, 2014).~~	Co141 has been removed and merged with Co140.
Co150	LIE1	A new permanent access for the onshore substation will be taken directly from the A1079, to route construction and operation and maintenance traffic away from Cottingham and Dunswell.	Co150 has been updated to state 'permanent access' and to extend this to the operation and maintenance phases.
Co157	PEIR	Fences, walls, ditches and drainage outfalls will be retained along the onshore export cable corridor and landfall, where possible. Where it is not possible to retain them, any ~~unavoidable~~ damage will be repaired and reinstated as soon as reasonably practical. The Environment Agency must be notified if damage occurs to any EA Main river or related flood infrastructure.	Co157 has been updated to state that the Environment Agency must be notified if damage occurs to any EA Main river or related flood infrastructure. This addition is based on Section 42 comments received from the Environment Agency.
Co158	PEIR	Impacts on the English Coast Path national route will be minimised ~~by avoiding impacts~~ through site design considerations and phasing within working constraints for the landfall construction. In addition, Co79 will be applied to the English Coast Path national route.	Co158 has been slightly amended to be more concise.
Co159	PEIR	Operational noise from the onshore substation will be at a noise level no greater than 5dB above the representative background ($L_{A90,T}$) during the day time and night at the ~~nearest~~ identified noise Sensitive Receptors, as stated within the onshore noise assessment (document reference A3.8).	Co159 has been amended to specify 'identified noise' sensitive receptors, to provide additional clarity. No information has been changed.
~~**Co162**~~	~~PEIR~~	~~Non-intrusive surveys (including Priority Archaeological Geophysical Survey, Geoarchaeological Desk Based Review and Aerial Photographic and Lidar Assessment) will be undertaken to identify and establish areas of buried archaeological remains and surviving historic earthworks. Where possible, the results will be used to inform design and minimise impacts on buried archaeological remains and historic earthworks through route refinement.~~	Co162 has been removed as the surveys have now been undertaken.
Co165	PEIR	Where Public Rights of Way (PRoWs) are required to be closed during the construction of the onshore export cable corridor and landfall connection works, they will not be closed for any longer than three months at any one time, or for six months in total over the whole construction period. Where closures are required for longer period due to unforeseen circumstances encountered during construction, East Riding of Yorkshire Council will be informed in writing.	Co165 has been updated to provide more detail, specifying the onshore and export cable corridor and landfall connection works and stating that if closures are required for longer, it would be based on unforeseen circumstances.
Co168	PEIR	An Ecological Management Plan (EMP) will be developed in accordance with the Outline Ecological Management Plan (OEMP). The OEMP includes, but is not limited to pre-construction (Section 3), construction (Section 4) and ~~post-construction and any long-term mitigation and management (where applicable).~~ post-mitigation measures (Section 5) relating to: ~~The OEMP includes, but is not limited to:~~ habitats, hedgerows, birds, bats, badgers, otters, water voles, reptiles, great crested newts, terrestrial invertebrates, and other protected or notable species where relevant . The EMP ~~which~~ will include details of any long-term mitigation and management measures relevant to onshore ecology and nature conservation The EMP will be developed in consultation with the relevant responsible authorities.	Co168 has been updated to be more concise and to reference the Outline Ecological Management Plan (OMEP) which is provided with the DCO Application (see document F2.3)
Co170	PEIR	Joint bays and link boxes will be located a minimum of 20 m away from Environment Agency (EA) ~~m~~Main rivers.	Co170 has been slighted amended to make it clearer. No information has been changed.
Co172	PEIR	The bed and banks of watercourses will be reinstated to their pre-construction condition following the removal of any temporary structures. There will be no loss of cross-sectional area to Environment Agency (EA) Main rivers. Where a temporary access track crossing across an EA Main River may be required, clear span/ bailey bridges will be used. There will be no loss of cross-sectional area to Environment Agency (EA) Main rivers.	Co172 has been updated to state that there will be no loss of cross-sectional area to Environment Agency (EA) Main rivers. This change was made in response to Section 42 comments received from the Environment Agency.

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Commitment Reference	Commitment Stage	Hornsea Four Commitment	Explanation of the change
Co175	PEIR	~~A pre and post construction condition survey will be undertaken at each of the crossing location on primary and secondary watercourses where infrastructure (e.g. A Bailey bridge) is emplaced upon banks.~~ A pre and post construction condition survey will also be undertaken at each Environment Agency (EA) Main river crossings, including any flood defences to be crossed. The scope and methodology of the survey will be agreed in advance with the EA. On completion of the project, details of the surveys under each Main River and flood defence will be submitted to the EA.	Co175 has been reworded to provide more detail in response to comments made by the Environment Agency during the Section 42 formal consultation.
~~**Co178**~~	~~PEIR~~	~~Hornsea Four will undertake further consultation with Regular Operators as part of the formal consultation process~~	Co178 has been removed as this consultation has now taken place.
~~**Co182**~~	~~PEIR~~	~~Hornsea Four will undertake further consultation with NATS and the Civil Aviation Authority (CAA) as part of the formal consultation process.~~	Co182 has been removed as this consultation has now taken place.
Co183	PEIR	Where reasonably possible the design of all temporary access tracks within the floodplain of EA Main rivers (defined as areas of Flood Zone 2 and 3, as shown on the Environment Agency Flood Map for Planning), areas at risk of surface water flooding (as shown on the Risk of Flooding Surface Water maps), or in areas included on the historic flood map (from any source) will replicate or be as consistent with existing ground levels as possible, to limit any effects on future flood risk.	Co183 has been updated to provide more detail. This change has been made in response to Section 42 comments made by the Environment Agency (EA).
Co184	PEIR	Where the permanent access track to the OnSS may be required to pass over an existing watercourse, the crossing will be appropriately designed to maintain floodplain capacity and/or flow conveyance, where possible. This shall include an allowance for the predicted effects of climate change.	Co184 has been updated in response to Section 42 comments made by the Environment Agency (EA). More detail was added referencing the inclusion on an allowance for the predicted effects of climate change.
Co185	DCO	Where the permanent access track to the OnSS is within areas of flood risk (as shown on the Environment Agency Flood Map for Planning) it will be appropriately designed to maintain existing ground elevations to ensure continued floodplain capacity and/or flow conveyance, where possible.	Co185 has been added in response to Section 42 comments made by the Environment Agency and their suggestion to create a separate commitment.
Co186	DCO	Where works to an EA Main river or ordinary watercourse are necessary, the appropriate permits and consents will be sought from the relevant authority as required. Details of the locations and work undertaken on any EA Main river or associated flood defences, including any reports or records, will be submitted to the Environment Agency.	Co186 has been added in response to Section 42 comments made by the Environment Agency (EA) and also based on further engagement and discussions with EA
Co187	DCO	The installation of the offshore export cables at landfall will be undertaken by Horizontal Directional Drilling or other trenchless methods.	Co187 has been added in response to Section 42 comments received from a number of consultees including the Environment Agency (EA) and Natural England.
Co188	DCO	No cable protection will be employed within 350 m seaward of MLWS	Co188 has been added in response Section 42 comments received from the MMO and Natural England which raised significant concerns with the potential for impacts on Smithic Bank and as such requested the adoption of commitments consistent with conditions employed on the Dogger Bank Creyke Beck project.
Co189	DCO	The Dogger Bank cable crossing will be positioned east of Smithic Bank (as identified at https://data.gov.uk/dataset/d19f631c-27c0-4c74-804f-d76a4632b702/annex-i-sandbanks-in-the-uk-v2-public) and seaward of 20 m depth contour.	Co188 has been added in response Section 42 comments received from the MMO and Natural England which raised significant concerns with the potential for impacts on Smithic Bank and as such requested the adoption of commitments consistent with conditions employed on the Dogger Bank Creyke Beck project.
Co190	DCO	No impact piling within the HVAC search area (DCO Works No. 3) will be undertaken between 1st September and 16th October unless otherwise agreed with the relevant stakeholders.	Co190 has been added to reduce impacts to herring spawning sites at key sensitive periods around the HVAC search area.
Co191	DCO	The drainage design at the onshore substation will include Sustainable Drainage System (SuDS) measures including filter drains, swales, attenuation and flow control structures for the operational drainage of the Onshore Substation. Surface water will be discharged from the site at a controlled rate which will be determined during the detailed design stage. Appropriate consideration will be given to maintaining the existing floodplain capacity and / or flow conveyance during extreme rainfall events. These principles are provided in the Outline Onshore Infrastructure Drainage Strategy with which the Onshore Infrastructure Drainage Strategy will be developed.	Co191 was added as a drainage system is needed at the OnSS and the project committed to adhering to the SuDS. The commitment was developed through consultation with the Environment Agency at the Water and Flood Risk Evidence Plan technical meeting.
Co192	DCO	The beach at landfall will not be closed for public access during construction, unless an unforeseen and unplanned event occurs during which emergency access is required. Details will be agreed through the approval of a Code of Construction Practice (CoCP) with ERYC prior to construction of the connection works.	Co192 has been added based on Section 47 feedback during formal consultation, in which a number of comments were made by the local community regarding the recreational use of the beach. Alongside this, an internal project review and the assessment of beach usage took place. This commitment has been made possible due to the Hornsea Fours project's other new commitment made to install the cables at landfall construct using trenchless technology (HDD) (Co187).

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Commitment Reference	Commitment Stage	Hornsea Four Commitment	Explanation of the change
Co193	DCO	Operational site lighting at the onshore substation will be designed in accordance with latest relevant available guidance and legislation and the details of the location, height, design and luminance of lighting to be used will be provided as part of detailed design for the onshore substation. The design of operation site lighting will accord with the details provided in the Outline Design Plan (Co199) and Outline Ecological Management Plan (Co168).	Co193 has been added to ensure the adoption of an appropriate lighting design during the operational phase at the onshore substation.
Co194	DCO	Where agreed with landowners, removed hedgerows and trees will be replaced with hedgerows of a more diverse and locally native species composition than that which was removed.	Co194 is a new commitment adopted to reflect Hornsea Fours position of incorporating enhancement initiatives within the project proposals. Full details of environmental enhancement that Hornsea Four seeks to deliver are included within the Outline Enhancement Strategy (see document F2.14)
Co195	DCO	Detailed design will be developed for the Onshore Substation in accordance with the Outline Design Plan which will include details regarding design and access. Examples of such detailed design information includes (but are not limited to): building heights and form; site layout; external appearance and colours; vehicular and pedestrian access.	Co195 has been added to include the provision of an Outline Design Plan at DCO Application (see document F2.13) which will include details of key design mitigations at the onshore substation. Final detailed design of the onshore substation will be developed in accordance with the Outline Design Plan.
Co196	DCO	The design of the attenuation feature will incorporate an appropriate landscaping scheme to create an area of biodiverse habitat, as outlined in the Outline Enhancement Strategy	Co196 is a new commitment adopted to reflect Hornsea Fours position of incorporating enhancement initiatives within the project proposals. Full details of environmental enhancement that Hornsea Four seeks to deliver are included within the Outline Enhancement Strategy (see document F2.14).
Co197	DCO	Where reasonably practicable, topsoil & subsoil stockpiling within the floodplain (defined as areas of Flood Zone 2 or 3 as identified on the Environment Agency Flood Map for Planning) of any EA Main River will be avoided at the Onshore Substation.	Co197 has been added in response to Section 42 comments made by the Environment Agency.
Co198	DCO	An Enhancement Strategy will be developed in accordance with the Outline Enhancement Strategy. The Outline Enhancement Strategy will include proposed measures to provide enhancement and will not inform the EIA process. Proposed enhancement measures include but are not limited to; provision of historic signage at landfall; improvements to PRoWs; wider biodiversity, hydrological and social enhancement measures across the onshore Order Limits	Co198 is a new commitment adopted to reflect Hornsea Fours position of incorporating enhancement initiatives within the project proposals. Full details of environmental enhancement that Hornsea Four seeks to deliver are included within the Outline Enhancement Plan (see document F2.14).
Co199	DCO	A Net Gain Strategy will be developed in accordance with the Outline Net Gain Strategy. The ~~Outline~~ Net Gain Strategy will include proposed measures to provide biodiversity net gain ~~at specified onshore sites within the Hornsea Four Order Limits~~ at the Hornsea Four onshore substation site.	Co199 is a new commitment adopted to reflect Hornsea Fours position of incorporating biodiversity net gain onshore within the project proposals. Full details of the biodiversity net gain Hornsea Four is seeking to deliver are included within the Outline Net Gain Plan (see document F2.16). 19.08.2021 the commitment has been updated (see red text) following a review.
Co200	DCO	Lighting at the HVAC Booster Station(s) will accord with the design set out in the HVAC Booster Station Lighting Plan to ensure that the night-time effects of the HVAC Booster Station lighting on the special characteristics of the Flamborough Head Heritage Coast will be not significant.	Co200 is a new commitment adopted to reflect Hornsea Fours updated lighting mitigation at the HVAC Booster Station. Full details of the mitigation included are within the HVA Booster Station Lighting Plan (see document F2.17).
Co201	DCO	Gravity Base Structure (GBS) foundations (WTG type) will be utilised at a maximum of 110 of the 180 WTG foundation locations. The location of GBS foundations, if used for WTG, will be confirmed through a construction method statement which will include details of foundation installation methodology.	Co201 is a new commitment adopted to reflect the projects commitment to construct a maximum of 110 foundations using Gravity Base Structure (GBS) technology.
Co202	DCO	An ~~Supply Chain and~~ Employment and Skills Plan will be developed in accordance with the Outline Employment and Skills Plan.	Co202 is a new commitment adopt to reflect the projects commitment to produce an Employment and Skills Plan (see document F2.18).
Co48	DCO	~~Potential Annex 1 habitats~~ Habitats of principal importance (Section 41 of the 2006 Natural Environment and Rural Communities (NERC) Act) will be avoided where possible, informed through the undertaking of ~~geophysical~~ survey works pre-construction. ~~This excludes features of Smithic Sands which at the time of application is not designated.~~	Co 48 has been amended to reflect the terms defined under the Habitats Regulations.
Co84	DCO	Presence of ~~sensitive habitats~~ habitats of principal importance (Section 41 of the 2006 Natural Environment and Rural Communities (NERC) Act) will be identified through a review of the latest available benthic datasets and pre-construction surveys. ~~Wind turbine~~ foundations and ~~the offshore export~~ cables will be micro-sited around ~~potential Annex I habitat~~ habitats of principal importance wherever reasonably practicable (subject to agreement with the MMO) to an extent not resulting in a hazard for marine traffic and Search & Rescue capability.	Co 84 has been amended to reflect the terms defined under the Habitats Regulations. Additionally the wording has been updated to 'foundations and cables will be micro-sited around…' to ensure it is encompassing platform foundations and array cables too.
Co180	DCO	The following guidance will be followed where appropriate; 'Recommendations For Fisheries Liaison: Best Practice' guidance for offshore renewable developers (FLOWW, 20140~~6~~ and 20154~~;~~ BERR, 2008).	Co180 updates to correct the FLOWW reference documents

Hornsea 4

6. PEIR Change Log

Commitment Reference	Commitment Stage	Hornsea Four Commitment	Explanation of the change
Co99	Scoping	Hornsea Four will ensure compliance with MGN~~543~~ 654 where appropriate.	Co99 has been amended to reflected the updated MGN.
Co89	Scoping	Advance warning and accurate location details of construction, maintenance and decommissioning operations, associated Safety Zones and advisory passing distances will be given via Notifications ~~ces~~ to Mariners and Kingfisher Bulletins.	Co89 has been amended for clarity.

7. Public Commitments

Public Commitment Reference	Public Commitment/Comment	Hornsea Four Action	Relevant Commitment Reference	Hornsea Four Response
PCo1	Be aware and avoid iron age fortification near Gembling and British roman settlements around Beck Hill	Amended Commitment	Co2	Co2 has been amended to include avoidance of heritage assets.
PCo2	Full consultation with parish and county council - Foston on the Wolds PC and ERYC	Noted	n/a	Whilst this request is not a commitment as such, the Hornsea Four have already begun engagement with parish and county councils and will continue to engage throught the development of Hornsea Four. This is in the form of face to face meetings as well as inviting ERYC to take part in our Evidence Plan process.
PCo3	Agree levels of noise, vibration and lighting levels with ERYC - especially with HDD works, if undertaken at night and close to housing	Refer to existing commitment	Co124; Co123; Co133; Co134; Co135	Under Co124, a Code of Construction Practice will be prepared with measures referring to noise, vibration and lighting. In addition, "Core working hours for the construction of the onshore components of Hornsea Four will be as follows: • Monday to Friday: 07:00 - 18:00 hours; • Saturday: 07:00 - 13:00 hours; • Up to one hour before and after core working hours for mobilisation ("mobilisation period"), i.e. 06:00 to 19:00 weekdays and 06:00 to 14:00 Saturdays; and • Maintenance period 13:00 to 17:00 Saturdays. Activities carried out during mobilisation and maintenance will not generate significant noise levels (such as piling, or other such noisy activities). Full details of working hours are provided within the Code of Construction Practice. In addition the following commitments: Co123, Co133, Co134, Co135 refer to further measures in relation to noise and lighting.
PCo4	There should be no/minimal increase in traffic movements within the village - There should be commitments for exact figures	New commitment	Co144	Co144: A construction Traffic Mangement Plan (TMP) will be developed in accordance with the outline construction TMP. The construction TMP will include; 1. details of times and vehicle movement numbers and measures to ensure minimal to no increase in traffic movements through Barmston village; and 2. targeted road safety measures for example, providing new and appropriate road signage for temporary road alterations.
PCo5	Commit to specific substation locations	Noted	n/a	The DCO application will seek approval for only one Onshore Substation (OnSS) location in proximity to the NGET substation at Creyke Beck. The location of the OnSS is the onshore Works Plans (D1.4.2)
PCo6	Minimum construction and completed promptly	Noted	n/a	The maxium duration of the onshore works is expected to last 36 months for the Onshore Substation, 36 months for the onshore Export Cable Corridor Logistics Compounds and 30 months for the onshore export cable.
PCo7	Consider moving scoping boundary further west to exclude Leconfield.	Noted	n/a	The 80 m cable corridor has been routed to avoid all residential properties, priority habitats and ancient woodlands, and is currently located to the east of Cherry Burton and to the west of Leconfield.
PCo8	Minimise noise, vibration and traffic disruption to Leconfield and surrounding villages - e.g. Working hours commence after 8am and finish 5pm, no Sunday working and reduced weekend working	Refer to existing commitment	Co124; Co123; Co133; Co134; Co135	Under Co124, a Code of Construction Practice will be prepared with measures referring to noise, vibration and lighting. In addition, "Core working hours for the construction of the onshore components of Hornsea Four will be as follows: • Monday to Friday: 07:00 - 18:00 hours; • Saturday: 07:00 - 13:00 hours; • Up to one hour before and after core working hours for mobilisation ("mobilisation period"), i.e. 06:00 to 19:00 weekdays and 06:00 to 14:00 Saturdays; and • Maintenance period 13:00 to 17:00 Saturdays. Activities carried out during mobilisation and maintenance will not generate significant noise levels (such as piling, or other such noisy activities). Full details of working hours are provided within the Code of Construction Practice. In addition the following commitments: Co123, Co133, Co134, Co135 refer to further measures in relation to noise and lighting.
PCo9	Siting of the onshore substation as close to Creyke Beck as possible	Noted		The DCO application will seek approval for only one Onshore Substation (OnSS) location in proximity to the NGET substation at Creyke Beck. The location of the OnSS is the onshore Works Plans (D1.4.2)
PCo10	Minimise visual intrusion, especially the view of Beverley Minster from the A1079	New commitment	Co145	Refer to Co. 145: Views of Beverley Minster from the A1079 will not be obstructed by the siting of the onshore substation,
PCo11	Minimise disruption to PROWs	New commitment	Co79; Co165	Co. 79: Severance to PRoW will be temporary where possible, and appropriate temporary diversions and signage will be provided during construction. PRoW will be reinstated as soon as reasonably practicle. Where permanent severance to PRoW is necessary, permanent diversions of such routes will be applied. New commitment - Co. 165: Where PRoWs are required to be closed during the construction of the onshore connection works, they will not be closed for any longer than three months at any one time, or for five months in total over the whole construction period. Where closures are required for longer period, East Riding of Yorkshire Council will be informed in writing.

7. Public Commitments

Public Commitment Reference	Public Commitment/Comment	Hornsea Four Action	Relevant Commitment Reference	Hornsea Four Response
PCo12	Full restoration of landscape	Refer to existing commitment	Co10; Co28; Co30; Co162	Hornsea Four have commited to developing a Landscape Plan which will provide detail on planting measures: Co10: A Landscape Management Plan will be developed in accordance with the outline Landscape Management Plan. The plan will include details of mitigation planting at the onshore substation site, including number, location and species. Details of management and maintenance of planting will be provided. Where practical, landscape mitigation planting will be established as early as possible in the construction phase. Hornsea Four have made a number of other Commitments which are relevant to restoration of the lnadscape: Co28; Co30; Co162
PCo13	Non-interference with all drainage systems - consider offering assistance to internal drainage board i.e. flood assistance	New commitment		We can not commit to non-interference with all drainage systems. However, we can propose to commit to offering assistance to the internal drainage board. Co. 147: Appropriate liaison will take place with the Internal Drainage Board during construction.
PCo14	Take account of cliff erosion at landfall - 2cm per year on average, with Fraisthorpe-Bridlington beach a recreation hotspot	Noted	n/a	Erosion at the landfall is considered within the Flood Risk Assessment (A6.2.2) and the Marine Processes Technical Report (A5.1.1)
PCo15	Commitment to making to taking the project forward and making it work	Noted	n/a	Orsted are committed to delivering this project and plan to submit our DCO application in 2019.
PCo16	Do not use Foston on the Wolds for traffic/vehicles	Noted		Please refer to Co171 - HGVs will avoid travel through Foston on the Wolds
PCo17	Ensure that the onshore substation is screened by trees to limit the visual impact.	New commitment	Co30	The following new commitment has been added: Co. 30: A Landscape Mangement Plan will be developed in accordance with the outline Landscape Management Plan. The plan will include details of mitigation planting at the onshore substaton site, including number, location and species. Details of management and maintenance of planting will be provided. Where practice, landscape mitigation planting will be established as early as possible in the construction phase.
PCo18	Ensure that the English Coastal Path is adequately provided for, with the planned activity and that all existing footpaths/access roads are maintained - E.G. Minster Way	New commitment	Co158	The following new commitment has been added: Co. 158: Impacts on the English Coast Path national route will be minimised by avoiding impacts through site design and phasing within working constraints for the landfall construction. In addition, Co79 will be applied to the English Coast Path national route.
PCo19	Ensure no long term impact and disruption to productive land for the next few years and long term drainage of fields if needed.	Noted	Co19	Noted. Volume 3, Chapter 4 (Land Use and Agriculture) provides an assessment of effects from the construction of Hornsea Four. Further, the following new commitment has been added: Co. 19: An Onshore Infrastructure Drainage Strategy will be developed for the permanent operational development along the onshore cable corridor and the onshore substation, and will include measures to ensure that existing land drainage is reinstated and maintained, and measures to limit discharge rates and attenuate flows such that pre-development run-off rates to surrounding land are retained. The Onshore Infrastructure Drainage Strategy will be developed in consultation with the Lead Local Flood Authority, Environment Agency, Lead Local Flood Authority and relevant Internal Drainage Board as appropriate.
PCo20	No construction traffic (for onshore substation) via Cottingham and Dunswell	New commitment	Co150	The following new commitment has been added: Co. 150: A new access will be taken directly from the A1079, to route construction traffic away from Cottingham and Dunswell,
PCo21	All traffic via dedicated access from A1079. On completion this access to be used for emergence only.	Noted	Co150	Please refer to Co150. Temporary construction access will come from the northbound carriageway of the A1079. Permanent operation and maintenance access are currently expected to be taken from the south using Park Lane Road. The road will be removed upon completion of the construction phase.
PCo22	No buildings to obstruct view from St Mary's Church Cottingham and Beverley Minister	New commitment	Co151	The following new commitment has been added: Co. 151 - No above ground infrastructure associated with Hownsea Four will obstruct the view from St Mary's Church Cottingham to Beverley Minister through considered design of the OnSS and site selection
PCo23	Drainage concerns about particular fields, with land only re-drained 5 years ago. Problems previously with water pipe and electricity cable with drainage after work has been completed.	New commitment	Co19	The following new commitment has been added: Co. 19: An Onshore Infrastructure Drainage Strategy will be developed for the permanent operational development along the onshore cable corridor and the onshore substation, and will include measures to ensure that existing land drainage is reinstated and maintained, and measures to limit discharge rates and attenuate flows such that pre-development run-off rates to surrounding land are retained. The Onshore Infrastructure Drainage Strategy will be developed in consultation with the Lead Local Flood Authority, Environment Agency, Lead Local Flood Authority and relevant Internal Drainage Board as appropriate.
PCo24	Do not deviate from plans for underground cables with no booster stations	Noted	n/a	The work put into planning the underground cables takes many years, therefore it is highly unlikely that deviation will be necessary. In the event that any changes to plans will be agreed with landowners.
PCo25	Viable plan or commitment to remove all offshore sea bed infrastructure at end of life of this project	New commitment	Co181	A Commitment to produce an offshore Decomissioning Plan has been added to the Commitment Register, see Co181.
PCo26	Be open and transparent at all times, keeping the public informed	Noted	n/a	Hornsea Four have already begun engagement with parish and county councils as well as key stakeholders and members of the public. This is in the form of face to face meetings, public information events as well as specialist working groups to discuss key topics.
PCo27	Commit to plans w.r.t. flood risk. Land to rear of property as flooded in the past and water table is exceptionally high	New commitment	Co14	The following new commitment has been added: Co. 14: An Onshore Infrastructure Drainage Strategy will be developed for the temporary construction works, to ensure that existing land drainage is maintained during construction. Specific drainage measures for each area of land will be specified based on information identified and recorded by a Land Drainage Consultant prior to construction. The Onshore Infrastructure Drainage Strategy will be developed in consultation with landowners, the Lead Local Flood Authority, Environment Agency and relevant Internal Drainage Board.

7. Public Commitments

Public Commitment Reference	Public Commitment/Comment	Hornsea Four Action	Relevant Commitment Reference	Hornsea Four Response
PCo28	Be aware of local chalk rivers and avoid, which are under threat from urban development (see E. Yorkshire Rivers Trust Website)	Amend existing commitment	Co1	Co. 1 - All main rivers, IDB maintained drains, main roads and railways will be crossed by HDD or other trenchless technology as set out in the onshore crossing schedule. Where HDD technologies are not practical, the crossing of ordinary watercourses may be undertaken by open cut methods. In such cases, temporary measures will be employed to maintain flow of water along the watercourse.
PCo29	Honour commitments made by land agent with respect to farms within Scoping Boundary	Noted	n/a	Engagement with land owners and land agents will be ongoing as the Scoping Boundary is further refined.
PCo30	No overhead pylons	Amended Commitment	Co25	Co25: The onshore export cable corridor will be completely buried underground for its entire length. No overhead pylons will be installed as part of the consented works for Hornsea Four.
PCo31	No digging up or damage to roads in the village of Foston on the Wolds	Amend existing commitment	Co1	Co. 1 - All main rivers, IDB maintained drains, main roads and railways will be crossed by HDD or other trenchless technology as set out in the onshore crossing schedule. Where HDD technologies are not practical, the crossing of ordinary watercourses may be undertaken by open cut methods. In such cases, temporary measures will be employed to maintain flow of water along the watercourse.
PCo32	We want the onshore scoping boundary to stay the same i.e. not any closer to our property	Noted	n/a	The boundaries will not extend further than the PEIR boundnary which has been develoepd.
PCo33	Consider EMFs and the efficacy of cable shielding, reducing the distance the EMF travels underground	Refer to existing commitment	Co83	Co83: Where possible, cable burial will be the preferred option for cable protection.
PCo34	Consider cliff erosion at landfall and the impact of climate change	Noted	n/a	Impacts are considered in Onshore infrastructure Flood Risk Assessment (Volume 6, Annex 6.2), and Marine Geology, Oceanography and Physical Processes (Volume 2, Chapter 1). Details of installation methodology at the landfall are presented within the Project Description (Volume 1, Chapter 4).
PCo35	Take as small acreage as possible for the buildings required	Noted	n/a	Noted, Orsted will aim to take the minimm land required which ensures the feasibility of the project.
PCo36	Commit to landscaping and screening to lessen the visual impact	New commitment	Co10;Co30	Co10 states: "Post-construction the working area will be reinstated to pre-existing condition as far as reasonably practical in line with DEFRA 2009 Construction Code of Practice for the Sustainable Use of Soils on Construction Sites PB13298." The following new commitment has been added: Co. 30: A Landscape Mangement Plan will be developed in accordance with the outline Landscape Management Plan. The plan will include details of mitigation planting at the onshore substaton site, including number, location and species. Details of management and maintenance of planting will be provided. Where practice, landscape mitigation planting will be established as early as possible in the construction phase.
PCo37	Field drainage - I would like long term commitments to possible long term drainage problems - it is not possible to repair field drains properly in one year due to land settlement	New commitment	Co14	Co. 14: A The following new commitment has been added: Co. 14: A Construction Drainage Scheme will be developed for the temporary construction works, to ensure that existing land drainage is maintained during construction. Specific drainage measures for each area of land will be specified based on information identified and recorded by a Land Drainage Consultant prior to construction. The Construction Drainage Scheme will be developed in consultation with landowners, the Lead Local Flood Authority, Environment Agency and relevant Internal Drainage Board. Co19. An Onshore Infrastructure Drainage Strategy will be developed for the permanent operational development along the onshore cable corridor and the onshore substation, and will include measures to ensure that existing land drainage is reinstated and maintained, and measures to limit discharge rates and attenuate flows such that pre-development run-off rates to surrounding land are retained. The Onshore Infrastructure Drainage Strategy will be developed in consultation with the Environment Agency, Lead Local Flood Authority and relevant Internal Drainage Board as appropriate.

7. Public Commitments

Public Commitment Reference	Public Commitment/Comment	Hornsea Four Action	Relevant Commitment Reference	Hornsea Four Response
PCo38	Consider access carefully, with single access to Brigham through the village lane and over a small bridge.	Noted	n/a	A traffic assessment has been undertaken and is presented in Traffic and Transport chapter (Volume 3, Chapter 7). Appropriate traffic management measrues will be detailed and agreed through the Outline Construction Traffic and Travel Plan (F2.2).
PCo39	Landfall area just skims farm land to the north of our house. Please commit to the cables avoiding this land, as it involves crossing ditches, two strips of woodland and wildlife area.	Noted	n/a	A refined PEIR boundary has been developed. This will not be extended beyond the planned boundary.
PCo40	To consider local wildlife and habitats, especially marine life	Noted	See Commitment Register	Hornsea Four have set out to adopt Commitments to reduce impacts on local wildlife within the onshore and offshore environmnets wherever possible. A number of commitments are therefore relevant; these include but are not limited to Co2; Co26; Co27; Co30; Co33; Co44; Co45; Co48; Co78; Co84; Co86; Co87; Co88; Co110; Co111; Co113; Co119; Co120; Co168
PCo41	Minimum impact on Barmston Village	New commitment	Co144	The following new commitment has been added: Co144: A Construction Traffic Management Plan (CTMP) will be developed in accordance with the outline CTMP to be submitted with the DCO application. The CTMP will set standards and procedures for: 1. Managing the numbers and routeing of HGVs during the construction phase; 2. Managing the movement of employee traffic during the construction phase; 3. Details of localised road improvements necessary to facilitate safe use of the existing road network; and 4. Details of measures to manage the safe passage of HGV traffic via the local highway network
PCo42	Avoid works around Barmston drain to avoid village flooding	New commitment	Co143	The following new commitment has been added: Co. 143: The landfall site that will avoid the Barmston Main Drain.
PCo43	Take consideration into protected wildlife on our land; including Bats, Great Crested Newts, Badgers, Egrets, Barn Owls and other wildlife.	Refer to existing commitment	n/a	Hornsea Four have set out to adopt Commitments to reduce impacts on local wildlife within the onshore and offshore environmnets wherever possible. A number of commitments are therefore relevant; these include but are not limited to; Co33; Co87; Co119; Co120; Co168;
PCo44	Under the 'grey' area (temporary works) you need to protect hedgerows and mature trees surrounding properties and confirm your intentions i.e. open cut trench method - confirm that you will moved the trench into open land as removal/disturbance will have an unnecessary irreversible impact	Amended Commitment	Co26; Co78	Co. 26: Hedgerows and vegetation will be retained where possible. Where it is not possible to retain them, hedgerows will be removed prior to topsoil removal. The width of hedge and vegetation removed will be limited where practical. Removed hedges, trees will be replaced with locally appropriate native species. Co. 78: Trees identified to be retained as per the Onshore Crossing Schedule will be fenced off and worked around. Where works close to trees that will remain in situ are required, techniques will be used to safeguard the root protection zone.
PCo45	There should be no works for the trench near our land (passes Foston on the Wolds and turns to the bottom of Gembling Village). This area has mature trees and hedgerows, including English Oaks, with preservation orders being sought. You can move the trench to the south of Gembling meaning work in open field.	Refer to existing commitment	Co2; Co27	Please refer to Co2 and Co27.
PCo46	Avoidance of Brigham Quarry, which has remaining reserves of approximately 750,000 tonnes of gravel/limestone/chalk. These will be vital supplies in the future of over the next 5 years. The quarry is also under planning permission as a caravan site.- the proposed cable route area bisects the caravan park area.	Noted	n/a	The Onshore ECC avoids Brigham Quarry.
PCo47	Make clear commitments to visibility of the offshore area from the Yorkshire coast - including visibility of blade tips	Noted	n/a	Please refer to the Seascape, Landscape Visual Resources Assessment (Volume 2, Chapter 11). Where an assessment of project visibility of the offshore coast is provided.
PCo46	Avoidance of Brigham Quarry, which has remaining reserves of approximately 750,000 tonnes of gravel/limestone/chalk. These will be vital supplies in the future of over the next 5 years. The quarry is also under planning permission as a caravan site.- the proposed cable route area bisects the caravan park area.	Noted	n/a	The Onshore ECC avoids Brigham Quarry.
PCo47	Make clear commitments to visibility of the offshore area from the Yorkshire coast - including visibility of blade tips	Noted	n/a	Please refer to the Seascape, Landscape Visual Resources Assessment (Volume 2, Chapter 11). Where an assessment of project visibility of the offshore coast is provided.

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8. Examination Change Log

Commitment Reference	Commitment Stage	Hornsea Four Commitment	Explanation of the change
Co62	Secondary	Temporary access points off the highway will be installed to facilitate vehicular access from the road, and into the onshore cable corridor during construction. The access points will be constructed in line with the local authorities' requirements, relevant appropriate standards and in accordance with the principles established in the Outline Construction and Traffic ~~and Travel~~ Management Plan.	Name corrected to ensure consistency between documents
Co85	Primary	~~No more than a maximum of two foundations are to be installed simultaneously.~~ There will only be a maximum installation of 2 piled foundations within a 24 hour period. It is possible for installation of the two piled foundations to occur concurrently i.e. within a 24 hour period at up to two locations within the HVAC search area or up to two locations within the array. The two piled foundation locations may also be piled simultaneously.	Commitment wording updated to align with DCO wording regarding simultaneous piles
Co93	Tertiary	Aids to navigation (marking and lighting) will be deployed in accordance with the latest relevant available standard industry guidance and as advised by Trinity House, MCA and Civil Aviation Authority (CAA) and MoD as appropriate. This will include a buoyed construction area around the array area and the HVAC booster station in consultation with Trinity House.	Condition 10 of Schedule 11 added to 'How the commitment is secured' column to reflect the update on how the commitment is secured.
Co98	Tertiary	Monitoring and annual reporting of vessel traffic for the duration of the construction period and three consecutive years following the completion of construction of the authorised project, unless otherwise agreed in writing by the MMO.	Updated to reflect DCO in response to MCAs/Trinity Houses/Chamber of Shipping's request for post-construction traffic monitoring in the DCO.
Co99	Tertiary	Hornsea Four will ensure compliance with MGN654 where appropriate. This includes completion of an MGN 654 Search and Rescue Checklist in consultation with the MCA. Should any permanently manned platforms be included within the final design, emergency response must be discussed with the MCA as soon as practicable.	Updated to clarify based on request from the Maritime and Coastguard Agency.
Co160	Secondary	~~An Onshore Archaeological~~ Written Scheme of Investigation (WSI) for Onshore Archaeology will be developed in line with an Outline ~~Onshore Archaeological~~ Written Scheme of Investigation (WSI) for Onshore Archaeology. The onshore WSI will detail the survey and archaeological mitigation requirements in advance of and during construction.	Name corrected to ensure consistency between documents
Co180	Tertiary	The following or latest relevant available guidance will be followed where appropriate; 'FLOWW Best Practice Guidance for the Offshore Renewables Developments; Recommondations for Fisheries Liaison (FLOWW 2014) and FLOWW Best Practice Guidance for Offshore Renewables Developments: Recommendations for Fisheries Disruption Settlements and Community Funds' (FLOWW 2015). ~~Recommendations For Fisheries Liaison: Best Practice' guidance for offshore renewable developers (FLOWW, 2014 and 2015; BERR, 2008).~~	To reflect the latest guidance.
Co201	Primary	Gravity Base Structure (GBS) foundations (WTG type) will be utilised at a maximum of 80 ~~110~~ of the 180 WTG foundation locations. The location of GBS foundations, if used for WTG, will be confirmed through a construction method statement which will include details of foundation installation methodology.	The Maximum Design Scenario has been revised for the GBS foundations.