Outer Dowsing Offshore Wind

The Applicant's Comments on Deadline 1 Submissions

Date: November 2024

Deadline 2

Document Reference: 19.4 Rev: 1.0

Company:		Outer Dowsing Offshore Wind		Asset:		Whole Asset	
Project:		Whole Wind Farm		Sub Project/Package:		Whole Asset	
Document Title or Description:		19.4 The Applicant's Comments on Deadline 1 Submissions					
Internal Document Number:		PP1-ODOW-DEV-CS-REP-0243		3 rd Party Doc No (If applicable):		N/A	
Rev No.	Date	Status / Reason for Issue	Author	Checked by	Revie	wed by	Approved by
1.0	November 2024	Deadline 2	GoBe SLR Outer Dowsing	Outer Dowsing	Sheph Wedd	ierd & erburn	Outer Dowsing

Table of Contents

Acr	onyms & Definitions	3
1	Introduction & Document Purpose	7
2	Applicant's Responses to Natural England's Deadline 1 Submissions	8
3	Applicant's Responses to the MMO's Deadline 1 Submissions	.41
4	References	.49
5	Appendix A: Blockage Modelling Results Figure Updates	.50

Table of Tables

Table 1 Natural England's Covering Letter	8
Table 2 Appendix B1 Natural England's Advice Blockage Modelling Results	10
Table 3 Appendix C1 Natural England's Advice on Benthic Ecology	15
Table 4 Appendix E1 Natural England's Advice on Marine Mammals	18
Table 5 Appendix F1 Natural England's Advice on Offshore and Intertidal Ornithology	23
Table 6 Appendix H1 Natural England's Advice on Onshore Ecology	
Table 7 Appendix H2 Natural England's Advice regarding Soils	33
Table 8 Appendix I1 Natural England's Advice on Onshore Ornithology	
Table 9 MMO's Deadline 1 Submission	41

Acronyms & Definitions

Abbreviations / Acronyms

Abbreviation / Acronym	Description
ADDs	Acoustic Deterrent Devices
AEol	Adverse Effect on Integrity
ANS	Artificial Nesting Structure
AON	Apparently Occupied Nests
APFP	Applications: Prescribed Forms and Procedure
CRM	Collision Risk Modelling
DAS	digital aerial surveys
Defra	Department for Environment, Food and Rural Affairs (Defra, not DEFRA)
EC	European Commission
ECC	Export Cable Corridor (offshore ECC or indicative onshore ECC)
EIA	Environmental Impact Assessment
EIA	Environmental Impact Assessment
ES	Environmental Statement
ES	Environmental Statement
ExA	Examining Authority
ExA	Examining Authority
FFC	Flamborough and Filey Coast
FLCP	Fisheries Liaison Cooperation Plan
GIS	Geographic Information System
HPAI	Highly Pathogenic Avian Influenza
HRA	Habitats Regulations Assessment
HRA	Habitats Regulations Assessment
IFCA	Inshore Fisheries and Conservation Authorities
iPCoD	Interim Population Consequences of Disturbance
JNCC	Joint Nature Conservation Committee
КЈ	Kilojoule
LBBG	Lesser Black-Backed Gull
LSE	Likely Significant Effect
MDS	Maximum Design Scenario
MMMP	Marine Mammal Mitigation Protocol
MMO	Marine Management Organisation
MMObs	Marine Mammal Observers
NAFs	Nocturnal Activity Factors
NAS	Noise Abatement Systems
NFFO	National Federation of Fishermen's Organisations
0&M	Operation and Maintenance
ORBA	Offshore Restricted Build Area
ORCP	Offshore Reactive Compensation Platform
OTE	Outer Thames Estuary

Abbreviation / Acronym	Description
OWF	Offshore Wind Farm
PAM	Passive Acoustic Monitoring
PEIR	Preliminary Environmental Information Report
PTS	Permanent Threshold Shift
PVA	Population viability analysis
RIAA	Report to Inform Appropriate Assessment
RIAA	Report to Inform Appropriate Assessment
RTD	Red Throated Diver
SAC	Special Area of Conservation
SMRU	Sea Mammal Research Unit
SNCB	Statutory Nature Conservation Bodies
SPA	Special Protection Area
UK	United Kingdom
UWN	Under Water Noise
UXO	Unexploded ordnance
WCS	Worst Case Scenario
WNNC	Wash and Norfolk North Coast
WTG	Wind Turbine Generator

Terminology

Term	Definition	
Array area	The area offshore within which the generating station (including wind turbine generators (WTG) and inter array cables), offshore accommodation platforms, offshore transformer substations and associated cabling will be positioned.	
Baseline	The status of the environment at the time of assessment without the development in place.	
Cumulative effects	The combined effect of the Project acting additively with the effects of other developments, on the same single receptor/resource.	
Cumulative Impact	Impacts that result from changes caused by other present or reasonably foreseeable actions together with the Project.	
Deemed Marine Licence	A marine licence set out in a Schedule to the Development Consent	
(dML)	Order and deemed to have been granted under Part 4 (marine	
	licensing) of the Marine and Coastal Access Act 2009.	
Effect	Term used to express the consequence of an impact. The significance	
	of an effect is determined by correlating the magnitude of the impact	
	with the sensitivity of the receptor, in accordance with defined	
	significance criteria.	
Environmental	The suite of documents that detail the processes and results of the EIA.	
Statement (ES)		
Habitats Regulations	A process which helps determine likely significant effects and (where	
Assessment (HRA)	appropriate) assesses adverse impacts on the integrity of European	
	conservation sites and Ramsar sites. The process consists of up to four	

Term	Definition	
	stages of assessment: screening, appropriate assessment, assessment	
	of alternative solutions and assessment of imperative reasons of over-	
	riding public interest (IROPI) and compensatory measures.	
Impact	An impact to the receiving environment is defined as any change to its	
	baseline condition, either adverse or beneficial.	
Intertidal	The area between Mean High Water Springs (MHWS) and Mean Low	
	Water Springs (MLWS)	
Maximum Design	The project design parameters, or a combination of project design	
Scenario	parameters that are likely to result in the greatest potential for change	
	in relation to each impact assessed	
Mitigation	Mitigation measures are commitments made by the Project to reduce	
	and/or eliminate the potential for significant effects to arise as a result	
	of the Project. Mitigation measures can be embedded (part of the	
	project design) or secondarily added to reduce impacts in the case of	
	potentially significant effects.	
Offshore Reactive	A structure attached to the seabed by means of a foundation, with one	
Compensation Platform	or more decks and a helicopter platform (including bird deterrents)	
(ORCP)	housing electrical reactors and switchgear for the purpose of the	
	efficient transfer of power in the course of HVAC transmission by	
	providing reactive compensation	
Offshore Restricted	ed The area within the array area, where no wind turbine generator,	
Build Area	offshore transformer substation or offshore accommodation platform	
	shall be erected.	
Outer Dowsing Offshore	The Project	
Wind (ODOW)		
Receptor	A distinct part of the environment on which effects could occur and	
	can be the subject of specific assessments. Examples of receptors	
	include species (or groups) of animals or plants, people (often	
	categorised further such as 'residential' or those using areas for	
	amenity or recreation), watercourses etc.	
Statement of Common	A statement of common ground is a written statement produced	
Ground	jointly between The Applicant and another Interested Party setting out	
	the areas of agreement and /or disagreement between parties.	
Statutory Consultee	Organisations that are required to be consulted by the Applicant, the	
	Local Planning Authorities and/or The Planning Inspectorate during the	
	pre-application and/or examination phases, and who also have a	
	statutory	
	responsibility in some form that may be relevant to the Project and	
	DCO application. This includes those bodies and interests prescribed	
	under Section 42 of the Planning Act 2008.	
i ne Applicant	GIR4 Limited (a joint venture between Corio Generation (and its	
	amiliates), IotalEnergies and Gulf Energy Development), trading as	
	Outer Dowsing Offshore Wind	
ine Project	Outer Dowsing Offshore Wind, an offshore wind generating station	
	together with associated onshore and offshore infrastructure.	

Term	Definition
Trenchless Technique	Trenchless technology is an underground construction method of installing, repairing and renewing underground pipes, ducts and cables using techniques which minimize or eliminate the need for excavation. Trenchless technologies involve methods of new pipe installation with minimum surface and environmental disruptions. These techniques may include Horizontal Directional Drilling (HDD), thrust boring, auger boring, and pipe ramming, which allow ducts to be installed under an obstruction without breaking open the ground and digging a trench.
Wind Turbine Generator	A structure comprising a tower, rotor with three blades connected at
(WTG)	the hub, nacelle and ancillary electrical and other equipment which
	access ladders, boat access systems, corrosion protection systems,
	fenders and maintenance equipment, helicopter landing facilities and
	other associated equipment, fixed to a foundation

1 Introduction & Document Purpose

- This document sets out the Applicant's responses to additional documentation and representations submitted by Natural England and the Marine Management Organisation (MMO) at Deadline 1.
- 2. Table 1- Table 8 sets out the Applicant's response to the Natural England submissions (REP1-057-REP1-064). Table 9 sets out the Applicant's response to the MMO's submissions (REP-066).

2 Applicant's Responses to Natural England's Deadline 1 Submissions

Table 1 Natural England's Covering Letter

ID	Natural England Comment	Applicant Response
Paragraph 1	Natural England will not be providing advice at this deadline on the updates regarding the Development Consent Order (DCO) and Deemed Marine Licence (dML), this will be submitted	This comment is noted by the Applicant.
(Natural England's	at Deadline 2.	
Deadline 1		
Submissions)		
Paragraph 1	Natural England has no comments on Benthic or Offshore Ornithology Compensation aspects, due to the Applicant providing no updates, therefore Natural England's advice provided at	This comment is noted by the Applicant.
(Natural England's	Relevant Representations to these thematic areas is unchanged.	
Deadline 1		
Submissions)		
Paragraph 2	Natural England wishes to highlight that the focus of our engagement during Examination will	The Applicant continues to engage with Natura
(Natural England's	be on reviewing relevant updated Environmental Statement (ES) Chapters/technical documents/outline plans or thematic clarification notes submitted by the Applicant only. We	outstanding issues.
Engagement through	will not be responding to commentary on our representations, other interested parties'	The Applicant also wishes to highlight the point
Examination)	representations or to comments from the Applicants or other stakeholders on the Risk and	plans/assessments in order to be resolved, the
	Issues Log, unless the ExA questions direct us to do so.	sufficient, and that the Applicant would welcor
	Natural England welcomes resolutions to issues highlighted in our Relevant Representations	responses.
	and are keen to see the Applicant making substantial progress earlier in Examination, rather	
	than pushing back on our advice, which will leave issues unresolved until later in Examination.	
	In addition, Natural England highlights that where the Applicant may consider that our issues	
	and concerns have been addressed within the Applicants response to our Relevant	
	Representations, we are not aligned. We reiterate that for these issues to be considered	
	resolved the amendment or commitment will need to be included within/secured within a	
	named technical document or plan and reviewed within the wider context of the Application.	
Paragraph 3	As outlined within Natural England's representation, Natural England deterred comments on	This comment is noted by the Applicant.
(Dialy and large larg	the In-Principle Monitoring Plans (IPMP) [APP-245]. Owing to the volume of documentation	
(RISK drive issues Log	their response to the IDMP until a suitable juncture in the examination timetable	
Disagreement	It is anticipated that the Rick and Issues Log and PADSS will be undated and submitted	
Summary Statement	alongside our submissions during examination at each deadline to reflect any progress in issue	
(PADSS))	resolution during examination. Please note for Deadline 1 there are no undates provided to	
(17(200))	the DCO. Benthic Compensation and Offshore Ornithology Compensation aspects of the log	
	and PADSS.	
Paragraph 4	Natural England aims to provide a detailed statutory advice at Deadline 2. In the meantime,	The Applicant welcomes the support from Na
	they provide the following high-level comments:	impacts on auks through the introduction of the
(Natural England's		-
Initial Advice on the		



al England in order to seek agreement on the

nt that not all issues require an update to the that, in some instances, clarification will be ome engagement by Natural England on their

atural England on the principle of reducing e Offshore Restricted Build Area.

Page 8 of 54 November 2024

ID	Natural England Comment	Applicant Response
Offshore Restricted Build Area (ORBA) and Revision to the Offshore Export Cable Corridor (ECC))	Natural England supports the principle of reducing impacts on auks through restricting the area in which above water infrastructure can be installed. However, this may result in increased or different impacts on some receptors, in particular marine processes, which will need to be fully assessed by the Applicant. The Environmental Statement (ES) should function as an authoritative and transparent assessment of the impacts of the development, including the impacts where mitigation has been applied. However, the Applicant does not intend to update the ES or the Report to inform the Appropriate Assessment (RIAA). We strongly recommend that for key chapters, which from Natural England's perspective are Offshore Ornithology and Marine Processes, the ES itself should be updated to reflect the specific impacts of the 'post-ORBA' development, with clean and tracked change versions submitted into the Examination once the impact assessment has been significantly progressed. The RIAA should also be updated in the same fashion. This will allow the ES to inform the post-consent phase as the key reference document for all parties and allow future developments to include an accurate quantification of the ODOW proposal in their cumulative and in-combination assessments, the ES being the standard source of such information. The Applicant's cumulative and in-combination assessment should also be updated to reflect the post-ORBA development. We note that the Applicant considers that a change request is not required because the ORBA is mitigation. For the ORBA to be relied upon as mitigation in the impact assessment (including the appropriate assessment) it would need to be secured through a robust DCO/dML condition. Subject to clarification from the ExA regarding the status of the ORBA within the Examination, we intend to advise on the proposal not to update the ES, Natural England considers a condition-led approach would lead to ambiguity and therefore potential confusion regarding the extent and nature of the proposal in the po	As outlined in section 5 of the Environmental Re and Revision to the Offshore Export Cable Corrid the Offshore Restricted Build Area and Revision t 081) and accompanying appendices (PD1-082 to P for the introduction of the ORBA and the Revision previously drawn for the ES which supported the Environmental Impact Assessment chapters. conclusions as set out in the ES, with all conclusion The Environmental Report for the Offshore Restric Export Cable Corridor and associated append documents under Part 1 of Schedule 21 of the dD Similarly, the Habitats Regulations Assessment f Revision to the Offshore Export Cable Corridor (P 092) reviews the conclusions of the RIAA in ligh revision of the ECC and confirms that neither the an change to the overall conclusions drawn within The Applicant updated the draft DCO to reflect th change versions of the DCO which introduced th acceptance of the Applicant's Change Request, th 4(2), Part 3, Schedule 1 of the DCO and the deer 1(5), Part 2 of Schedule 10 of the DCO and condi The ORBA is therefore robustly secured. Whilst no wind turbine generators, offshor accommodation platform may be erected in the installation and ancillary operations during operations and maintenance works. The ORBA Order Limits. The terms of requirement 4(2), Part Schedule 11 of the DCO are sufficiently clearly d consent phase as to the extent of the Project.
Paragraph 5 (Offshore and Intertidal Ornithology)	the Applicant's impact assessment. For Deadline 1 Natural England have only carried out an initial screening of the ORBA assessment with respect to these shortcomings to identify any that the Applicant has not sought to address. Natural England's findings are presented in Appendix F1. Subject to clarification regarding the status of the ORBA within the Examination, they intend to provide full technical advice at Deadline 2, which will advise on whether their concerns have been addressed, and if they have, their advice on Offshore Ornithology impacts. Natural England highlights that it will not be possible for Natural England to advise the ExA on the extent to which the ORBA has reduced the impacts from the submitted proposal. This is because the impact assessment was based on a methodology that departed from Statutory	The ORBA report presents impacts for the ORBA. The ORBA report presents impacts for the orig approach with ORBA, and where different, Nat impacts with ORBA. As such the scale of the chan and the position with ORBA can be inferred. The Applicant notes that Natural England have ac the impacts of the post-ORBA development in an



eport for the Offshore Restricted Build Area dor (PD1-081), the Environmental Report for to the Offshore Export Cable Corridor (PD1-PD1-090) set out an appraisal of the potential to the Offshore ECC to alter the conclusions he Project's DCO Application, for all relevant The proposed changes do not alter the ons drawn remaining unchanged and valid.

icted Build Area and Revision to the Offshore dices (PD1-081 to PD1-090) are certified DCO.

for the Offshore Restricted Build Area and PD1-091) and accompanying appendix (PD1ht of the introduction of the ORBA and the e ORBA nor the ECC revision would result in in the RIAA.

the introduction of the ORBA (see the tracked the ORBA at PD1-025). Subject to the ExA's the ORBA would be secured by requirement termed marine licence conditions at condition ition 1(7), Part 2 of Schedule 11 of the DCO.

bre transformer substations or offshore he ORBA, the area may be used for cable construction (and decommissioning) and is therefore required to remain within the Part 3, Schedule 1 of the DCO and the dML 10 of the DCO and condition 1(7), Part 2 of drafted so as to avoid confusion in the post-

ngland on the principle of reducing impacts

ginal Applicant's approach, the Applicant's atural England's preferred approach to the nge in impact between the original approach

dvised that they should be able to advise on nd of itself.

ID	Natural England Comment	Applicant Response
	Nature Conservation Bodies (SNCB) advice, whereas the ORBA assessment has hopefully	
	rectified these issues. The two are therefore not comparable.	
	Subject to their relevant representation concerns being addressed however, Natural England	
	should be able to advise on the impacts of the post-ORBA development in and of itself.	
Paragraph 6	Natural England would like to draw attention to the announcement made by the Marine	The Applicant has responded to this point in row
	Management Organisation (MMO) and Defra in March 2024, that there will be an expectation	Advice on Marine Mammals.
(Noise Abatement	that all offshore wind pile driving activity in English waters should be able to demonstrate	
Systems)	that they have utilised best endeavours to deliver noise reductions through the use of primary	
	and/or secondary noise mitigation methods in the first instance from January 2025. Natural	
	England hopes to provide a position statement on this at Deadline 2.	

Table 2 Appendix B1 Natural England's Advice Blockage Modelling Results

ID	Natural England Comment	Natural England's Advice to Resolve Issue	Applicant Response
Section 1, paragraph	Natural England acknowledges the following issues raised in		The Applicant welcomes this co
1	our Relevant		
	Representations [RR-045] Appendix B are resolved:		
	• The Applicant has confirmed in their response in PD1-059		
	that trenchless		
	techniques only will be employed at landfall and that this is		
	secured in the		
	Development Consent Order (DCO) (3.1), in Part 1 of Schedule		
	1.		
	• The Applicant has confirmed that an updated assessment of		
	spoil mounds [AS-003] was carried out based on the revised		
	Maximum Design Scenario (MDS) parameters and used to		
	inform the assessment presented in the Environmental		
	Statement [APP-062].		
Section 1, paragraph	A summary of our overarching concerns regarding the		The Applicant has addressed the
2-5	introduction of the Offshore Restricted Build Area (ORBA) [PD-		1.5).
	081] can be found in our Deadline 1 Cover Letter.		
	With regards to impacts associated with the introduction of		
	the ORBA, given the uncertainty regarding the Realistic Worst		
	Case Scenario (RWCS) as presented in [PD1-084], magnitude		
	of change, and evidence gaps, our concerns remain regarding		
	potential changes to sediment transport processes and		
	seabed morphology over the lifetime of the Project.		
	The successful adjustice is similized using beints of us to		
	Ine presented reduction in significant wave neight of up to		
	1 III [PD1-084], over the metime of the project (35 years) could have a significant impact on the codiment transport processes		
	that energies on and around consistive recenters such as the		
	candbanks within and near the array		
	sanuvanks within and near the array.		
	We advise the Applicant addresses the evidence gaps and		



w 1 of Table 4: Appendix E Natural England's

omment.

he point in detail in the responses below (B1.1-

ID	Natural England Comment	Natural England's Advice to Resolve Issue	Applicant Response
	assessment. Natural England seeks further clarification on whether the separation between WTGs and Offshore Platforms (OPs) has been reduced as a result of the reduction in the array area introduced by the ORBA.		
Section 1, paragraph 6	The Applicant has stated in PD1-071 that cable protection measures within the nearshore environment will not take the form of 1.5m high rock berms. Instead, cable protection measures within the inner depth of closure (approx. 7.1m) are unlikely to exceed 0.35m in height (with the exception of cable crossings). If rock protection is to remain the Applicant's chosen external cable protection measure, can the Applicant confirm whether along with a reduction in nearshore cable protection height, they also envisage a reduction in rock berm volume? Natural England requests confirmation as to which document or plan this reduced nearshore maximum cable protection height of 0.35m has been secured.		The Applicant has responded t cable protection measures requ currently available, and will be work developed post-consent in It should be noted that the use mitigation measure following with a competent contractor. The protection as practicable and target burial depth could not be safety reasons, the cable must range of cable protection measure mattresses, rock bags and seable
B1.1 (Section 1.2)	Potential Impact Increase: The introduction of the ORBA has reduced the array area available for installation of the wind turbine generators (WTGs) and Offshore Substation Platform (OSPs). While Natural England welcomes the removal of this northern section which reduces impacts to seabed morphology; we are concerned that impacts to receptors such as marine processes are likely to be increased.	Natural England draws the ExA to the following points where further evidence is requested to demonstrate that the original WCS and associated assessments remain fit for purpose.	The Applicant considers that por receptors have been appropria Report for the Offshore Restrict Export Cable Corridor (PD1-081 the proposed areas will not res with the exception of slight m Evidence from updated numeric not result in any change to the in Applicant consider the significa receptors to remain unchanged
B1.2 (Section 2/Para 11 (and PD1- 071/B2, B15 & B17))	Realistic Worse Case Scenario: The Applicant has stated that the modelled windfarm layout represents the most realistic worst-case scenario (RWCS) based on best available information. However, the (Confidential) Seabed Mobility Report [APP-152] advises that installation of WTG (and presumably OSP) foundations may need to avoid those areas in the array with the greatest potential for bed elevation changes (e.g. 10m/year) over the lifetime of the project, which suggests contention with the conclusions on significance of impact in the original assessment. Moreover, the (Confidential) Seabed Mobility Report [APP-152] advises that more detailed, site- specific data will be needed to assess and better understand bedform migration rates and directions, seabed sediment mobility, scour potential, and infrastructure integrity over the lifetime of the Project. The Applicant highlights the preliminary nature of this report and that <i>"Final layout details will be informed by detailed engineering design work developed nost-consent in</i>	Natural England advises that the Applicant should address the evidence gaps identified in our RR/WR [RR-045] during the consenting phase. Further modelling may also be required pre- construction to ensure this remains fit for purpose and we anticipate being re-consulted as/when further information is available. We also advise that monitoring (as mentioned in the In-Principle Monitoring Plan) should be carried out to ensure that there are no unexpected changes to seabed morphology such as sandbanks.	 Paragraph 3.8.87 of the Nation Energy Infrastructure (NPS EN-Zero (DESNZ), 2023) acknowled farm development and states: "Owing to the complex nature of the details of a propose at the time of the applic may include: the precise location and development; the foundation type and As outlined in Paragraph 3.6.2 of consent as a result, applicants state likely worst-case environment to ensure that the impacts of the properly assessed" (DESNZ, 2023)



to this point in PD1-071. Full details of the quired, including rock berm volume, are not be informed by detailed engineering design n consultation with relevant stakeholders.

e of remedial protection is a final technical engineering and installation good practice The Applicant wishes to use as little remedial would only deploy cable protection when be achieved. However, for operational and be protected. The Applicant has proposed a asures, including rock placement, concrete red spacers.

otential impacts to Marine Physical Processes iately considered within the Environmental cted Build Area and Revision to the Offshore 1). As outlined in PD1-081, the exclusion of sult in a change to the assessment scenarios nodifications to the wave and tidal regime. ical modelling shows that these changes will impact magnitudes previously identified. The ance of effect on Marine Physical Processes d and valid from the ES.

onal Policy Statement (NPS) for Renewable -3; Department for Energy Security and Net dges the flexibility required by offshore wind

of offshore wind farm development, many of ed scheme may be unknown to the applicant ication to the Secretary of State. Such aspects

nd configuration of turbines and associated

size..."

of NPS EN-3: "Where flexibility is sought in the should, to the best of their knowledge, assess ental [...] effects of the proposed development he project as it may be constructed have been 23).

ID	Natural England Comment	Natural England's Advice to Resolve Issue	Applicant Response
	consultation with the MMO and relevant stakeholders."		
	Given the uncertainty regarding the RWCS, magnitude of		In accordance with NPS EN-3, th
	change, and evidence gaps, our concerns remain, and are		the numerical modelling represe
	potentially heightened, regarding potential changes to		(WCS) based on the currently available
	sediment transport processes and seabed morphology over		WCS has involved consideration
	the lifetime of the Project.		prevailing wave directions, wat
			addition to considerations outw
			concerns). The layout was pred
			area (minus the ORBA (PD1-081)
			blockage effects corresponding
			Generator (WTG) foundations,
			Structure (GBS) foundations, a
			bucket foundations, in additi
			foundations. WTG foundations t
			modelled as GBS foundations
			assess the greatest potential blo
			consider the modelled layout to
			the purposes of assessment for
			The Applicant assumes, with reg
			is referring to their concerns rais
			(APP-152). As outlined in
			Representations (PD1-071), A
			information and the ground mo
			engineering works will continue
			deep geotechnical data, is collect
			intended either as a comprehens
			environment for the purpose
			environmental effects. The base
			Processes within the study area
			of a range of project-specific a
			limited to APP-152, as outlined i
			Processes (APP-062) and Appe
			Baseline (APP-150). The Applicat
			the evidence.
			Given the shows the Applicant
			nocossary in line with best area
			hoth pro- and post construction
			out a full son floor coverage
			requirements of MCNEE4 and it
			within the Order limits in which
			access any changes in hadform +
			assess any changes in Deutoring L
			Condition 12(a) requires the area



ne potential windfarm layout as presented in ents the most realistic Worst-Case Scenario vailable information. The identification of the of Marine Physical Processes pathways (e.g. ter depths, and proximity to the coast) in vith the topic (e.g. shipping and navigational licated on the basis of full use of the array)), with the WCS for wave and hydrodynamic to an array comprising 100 Wind Turbine 50% of which are slab-based Gravity Base nd 50% of which are jackets with suction ion to five GBS Offshore Platform (OP) to the west of the site, closest to shore, were (rather than suction buckets), in order to lockage for coastal receptors. The Applicant appropriately represent a realistic WCS for Marine Physical Processes receptors.

gard to evidence gaps, that Natural England sed in relation to the Seabed Mobility Report the Applicant's Response to Relevant APP-152 is based on preliminary site odels developed for the site to inform final to be updated as further site data, including ected prior to construction. APP-152 was not asive baseline characterisation of the physical es of EIA, or as an assessment of the seline understanding of the Marine Physical a has been developed through consideration and existing data sources including but not in Section 7.4.2 of Chapter 7 Marine Physical endix 6.3.7.1 Physical Processes Technical and therefore disagrees that there are gaps in

Given the above, the Applicant does not consider further modelling to be necessary. In-line with best practice, geophysical surveys will be undertaken both pre- and post-construction. The Applicant has committed to carrying out a full sea floor coverage swath bathymetry survey that meets the requirements of MGN654 and its annexes, and side scan sonar, of the area(s) within the Order limits in which construction works were carried out to assess any changes in bedform topography. This is set out at table 3.1 of the In Principle Monitoring Plan (APP-276). DCO Schedule 11 and 12, Part 2 -Condition 13(c) requires the preparation of a monitoring plan, which accords with the in principle monitoring plan, to be submitted and approved in

ID	Natural England Comment	Natural England's Advice to Resolve Issue	Applicant Response
			writing by the MMO. Condition carried out in accordance with in writing by the MMO.
			Natural England's concerns rega B1.3.
B1.3 (Figures 1.2 and 1.3)	Reduction in Wave Height: In Figure 1.2, the updated blockage modelling results show an increased 'wave shadow' area extending further to the south of the array for northerly waves, and in Figure 1.3 to the southwest of the array for northeasterly waves. Natural England advises that a reduction in significant wave height of up to 1m, over the lifetime of the project (35 years) could have a significant impact on the sediment transport processes that operate on and around sensitive receptors such as the sandbanks within and near the array (e.g. Outer Dowsing Shoal). Natural England also notes that the scale in Figures 1.2 and 1.3 used to represent the greatest potential change in significant wave height is -1 to -0.1m, which is a significant order of magnitude, whereas for the lesser changes in significant wave height the range is much smaller (e.g0.05 to -0.025m). Therefore, we advise that a more graduated scale for the greatest predicted change in significant wave height would make interpretation of the results clearer.	We advise that the implications of the updated model results will need to be re- evaluated when the necessary additional information (see comment above) has been gathered.	As requested by Natural Engla versions of Figures 1.2 and 1.3 Blockage Modelling Results Figures Using a more graduated scale, of between 0.125m and 0.25m individual foundations during n where the reduction in signification 0.1m and -1m, the more precises in Figures 1.2 and 1.3. As outlined in Appendix 6.3.7.1 150), tidal currents have been bedload sediment transport and Kenyon and Cooper, 2005). The array area, including Outer Dow shelf sinuous and open shelf lin morphology of these sandbank understood to limit the vertical (Cooper et al., 2008). Accordingly, a reduction in sign slight increase in the crest he shadow. Given that waves accord morphology, this small magnit the near-field environment, is r sandbank morphology and the
B1.4 (Section 2/Para 17 & Figure 1.1)	ORCP: Natural England notes that Figure 1.1 shows a reduction in current speed of up to 0.1m/s in the ORCP area adjacent to Inner Dowsing sandbank. We remain concerned that the presence of two Gravity Base (GBS) ORCPs with a minimum separation distance of <u>90m</u> adjacent to Inner Dowsing, could disturb tidal flows, local scour, and overlapping wake effects, in an area of high seabed elevation change [PD1-084]. This could lead to changes to sediment transport pathways and affect sandbank morphology.	Natural England advises that further consideration of potential disturbance to tidal flows, development of local scour, and changes to sediment transport pathways and seabed morphology is required.	Physical Processes (APP-062) and As outlined in the Environment Area and Revision to the O modification to the wave and the to seabed morphology results assessed as of minor adverse si in EIA terms. This assessment proximity of the proposed ORC The Inner Dowsing sandbank veneer of sand bedforms maint flows here are generally orient bydrodynamic blockage impact



on 14(5) requires the licensed activities to be the approved plans, unless otherwise agreed

garding magnitude of change are addressed in

land, the Applicant has provided alternative s using a more graduated scale in Appendix A: gure Updates of this document.

, reductions in significant wave height (HmO) m are observed within several kilometres of median baseline conditions. This clarifies that cant wave height was stated to be between se values are -0.125m and -0.25m, as shown

1 Physical Processes Technical Baseline (APPn identified as the dominant mechanism of across the wider area (van der Molen, 2002; e sandbanks identified within and around the bwsing Shoal, are identified generally as open linear banks (Kenyon and Cooper, 2005). The ks is primarily tidally driven, with wave action I growth of sandbanks by planing off the crests

nificant wave height of <0.25m may result in a eight of sandbanks located within this wave count for a secondary influence on sandbank tude of change in wave height, restricted to not considered to have a significant effect on erefore the conclusions in Chapter 7, Marine are unchanged.

ntal Report for the Offshore Restricted Build Offshore Export Cable Corridor (PD1-081), tidal regime and associated potential impacts ting from the presence of the ORCPs was ignificance (at worst), which is not significant t was made with due consideration of the CP area to the Inner Dowsing sandbank.

The Inner Dowsing sandbank is understood to be a relict feature with a veneer of sand bedforms maintained by tidal currents (JNCC, 2010). Tidal flows here are generally oriented north to south, meaning that potentially hydrodynamic blockage impacts resulting from the ORCPs are unlikely to

ID	Natural England Comment	Natural England's Advice to Resolve Issue	Applicant Response
			propagate towards the east. The mobility results presented in T September Offshore Restricted Export Cable Corridor Append (with the locations of extraction installation of Project infrastruct 1% (of total time that sediment tides at Point 4 (located at the no changes in sediment mobilit of the Inner Dowsing sandbank) well within the natural variabili grained sediment is unlikely sandbank form.
			The Applicant consider the ab- impacts to the Inner Dowsing sa regard to potential disturbanc transport pathways.
B1.5 (Section 2/Para 11)	Changes to structure separation distance: Natural England notes that the Applicant states that project parameters including number of structures and foundation types will remain unchanged. However, it is not clear, given the reduction in array area within the ORBA whether the separation between WTGs and Offshore Platforms (OPs) has been reduced.	Natural England advises that further information should be provided on potential changes to structure separation distance within the ORBA and evidence will be required to support any conclusions.	As set out in the Applicant's information in relation to the Offshore ECC (REP1-024), alt Restricted Build Area (ORBA) ha be located from 436km ² to 364 area), all other offshore Project the minimum turbine spacing of 25 of Chapter 3: Project Desc Schedule 1, Part 3 - Requirement Following the introduction of updated numerical modelling provided in 15.9B Procedural I Build Area and Revision to the Blockage Modelling Results (P structures as represented in modelling has been updated a from 2004m between structure In both cases, the layout was pr area, with the WCS for w corresponding to an array com foundations, 50% of which ar foundations, and 50% of which in addition to five GBS Offshore



This conclusion is supported by the sediment Table 6.1 of 15.9B Procedural Deadline 19 ed Build Area and Revision to the Offshore dix B Blockage Modelling Results (PD1-084) on points shown in Figure 1.4 (PD1-082)). The acture is predicted to result in an increase of nt is mobile) for very fine sand during neap e north of the Inner Dowsing sandbank), with ity estimated at Point 3 (located to the south s). The scale of this change is considered to be lity of the site, and given that it affects finer to represent a controlling influence on

ove to appropriately consider the potential andbank from the presence of the ORCPs with ce to tidal flows and changes to sediment

response to the ExA's request for further e proposed ORBA and the revision to the though the introduction of the Offshore as reduced the area within which turbines will 4.7km² (the ORBA covers 16.4% of the array ct parameters remain the same. This includes of 605m, as set out in section 4.1.1, paragraph cription (APP–058) and as secured in DCO ent 2(1)(d).

the Offshore Restricted Build Area (ORBA), has been undertaken, details of which are Deadline 19 September Offshore Restricted e Offshore Export Cable Corridor Appendix B PD1-084). The separation distance between the Marine Physical Processes numerical as a result of the introduction of the ORBA, es to 1800m between structures.

redicated on the basis of full use of the array vave and hydrodynamic blockage effects nprising 100 Wind Turbine Generator (WTG) re slab-based Gravity Base Structure (GBS) are jackets with suction bucket foundations, e Platform (OP) foundations.

ID	Natural England Comment	Natural England's Advice to Resolve Issue	Applicant Response
			WTG foundations to the west o GBS foundations (rather than greatest potential blockage for normalised blockage factors ide as presented in APP-150 and PD

Table 3 Appendix C1 Natural England's Advice on Benthic Ecology

ID	Natural England Comment	Applicant Response
Section 3.	We welcome the Applicant's response (PD1-071) to Natural England's concerns raised in	The Applicant can confirm that the responses (PD1-071)
Baseline	our relevant representations (RR-045) in relation to the transparency in methods and	raised in the relevant representations (RR-045) in rela
Characterisation	analytical techniques used to determine the extent and distribution of Sabellaria spinulosa	analytical techniques used to determine the extent and
and ECC	Annex I reef presented in the Appendix 2 Benthic Ecology Technical Report (ECC) v2 (AS-	reef presented in the Chapter 9 Appendix 2 Benthic Ecol
Sabellaria	004) and the Envision ECC Sabellaria imagery analysis report (PD1-095).	the Offshore Export Cable Corridor Sabellaria Spinulosa
Imagery	However, these clarifications and commitments have not been incorporated into the	added to the documents (AS-004) and (PD1-095) as appro
Analysis [PD1-	technical documents and are therefore not sufficient in themselves to be relied upon both	Chapter 9 Appendix 2 Benthic Ecology Technical Report (B
095 and	during the consenting phase and post consent for this project and any subsequent projects	Sabellaria Spinulosa Reanalysis and Report at Deadline 3.
AS-004]	wishing to reference the reports. Natural England, therefore, advises that for the scientific	
	technical reports to be relied upon, the clarifications provided by the Applicant prior to	
	Deadline 1, should be incorporated into the documents, for example as a forward note or	
	appendix, if not within the relevant sections themselves.	
	While these clarifications (once included within the technical documents) address the	
	majority of our concerns regarding the analytical approach to the determination of Annex I	
	S. Sabellaria reef, the Applicants' response does not address our concerns regarding	
	supporting reef habitat. Natural England intends to provide further detailed advice on this	
	matter at Deadline 2.	
Section 4.	Natural England notes from the Applicant's response (PD1-071) that the Applicant is	Peritus International Ltd (2022) Scour and Cable Protection
Removable	committing to using removable cable protection within the Annex I Sandbank feature of the	be accessed on the Natural England website at:
Cable	IDRBNR SAC.	https://publications.naturalengland.org.uk/publication/5
Protection	The Applicant has cited Peritus International Ltd (2022) as a reference to support their	
within IDRBNR	conclusion of high confidence that cable protection can be removed.	The Applicant has committed to installing removable cable
SAC		the SAC, however the Applicant remains confident that,



of the site, closest to shore, were modelled as suction buckets), in order to assess the or coastal receptors. This is based on the entified for individual WTG foundation types D1-084.

it presented to Natural England's concerns ation to the transparency in methods and distribution of Sabellaria spinulosa Annex I logy Technical Report (ECC) v2 (AS-004) and Reanalysis and Report (PD1-095), can be opriate. . The Applicant will update ECC) and the Offshore Export Cable Corridor

on Decommissioning Study (NECR403) can

938793965420544

e protection within sandbank features within based on all data submitted at Application, Page 15 of 54

November 2024

ID	Natural England Comment	Applicant Response
	However, the reference paper has not been provided for review so Natural England is unable to comment on whether we agree with sufficient level of confidence, that cable protection can be removed. Natural England advises that the Peritus International Ltd (2022) paper is submitted into examination for review. While the Applicant has committed to installing removable cable protection within sandbank features within the SAC, Natural England advises that this commitment is extended to the whole of IDRBNR SAC.	and confirmed through additional studies (PD1-098), t features within the offshore ECC, plus additional mitigation form, the potential for an AEoI on this feature of the IDRE scientific doubt. The strategy for mitigating significant in reef features will be presented within the Biogenic Reef N with the outline Biogenic Reef Mitigation Plan (document and required to be submitted to the MMO for written Condition 13(1)(j)
Section 5. Outline Biogenic Reef Mitigation Plan [PD1-067]	Natural England welcomes the inclusion of pre-application advice within the Outline Biogenic Reef Mitigation Plan Rev 2 (PD1-067). Natural England welcomes the commitment within the Outline Benthic Mitigation Plan (PD1-067) and the Schedule of Mitigation (PD1-059) to avoid cable installation within the Marine Management Organisation (MMO) fisheries byelaw area. The Applicant has stated that ancillary works may be undertaken within the MMO byelaw area. Natural England advises that the mitigation should commit to no works including ancillary works within the	The Applicant can confirm that no works including ancil fisheries byelaw area, this has been added to the Scheo Deadline 2) and secured within the revised Outline Biogen of Deadline 2). The Applicant believes that Natural England's reference intended to be a reference to the Outline Biogenic Ree
	byelaw area. The commitment within the Outline Benthic Mitigation Plan (PD1-067) and Outline Cable Specification Installation Plan (CSIP) (PD1-043) to microsite boulders around biogenic reef is welcomed. However, to resolve this issue the Applicant should set out how the placement of boulders will not adversely impact marine physical processes and within the SAC ensure that they are deposited in similar habitat, whilst also replicating the structure and function of the interest feature.	relocation of boulders (as detailed within the Applicant's of Table 1.45.4.2 (PD1-071)), the Applicant stated that for grab is used for boulder clearance, the boulders will be p measure is detailed at references 6 and 38 in the Schedul Cable Specification and Installation Plan (V3 submitted Schedule 11, Part 2 - Condition 13 (1)(d)(ii)). The placement ensure that there would be no significant change to marin structure and function of the interest feature.
Section 5 – Evidence Used	The Biogenic Reef Mitigation Plan (PD1-067) paragraph 9 references the Envision Sabellaria Analysis Report (PD1-095). The Envision report includes a generic statement relating to the evidence used to underpin the report conclusions: "Project specific data, along with any relevant third-party data (e.g. national datasets and archives), were reviewed to assess the likely location and probabilities of Sabellaria reef within the cable corridors". In the absence of more detailed information relating to the methods used (i.e. targeted/untargeted surveys), age and spatial coverage of Annex I reef data within the ECC, we cannot agree that the evidence presented within the Envision Report (Appendix 9.5; document reference 6.3.9.5) can be used to conclude "no historical presence of S. spinulosa reef". Natural England advises the statement "no historical presence of S. spinulosa reef occurring within the offshore ECC" either needs to be removed altogether, or further evidence is required (which dates back to the point in time of IDRBNR SAC designation) to support the statement.	The Applicant has amended paragraph 9 within the submitted as part of Deadline 2), to read 'no historical protected the data reviewed within the Envision <i>Sabellaria</i> Analysis
Section 5 – Mitigation Approach	As previously advised (RR-045), Section 5 of the Outline Benthic Mitigation Plan has insufficient level of detail. The Applicant is required to present a robust and well considered approach to benthic mitigation that demonstrates that mitigation is secured and feasible, particularly in relation to Annex I S. spinulosa reef. Noting the importance of potentially supporting habitat, and areas of 'potential reef' in maintaining the total feature extent, Natural England advises that micrositing as mitigation, particularly within the IDRBNR SAC, should be extended to include areas where evidence	The Applicant believes that Natural England's reference intended to be a reference to the Outline Biogenic Reef N presented a robust and well-considered approach to be the mitigation is secured and feasible. The Applicant notes Natural England has stated it will pro habitat at Deadline 2. However, the Applicant does not ag
	suggests there is a risk of potentially supporting reef habitat being impacted in the longer	extended to include areas where there is a risk of potent



the absence of any qualifying Annex I reef on to avoid any reef which may consequently BNR SAC can be excluded beyond reasonable mpacts to any potential *Sabellaria spinulosa* Mitigation Plan, to be prepared in accordance nt 8.22, V3 submitted as part of Deadline 2) n approval under DCO Schedule 11, Part 2,

illary works will take place within the MMO edule of Mitigation (v3 submitted as part of nic Reef Mitigation Plan (v3 submitted as part

te to the Outline Benthic Mitigation Plan is sef Mitigation Plan (PD1-066). In relation to 's response to Relevant Representations C12 for all areas along the cable routes, where a placed nearby, in a similar habitat type. This ile of Mitigation (PD1-058) and in the Outline as part of Deadline 2) (as secured by DCO ent of boulders in a similar habitat type would rine physical processes and also replicate the

Outline Biogenic Reef Mitigation Plan (v3 resence of *Sabellaria spinulosa* reef based on s Report (PD1-095)'.

e to the Outline Benthic Mitigation Plan is Mitigation Plan (PD1-066). The Applicant has enthic mitigation and has demonstrated that

rovide a further response on supporting reef gree that micrositing as mitigation should be tially supporting reef habitat being impacted

Page 16 of 54 November 2024

ID Section C Disposal Sit	Natural England Comment term. Therefore, Natural England advises that mitigation measures and commitments made, need to appropriately consider sediments with the potential to support Annex I S. spinulosa reef. Detail on how these habitats will be identified and avoided, should be included within the relevant mitigation plans and documents. We continue to advise that the details within the updated mitigation plan are insufficient to provide the necessary level of confidence that the pre-construction surveys be appropriately designed and targeted to provide the data to effectively implement mitigation measures relevant to Annex I reef and supporting habitats. We note the Applicants response to our Relevant Representations (RR-045) "The preconstruction survey will be informed by full coverage (within the Order Limits in which the Applicant is proposed to carry out construction works) geophysical data and designed with detailed enough resolution to give confidence in the data". Natural England welcomes the characterisation of disposal areas (PD1-097) and advises that this information should be used to inform the mitigation measures within the Schedule of	Applicant Response in the longer term. It is well documented that <i>Sabellaria sp</i> have a small niche for substratum preferences, which is evi which this species has been recorded (Pearce, 2017). unlikely to be a limiting factor in the distribution of this avoidance of sediments that support this habitat is an appr for this species. The Biogenic Reef Mitigation Plan, to be prepared in an Mitigation Plan (document 8.22, V3 submitted as part of D the MMO for written approval under DCO Schedule 11, Par more detailed design information is available relating to a pre-construction surveys have taken place and therefore t will give appropriate consideration to the avoidance of re undertaken to further the understanding of the potenti Project array area and ECC. The results of the pre-cor development of mitigation measures. As detailed at Table 3.2 of the Offshore In-Principle M construction survey will be completed post-consent composition of any habitats of principal importance const and 17 of Part 2 of the dMLs set out at Schedules 10 ar construction survey, including methodologies, timings a principle monitoring plan, to be submitted to the MMCC licensed activities, in consultation with the SNCB. Natural E to provide comments on the survey proposals and the appropriately designed and targeted to provide the data to relevant to Annex I reef and supporting habitats. The Applicant will utilise the characterisation of disposal a material will be deposited within an area of similar sedimer
Characterisatio Report [PD1 097]	 Mitigation V2 (PD1-059). More specifically, the characterisation information should be used to ensure that "dredged material will be deposited within an area of similar sediment characteristics" as detailed in Table of the Schedule of Mitigation (PD1-059). We maintain our advice provided in our Relevant Representations (RR-045) that disposal sites within the IDRBNR SAC should be upstream of the Annex I sandbank feature and be deposited using a fall pipe to help facilitate recovery and minimise wider environmental impacts. We advise this is included within the Disposal Site Characterisation Report. Natural England defers to the MMO and CEFAS to agree the proposals for sediment samples in terms of contaminants. 	measures within the Schedule of Mitigation (V3 submitted Schedule of Mitigation(V3 submitted as part of Deadline 2) dredged material within an area of similar sediment chara location in order to retain sediment within the sediment consider further mitigation beyond the existing commitme
Section Environmental Report an Habitats Regulation Assessment for the ORBA and	As outlined within our Deadline 1 Cover Letter, it is recognised the ExA has set out within the Rule 8 Letter (PD-011) that responses to submissions from the Applicant which relate to the inclusion of an Offshore Restricted Build Area (ORBA) proposed as mitigation and the revision to the Export Cable Corridor (ECC) are not required for Deadline 1. As Natural England had already taken the opportunity to begin our review, we can provide the following high-level advice to the benthic aspects of the proposed changes, with more advice to follow (where necessary) at a later deadline.	The Applicant welcomes the agreement that the proposed the optionality for a northern route of the offshore ECC we impacts upon benthic receptors. As detailed within Environmental Report for the Offshore Offshore Export Cable Corridor (PD1-081), the Order Limi retained along a section of the offshore ECC to potential



pinulosa the species and in reef form do not ridenced by the wide-ranging substrata upon Substratum composition therefore seems s species and therefore providing detail on roach that is not supported by the literature

accordance with the Outline Biogenic Reef Deadline 2) and required to be submitted to art 2, Condition 13(1)(j)will be prepared once the nature and extent of the work and the the submitted Biogenic Reef Mitigation Plan eef habitat. Pre-construction surveys will be tial for *Sabellaria spinulosa* reef within the instruction surveys will inform the further

Monitoring Plan (APP-276), a detailed preto determine the location, extent and stituting Annex 1 habitat. Condition 13(1)(c) and 11 require details of the proposed preand format, and which accord with the in O for approval prior to commencement of England will therefore have the opportunity Applicant is confident the surveys will be o effectively implement mitigation measures

areas (PD1-097) data to ensure that dredged int characteristics as stated within mitigation d as part of Deadline 2). At reference 6 of the), the Applicant has committed to depositing racteristics, in close proximity to the dredge t transport system. The Applicant does not ent to be appropriate.

ed inclusion of the ORBA and the removal of will not result in a material difference in the

re Restricted Build Area and Revision to the hits for the DCO Application, optionality was ally enable the Project to avoid crossing the e area 1805 not taken up by the agreement

ID	Natural England Comment	Applicant Response
ID Revision to the Offshore ECC [PD1-081, PD1- 082, PD1-083, PD1-091]	Natural England Comment Natural England agrees that the proposed inclusion of the ORBA and the removal of the optionality for a northern route from the offshore ECC will not result in a material difference in the impacts upon benthic receptors in comparison to those which were assessed within the Applicant's Environmental Statement (APP-064) and RIAA (AS1-096), and included within the HRA for the ORBA and Revision to the Offshore ECC (PD1-091). However, Natural England highlights that the removal of the northern route optionality, also removes the option to avoid impacts occurring on Inner Dowsing Annex I Sandbank, which would have been a key mitigation measure. Thus, Natural England continues to disagree with the Applicants RIAA conclusion and reiterates our advice provided in our relevant representations (BR-045). Even if the	Applicant Response holder (Hanson Aggregates Marine Limited), or were the aggregate site. The aggregate option agreement has now Marine Licence Application to permit aggregates extraction to the Marine Management Organisation (MMO) (ML ref: 1 1805 has an Option Agreement from The Crown Estate a course for a Production Agreement, the northern route, w no longer viable or available to the Project. Hanson Aggreg to seabed rights for aggregate extraction which is not com operation and maintenance. Therefore, colocation is not northern route so the aggregate area is unavoidable wh
	Applicant is able to fully microsite the cable to avoid known Annex I reef features, there will still be a loss of Annex I reef supporting habitat which we consider will have an adverse effect and would require compensation. Until this is resolved Natural England does not agree with the conclusions of the RIAA in regard to impacts to Annex I reef from the placement of cable protection. This will have implications for compensation requirements.	Project amended the Order Limits to exclude this section of includes the northern ORCP area which was positioned a change was accepted by the ExA 5 th November (PD-012). The Applicant remains confident that, based on all data through additional studies (PD1-098), the absence of any offshore ECC, plus additional mitigation to avoid any reef v for an AEoI on this feature of the IDRBNR SAC can be exclu

Table 4 Appendix E1 Natural England's Advice on Marine Mammals

ID	Natural England Comment	Natural England's Advice to Resolve Issue	Applicant Respon
Section 2. Noise	Natural England's advice regarding Noise Abatement Systems (NAS)	n/a	The Applicant'
Abatement	or noise reduction at source as mitigation remains unchanged.		unchanged. The
Systems (NAS) -	Natural England expects to see the Applicant make a commitment		need to commit
Noise Reduction	to using these as mitigation.		significant effe
at Source	Noise abatement systems are proven to reduce the level of noise		Assessment (EIA)
Mitigation	generated by piling and its propagation through the marine		of Chapter 11 M
	environment. As the noise levels are reduced at or close to the		AEoI within the H
	source, the range and area over which noise-related impacts occur		the Conclusions of
	will be reduced significantly.		(APP-095)) and I
	In March 2024, the Marine Management Organisation (MMO) and		081).
	Defra announced the expectation that all offshore wind pile driving		
	activity in English waters should demonstrate that they have utilised		NAS have been c
	best endeavours to deliver noise reductions through the use of		8.6.1 Outline Ma
	primary and/or secondary noise mitigation methods in the first		Piling Activities (
	instance from January 2025 and we expect that the majority of piling		2 submission) an
	from 2025 onwards will not be able to go ahead without noise		048). The Applic
	abatement in place.		management of
			particularly in re
			are engaging wit
			Rural Affairs (De
			due to the curr
			Government pol
			any significant et
			not consider it n



he option only taken up over part of the been extended by The Crown Estate, and a on over the whole site has been submitted MLA/2024/00227). As the developer of Area and intends to exercise those rights in due which passes through the aggregates area, is gates Marine Limited has priority with regard mpatible with cable installation and ongoing t possible. The site covers the width of the nilst using the northern route. As such, the of the offshore ECC from the draft DCO. This along this section of the offshore ECC. This

a submitted at Application, and confirmed v qualifying Annex I reef features within the which may consequently form, the potential uded beyond reasonable scientific doubt.

onse

S response regarding NAS remains Applicant does not consider that there is a it to NAS based on the conclusion of no ects within the Environmental Impact A) (see the Summary of Effects at Table 11.77 Marine Mammals (APP-066)), confirmed no Habitats Regulations Assessment (HRA) (see of the Assessment at Table 12.1 of the RIAA by the ORBA Environmental Report (PD1-

considered as a mitigation option within the arine Mammal Mitigation Plan (MMMP) for (version 3 submitted as part of the Deadline nd In-Principle Site Integrity Plan (SIP) (PD1cant is aware of the developments in the of underwater noise within UK waters, elation to impacts in marine mammals and ith Department for Environment, Food and efra) on the strategic measures. However, rrent uncertainties around what the final plicy position will be, and in the absence of effects from the Project, the Applicant does necessary to make a commitment to the use

ID	Natural England Comment	Natural England's Advice to Resolve Issue	Applicant Respon
			of NAS at this s
			piling without N
			(MDS) for the p
			inclusion of NAS
			(PD1-048) and (
			Deadline 2) ens
			considered, in th
			could be breache
			could not be mar
			The Applicant di
			responses the Ar
			relevant represe
			to Relevant Repr
Section 3.	The population of harbour seals in The Wash and North Norfolk	n/a	The Applicant no
Harbour seal	Coast (WNNC) Special Area of Conservation (SAC) is in decline. The		Wash harbour se
population in the	cause of the decline is unknown; there are several research projects		therefore, there
Wash and North	investigating the potential causes, and until the cause of the decline		during sensitive
Norfolk Coast	is found, any activities that have the potential to hinder recovery of		population declin
(WNNC) Special	the population need to be carefully assessed for less impactful		
Area of	alternatives.		The Applicant d
Conservation	Natural England wishes to re-iterate our advice as provided within		Consequences of
(SAC)	our Relevant Representations [RR-045]. Disturbance impacts to		Natural England
	harbour seal from piling which could further hinder the 'restore'		that no populatio
	objective of The WNNC SAC should be avoided, reduced or		from the constru
	mitigated. Natural England advises that if impactful noise from the		
	project reaches the SAC, additional mitigation measures, for		The Applicant is
	example, NAS, should be implemented.		conclusion of no
	In this case, the use of NAS, or other suitable alternative to reduce		adverse effect of
	sound at source, and planning holsy activities to avoid sensitive		restore conse
	timings has the potential to reduce disturbance to the population.		meneriles worst
	As advised in RR-045, disturbance at sensitive times should be		Monopiles worst
	avoided, for example during pupping season (june, july and August).		SAC) and the int
			(OPPA) would n
			worst case locati
			the Applicant do
			noise generating
			necessary
Section 4	It is unclear if the disturbance contours for harbour seal in Figure	n/a	The Applicant ha
Disturbance	11.4 [APP-099] of Chapter 11 [APP-066] overlap with The WNNC	.,	099) and Figure
Contours –	SAC. Natural England requests to see a figure containing the noise		contained the in
Harbour Seal	contours as presented in Figure 11.4 of Chapter 11 with the horder		figures incorrec
	of The WNNC SAC to understand the extent of the overlap.		disturbance cont
	Furthermore, the barrier impacts from the piling at the Offshore		porpoise dose
	Reactive Compensation Platform (ORCP) was not evident until the		whereas the cor



stage of the development. Consequently, NAS remains the Maximum Design Scenario purposes of the assessment of effects. The as a mitigation option in the In-Principle SIP Outline MMMP (V3 submitted as part of sures that this mitigation option can be he event that the relevant noise thresholds and by in-combination activities and that this anaged by coordination among developers.

lirects the Examining Authority (ExA) to the applicant has provided on Natural England's entation on NAS in the Applicant's Response resentations (PD1-071).

otes that the reasons for the decline of the eal colony are currently unknown e is the potential that reducing disturbance times could have no impact on the ine.

directs the ExA to the interim Population of Disturbance (iPCoD) model, undertaken at d's request (RR-045), which has confirmed on effects to the harbour seals are predicted uction of the Project (PD1-094).

is not committing to NAS based on the o significant effects on harbour seals and no on integrity of the WNNC SAC (including the ervation objective). The Applicant also the noise contours for harbour seals for t case locations in Figure 11.4 of Chapter 11: als (APP-066) do not overlap with the WNNC introduction of the Offshore Restricted Build not change this conclusion as the closest tion in the SW remains the same. Therefore, oes not consider the commitment to avoid g activities during June, July and August is

as identified that that both Figure 11.4 (APPe 11.5 (APP-099) of Chapter 11 (APP-066) ncorrect dose response curve for seals. The ectly showed the monopile 5dB SEL_{ss} tours from 120-180 dB, which is the harbour response curve (Graham et al., 2017), rrect dose response curve for seals is 145-

Page 19 of 54 November 2024

ID	Natural England Comment	Natural England's Advice to Resolve Issue	Applicant Respon
ID	Natural England Comment noise contour figures were published in the Environmental Statement. This new evidence is potentially concerning considering the harbour seal decline.	Natural England's Advice to Resolve Issue	Applicant Responent 180 dB as referent will submit revised monopile 5dB SE at Deadline 3. T dose-response c in the assessment in section 11.7 or relating to the fig The Applicant wit of Figure 11.4 a confirm that nois structure and OR introduction of conclusions as the SW remains the The Applicant all included within (both Wind Tur assessment of L
Section 5. Interim	Natural England welcomes the submission of the Interim Population	n/a	assessment of I Marine Mamma intermittent pilin England previou phase could be s Barrier effects ar Assessment of ORCP) in section highly precaution significance of significant) and c trajectory over ti The Applicant co
Population Consequences of Disturbance (iPCoD) Modelling	Consequences of Disturbance Modelling (iPCoD). The iPCoD modelling was requested as a tool to support the conclusions in the Impact Assessment that were not supported by robust evidence. Owing to evidence gaps in the relationship between marine mammal ecology, sound, disturbance and population impacts, this modelling makes many assumptions and caution should always be taken when interpreting the outputs of any model. Therefore, although the model can be used as a tool alongside other methods for assessing the long-term population level impacts of disturbance, the results of the iPCoD modelling should not be viewed in isolation or solely dictate the final significance conclusion.		by Natural Engla The result of th presented in the was not intende the conclusions p



enced in Whyte et al., (2020). The Applicant sed versions of Figure 11.4 and 11.5 with the SEL_{ss} disturbance contours from 145-180 dB The Applicant can confirm that the correct curve (Whyte et al., 2020) has been applied nt of impacts to harbour seals and grey seals of Chapter 11 (APP-066) and the error is only igures.

ill add the WNNC SAC to the revised versions at Deadline 3. However, the Applicant can ise contours from the array, artificial nesting RCP do not overlap with the WNNC SAC. The f the ORBA would not change these he worst case scenario piling location in the same.

Iso considers that barrier effects have been the assessment of disturbance from piling rbine Generators (WTG and ORCP) in the Impact 5 of Section 11.6 of Chapter 11: hals (APP-066) which demonstrates that ing will not cause barrier effects. Natural usly agreed barrier effects for operational scoped out at the EIA Scoping stage.

re considered within the Cumulative Effects f disturbance from piling (both WTG and n 11.7 of Chapter 11 (APP-066). Even using a onary 26km Effective Deterrence Range, the the impact was assessed as minor (not did not result in an effect on the population time.

onducted the iPCoD modelling as requested and.

ne modelling aligned with the conclusions e Chapter 11 (APP-066). The iPCoD modelling ed to be viewed in isolation but to support presented in the ES chapter.

ID	Natural England Comment	Natural England's Advice to Resolve Issue	Applicant Respo
E1.1 (4.3.1. Paragraph 19)	No commitment has been made by the Applicant to conduct pre- piling searches by qualified Marine Mammal Observers (MMObs)	Natural England advises that pre-piling searches by qualified MMObs are adopted, as this is the minimum requirement set out in the Joint Nature Conservation Committee (JNCC) guidelines for minimising the risk of injury to marine mammals from piling noise (<u>JNCC Piling</u> <u>Guidelines (August 2010)</u>).	The Applicant cl Outline Marine Activities (PD1-C used. The Applic in section 4.3.1 Protocol for Pilin the Deadline 2 guidelines to ma
E1.2 (4.3.2. Paragraph 22)	The Applicant has stated that Passive Acoustic Monitoring (PAM) can be used to supplement visual monitoring during periods of poor visibility, such as when there is fog, high sea state or at night, to allow piling to commence during these conditions. However, PAM cannot effectively detect harbour porpoises at a distance greater than 300m, and therefore animals could still be within the Permanent Threshold Shift (PTS) onset range without detection.	Natural England does not recommend piling commences during poor visibility conditions. PAM is an effective method to supplement visual observations to detect vocalising animals underwater.	As is common f may be occasion of darkness and primary marin additional restri would risk add construction pr additional enviro The JNCC (2023 primary mitigation of MMOb. JNCC as a substitute for of the mitigation considered appr when piling start undertake visual commit to ADD MMMP at the p of the 6.8.1 Outh Piling Activities (2 submission). The marine mamma displacing animal The Applicant if undertaking pilin been used as the piling has commit visibility.
E1.3 (4.3.7 Paragraph 3)	This project's maximum hammer energy of 6600 kJ is higher than previous projects that have used >10% maximum hammer energy for soft-starts.	Natural England's advice from Relevant Representations remains unchanged. Natural England advice that the soft- start should commence at no higher than 10% of the maximum hammer energy, therefore reducing the proposed soft-start of 15% maximum hammer energy (990 kJ) to 10% of maximum hammer energy (660 kJ).	The Applicant c Marine Mamma (APP-279 and PI the soft-start is (APP-161). The t Outline Marine



clarifies that the intention of the text in the e Mammal Mitigation Protocol for Piling 045) was that a qualified MMOb would be icant has amended the text in paragraph 19 of the Outline Marine Mammal Mitigation ing Activities (version 3 submitted as part of submission) in line with the JNCC (2010) ake this clearer.

for offshore wind farm construction, there ons where piling needs to start during hours d therefore PAM would be required as the ne mammal mitigation measure. The fiction to the piling construction opportunity ding a considerable time to the overall rogramme, which could in turn result in ronmental impacts overall.

3) guidance accepts that PAM is a suitable ion measure, and can be used independently C (2023) states the PAM should not be used for visual observations, unless the full extent on zone cannot be seen. Therefore, PAM is propriate for monitoring the mitigation zone rts at night, as it would not be appropriate to al monitoring. Additionally, the Applicant will Ds, if identified as a measure in the final post-consent stage, as detailed in section 4.3 the Marine Mammal Mitigation Protocol for (version 3 submitted as part of the Deadline These are considered effective in deterring als from the area prior to piling, therefore hals beyond the PTS-onset impact range.

is aware of consented projects currently ing activities (e.g. Sofia OWF) where PAM has the primary mitigation measure when the imenced at night or in times of reduced

confirms there was an error in the Outline nal Mitigation Protocol for Piling Activities PD1-044) and the correct hammer energy for s 10% as stated in Chapter 11 Appendix 2 text in paragraph 34 in section 4.3.7 of the e Mammal Mitigation Protocol for Piling

ID		Natural England Comment	Natural England's Advice to Resolve Issue	Applicant Respon
				Activities (versio
				submission).
E2.1		Natural England supports the increase in mitigation zone. It is	This may require using more MMObs and implementing	The Applicant h
		important for the final Marine Mammal Mitigation Protocol	stricter limits on workable weather conditions. If effective	section 4.2 of
(4.2	Paragraph	(MMMP) to consider how this zone can be effectively monitored to	monitoring cannot cover the PTS impact zone, other	Protocol for Un
14)		ensure all marine	methods of mitigation or	submitted as par
		mammals can be detected.	sound reduction at source will be required.	text was added
				estimates result i
				larger than 500
				piling activity), t
				match. This may
				ensure the entir
				with the JNCC gu
E2.2		No commitment has been made by the Applicant to conduct a pre-	Natural England advises that a pre-detonation search by a	The Applicant h
		detonation search by a qualified MMOb.	qualified MMOb is adopted since this is the minimum	section 4.3 of
(4.3	Paragraph		requirement from the JNCC guidelines (JNCC guidelines	Protocol for Un
15)			for	submitted as par
			minimising the risk of injury to marine mammals from	Additional text h
			<u>using explosives (August 2010)</u>).	guidance to be
				detonation searc
E2.3		Ine Permanent Infeshold Shift (PIS) onset range for high order Unexploded Ordnance (IIXO) donation (sic) could be larger than the	Natural England recommends the delay in operations needs	The Applicant wi
		area that can be effectively monitored by visual observers.	to reflect the distance a marine mammal needs to travel to	16 of the Outlin
(4.3	Paragraph	Therefore, the delay in operations needs to reflect the distance a	flee the PTS onset range. There should also be consideration	Unexploded Ord
16)		marine mammal needs to travel to flee the PTS onset range.	for how the remainder of the PIS onset range will be	the Procedural
			mitigated, for example the distance to which	detected during
				would be delaye
				from the mitiga
				(defined as the l
				the ADD's operation
		The Applicant has stated that a Dassive Acquistic Menitoring	Natural England advises that commencement of UVO	
CZ.4		(RAM) system operated by a trained operator may be used to	detenations should not occur during periods of reduced	Ordnanco (UVO)
(1)	Daragraph	(PAN) system, operated by a trained operator, may be used to	visibility INCC guidelines (2022) state "The minimum	typical for offsh
(4.5 10)	Paragraph	visibility such as fog high son state or at night. However, the	mitigation requirement in these guidelines is that the	typical for offshic
10)		minimum mitigation requirement set out in the INCC guidelines	mitigation requirement in these guidelines is that the	Marino and Coas
		for LIXO operations state that the mitigation zone must be visually	marine mammals " DAM can be used to supplement	undertake LIXO
		observed	visual monitoring to detect vocalising animals that are	consent stage
			underwater.	consent stage.
				Nevertheless th
				and safety and
				OWF typically
				visihility The
				supplement visu
				the commitment
			1	



on 3 submitted as part of the Deadline 2

has amended the text in paragraph 14 in the Outline Marine Mammal Mitigation nexploded Ordnance Clearance (version 3 art of the Deadline 2 submission). Additional d stating that if the final noise modelling in an instantaneous PTS-onset impact range 0 m (the standard mitigation zone size for the mitigation zone would be increased to y require more than one qualified MMO to re mitigation zone can be observed in line uidance (2010).

has amended the text in paragraph 15 in the Outline Marine Mammal Mitigation nexploded Ordnance Clearance (version 3 ort of the Deadline 2 submission).

has been added, outlining that JNCC (2010) followed including commitment to a prerch by a qualified MMOb(s).

vishes to highlight that the text in paragraph ne Marine Mammal Mitigation Protocol for dnance Clearance (PD1-047) submitted at Deadline states 'if a marine mammal is g the pre-detonation search, the operation red until the MMOb confirms its departure gation zone and ensures a safe distance PTS-onset range for the Project)' and that ration would be checked concurrently, and uld continue to monitor for sightings and ur'.

is not seeking consent for Unexploded)) clearance in the DCO application, as is ore wind farms. The Applicant will apply to nagement Organisation under Part 4 of the stal Access Act 2009 for a marine licence to) identification survey and at the post-

ne Applicant understands that due to health the JNCC guidance, UXO detonations for do not occur during hours of reduced Applicant notes PAM can be used to ual observation and will consider inclusion of nt suggested by Natural England, and the

ID		Natural England Comment	Natural England's Advice to Resolve Issue	Applicant Respo
				relevant guidan
_				MMMP accordir
E2.5		No commitment has been made by the Applicant to conduct	Natural England recommends that visual marine mammal	The Applicant c
		visual marine mammal watches, conducted by MMObs 30	watches, conducted by MMObs 30 minutes before ADD	Outline Marine
(4.3	Paragraph	minutes prior to ADD activation.	application are implemented. This might require the visual	Clearance (PD1-
23)			watch to be longer than one hour.	used. The Applie
				in section 4.3 c
				Protocol for Ur
				submitted as pa

Table 5 Appendix F1 Natural England's Advice on Offshore and Intertidal Ornithology

ID	Natural England Comment	Natural England's Advice to Resolve Issue	Applicant Respo
Main Comment	s – Summary of Advice		
F1.0	Natural England welcomes the corrections made by the Applicant to		The Applicant
	the errors and inconsistencies identified within document 6.3.12.1		that this issue is
	Chapter 12 Appendix 1 Intertidal and Offshore Ornithology		
	Technical Baseline [APP-162], which has now been superseded by		
	version 2 [AS1-064]. This issue raised in our Relevant		
	Representations [RR-045] Appendix F is now addressed.		
F1.1	The Applicant has endeavored to present assessment outputs based		The Applicant v
	on Natural England's advised apportioning approach within the new		the updated a
	Offshore Restricted Build Area (ORBA) documents submitted on the		documents.
	19-Sep-2024, as requested by Natural England in our Relevant		
	Representations [RR-045]. This approach is welcomed.		
	The ExA has set out within the Rule 8 Letter [PD-011] that responses		
	to submissions from the Applicant which relate to this matter are		
	not required for Deadline 1. Natural England has however reviewed		
	the Applicant's methodological approach, to ensure that progress is		
	continued towards agreeing the approach to the ornithological		
	assessment. This initial review has identified some methodological		
	issues which are set out within our detailed comments in Table 1		
	below. Natural England will review and comment in full on these		
	documents at Deadline 2, subject to clarity being provided by the		
	ExA regarding the status of the ORBA within the Examination.		
	Notwithstanding this and as stated above, the documents submitted		
	by the Applicant in response to the Section 51 advice (for the original		
	build area pre-ORBA) were corrected for errors, but not updated to		
	include Natural England's full recommended approach to the		
	assessment, and inclusion of displacement matrices for upper and		
	lower confidence limits, the means of abundance values, along with		
	nocturnal activity factors (NAFs) as set out in Garthe and Hüppop		
	(2004) and clarity of use of the full breeding season. These updated		
	assessment approaches within the ORBA documents are welcomed,		
	though we highlight that until the status of the ORBA within the		



onse

nce post-consent, and will update the final ngly.

clarifies that the intention of the text in the e Mammal Mitigation Protocol for UXO -047) was that a qualified MMOb would be cant has amended the text in paragraph 15 of the Outline Marine Mammal Mitigation nexploded Ordnance Clearance (version 3 art of Deadline 2).

onse

welcomes Natural England's confirmation is resolved.

welcomes Natural England's recognition of assessments as presented in the ORBA

ID	Natural England Comment	Natural England's Advice to Resolve Issue	Applicant Respon
	Examination is clarified, these issues will be marked as unresolved in		
	our Risk and Issues log. However, the limitation is that Natural		
	England remains unable to make a judgement on the impacts from		
	the full build area without the ORBA, or a comparison of impacts		
	with and without the ORBA.		
F1.2	The new ORBA documents only present an assessment of the		As the addition
	impacts from the array during the Operation and Maintenance		conclusions of the
	(O&M) phase and therefore, Natural England are yet to see an		impacts during
	assessment of impacts during the Construction and		phases are 50%
	Decommissioning phases following Natural England's		impact conclus
	recommended approach. Natural England's advice is that		decommissioning
	displacement impacts are assumed to be 50% of the impacts during		The Applicant is
	the O&M phase. It is therefore possible to infer the mortality figures		assessments that
	for the Construction and Decommissioning phase with the ORBA		the more up to
	from the new documents. Nonetheless, the full annual impacts		become available
	across phases presented for each species are not presented, and this		see response at C
	poses difficulty reviewing the overall impacts of the project across		updated project p
	its timeline. Similarly, the Applicant has stated they are not		2 and Dogger Bar
	intending to update the in-combination assessment because the		submission of th
	conclusions of the RIAA have not changed. This will result in no		Deadline 4.
	agreed in-combination totals to take forward to use in future		At the same time
	projects.		changes to the
	To address the above, we strongly recommend that the Applicant		Statement (ES).
	submit a fully updated Environmental Statement chapter and RIAA		updated ES cha
	assessment for offshore ornithology, including cumulative and in-		thereafter.
	combination assessments once the outstanding matters are		
	resolved.		
F1.3	In our Relevant Representations, we advised that some		Consideration of
	consideration should be given within the Habitat Regulations		through stochast
	Assessment (HRA) process regarding the potential for long-term		Environmental Ir
	implications of Highly Pathogenic Avian Influenza (HPAI) which could		would not be an
	lead to a reduction in the resiliency of populations. In addition, to		assess this would
	how this may impact the need for conditions to allow a population		Over the decades
	to recover to, rather than be maintained at, a target level.		considered as a s
	In their response [RR-071], the Applicant has stated why they do not		The Applicant is r
	feel this is necessary, specifically that recovery at colonies has		all times, when a
	already been evidenced by increases in the numbers of Apparently		spaces left within
	Occupied Nests (AON)s at a select number of colonies. Natural		deaths and non-H
	England do not consider increases in the number of AONs alone to		have originated f
	provide sufficient evidence that populations are recovering, since it		a different colon
	is unclear to what extent non-breeding birds will have 'backfilled'		breeding terms,
	the spaces left by high levels of mortality due to HPAI. Furthermore.		referring to 'Ap
	it is unclear at this stage what resistance has been developed within		occurs at all color
	populations of different species, how long this will last, and whether		
	further outbreaks of HPAI will impact populations in the future.		
	Natural England advice therefore remains unchanged. Even if the		



on of the ORBA has not changed the he assessments during the O&M phase, and the construction and decommissioning 6 of those predicted in the O&M phase, usions for the construction and ng phases will remain the same.

s intending to update the in-combination at were presented at application to include o date values from other projects which e during the course of the Examination (also Q1. HRA.1.3). The Applicant considers that position for key projects (such as Rampion ank South) will be available in time for the he updated in-combination assessment at

e, the Applicant will consider any potential conclusions made in the Environmental If required, the Applicant will submit an apter, including cumulative assessment,

of long-term variability in bird populations stic events is beyond the scope of any Impact Assessment (EIA); such variability n effect of the Project and any attempt to d be highly speculative.

es of seabird monitoring, the AON has been suitable unit of colony size.

a not familiar with the term 'backfilling'. At adult birds die, other birds move into the n colonies. This is the case for HPAI-related HPAI-related deaths; these 'new' birds may from the same colony or immigrated from ny. They may also be breeding and nons, hence the use of 'Apparently' when pparently Occupied Nests'. This process onies and helps maintain numbers.

ID	Natural England Comment	Natural England's Advice to Resolve Issue	Applicant Respo
	inclusion of HPAI does not alter conclusions within the RIAA, the		
	uncertainties surrounding future impacts from issues such as		
	climate change and HPAI to seabird populations should still be		
	considered in the Applicant's assessments.		
Detailed Com	ments - Offshore and Intertidal Ornithology Analytical Methodologies pr .092)	resented within Documents relating to the Applicant's proposition of the second s	sed ORBA: (PD1-0
F2.0	As stated within our Relevant Reps [RR-045], Natural England does	Natural England welcomes the presentation of our approach	The Applicant r
	not support the use of a theoretical stable age structure (Furness, 2015) to apportion impacts to adults from Special Protection Area (SPA) colonies for Habitats Regulations Assessment (HRA) during the breeding season. The Applicant has provided updated documents presenting Natural England's approach (to use, in the absence of site-specific ageing data, the precautionary approach of assuming 100%) alongsidetheir own approach using the stable age structure.	to apportioning of adults alongside the Applicant's approach.	Applicant's posit is not appropria presented in Fur regarding adult retained the adu as its preferred a
F2.1	The Applicant has derived adult proportions from DAS data for kittiwake, gannet and lesser black-backed gull (LBBG) as the proportion of birds identified as adult out of all aged birds. This has been done by calculating the proportion of adults for each survey that falls within the relevant breeding season for that species, and averaging these to produce the site-specific adult proportions, as follows: Gannet: 0.86 Kittiwake: 0.90 LBBG: 0.50 However, this averaging includes surveys when no birds are recorded, and the 'proportion of adults' is therefore 0%. Natural England suggests that this is therefore not a valid calculation and has resulted in an underestimate of the proportion of adults, particularly for LBBG where several surveys during the breeding season recorded no birds.	Natural England advises that a more valid and simple way of calculating proportion of adults from Digital Aerial Survey (DAS) data is to follow the method used by Morgan Offshore Wind Farm, which is to divide the total number identified as adults by the total number of aged birds. This gives the following adult proportions: Gannet: 0.90 Kittiwake: 0.91 LBBG: 0.66 We advise that the Applicant's assessment is updated with the above rates.	The method us proportions from proposed by Na average of the survey, whereas uses the raw data to calculate the p The methods p approach uses 0.86, kittiwake – The Applicant co backed gull, th proposed by representative o the fact that bo attain a plumage are sexually ma images should necessarily 'adul of these species general overesti present at the sit For gannet, the li within an adult still feasible. The the method use was raised by Na no birds were re average) does no months were rec



071, PD1-081, PD1-086, PD1-087, PD1-088,

notes Natural England's comments. The tion remains that 100% adult apportioning iate, and that the stable age structures rness (2015) are the best available evidence proportions. As such the Applicant has ult proportions published in Furness (2015) approach.

sed by the Applicant to calculate adult in the site-specific DAS data is similar to that atural England; the Applicant has taken an proportion of adults from each monthly is the Natural England preferred method to on aged birds and adults across all surveys proportion of adult birds across all months. produce similar results (the Applicant's the following adult proportions: gannet-- 0.90, lesser black-backed gull – 0.5).

be slightly lower adult proportions (as the Applicant) are likely to more of the actual adult proportion. This is due to oth kittiwake and lesser black-backed gull e very similar to that of an adult before they ature, i.e. birds aged as adults from DAS be considered 'adult-like' rather than lt'. As such, a proportion of the population will look like, but not be, adult, leading to a cimation of the adult proportion of birds ite.

likelihood of 'adult-like' birds being included proportion is lower than for kittiwake but e Applicant notes that the initial issue with ed to calculate the adult proportion which atural England (i.e. the use of months where ecorded among those used to calculate an ot apply to either gannet or kittiwake as no corded with no birds for these species.

ID	Natural England Comment	Natural England's Advice to Resolve Issue	Applicant Respo
			As such the App are suitable for
			The Applicant c Natural Englanc adult proportic guidance on Nat provided in thei
F2.2	The Applicant has presented displacement matrices for upper and lower confidence limits, as well as the means, of abundance values, as requested in Natural England's Relevant Reps [RR-045].	Natural England welcomes the addition of these.	The Applicant w
F2.3	For the ORBA, the Applicant has presented an alone assessment for guillemot at Flamborough and Filey Coast (FFC) using Natural England's approach to apportioning using model-based population estimates only. This is in contradiction to the Applicant's response [PD1-071] to comment F14 within our Relevant Reps, where the Applicant states: "The Applicant utilised both design-based and model-based density estimates for guillemot to inform the site refinement work, as advised by Natural England, however the Applicant retained the use of design-based density estimates for the primary assessments."	Natural England requests that the Applicant presents an assessment for guillemot using both design-based and model-based estimates and presents displacement matrices for both.	The Applicant of are more robus design-based es that the displace more accurate estimates, uses
F2.4	In our Relevant Representations [RR-045], Natural England set out our preferred approach to apportioning for guillemot, including the addition of a bespoke post-breeding season (August – September) and the recommended apportioning rate for this bioseason (68.5%). The Applicant has undertaken an assessment using Natural England's approach (albeit for model-based estimates only, see comment 4). The Applicant however does not state anywhere within the updated ORBA documentation what the apportioning rate is for guillemot during the post-breeding period as advised by Natural England.	An updated assessment should clearly set out what Natural England's preferred approach to guillemot apportioning is, including the apportioning rate that has been used during the bespoke post- breeding period.	The Applicant h apportioning ad breeding biosea
F2.5	At Relevant Representations [RR-045], Natural England advised a bespoke apportioning rate for razorbill during the post-breeding bioseason (August – October) of 70.6% rather than the rate presented in Furness 2015 of 3.4%. The Applicant makes no reference to this recommended rate within their ORBA documentation, and it appears it is not included in the "Natural England approach" presented. Table 4-13 in document 15.10, [PD1- 091] only shows a separate 'Natural England approach' line for the 'breeding' bioseason (accounting for differences in the Applicant's and Natural England's adult apportioning rates) and the 'annual total', but not for the 'post-breeding' bioseason.	An updated assessment should clearly set out what Natural England's preferred approach to razorbill apportioning is, including the apportioning rate advised for the post-breeding period and ensure this is reflected in the impact values calculated using the Natural England approach for razorbill.	The Applicant h apportioning a breeding biosea



plicant is content that the rates used to date all three species.

can update the assessment based upon the d preferred approach to the calculation of ons at Deadline 4 if required (specific tural England's preferred approach was first ir Deadline 1 submission (REP1-061). velcomes Natural England's confirmation.

considers that the model-based estimates st and likely to be more accurate than any stimates. Therefore, the Applicant considers cement assessment provided, which uses the e and robust model-based population is the best available data.

has utilised Natural England's approach to adult guillemot (68.5%) during the postason.

has utilised Natural England's approach to adult razorbill (70.6%) during the postason.

ID	Natural England Comment	Natural England's Advice to Resolve Issue	Applicant Respor
F2.6	The Applicant has clarified that both design- and model-based population estimates were produced for guillemot only, and that the modelled population estimates were used to inform the area for the ORBA. The full methods employed have been presented within 15.9G ORBA MRSea Modelling for Offshore Ornithology [PD1-089].	Subject to clarification from the Examining Authority (ExA) regarding the status of the ORBA within the Examination, Natural England will provide comments on this at Deadline 2.	Natural England'
F2.7	In our Relevant Representations [RR-045], Natural England advised the potential for Likely Significant Effect (LSE) to red-throated diver (RTD) and common scoter in the Greater Wash SPA as a result of vessel movements during the O&M phase and that these impacts should be considered. The Applicant had not identified LSE during the O&M phase, stating that impacts within the ECC will be lower in the O&M phase compared to the Construction/Decommissioning phase. The Applicant has not added this consideration into the new ORBA documentation.	Natural England's advice remains unchanged and continues to advise that full consideration should be given to the potential for displacement and disturbance to RTD within the Greater Wash SPA during the O&M phase as a result of vessel movements.	The Applicant re from vessel mor lower than those phases. The Ap provided at Assessment (RIA no Adverse Effec
F2.8	The Applicant has included in the ORBA documentation further detail on their assessment of LSE of the Offshore Reactive Compensation Platforms (ORCPs) on RTD and common scoter, specifically the potential impact of the ORCPs presence within the Greater Wash SPA for the lifetime of the project. This considers current evidence for the extent of displacement of RTD by offshore structures such as military forts, lighthouses and offshore structures associated with Sizewell Nuclear Power Station within the Outer Thames Estuary (OTE). Natural England agrees that there is a lack of peer reviewed studies looking at the potential for anthropogenic static structures to displace divers and sea ducks. However, Natural England are not in agreement that a direct comparison can be made between the proposed ORCPs and the anthropogenic structures within the Applicant's assessment, the majority of which are substantially smaller in height than the ORCPs, for which (APP-048) outlines as having a maximum width of 90m and a maximum height of 90m each. Natural England agrees that the data presented within Lawson et al 2016, and more recent surveys of the Greater Wash SPA (see below), suggests that the proposed ORCP area overlaps with areas of low density of common scoter. Natural England does not agree, however, with the Applicant's statement that "Figure 4-1 shows the distribution of red-throated diver within the Greater Wash SPA and the low level of overlap with areas of medium relative density for RTD as per Lawson et al 2016.	Natural England advises that an assessment of the potential for the ORCP's to cause displacement to RTD should consider both the estimated mortality, and the area (km2) and the proportion of the SPA where RTDs have the potential to be displaced from by such a structure. Previous HRAs for artificial nesting structures (ANS) have assumed a 2km displacement buffer around the ANS, similar to what would be predicted for vessels. Natural England advises that, due to the ORCPs being substantially larger in size than an ANS and the majority of the structures assessed within 15.10, the displacement distance is likely to be between 2km (as per a vessel/ANS) and 10km (as per a turbine). We therefore recommend that an updated impact assessment presents displacement assessments for both these values so that a plausible range of impacts can be considered. At this stage, Natural England continue to advise that the Applicant considers alternative locations for the ORCP outside the SPA to avoid impacts to the RTD feature.	The Applicant we the proposed OR common scoter. the Applicant ha single static stru within both the show no evidence taller single sta displacement rare therefore the ass HRA ORBA docur Applicant is under the parameters scenario and w Examination no I The Applicant in ORCP area is with area is approxim Farm (OWF) and displacement but position is based Lincs OWF (Li approximately 6 buffer of the OW proposed locatice distribution of R ^T prior to the conse different. The conclusions of reference 15.10



etains the position that the impacts on RTD ovements during the O&M phase will be e during Construction and Decommissioning pplicant considers that the assessment Report to Inform Appropriate AA) (AS1-095) remains valid and that there is ct on Integrity (AEoI).

velcomes Natural England's agreement that RCP areas overlap with areas of low-density . When considering RTD, in its assessment has reviewed potential displacement from actures, e.g. lighthouses and military forts, e OTE SPA and the GW SPA; and the data ce of displacement. There is no reason why tatic structures would have a greater nge than smaller single static structures and sessment within the RIAA AS1-095 and the ament PD1-092 remains valid. This said, the dertaking a technical engineering review of s used for the ORCP maximum design will submit updated information to the later than Deadline 4.

maintains its position that the proposed hin an area of low density RTD, i.e. the ORCP nately 4km from the Lincs Offshore Wind and therefore well within the 10km uffer proposed by Natural England. This d on post construction monitoring at the incs OWF 2017) which shows that 50% of RTD are displaced within the 4km /F, an area which broadly coincides with the on of the ORCP. The Applicant notes that TD shown in Figure 4-1 uses data collected struction of the Lincs OWF and that the RTD st-operation of the Lincs OWF will be Applicant therefore considers that the the assessment provided in document (PD1-091) remain valid.

ID	Natural England Comment	Natural England's Advice to Resolve Issue	Applicant Respor
F2.9	The collision risk appendix [PD1-087] presents wind turbine	Please could the Applicant clarify in an updated assessment	Multiple scenario
	parameters and summary of CRM results for both a 'low' and 'high'	why multiple scenarios are being considered, how these	of impacts whic
	scenario, but does not provide any context as to why multiple	differ from the scenarios presented in the original ES, and	impacts of the wo
	scenarios are being considered. It is also not clear which scenario	which scenario has been carried through to the latest	has been carried
	has been carried through to the assessment presented within the	assessment.	case scenario ('hi
	Environmental Report (which does not present multiple scenarios).		
F2.10	As requested by Natural England in our Relevant Representations [RR- 045], the Applicant provided two reports for the kittiwake offshore platform census surveys conducted in 2022 and 2023 (within AS1-064), within their response to the Section 51 advice. These reports provide an overview of the survey details and methods, in addition to the number of active and trace nests recorded on each platform; this is also summarised in (PD1-092) Section 6.3. It is not clear, however, exactly how the data from these surveys has been used to inform the Applicant's approach to apportioning of kittiwakes to offshore colonies, specifically how the rate of 61.3% apportioning to Flamborough & Filey Coast (FFC) SPA has been calculated.	Natural England requests that the Applicant clearly presents how the data from the offshore platform census surveys has been used to calculate a count of 1,672 as per Table 12 in Annex A, and how a summed proportional weight of the four FFC SPA colonies of 0.64 has resulted in an apportioning rate of 0.613 or 61.3% to the SPA.	An updated app will be provided
F2.11	The Applicant has clarified that the full breeding season for gannet (March to September) has been used throughout the assessment and this is reflected within both (PD1-081) and (PD1-092). The Applicant also states that they have used the full breeding season (April to August) for Sandwich tern, and this is shown within Table 2.1 in document PD1- 092. However, the Environmental Report [PD1-081] shows the breeding season as May to August.	Please could the Applicant correct the information within Table 4.21 and/or the assessment as appropriate.	The Applicant w season for Sand breeding season in Table 4.21 (ie August) is incorre information in T (PD1-081) and pr due course
F2.12	The Applicant has rerun collision risk modelling for the area	Natural England welcomes the Applicant's use of these	The Applicant n
	excluding the ORBA and presented updated collision risk estimates for gannet, kittiwake, sandwich tern, herring gull, lesser black- backed gull and great blacked gull. This is using the nocturnal activity factors (NAFs) as set out in Garthe and Hüppop (2004) as recommended by Natural England.	parameters.	Applicant positio precautionary fo considers that th precaution to the
F2.13	Updated collision risk modelling has not been presented for	Natural England advises that migratory collision risk	The Applicant co
	 common tern and little gull, either in respect of the introduction of the ORBA, or in response to Natural England's comments at relevant representations [RR-045] regarding having used the incorrect NAF. Furthermore, migratory collision risk modelling has not been rerun for the ORBA and Natural England therefore do not have updated collision risk impacts for migratory species, including little gull and common tern. 	modelling is rerun for the revised array area in light of the introduction of the ORBA	from the ORBA collisions. As such relation to migrat for little gull and the migratory col
F2.14	The Applicant has clarified the reason for not including a burn in	Natural England maintain that it would be useful for the	It is not anticipat
	within the Population Viability Analysis (PVA) for LBBG; that there	Applicant to present the full results with burn in, as per the	between the out
	were no material differences to outputs with and without.		burn in, therefo



nse

ios are considered in order to show a range ch include (but is not restricted to) the vorst-case scenario (WCS). The scenario that d through to the assessment is the worstnigh').

portioning annex that addresses this point at Deadline 3.

wishes to confirm that the full breeding dwich tern is April to August. The full has been used in the assessments; the text showing the breeding season from May to rect. The Applicant proposes to correct the Table 4.21 of the Environmental Report rovide the updated version of this report in

notes Natural England's comments. The on is that that the recommended NAFs are or birds from the FFC SPA and therefore he use of these rates adds a further level of he assessment.

onsiders that the reduction in area resulting can only mean a reduction in migratory ch, all conclusions presented in the RIAA in atory collision risk are still valid. Collision risk common tern have been considered within ollision risk assessment (APP-166).

ated that there will be a material difference atputs of the LBBG PVA with and without ore the Applicant considers that the PVA

ID	Natural England Comment	Natural England's Advice to Resolve Issue	Applicant Respor
		advised approach to PVA, even if they are not considered by	provided is appro
		the Applicant to	will be provided
		be materially different.	the updated in-co
F1.16	Natural England welcomes the Applicant's change to paragraph 60	As previously stated, a prolonged debate about our position	The Applicant co
	in the ORBA HRA Appendix A apportioning [PD1-092], clarifying that	and the evidence that underpins it has the potential to	clear evidence
((PD1-071)	the modelled distributions of guillemot presented in Cleasby et al,	distract the Examination from focusing on resolving the	between April ar
15.3, (PD1-	2020 do not include tracking data from FFC SPA. Natural England	outstanding issues with the Applicant's assessment. We	variability in dai
092) 15.10A,	wish to reiterate our position that April should be considered as part	consider that it would be more beneficial to focus effort on	values tended to
paragraph 60)	of the breeding season for guillemot as defined by Furness (2015),	addressing them.	guillemots incube
	and that this advice is based on the best available evidence. There is		the Applicant of
	currently no clear evidence to support the idea that birds are		different in Apri
	substantially less bound to the nest site in April than at other times		constraint in Ma
	during the breeding season. We note that Dunn et al., (2020) is		breeding constra
	referenced several times by the Applicant as evidence that colony		Applicant also no
	attendance is low in April, but this reference also states that by early		April is not part
	April (at the Isle of May) "an increasing proportion of sites were		Applicant notes
	occupied".		proportion of sit
			Applicant conside
			not the same as a
F1.17	The Applicant's view is that where impacts are considered as very	It remains Natural England's position that where there is a	The Applicant no
	minor, in terms of increase to baseline mortality, the Applicant	prospect of a contribution to an in-combination adverse	Sandwich tern at
((PD1-071) 15.3	believes they do not need to be carried through to a cumulative/in-	effects, small impacts need to be carried through to an in-	black-backed gul
Applicant's	combination assessment.	combination	species, using th
response to RR)		assessment.	alone) concluded
			Any impacts ass
			extremely preca
			assessments for o
			the mean-maxin
			addition, for Sa
			between the Proj
			Norfolk Coast, ho
			a precautionary
			closest points of
			As such, the Appl
			are likely to have
			considers that ca
			which are highly
			in-combination a
			of precaution in
			the project alor
			Project is 0.031%
			0.039% of baseli
			there are no circu
			could materially
			these species.



ropriate. A revised PVA, including burn in, I at Deadline 4, and results included within combination assessment.

onsiders that Dunn et al., (2020) presents of a behavioural change in guillemot nd May. The paper states 'There was high ily energy gain between individuals, and o be lower during May and June, when ate their eggs and rear their chicks'. Thus, concludes that guillemot behaviour is ril compared to May, with the breeding ay resulting in lower energy uptake. This aint cannot therefore exist in April. The otes that Dunn et al., (2020) consider that of the guillemot breeding season. The the statement regarding an increasing tes being occupied in April. However, the ers that an increasing proportion of sites is a large proportion of, or a majority of, sites. otes that this point relates specifically to the North Norfolk Coast SPA and lesser Ill at the Alde-Ore Estuary SPA. For both e Applicant's approach the RIAA (project I that impacts would be less than 0.3 birds. sessed for these species are likely to be autionary (more precautionary than for other species) as the Project is well beyond num foraging range in both cases. In andwich tern, there is no connectivity ject and the breeding colonies at the North owever this assessment was carried out on basis based on the distance between the the Project and the boundary of the SPA. licant considers that results of assessments ve over-estimated impacts. The Applicant arrying impacts that are less than 0.3 birds, likely to be over-estimates, through to an ssessment is unnecessary. Given the levels the assessment and the very small size of ne impact (i.e., the contribution of the of baseline mortality of Sandwich tern and ine mortality of lesser black-backed gull), umstances where the project alone impact contribute to the in-combination total for

IDNatural England CommentNatural England's Advice to Resolve IssueApplicant ResponseF1.18The Applicant has clarified that they have no intention of updating their cumulative and in-combination assessments as more up to date values from other live projects will become available during examination.For the ExA to provide up-to-date recommendations to the Secretary of State regarding the cumulative and in- combination impacts of the proposal, we consider that these assessments should be updated to reflect the latest impact estimates from the Five Estuaries, Dogger Bank South, and North Falls projects. In order to minimise the number of iterations of these assessments, we recommend the Applicant collaborate with the above developers to agree how updated impact values (based on Statutory Nature Longer Bank South) and updated projectSecretary of all four projects progress.Secretary of the examination impacts of the proposal, we consider that these assessments should be updated to reflect the latest impact the more up to become available				
F1.18The Applicant has clarified that they have no intention of updating their cumulative and in-combination assessments as more up to date values from other live projects will become available during examination.For the ExA to provide up-to-date recommendations to the Secretary of State regarding the cumulative and in- combination impacts of the proposal, we consider that these assessments should be updated to reflect the latest impact estimates from the Five Estuaries, Dogger Bank South, and North Falls projects. In order to minimise the number of iterations of these assessments, we recommend the Applicant collaborate with the above developers to agree how updated impact values (based on Statutory Nature Conservation Bodies (SNCB) advice) can be efficiently incorporated into each other's assessments as the Examinations of all four projects progress.The Applicant w interpretation of Applicant intend The Applicant w interpretation of assessments that the more up to become available	ID	Natural England Comment	Natural England's Advice to Resolve Issue	Applicant Respor
((PD1-071) 15.3 Applicant's response to RR)their cumulative and in-combination assessments as more up to date values from other live projects will become available during examination.Secretary of State regarding the cumulative and in- combination impacts of the proposal, we consider that these assessments should be updated to reflect the latest impact estimates from the Five Estuaries, Dogger Bank South, and North Falls projects. In order to minimise the number of iterations of these assessments, we recommend the Applicant collaborate with the above developers to agree how updated impact values (based on Statutory Nature Conservation Bodies (SNCB) advice) can be efficiently incorporated into each other's assessments as the submission of th Examinations of all four projects progress.Secretary of State regarding the cumulative and in- interpretation of Applicant intend The Applicant is assessments that the more up to become available see response at e updated project.	F1.18	The Applicant has clarified that they have no intention of updating	For the ExA to provide up-to-date recommendations to the	The Applicant w
((PD1-071) 15.3 Applicant's response to RR)date values from other live projects will become available during examination.combination impacts of the proposal, we consider that these assessments should be updated to reflect the latest impact estimates from the Five Estuaries, Dogger Bank South, and North Falls projects. In order to minimise the number of iterations of these assessments, we recommend the Applicant collaborate with the above developers to agree how updated impact values (based on Statutory Nature Conservation Bodies (SNCB) advice) can be efficiently incorporated into each other's assessments as the Examinations of all four projects progress.Applicant intend The Applicant is assessments that the more up to become available get assessments as the Examinations of all four projects progress.		their cumulative and in-combination assessments as more up to	Secretary of State regarding the cumulative and in-	interpretation of
Applicant's response to RR)examination.assessments should be updated to reflect the latest impact estimates from the Five Estuaries, Dogger Bank South, and North Falls projects. In order to minimise the number of iterations of these assessments, we recommend the Applicant collaborate with the above developers to agree how updated impact values (based on Statutory Nature Updated project 2 and Dogger Bank South and updated project 2 and Dogger Bank South and Deadline 4.The Applicant is assessments that the more up to become available see response at updated incorporated into each other's assessments as the Examinations of all four projects progress.	((PD1-071) 15.3	date values from other live projects will become available during	combination impacts of the proposal, we consider that these	Applicant intend
response to RR) response to RR) estimates from the Five Estuaries, Dogger Bank South, and assessments that North Falls projects. In order to minimise the number of iterations of these assessments, we recommend the Applicant collaborate with the above developers to agree how updated impact values (based on Statutory Nature updated project Conservation Bodies (SNCB) advice) can be efficiently incorporated into each other's assessments as the Examinations of all four projects progress. Back South, and the more up to become available see response at updated project Deadline 4.	Applicant's	examination.	assessments should be updated to reflect the latest impact	The Applicant is
North Falls projects. In order to minimise the number of iterations of these assessments, we recommend the Applicant collaborate with the above developers to agree how updated impact values (based on Statutory Nature updated project Conservation Bodies (SNCB) advice) can be efficiently 2 and Dogger Ba submission of th Examinations of all four projects progress.the more up to become available see response at the updated project Deadline 4.	response to RR)		estimates from the Five Estuaries, Dogger Bank South, and	assessments that
iterations of these assessments, we recommend the become available Applicant collaborate with the above developers to agree how updated impact values (based on Statutory Nature conservation Bodies (SNCB) advice) can be efficiently 2 and Dogger Ba incorporated into each other's assessments as the Examinations of all four projects progress.			North Falls projects. In order to minimise the number of	the more up to
Applicant collaborate with the above developers to agree how updated impact values (based on Statutory Nature updated projectConservation Bodies (SNCB) advice) can be efficiently incorporated into each other's assessments as the Examinations of all four projects progress.see response at updated project submission of th Deadline 4.			iterations of these assessments, we recommend the	become available
how updated impact values (based on Statutory Nature updated project Conservation Bodies (SNCB) advice) can be efficiently 2 and Dogger Ba incorporated into each other's assessments as the submission of th Examinations of all four projects progress. Deadline 4.			Applicant collaborate with the above developers to agree	see response at
Conservation Bodies (SNCB) advice) can be efficiently2 and Dogger Baincorporated into each other's assessments as thesubmission of theExaminations of all four projects progress.Deadline 4.			how updated impact values (based on Statutory Nature	updated project
incorporated into each other's assessments as the submission of th Examinations of all four projects progress. Deadline 4.			Conservation Bodies (SNCB) advice) can be efficiently	2 and Dogger Ba
Examinations of all four projects progress. Deadline 4.			incorporated into each other's assessments as the	submission of th
			Examinations of all four projects progress.	Deadline 4.
At the same time				At the same time
changes to the co				changes to the co
Applicant will s				Applicant will s
cumulative asses				cumulative asses

Table 6 Appendix H1 Natural England's Advice on Onshore Ecology

ID	Natural England Comment	Applicant Response
Preliminar	y Land Quality Risk Assessment [AS1-059]	
H1 para 2	In the updated Chapter 23 Appendix 1 Preliminary Land Quality Risk Assessment [AS1-059], the assessment notes ecological receptors to include water dependent Sites of Special Scientific Interest (SSSIs), some of which underpin designated sites within the National Site Network. However, Table 23.6 is missing some relevant water-dependent designated sites including The Wash SSSI, and Sea Bank Clay Pits SSSI. In addition, the Applicant has given no indication that the impacts to Functionally Linked Land associated with the mobile designated species of these SSSI's has been considered.	Whilst the Wash SSSI and Sea Bank Clay pits are not expl considered as part of the conceptual model and qualitatin Quality Risk Assessment (PLQRA). The PLQRA deals primari and it's immediate handling at source. The receptors ident the risk assessment were associated with local watercours close proximity to the site boundary. If the Wash and Sea be impacted as a result of pollution mobilised by the Proje would be through these local watercourses and drainage ne identified for the local watercourses and drainage network designated sites that they would ultimately hydraulically co Given the sensitivity of the water dependant habitats ident Sea Bank Claypit SSSI designated sites have been identifie flood risk chapter of the EIA (APP-077) and its associated a quality risk assessment. This includes the groundwater quality management and mitigation plan which will form pa (COCP), as provided for in the outline CoCP [PD1-038] for Claypit SSSI designated sites. Potential impacts on the designated bird species of The V been considered within Section 22.8 of the Chapter 22 (AP



nse

wishes to highlight that Natural England's of the Applicant's comment was not as the ded.

s intending to update the in-combination at were presented at application to include o date values from other projects which e during the course of the Examination (also Q1. HRA.1.3). The Applicant considers that position for key projects (such as Rampion ank South) will be available in time for the he updated in-combination assessment at

e, the Applicant will consider any potential conclusions made in the ES. If required, the submit an updated ES chapter, including ssment, thereafter.

licitly stated in Table 23.6, they have been ive risk assessment in the Preliminary Land ily with terrestrial sources of contamination tified to be at potential greater sensitivity in ses and drainage networks within relatively a Bank Claypit SSSI designated sites were to ect, the primary pathway for such pollution networks. As such, the mitigation measures ks would also therefore be protective of the connect into.

tified however, the impacts to the Wash and ied and assessed within the hydrology and appendices, rather than the preliminary land risk assessment (APP-210) and the water art of any final code of construction practice r the protection of the Wash and Sea Bank

Wash SSSI and Sea Bank Clay Pits SSSI have PP-077).

ID	Natural England Comment	Applicant Response
H1 para 3	Natural England advises that the Land Quality Risk Assessment is updated to include these designated sites to inform appropriate mitigation where impacts are identified in the Code of Construction Practice (CoCP) management plan	Recommendations are provided in Section 23.7 (page 67 of implemented within the CoCP for the protection of the sensitive habitats which they connect to). Due to the water mitigation measures are detailed within the hydrology and its associated appendices; which includes the groundwater quality management and mitigation plan which would for practice
H1 para 4	Natural England also advises updates to the Land Quality Risk Assessment should ensure that designated sites within the National Site are included to inform the Report to Inform Appropriate Assessment [AS1-096] Habitat Regulations Assessment (HRA).	Relevant Special Protection Areas (SPAs), Special Areas of been included in the Report to Inform Appropriate Assess Section 9.5.3.3 of the RIAA (AS1-096) already considers although the Sea Bank Clay Pits SSSI has been referred to a same site.
Outline Co	de of Construction Practice [PD1-039) – Water Quality Management and Mitigation Plan (WQMMP))
H1 para 5	Natural England welcomes the addition of a Water Quality Management and Mitigation Plan (WQMMP) within the Outline Code of Construction Practice (CoCP) [PD1-039]. We note that this includes commitments by the Applicant for mitigation and monitoring to be implemented to manage any potential impacts to Sea Bank Clay Pits SSSI during construction However, the Outline CoCP does not provide any details on the specific mitigation measures that will be implemented, if an impact is identified (e.g., pollution, de-watering). As such, Natural England is not able to assess the feasibility and suitability of any mitigation.	As outlined in the Outline Code of Construction Practice (C will be submitted prior to construction which will set out t to the quality and quantity of groundwater and surface construction phase of the Project. The Groundwater Risk Assessment (GWRA) (APP-210) con regime at Sea Bank Clay Pits SSSI is considered to be mine outlined within Section 24.7.4 of the GWRA (APP-210). It is Clay Pits SSSI is undertaken throughout the construction p phase from landfall. In the highly unlikely event that a nota at the SSSI, any dewatering activity at landfall would be ce or suitable mitigation can be put into place.
H1 para 6	Whilst we note the Applicant intends to provide full details of mitigation measures within the CoCP prior to construction; we advise as the regulator for SSSIs that information outlining the mitigation should be provided at the consenting phase to demonstrate that mitigation measures can be implemented. As advised in our relevant representations, we would then expect to be consulted on this by the Local Planning Authority (LPA)/ Marine Management Organisation (MMO) on the final WQMMP in the CoCP prior to construction, with full details on the identified mitigation measures and designated sites listed to ensure the efficacy of the proposed mitigation measures.	Potential mitigation measures have been outlined in the A Requirement 18 (Code of construction practice) of the o secures the CoCP requires the relevant planning aut Lincolnshire County Council, the Environment Agency, the and the MMO therefor NE, as the statutiry nature conser which will include the final WQMMP.



of the PLQRA) in relation to mitigation to be he water environment (and thereby water er dependence of these habitats, the required ad flood risk chapter of the EIA [APP-079] and ter risk assessment (APP-210) and the water orm part of the future code of construction

f Conservation (SACs) and Ramsar sites have sment (AS1-096).

the The Wash and Sea Bank Clay Pits SSSI, as Wolla Bank Pit, which is located within the

OCoCP) (document 8.1 version 3) a WQMMP the methods to monitor and control changes water which could be impacted during the

ncluded the impact on the local groundwater nor. Monitoring and mitigation measures are is recommended that monitoring of Sea Bank period for landfall and the initial onshore ECC table drop in water levels or flows is recorded eased until appropriate assessment of impact

Applicants response to H1 para 5 above.

draft DCO (document 3.1, version 5) which thorities to consult, as appropriate, with relevant statutory nature conservation body rvation body, will be consulted on the CoCP,

ID	Natural England Comment	Applicant Response
Schedule o	of Mitigation v2 [PD1-059]- Bats	
H1 para 7	Natural England welcomes the commitments in the Schedule of Mitigation v2 [PD1- 059] for the retention and protection from direct impacts for hedgerows 186, 1405, 1541 and 1931, in addition to Trees 4217 and 4954.	This comment has been noted by the Applicant.
H1 para 8	Furthermore, Natural England is pleased to see the Applicant has made a commitment to minimise impacts on migrating Nathusius and other bat species, by minimising night-time working. The Applicant states should night-time working be deemed necessary, all lighting will follow a sensitive lighting design as per the IPL and BCT Guidance Note 08/23 and avoid key bat habitat, e.g. hedgerow	This comment has been noted by the Applicant.
H1 para 9	Within the Schedule of Mitigation [PD1-059], for commuting and foraging bats the Applicant has stated hedge gap filling will be done overnight between April and October to reduce impact to flights lines. However, it is important to note that depending on local weather conditions many bat species may be active through November and into early December and may emerge from hibernation in March. There are also species such as barbastelle that may be active for periods throughout the winter. If there are sections of hedgerows to be removed and evidence indicates (via remote detectors/activity surveys etc.) they may be used for commuting by bats throughout the seasons, then Natural England would expect to see overnight hedge gap filling continued. We advise the mitigation measures are updated as appropriate.	This comment has been noted by the Applicant. The timi the Schedule of Mitigation (V3 submitted as part of Dead flightlines will be updated to reflect the recommendation year where required. An updated OLEMS will be submitte
Outline La	ndscape and Ecological Management Strategy V3 [PD1-056]- Species Licencing	
H1 para 10	Since our Relevant Representations [RR-045], Natural England has issued the Applicant with a Letter of No Impediment (LoNI) for Great Crested Newts (GCN) and water vole	The Applicant has received Letters of No Impediment for
H1 para 11	However, for both Otter and Badger, Natural England has not been asked by the Applicant to provide a LoNI. Instead, as stated within the Outline Landscape and Ecological Management Strategy (OLEMS), the Applicant is relying on a A45 licence for Otters only. Natural England agrees that avoidance measures should be applied in the first instance for both species. However, as the scheme progresses, and where the avoidance of impacts is not possible Natural England would welcome discussions over a licensed mitigation approach for both Otter and Badger. In addition, agreement on outline mitigation measure strategies which could be implemented if required, should be sought during the consenting phase to give the Secretary of State comfort that effective mitigation measures can be implemented	The OLEMS (PD1-057) sets out the latest survey and desig the mitigation measures committed to are implemented, Otter or Badger. Mitigation strategies are presented with Outline mitigation strategies to prevent offences in relatio Annex A.4 of the Outline Landscape and Ecology Miti employment of an ECoW, pre-commencement surveys, se and control of lighting, localised reduction of traffic speed of habitats, as well as the installation of visual and acou activities at two sensitive locations. With this collective effectively minimised, rendering it unnecessary to apply for predicted. Outline mitigation strategies to prevent offences in relatio
		and Annex B (section A.6.4) of the Outline Landscape a Annex B provides the results of the most recent badge mitigation measures include exclusion zones around sett



ings stated within the OLEMS (PD1-057) and adline 2) relating to the provision of artificial ns i.e. these will be provided throughout the ed at Deadline 3

Great Crested Newts and Water Vole.

gn information and concludes that, assuming , no licensable impacts are likely to occur for hin the OLEMS (PD1-057) for both species.

on to otter are presented in Section 3.7.8 and igation Strategy (PD1-057). These include ensitive scheduling of work, minimising noise eds to 10mph, the immediate re-instatement ustic screening during potentially disturbing e mitigation in place, disturbance levels are for a A45 licence, as no disturbance offence is

tion to badger are presented in Section 3.7.7 and Ecology Mitigation Strategy (PD1-057). ger survey (dated July 2024). In summary, ts, the protection of individual badgers (e.g.

ID	Natural England Comment	Applicant Response
Natural Er	ngland's Advice on Biodiversity Net Gain (BNG)	through the installation of escape planking in deep trenches locations. Annex B concluded that with appropriate mitig predicted and therefore a letter of no impediment would r Section 3.5 states that <i>"The results of the pre-commend whether any updates to the measures proposed in Sections are required and the EMP would be updated to reflect the su analyse the pre-commencement survey results and work understand whether an offence under the Wildlife and Cou ECoW considers that an offence under the Wildlife and appropriate licence would be applied for at that time. Further, Section 3.7.7.1 of the OLEMS (PD1-057) co commencement surveys to provide up-to-date survey Reasonable Avoidance Measures (RAMS) to be included i Pre-construction survey would include territorial analysis u that a main sett is identified as likely to be impacted. All of these measures, which are secured through Requi mitigation of potential effects on otter and badger, and sh effective mitigation will be implemented, if required.</i>
H1 para 12	We note the Applicant's additional submissions since application have specified they will follow standard best practice. Once the Applicant has secured their commitment to BNG in the OLEMS and thus the DCO, we consider our concerns raised at relevant representations resolved. Natural England has no further comment to make during application.	This comment has been noted by the Applicant.

Table 7 Appendix H2 Natural England's Advice regarding Soils

ID	Natural England Comment	Applicant Response
Summary o	of Advice	
H2	Natural England's advice remains unchanged as per Appendix H to the Relevant and Written	As set out in the Applicant's response to Relevant Represe
Summary	Representations of Natural England [RR-045], regarding pre-consent surveys for Agricultural Land	survey would most likely lower the identified ALC grades in
	Classification (ALC) Grade and the requirement for further assessment of Deep Peat presence. In	Grade 3 into 3a and 3b classifications, 3b thereby being e
	the absence of a detailed, site-specific soil and ALC survey and assuming that all mapped ALC	therefore that the ES demonstrates a worst case scenario
	Grade 3 land is BMV (i.e. Subgrade 3a), it is impossible to provide an accurate baseline and	
	demonstrate the likely potential impacts. Without these surveys the Applicant cannot	
	demonstrate how the project will avoid or minimise impacts on best and most versatile (BMV)	The Applicant's position is that it is not common practice f
	agricultural land nor the design of potential mitigation to safeguard the soil resources. These	consent process, and these surveys will be carried out
	surveys are required as part of the consent process for Outer Dowsing Offshore Windfarm.	response to para 7 below.



es) and acoustic and visual screening at three igation in place, no impacts on badger are not be necessary.

cement surveys would be used to identify s 3.6 - 3.9 or additional mitigation measures urvey results, as required." The ECoW would rk closely with the principal contractor to untryside Act 1981 would be possible. If the nd Countryside Act 1981 could occur, the

commits the Project to undertake preinformation to guide the production of in the Ecological Management Plan (EMP). using the bait-marking method in the event

uirement 12 of the DCO, provide effective hould provide the ExA with confidence that

entations (PD-071) the undertaking of an ALC in some sections to non BMV due to splitting excluded as BMV. The Applicant's position is o of the impacts on BMV.

for ALC surveys to be required as part of the post consent, as set out in the Applicant's

ID	Natural England Comment	Applicant Response
Developm	ent on Peat	
H2 para 1-3	England's peatlands are our largest terrestrial carbon store and are vital for capturing and storing carbon. They provide a range of other valuable benefits including biodiversity rich ecosystems, improved water quality and natural flood management, the protection of historic environment features and connect people with nature.	A review of publicly available data confirmed that no peat Project, as shown on Figure 23.2 Superficial Geology in C Figures (APP-078). The majority of the route comprises ar contain peat. The 'Peat Coverage' dataset presented on the deposits within the Order Limits. The peat references w descriptions of the recorded soil types, which is sourced to
	Following the publication of the England Peat Action Plan (England Peat Action Plan, May 2021) and the Greater Manchester (GM) Peat Pilot, Natural England has a better understanding of the impact of carbon loss from damaged and unmanaged peat as well as the opportunity costs of not restoring peat as functioning ecosystem. The England Peat Action Plan states 'We want our peatland to meet the needs of wildlife, people, and the planet. All uses of peatland should keep the peat wet and in the ground. We will work to ensure all our peatlands, not just deep or protected peat, are responsibly managed, or, in good hydrological condition or under restoration management.'	references to 'peaty surface' indicate that the soil m decomposed organic matter. Peaty surfaces do not neces peat. The baseline information and methodology for assessme Groups (ETGs), copies of the minutes for which have been 149). The Applicant has received no comments or object baseline environmental data during these meetings, a regarding peat nor raised any concerns regarding the base were invited to participate in the ETGs and received copies
	Natural England therefore does not support the principle of development on any peat soils, and strongly advises maximising the extent of peat omitted from the development footprint and highly recommend retaining peat in situ. We advise that in the absence of detailed survey's it will not be possible to avoid impacts on deep peat.	The requirement for a Peat Management Plan, which we identified during post consent soil surveys, will be added to surveys peat is identified, a Peat Management Plan will be of the National Planning Policy Framework (2023), the En- support framework for peatland protection, the establishm of existing woodland on peatland in England (2023).
Agricultura	al Land Classification	
H2 para 4	Due to the extent of the temporary disturbance from many developments and the drive to maintain and strengthen BMV protection as set out in the 25 Year Environment Plan, It is considered important for a detailed ALC field survey to be undertaken in line with the MAFF 1988 'Agricultural Land Classification of England and Wales: Revised criteria for grading the quality of agricultural land'. The potential impacts of temporary disturbance on soils and BMV land should be considered.	The Applicant has committed through the oSMP to carryin to inform soil management, storage and restoration metho health and condition through temporary disturbance. ALC the methodology set within the MAFF 1988 'Agricultural Revised criteria for grading the quality of agricultural land
H2 para 5	A detailed ALC and soil survey of the agricultural land should be undertaken across the full Study Area to inform the Environmental Impact Assessment (EIA) as a single field effort. Both surveys can be undertaken at the same time drawing on the same 3 information, avoid duplication of survey effort and be available to inform design, EIA and environmental management plans.	It is intended that the detailed ALC field survey as described and the final Soil Management Plan, which as described (oSMP) will be undertaken pre-construction.
H2 para 6	Detailed soil and ALC data is necessary to provide a baseline for the ALC grade as well as soil properties to inform soil handling. This is important for areas of permanent and temporary land take. The inappropriate management of the soil resource can result in a permanent degradation of the land, including a change in the ALC Grade, which can ultimately result in the permanent loss of BMV agricultural land. Appropriate mitigation to prevent the potential loss of BMV land (including the degradation of agricultural land through inappropriate soil handling) includes the	Although the Applicant agrees with Natural England's po defining soil properties and thus informing appropriate construction, the applicant does not agree that such surv granted. As illustrated below there are numerous examp Projects being consented with the commitment to underta



t was present within the 'Order Limits' of the Chapter 23 Geology and Ground Conditions rable farmland which, by its usage, does not the UK Soil Observatory does not indicate peat within the existing environment section are from the UK Soil Observatory datasets. The may contain a layer or layers of partially ssarily mean that the overarching deposit is

ent was presented during the Expert Topic n submitted as Appendix 6.1 of the ES (APPections from stakeholders in respect of the and no stakeholders provided information paseline environment data. Natural England es of the minutes.

yould be produced in the event that peat is to the OCOCP. If during pre-construction soil e prepared, taking into account requirements ingland Peat Action Plan (2021); and Decision ment of new woodland and re-establishment

ng out detailed pre-construction soil surveys nods, in order to minimise the impacts to soil C field surveys will be undertaken following I Land Classification of England and Wales: I'.

ed above will be used to inform final design, d within the outline Soil Management Plan

position that ALC surveys are important for te soil handling and reinstatement during vey data is necessary prior to consent being uples of Nationally Significant Infrastructure take ALC surveys post-consent secured via an

ID	Natural England Comment	Applicant Response
	restoration of disturbed land to the baseline ALC Grade. In the absence of a characterisation study informed by a detailed soil and ALC survey, the restoration cannot be assured.	outline plan, of which a final plan must be submitted to authority prior to commencement of development.
		Undertaking ALC surveys prior to determination would n the mitigation proposed, but would impose a financial bu disproportionate to the outcome that would be achieved the findings of the ALC surveys can only be determined for contractor has been appointed. As such, even if ALC surv not be possible to design soil mitigation required as state be bespoke to the soil conditions in the locations where t
		It is for these reasons that the Applicant has committee consent has been granted. The commitment to undertake (PD1-040). Requirement 31 (Soil management plan) of requires a soil management plan (which must accord we besubmitted to and approved by the relevant planning County Council prior to any stage of the onshore works co
H2 para 7 In AL th El	In some circumstances, pre-construction, ALC surveys are required in the absence of pre-consent ALC surveys. This is usually due to the inability to access sections of a site pre-consent. However, this is usually a small area of site, with the remaining land subject to an ALC survey to inform the EIA.	The Applicant has always committed to detailed soil procedure adopted by other projects has been followe scenario has been adopted, with detailed surveys management and restoration.
		There are examples available of Nationally Significant Secretary of State, all of which will have received a similar
		Hornsea Project Four Offshore Wind Farm Volume A3, C stated in Table 6.4 "assessments have been based on the available ALC data is 3a (not 3b) – thereby falling in to the and protective approach which overestimates the area of surveys are not required". Commitments were made in the Plan for the mitigation measures in relation to agricu commencement soil surveys. As part of responses to Ho England stated "The publicly accessible ALC data is main and also to help determine survey effort and methodolo ALCs surveys were part of the assessment. However, we surveys and mitigation, and consider that this is adequat The Statement of Common Ground between the Hornsea August 2022, REP7-062, Page 22, Table 7 – G3.5-6.1.3) s



o and approved by the relevant discharging

not change the outcome of the EIA or any of urden on the Applicant at this stage, which is d. The final mitigation which would draw on ollowing detailed engineering design, once a rveys were undertaken pre consent it would ed by Natural England as the final plan would the final infrastructure will be sited.

ed to undertaking these surveys once DCO ke ALC surveys is set out in the outline SMP of the draft DCO (document 3.1, version 5) with the outline soil management plan) to g authority in consultation with Lincolnshire ommencing.

surveys through the oSMP for which the ed. In regards to BMV land, the worst-case required pre-construction to inform soil

It Infrastructure Projects approved by the representation from NE, as detailed below.

Chapter 6: Land use and Agriculture Chapter e assumption that all Grade 3 land within the e BMV category. This is a highly conservative f BMV land. As such it is considered that ALC the Outline CoCP and Outline Soil Management ultural land and soils, which included preornsea ExQ1 in March 2022 – SEL 1.5 Natural hly to aid strategic and scoping assessments, ogy. We would therefore have preferred it if e are satisfied that there is a commitment to te to prevent significant harm to BMV soils." a Project Four and Natural England (Dated 10 similarly demonstrates that NE preferred an

ID	Natural England Comment	Applicant Response
		approach that includes ALC surveys to be undertaken pric "we [Natural England] are satisfied this can be dealt with a
		Sheringham Shoal and Dudgeon Offshore Wind Farm undertaken and submitted during the currency of the 2011 2023 NPS documents were published during the examina ALC surveys pre-consent. As part of the assessment they a and therefore BMV, therefore assuming a worst case a Secretary of State mentioned in their decision (section 4.3 would have changed the decision.
		<u>Viking CCS Pipeline.</u> Policy referenced at the time was differences within the draft NPS documents published in Environmental Statement, Volume II - Chapter 10: Agri Pipeline APP-052). The chapter, paragraph 10.4.20 states in conjunction with aerial photography to identify any la mapping was undertaken to obtain a more robust baselin the assessment the provisional ALC mapping and the post undertaken.
		<u>Triton Knoll Offshore Wind Farm</u> has been used within regard to soil types. The ExA's Report of Findings and Cor that the order was recommended to be granted using sole Grade 3 is not broken down into subgrades), with no furthe
H2 para 8	In the pre-application phase, Natural England clearly set out advice to the Applicant on Assessing BMV agricultural land specifying that detailed surveys should be carried out and that a worst-case scenario was an unsuitable approach. Subsequent advice was presented in our Relevant Representation's in Appendix H [RR-045] stating the ES should present 'site specific', both detailed and semi detailed ALC surveys to inform the decision maker in their application of NPS EN-3. This remains our position.	The Applicant has noted Natural England's comments, the responses noted above.

Table 8 Appendix I1 Natural England's Advice on Onshore Ornithology

ID	Natural England Comment	Applicant Response
Summary	of Advice	
	Natural England welcomes the provision of the second year of onshore bird survey data [AS1-108].	The Applicant is pleased to note Natural England's accept
	Having reviewed this data in light of the first year of bird data, we do not agree with the Applicant's	survey data. The Applicant will consider additional advice o
	assessment of significance of impacts on SPA interest features namely Pink Footed Goose, Dark	position is that the assessment of adverse effects on
	Bellied Goose, Golden Plover, Lapwing and Curlew whilst located within Functionally Linked Land	appropriately and that the proposed measures are adequ
	(FLL) to The Wash SPA/Ramsar. We also believe that further mitigation measures could be adopted	SPA/ Ramsar. More details are provided in the individuation
	to minimise the impacts. We will review all the mitigation measures included within various	submitted responses to Natural England Relevant Represer



or to DCO determination, but accepted that as part of a planning condition."

Extension Project. The assessments were 1 NPS policy documents, however the revised ation period. This project did not undertake assumed all land Grade 3 could be Grade 3a scenario. It is important to note that the .3) that there is nothing in the new NPS that

s the NPS EN-1 (DECC 2011) However, any in November 2023 were highlighted within riculture and Soils (EN070008 – Viking CCS s that the provisional ALC mapping was used and use change and development since the ine for soils and agricultural land. To inform it 1988 ALC data were used, no surveys were

representations as a comparative route in nclusions issued on 3rd June 2016 indicates ely provisional ALC data (the indication being er indication that ALC Surveys were required.

the Applicant's position is as set out in the

otance of the second season of winter bird on the mitigation measures. The Applicant's The Wash SPA/ Ramsar was carried out uately tailored to maintain integrity of the ual responses below, further to previously entation (RR-045 Natural England Appendix I

ID	Natural England Comment	Applicant Response
	documentation in order to provide further advice on mitigation requirements to avoid an Adverse Effect on Integrity. Currently, there is minimal resolution on the risks and issues presented on our Joint Relevant/Written Representation [RR-045]. Please see Appendix J of written representation to track issue resolution	Onshore Ornithology) (PD1-071) (I1-I5), and in relation to This includes the additional information requested by Nat in 13.2 Addendum Winter Bird Survey 2023-2024 (AS1- Additional Clarifications Relating to Natural England's Re 093). This shows that the most common crop types utilis found to be bare/ploughed land, cereal crops, grass and st these crops are common and widespread within the Order in the widespread distribution of pink-footed goose, lapwin mitigation set out in the EIA and RIAA specifically regarding as it means that alternative foraging resource will remain a
[AS1-108]	13.2 Addendum Winter Bird Survey 2023-2024	
l1 para 1	Natural England welcomes the provision of the second year of onshore bird survey data [AS1-108]. And confirms that a sufficient level of data has now been provided by the Applicant to characterise passage and over-wintering bird usage of FLL at the landfall and along the ECC.	The Applicant welcomes this comment.
Compariso	on between first and second year of wintering bird data	·
l1 para 2	Natural England notes that there is a significant increase in SPA Pink Footed Goose (PFG), golden plover, lapwing and curlew flock sizes between 2022/23 and 2023/24. These increases range from 2,205% increase for PFG and 83% increase for Curlew. Within AS1- 108 the Applicant contests that these differences are not significant because there is no significant change in the distribution and number of flocks, concluding that mitigation measures remain fit for purpose due to birds only utilising fields for a short duration, with no specific preference. However, Natural England advises that with more birds being reliant on FLL there is heightened sensitivity to disturbance. This is particularly true along the ECC running parallel to A52 and then around the RSPBs Freiston and Frampton nature reserves, the Rivers Witham (the Haven) and Wellend.	 The Applicant acknowledges that the size of the individies designated pink-footed geese, golden plover, lapwing an Survey 2023/24 were larger than in 2022/23 (AS1-108). High proposed mitigation, in the form of seasonal and localised. This takes into account the following: A total of 27 and 23 records of pink-footed goose were bird surveys respectively during 14 visits between September and April (202 visit in 2022/23 and 1.4 flocks per visit in 2023/24 ranging between zero and three flocks per visit. In recorded, pink-footed goose were recorded during nine ECC sections (out of 14) with most of the sight suggests that pink-footed goose were using the Su distributed and widely available food resources. Apart from golden plovers, which were recorded througl widespread across the whole Survey Area. However ten golden plover flocks were recorded, and two an lapwing and curlew were recorded respectively. The utilise very few fields at any one time in the contex cases, flocks were recorded at specific locations on have widespread distributions utilising widely avail The survey results are considered in the context of the cable corridor where work will be carried out at an habitat within the Order Limits and in the wider arrival.



b Habitat Regulation Assessment (H47-H49). tural England in relation to crop preferences -108) and crop availability and rotation in elevant Representations (Appendix I) (PD1ised by the five key qualifying species were tubble (fallow land). PD1-093 evidences that er Limits plus 400m buffer, which is reflected ing, golden plover and curlew. Therefore, the og a localised working restriction is sufficient, available.

idual flocks of the The Wash SPA/ Ramsar nd curlew recorded during the Winter Bird However, the Applicant's position is that the d working commitments, remains sufficient.

e recorded in 2022/23 and 2023/24 winter September and March (2022/23) and 23/24). **This is on average 1.9 flocks per 4 along the 70km Order Limits plus 400m,** n 2023/24 season when larger flocks were g only seven visits (out of 16) and within ting locations recorded only once. This rvey Area infrequently, utilising evenly

ng only six of 16 visits during the 2023/24 hout the season and all three species were er, there was only one visit when more than and four visits when more than 15 flocks of his suggests that these species typically ext of the whole 70km Survey Area. In most halv once suggesting that the three species lable food resources along the Survey Area. The 70km Order Limits, the proportion of the hy one time and availability of alternative rea:

ID	Natural England Comment	Applicant Response
		 As stated in the EIA report (APP-077) paragraph February inclusive will be carried out by severation the route, such as joint bay or link box installation installation (pulling of cables through pre-instance works (e.g. cable testing). Assuming a works a sites, this would account for approximately 1,0 the cable corridor at any one time. Activity on be confined to the operatives taking daily acce the use of a haul road and moving the drilling any location is complete".
		 As stated in the updated Outline Landscape ar (OLEMS) (AS1-103) paragraph 153: "For conver- methodologies involving soil handling, the prind October. During November to February period, crossing sites and joint bays that can be access standings. No trenched excavation works for a throughout November – February".
		 As stated in the updated (OLEMS) (AS1-103) p for The Wash SPA and Ramsar, comprising a se activity, to avoid works during the period of O The Wash SPA, will reduce the potential distur
		 As stated in the Additional Clarifications Relati Representations (Appendix I) with regards to o utilised types of crop by the four qualifying fea most common and widespread within the Ord
		Natural England advises that it is particularly true that the following locations: the ECC running parallel to A52 and then nature reserves, the Rivers Witham (the Haven) and Wellend the Order Limits and only exclude the section between Skegr furthest away from The Wash SPA and Ramsar. This desc description in the Season 2 Addendum (AS1-108), which de the survey area for pink-footed goose, golden plover, lapwin
		Natural England advises that with more birds being reliant of disturbance. The proposed mitigation remains effective how area relative to the foraging ranges of these species is affected habitat remains available (as evidenced in PD1-093).



raph 250: "...works between November to eral small teams at discrete locations along illation, trenchless crossings, cable astalled ducts) and other non-intrusive earth is area of 100m at these sites and 10 active 1,000m of works or (1km/70km) or **1.4%** of on the remaining 98.6% of the corridor will ccess to the work site where this involves ng plant to the next site once the work at

e and Ecological Management Strategy nventional cross-country construction primary construction period is March – iod, works will continue at trenchless cessed by temporary haul roads and hardpr duct installation will be undertaken

B) paragraph 149: "The additional mitigation a seasonal restriction to construction f October to March inclusive within 400m of turbance impact to this species".

lating to Natural England's Relevant to crop availability (PD1-093) the most features discussed here were also the Order Limits plus 400m.

there are more birds reliant on FLL in the en around the RSPBs Freiston and Frampton end. These areas encompass the majority of egness and the landfall, which is the section escription therefore corresponds with the describes a widespread distribution across ving and curlew.

t on FLL there is a heightened sensitivity to owever, as they will ensure that only a small cted at any one time and alternative foraging

ID	Natural England Comment	Applicant Response
		In summary, the Applicant's position is that the proposed sufficient to maintain the integrity of the Wash SPA/ Ramsa cable corridor will be left without construction activity February; (b) a very small proportion of fields within the four species at any one time; (c) potential disturbance will large areas of alternative foraging habitats exist within the foraging range of the estuary).
Mitigation	Measures	
l1 para 3	Natural England advises that the principal mitigation measure for overwintering birds is a seasonal restriction to avoid disturbance during sensitive periods. However, where that is not possible management plans will be required to ensure Adverse Effects on Integrity can be avoided. Natural England aims to provide further advice on the feasibility and effectiveness of the Applicants proposed mitigation measures at the next suitable deadline.	The Applicant will consider further advice on the proposed 2, above, for justification for the proposed mitigation strat
Preference	es within Functionally Linked Land	
l1 para 4	Natural England advises that there is likely to be inter-annual variation in FLL preference locations due to crop rotation, environmental factors and disturbance. Generally, there is a trend for an increased number of species and abundance the closer to The Wash, in the vicinity of freshwater courses and RSPB Nature reserves, something which the Applicant has identified may require more intensive mitigation measures. However, for some species such as PFG it has been observed by the Applicant that there is a preference to forage within fields of winter wheat. This information is critical to determining management measures to minimise impacts from loss/reduction in available FLL particularly where seasonal restrictions have not been presented as a mitigation option. Natural England will advise further on this at the next suitable deadline.	The Applicant's position is that the alternative suitable hab plover and curlew will remain available, in relation to the a resulting from construction works along the cable corridor of habitats. As presented in the Additional Clarifications Relating to N (Appendix I) with regards to crop availability (PD1-093), th qualifying species of The Wash SPA/ Ramsar were bare ea Sample crop survey within the Order Limits plus 400m sho ground/ ploughed and stubble fields is the second most co an estimated 926 ha. Wheat and grass are the first and the Order Limits plus 400m with an estimated coverage of 2,915 were evenly distributed along Order Limits plus 400m with Wheat and grass were also most common within samp database covering up to 18km from the Wash SPA/ Ramsa 12,251 ha of grass in the three reference years (2019, 202 sparsely vegetated land represented on average 8,149 ha i Therefore, the Applicant's position in relation to the temp disturbance displacement, is as set out in PD1-093 paragra
		and RIAA specifically regarding a localised working restric resource will remain available".



d mitigation measures in relation to FLL are sar because: (a) a total of 98.6% of the 70km at any one time between November and Order Limits plus 400m are utilised by the II be temporary and highly localised; and (d) he Order Limits and the wider area (within

ed mitigation measures. See reply to 11 para tegy.

bitats of pink-footed goose, lapwing, golden area of temporary loss of agricultural habitat r and considering an ongoing reinstatement

Natural England's Relevant Representations he favoured crop types used by the five key arth/ ploughed fields, cereals and grassland. nowed that fallow land, which includes bare pommon land use type (after wheat) covering he third most common crop types within the L5 ha and 700 ha respectively. All these crops h a total estimated area of 4,541 ha.

ble crop polygons taken from the CROME ar, with an average 14,141 ha of wheat and 20 and 2021). Fallow and non-vegetated or in the three reference years.

aporary loss of FLL, including from potential aph 11 that "the mitigation set out in the EIA ction is appropriate, as alternative foraging

ID	Natural England Comment	Applicant Response
Dark-bellie	ed brent goose	
Dark-bellie	Natural England welcomes the additional mitigation measures for dark-bellied brent geese. The mitigation measures include, avoiding work around the Haven, between October and March, to avoid disturbance to dark-bellied brent geese in this hotspot area. In addition, works within 400m of the Haven during April, will be limited to soft start works, and no drilling will take place in April. But, the Applicant states that vegetation clearance and maintenance works, could occur between October to March seasonal restricted area. Natural England will consider if further real time mitigation measures could be adopted if DBBG are located outside of the seasonal restriction area.	The Applicant is pleased to note that Natural England welco With regards to vegetation clearance, as stated in the in Of to March seasonally restricted area works would be limited in order to avoid clearance during the nesting bird season ar nests within the working area. Usual agricultural operati survey works would also be permitted within the seasonally Vegetation clearance and maintenance work will be under restricted area where trenched works will take place. The (APP-113) and are located further away from the River Have employing an Ecological Clerk of Works (ECoW) to under vegetation clearance works commencing in a discreet area.
		brent geese are present within 400m of the area to be commenced, they will continue until works have been com will be added to the OLEMS. An updated OLEMS will be sub In relation to dark-bellied brent geese occurring outside paragraph 50 states "A notable flock was recorded in a new cluster around The Haven, on a single occasion, utilising cer mitigation, including a commitment to localised working, wi the hotspot at the Haven".



comes this additional mitigation measure.

OLEMS paragraph 152: "Within the October d to vegetation clearance and maintenance, and to minimise the risk of birds establishing ations will continue. Essential non-intrusive ly restricted periods".

ertaken in those sections of the seasonally nese sections are presented on Figure 22.4 ven. Nonetheless, the Applicant commits to dertake a survey for brent geese prior to a. No clearance works will commence whilst be cleared. Once clearance works have ompleted in that location. This commitment ubmitted at Deadline 3.

e of the seasonal restricted area, AS1-108 w location in ECC 10, further away from the ereal fields. It is considered that the existing will minimise disturbance impacts outside of

3 Applicant's Responses to the MMO's Deadline 1 Submissions

Table 9 MMO's Deadline 1 Submission

ID	MMO Comment	Applicant Response
Marine Plans		
1.1.1	The MMO acknowledges that the Applicant has produced a Policy Compliance Document (AS-012). Section 6, Table 1 includes an assessment of Marine Plan Policies. The MMO welcomes the signposting provided by the applicant and considers that the creation of an additional document would be duplication. However, policies E-ECO-1 and E-TR-3 appear to be missing.	 The Applicant welcomes the MMO's support of submitted as a response to the Rule 17 Letter. The Applicant agrees with the MMO that the sub duplication. In relation to policies E-ECO-1 and policies are directed at decision / plan makers but E-ECO-1 – "Cumulative impacts affecting adjacent areas (marine, terrestrial) should implementation." Although the Applicant implementation, cumulative impacts affecting plans and adjacent areas have been consist Statement (ES) in each of the assessment cumulative effects is set out in Appendix 3 Approach (APP-147) and Appendix 3 Onsh Approach (APP-148) E-TR-3 – "Proposals that deliver tourism and or reconsidered relevant for the Applicant to communities adjacent to the East marine
Timing of Works		
1.2.1	The MMO notes condition 13(1)(b) of Schedules 10 and 11 which details the submission of a Construction Programme to the MMO. We have made a further comment regarding this in point 1.20.2 below.	Please refer to the Applicants response to 1.20.2
Unexploded Ordinance		
1.3.1.	The MMO notes that the Applicant has stated that they are not seeking consent at this stage for the investigation of and clearance of Unexploded Ordinance (UXO) due to the degree of uncertainty regarding the number of UXO which require clearing.	The comment is noted by the Applicant.
1.3.2	1.3.2. The MMO notes the Applicant intends to apply for a marine licence application for the investigation of potential UXOs and their clearance prior to the commencement of offshore construction. A formal UXO Clearance Marine Mammal Mitigation Protocol (MMMP) will be drafted and submitted as part of the marine licence application. The MMO agrees with this approach.	The MMO's agreement of the approach is welcomed and the second seco
Arbitration		
1.4.1.	The MMO understands that arbitration does not apply to the MMO in this application. The MMO thanks the Applicant for clearly setting out that the Arbitration and Appeals procedures set out in the DCO do not apply to the DMLs. This is reflected in Article 38 (2):	The MMO's position on Arbitration and Appeals i



f the Policy Compliance Document (AS-012)

bmission of an additional document would be and E-TR-3, the Applicant understands these aut confirms as follows for completeness: *The ecosystem of the East marine plans and Id be addressed in decision-making and plan* t is not the decision maker or plan ecting the ecosystem of the East marine sidered throughout the Environmental t chapters. The approach to assessing 2 Offshore Cumulative Effects Assessment shore Cumulative Effects Assessment

and/or recreation related benefits in plan areas should be supported." As the recreation related benefits, this policy is not comment on.

below.

med by the Applicant.

is welcomed by the Applicant.

ID	MMO Comment	Applicant Response
	<i>"38(2) Any matter for which the consent or approval of the Secretary of State or the Marine Management Organisation is required under any provision of this Order shall not be subject to arbitration."</i>	
Transfer of Benefit of t	the Order	
1.5.1	The MMO position in RR-042, points 3.4.1 - 3.4.5 has not changed. The MMO disagrees with the Applicant stance on this. The MMO is reviewing the comments made and will respond in due course.	The comment is noted by the Applicant.
Materially		
1.6.1	The MMO notes the Applicant's response and is reviewing the comments made and will respond in due course.	The comment is noted by the Applicant.
Determination Dates		
1.7.1	 Schedule 10 and 11, Part 2, Condition 14(4), includes a timescale to discharge documentation. (4) The MMO must determine an application for approval made under condition 13 within a period of four months commencing on the date the application is received by the MMO, unless otherwise agreed in writing with the undertaker. The MMO maintains that it is inappropriate to put a timeframe on decisions of such a technical nature. The MMO would not willingly seek to constrain our ability to make an appropriate decision on post consent sign-off of plans and documentation, we would never include such a restriction on any other consent. With such tight timeframes, the MMO cannot be confident that all concerns during consultation can be sufficiently addressed. 	The Applicant notes that condition 14(2) of Part Consent Order (dDCO) provides for an approv otherwise stated. Following consultation with Narevised the draft DCO to increase the approval per which may have particular complexities, as re concern to the MMO, the MMMP (condition 13(1 and the SIP (Condition 22(3) of Part 2 of Schedule period (3.1).
1.7.2	The MMO understands that the Applicant wishes to ensure there is a specific time scale by which a decision is made, and that the decision does not continue without resolution. However, if discharge was not granted, the undertaker would have to provide updated documentation which would restart the process and potentially cause unnecessary delay.	The Applicant wishes to highlight that the provis 10 and 11 would apply in the event that the MM application for approval made under condition 1 four month period. As the wording of condition 1 MMO to agree a different period, the Applicant w documentation being required, this would be adjustment to the timescale would be made, rat refused and the process recommenced causing u
Maintenance Reportin	ng	
1.8.1	The MMO notes the Applicant's comments regarding Schedule 10 and 11, Condition 13(1)(h) of the DMLs which requires an Offshore Operations and Maintenance Plan (OOMP), in accordance with the outline OOMP, to be submitted to the MMO prior to commencement and resubmission every three years during the operational phase. As the Applicant states, this is a forward-looking document. The MMO's request was to have an annual maintenance report submitted every three years (and a summary in year five) to provide a record of the licenced activities during the preceding years. The MMO maintains that it is imperative that this is submitted in order to reconfirm the applicability of the methodologies and frequencies of the licensable activities permitted by the licence and provides valuable information on whether further marine licences are required throughout the lifetime of the Project.	The Applicant does not consider it necessary or a provision of an annual maintenance report to th Outline Offshore Operations and Maintenance F MMO where maintenance will take place, as such activities that have been undertaken under each of condition each deemed marine licence (excludin maintenance activities will take place) and prov Offshore Operations and maintenance Plan every DCO Schedule 10, Part 2, condition 13(h) DCO Schedule 11, Part 2, condition 13(h)



t 2 of Schedule 10 of the draft Development oval period of at least four months unless latural England and the MMO, the Applicant period from four to six months for those plans equested by Natural England. Of particular 1)(f) of Part 2 of Schedule 10 of the draft DCO) e 10 of the draft DCO) provide for a six month

sions of Condition 14(4), Part 2 of Schedules IO neither approved nor refused the relevant 13, Part 2 of Schedules 10 and 11, within the 14(4) specifically allows the Applicant and the vould anticipate that, in the event of updated requested by the MMO and a reasonable ther than the application for approval being innecessary delay.

appropriate to include a dML condition for the he MMO every three years. As set out in the Plan (APP-275), the Applicant will notify the ch the MMO will be aware of all maintenance dML. This provision is secured by the relevant ng Schedule 16 as no reasonably foreseeable ovides for a review and resubmission of the ry three years. This condition is secured in:

ID	MMO Comment	Applicant Response
		DCO Schedule 12, Part 2, condition 11(f) DCO Schedule 13, Part 2, condition 11(f) DCO Schedule 14, Part 2, condition 11(f) DCO Schedule 15, Part 2, condition 11(f)
		The Applicant therefore considers that the MMM maintenance activities undertaken under each d MMO is unnecessary. NPS EN-1, paragraph 4.1.1 requirements should only be included where precise and reasonable. The Applicant considers conditions. The Applicant does not consider s reasonable.
Stages of Construction		
1.9.1	The MMO notes Schedules 10 and 11, Condition 13(1)(b) of which details the submission of a Construction Programme to the MMO. We have made a further comment regarding this is point 1.20.2 below.	Please refer to the Applicant's response to 1.20.2
Force Majure		
1.10.1	The MMO position in RR-042 point 3.9.1 has not changed. The Applicant maintains their position that the provision can be enforced alongside Section 86 of the Marine and Coastal Access Act (2009) as it is just a notification. The MMO is reviewing this response and will respond in due course.	The comment is noted by the Applicant.
Adaptive Management		
1.11.1	The MMO notes the Applicant's comments, however, the MMO considers the proposed wording to be precise, enforceable, necessary, relevant to the development and reasonable and this has recently been included in the Sheringham and Dudgeon Extension Order 2024. The MMO notes the Applicant's comments that a specific environmental effect to give rise to a concern has not yet been identified, leading the Applicant to consider the proposed condition wording to be unjustified, however sometimes impacts are unforeseen and further clarity is required in what is necessary from parties should impacts exceed what was assessed at this stage.	The Applicant refers to its detailed response to Applicant reiterates that the additional limbs are a deemed marine licence under section 72 of the circumstances. In addition, the Offshore In-Principle Monitoring adaptive approach to monitoring is a key prin Applicant. In relation to benthic impacts speci impacts are observed, an adaptive managemer ensure that so far as possible, the effects are predicted." Condition 13(c), Part 2, Schedules 10 and 11 of monitoring plan, which accords with the in prin approved in writing by the MMO. Condition 14(5 out in accordance with the approved plans, unless
1.11.2	It is understood that Natural England will be providing further comment on the Project Environmental Monitoring Plan (PEMP) at Deadline 1. If Natural England are to state that monitoring doesn't fully link to outstanding risks and issues and the need to test	The comment is noted by the Applicant. The App
	effectiveness of mitigation measures, then the MMO advises that the adaptive management condition is considered.	



10 will have sufficient records of all relevant dML and that the condition proposed by the 16 provides that, in relation to requirements, they are necessary, relevant, enforceable, s that this policy also applies to marine licence such a condition to be either necessary or

2 below.

the MMO's comments at RR-042.024. The unnecessary given the MMO's power to vary Marine and Coastal Access Act 2009 in such

g Plan (APP-276) states, at section 2.1 that an inciple of the monitoring proposed by the cifically, Table 3.2 states "Where significant ont process may need to be implemented to be brought back within the range of those

of the dDCO requires the preparation of a nciple monitoring plan, to be submitted and 5) requires the licensed activities to be carried ess otherwise agreed in writing by the MMO.

plicant refers to its comments at 1.11.1.

ID	MMO Comment	Applicant Response
1.11.3	The MMO would highlight that if any monitoring shows an impact higher than predicted within the Environmental statement (ES) the MMO may require additional monitoring or mitigation at the post consent stage.	The Applicant believes that the MMO intends to comment as the Project cannot have had an imp therefore refers to its comments at 1.11.1.
1.11.4	The MMO will review the monitoring requirements, NE's comments and provide further updates in due course.	The comment is noted by the Applicant.
Coastal Processes		
1.12.1	MMO 4.2.2 and 4.2.3: With regard to the Applicant's responses to MMO points 4.2.2 and 4.2.3, the MMO is consulting with our technical advisors and will provide comments on these sections at Deadline 2.	The comment is noted by the Applicant.
1.12.2	MMO 4.2.8: The MMO welcomes the Applicant's consideration of our comments relating to figure scales and colour schemes in future. The MMO notes that the Applicant does not intend to revise these figures.	The comment is noted by the Applicant.
1.12.3	MMO 4.2.9 to 4.2.11: With regards to the Applicant's responses to MMO points 4.2.9 to 4.2.11, the MMO is consulting with our technical advisors and will provide comments on these sections at Deadline 2.	The comment is noted by the Applicant.
Dredge, Disposal and C	Chemical Use	
1.13.1	MMO 4.3.3 and 4.3.4: The MMO welcomes the Applicant's assurance regarding all chemicals which have the potential to enter the marine environment to be listed within the Chemical Risk Assessment (CRA) produced post-consent.	The Applicant welcomes the MMO's agreement of
1.13.2	MMO 4.3.10 to MMO 4.3.18: With regards to the Applicant's responses to MMO points 4.3.10 to MMO 4.3.18, the MMO is with our technical advisors and will provide comments on these sections at Deadline 2	The comment is noted by the Applicant.
Benthic Ecology		
1.14.1	MMO 4.4.1 to MMO 4.4.9: With regards to the Applicant's responses to MMO points 4.4.1 and 4.4.9, the MMO is consulting with our technical advisors and will provide comments on these sections at Deadline 2	The comment is noted by the Applicant.
Fish Ecology		
1.15.1	MMO 4.5.1 to MMO 4.5.4: With regards to the Applicant's responses to MMO points 4.5.1 to MMO 4.5.4, the MMO is consulting with our technical advisors and will provide comments on these sections at Deadline 2.	The comment is noted by the Applicant.
1.15.2	MMO 4.5.10: The MMO welcomes the applicant's submission of revised figures showing IHLS heat maps for the most recent 10 years as requested by the MMO (RR-042). the MMO is consulting with our technical advisors and will provide comments on these sections at Deadline 2.	The comment is noted by the Applicant.
1.15.3	MMO 4.5.13 to MMO 4.5.33: With regards to the Applicant's responses to MMO points 4.5.13 to MMO 4.5.33, the MMO is consulting with our technical advisors and will provide comments on these sections at Deadline 2	The comment is noted by the Applicant.
Shellfish Ecology		
1.16.1	MMO 4.6.1 to MMO 4.6.8: With regards to the Applicant's responses to MMO points 4.6.1 to MMO 4.6.8, the MMO is consulting with our technical advisors and will provide comments on these sections at Deadline 2.	The comment is noted by the Applicant.



prefer to post-construction monitoring in this pact before works commence. The Applicant

on the CRA.

ID	MMO Comment	Applicant Response
Underwater Noise		
1.17.1	MMO 4.7.1 to MMO 4.7.5: With regards to the Applicant's responses to MMO points 4.7.1 to MMO 4.7.5, the MMO is consulting with our technical advisors and will provide comments on these sections at Deadline 2.	The comment is noted by the Applicant.
1.17.2	MMO 4.7.8: The MMO welcomes the agreement that the presentation of noise levels at 750 metres is more useful than the source levels.	The Applicant welcomes the MMO's agreement of
1.17.3	MMO 4.7.9 to MMO 4.7.10: With regards to the Applicant's responses to MMO points 4.7.9 to MMO 4.7.10, the MMO is consulting with our technical advisors and will provide comments on these sections at Deadline 2.	The comment is noted by the Applicant.
Commercial Fisheries		
1.18.1	MMO 4.10.1: The MMO welcomes the Applicant's continued engagement with NFFO, IFCA and local fishers.	The comment is noted by the Applicant.
Outline Fisheries Liaison and	Coexistence Plan (FLCP)	
1.19.1	MMO 5.5.1 to 5.5.4: The MMO welcomes the updated Outline Fisheries Liaison Cooperation Plan (FLCP) (PD1-061) which now includes updates recommended by the MMO.	The Applicant welcomes the MMO's agreement of
Document Reviewed		
Draft Development Consent	Order Tracked (AS1-025)	
Timescales		
1.20.1	Timescales – Pre-Construction plans and documentation, Schedule 10 and 11, Part 2 Condition 13 (1) (c), Condition 13 (1) (g) and Condition 13 (1) (h) refers to a timescale of four months to submit documentation. 13.—(1)(c) A monitoring plan (which accords with the in principle monitoring plan) to include details of proposed pre-construction surveys, baseline report format and content, construction monitoring, post-construction monitoring and related reporting in accordance with conditions 17, 18 and 19 to be submitted to the MMO in accordance with the following— at least four months prior to the first survey, detail of the pre-construction surveys and an outline of all proposed monitoring; at least four months prior to construction, detail of construction monitoring; at least four months prior to comstruction, detail of construction monitoring; at least four months prior to completion of construction, detail of post- construction (and operational) monitoring; unless otherwise agreed in writing with the MMO. (g) A written scheme of archaeological investigation in relation to the offshore Order limits seaward of mean high water, which must be submitted to the statutory historic body at least four months prior to commencement of the licensed activities and to the MMO at least four months prior to commencement of the licensed activities and which must accord with the outline marine archaeological written scheme of investigation and industry good practice, in consultation with the statutory historic body (h) An offshore operations and maintenance plan, in accordance with the outline offshore operations and maintenance plan, to be submitted to the MMO at least four months prior to commencement of operation of the licensed activities and to provide for review and resubmission every three years during the operational phase. 14.—(2) Each programme, statement, plan, protocol or scheme required to be approved under condition 13 must be submitted for approval at least four months prior to the	The Applicant refers to its comments at 1.7.1 abo



on the presentation of noise levels.

on the updated Outline FLCP (PD1-061).

ove.

intended commencement of licensed activities, except where otherwise stated or unless otherwise agreed in writing by the MMO. The MMO have concerns that this is not enough time to fully assess and review documents and request this is changed to six months. Comments on timescales are below from 1.16.2 and 116.3 Conditions 13 (1) and 14 (2) set out the requirements for the Applicant to submit all preconstruction documentation at least four months prior to the commencement of the construction works. The MMO does not agree that a four-month pre-construction submission date is unrealistic and even counterproductive, as the pre-construction submission date is unrealistic and even counterproductive, as the pre-construction submission date is unrealistic and even counterproductive, as the pre-construction submission date is unrealistic and even counterproductive, as the pre-construction submission date is unrealistic and even counterproductive, as the pre-construction submission date is unrealistic and even counterproductive, as the pre-construction submission date is unrealistic and even counterproductive, as the pre-construction submission date is unrealistic and even counterproductive, as the pre-construction submission date is unrealistic atom even the start of and a more appropriate timeframe of six months would allow for this to take place. By allocating this time now, this will avoid delays the construction timetable and thus reduce cost implications of this happening 1.20.2 The MMO notes that the timescales presented are much shorter (three months) in Schedules 12, 13, 14 and 15. The MMO requests that the following plans and diver as is unformation provided in the first instance or information gathered through consultation information provided in the first instance or information gathered through consultation. The Applicant therefore considers does no	ID	MMO Comment	Applicant Response
The MMD have concerns that this is not enough time to fully assess and review documents and request this is changed to six months. Comments on timescales are below from 1.16.2 and 1.16.3 Conditions 13 (1) and 14 (2) set out the requirements for the Applicant to submit all preconstruction documentation at least four months prior to the commenement of the construction documentation at least four months prior to the start of commencement of works. The MMD does not agree that a four- month timescale provides sufficient time for the post consent documentation to be considered prior to the start of commencement of works. The MMD does not agree that a four- month timescale provides is untailistic and even counterproductive, as the pre-construction sign off process is not always straight forward. The documents in question require in depth analysis by both MMO staff and statutory consultees. There needs to be as much time as practically possible to allow this process to take place. It is quite common that these documents are usbject to multiple rounds of consultation and a more appropriate timeframe of six months would allow for this to take place. By allocating this time now, this will avoid delays to the construction timetable and thus reduce cost implications of this happening 1.20.2 The MMO notes that the timescales presented are much shorter (three months) in Schedules 12, 13, 14 and 15. The MMO requests that the following should have a six month is isocoming difficult to consider all the impacts and requirements due to the month is secal stipulation in all of the DMLs; Marine Mammal Mittigation Protocol. AMS. The Applicant therefore considers and requirements due to the infinition of 'inert', for example in Schedules 10 and 11 Part 2 Condition 11(5) and Schedules 12-15 Part 2 Condition 8(5). The Applicant disagrees that further cample construction the docomenet consideratis the definitin of 'inert', fo		intended commencement of licensed activities, except where otherwise stated or unless	
The MMO have concerns that this is not enough time to fully assess and review documents and request this is changed to six months. Comments on timescales are below from 1.16.2 and 1.16.3 Conditions 13 (1) and 14 (2) set out the requirements for the Applicant to submit all preconstruction documentation taleast four months prior to the commencement of the construction accumentation to be considered prior to the start of commencement of tworks. The MMO believes that a four-month price in depth analysis by both MMO Staff and statutory consultees. There needs to be as much time as practically possible to allow this process to take place. It is quite common that these documents are subject to multiple rounds of consultation and a more appropriate timeframe of six months would allow for this to take place. It is quite common that these documents are subject to multiple rounds of consultation and a more appropriate timeframe of six months would allow for this to take place. 1.20.2 The MMO notes that the timescales presented are much shorter (three months) in Schedules 12, 13, 14 and 15. The MMO requests that the following should have a six month timescale stipulation in all of the DMLs; Marine Mammal Mitigation Protocol, in Maintenance Plans. The MMO would highlight that for some documents user six due to the information parks in stance or information gathered through consultation. Definitions The MMO requests clarity on the Applicant's definition of 'inert', for example in formation provided in the first instance or information gathered through consultation fine material, these may contain containmants. It needs to be clear that any material the difficult to consider all the impacts and requirements due to the doco and that the term oug papilicant of subleshies that therefore considers and required in the doCO		otherwise agreed in writing by the MMO.	
documents and request this is changed to six months. Comments on timescales are below from 1.16.3 and 1.16.3 Conditions 13 (1) and 14 (2) set out the requirements for the Applicant to submit all preconstruction documentation at least four month prime to the commencement of the construction works. The MMO does not agree that a four-month pre-construction submission date is unrealistic and even counterproductive, as the pre-construction submission date is unrealistic and even counterproductive, as the pre-construction submission date is unrealistic and even counterproductive, as the pre-construction submission date is unrealistic and even counterproductive, as the pre-construction and process is not always straight forward. The documents in question require in depth analysis by both MMO staff and statutory consultes. There needs to be as much time as practically possible to allow this process to take place. It is quite common that these documents are subject to multiple rounds of consultation and a more appropriate timeframe of six months would allow for this to take place. By allocating this time now, this will avoid delays to the construction timetable and thus reduce cost implications of this happening 1.20.2 The MMO notes that the timescales presented are much shorter (three months) in Principle Montoring Plan, Site Integrity Plan, Ornitological Plans and Operation and months is becoming difficult to consider all the impacts and requirements due to the information provided in the first instance or information gathered through consultation. The Applicant these maine licences go to construction. The Applicant therefore consider does not agree that it would be difficult to consider all the impacts and requirements due to the AMS. The Applicant notes that under condition 11(s), Part 2 Condition 11(s), Part 2, Schedule 12-15 Part 2 Condition 8(b). The MMO requests thath definition of 'inert', is added to the DMLs. If sam		The MMO have concerns that this is not enough time to fully assess and review	
Image: Instance of the second seco		documents and request this is changed to six months. Comments on timescales are below	
Conditions 13 (1) and 14 (2) set out the requirements for the Applicant to submit all preconstruction documentation at least four months prior to the commencement of the construction works. The MMO does not agree that a four- month timescale provides sufficient time for the post consent documentation to be considered prior to the start of commencement of works. The MMO believes that a four-month pre-construction submission date is unrealistic and even counterproductive, as the pre-construction sign off process is not always straight forward. The documents in question require in depth analysis by both MMO staff and statutory consultees. There needs to be as much time as practically possible to allow this process to take place. It is quite common that these documents are subject to multiple rounds of consultation and a more appropriate timeframe of six months would allow for this to take place. By allocating this time educe cost implications of this happening The AMO notes that the timescales presented are much shorter (three months) in Schedules 12, 13, 14 and 15. The MMO requests that the following should have a six, month timescale stipulation in all of the DMLs; Marine Marmal Mitigation Protocol, in and offshore wind farm as detailed in Schedules 12, 13, 14 and 15. The MMO requests and requirements due to the information provided in the first instance or information gathered through consultation. Definitions 1.20.2 The MMO requests clarity on the Applicant's definition of 'inert', for example in Schedules 10 and 11 Part 2 Condition 11(5) and Schedules 12:-15 Part 2 Condition 8(5). The Applicant therefore consider considers 12:-15 and 13:-15 and 13:-15 and 12:-15 and 12:-15 and 1		from 1.16.2 and 1.16.3	
preconstruction documentation at least four months prior to the commencement of the construction works. The MMO does not agree that a four-month imrescale provides sufficient time for the post consent documentation to be considered prior to the start of commencement of works. The MMO believes that a four-month pre-construction submission date is unrealistic and even counterproductive, as the pre-construction sign off process is not always straight forward. The documents in question require in depth analysis by both MMO staff and statutory consultees. There needs to be as much time as practically possible to allow this process to take place. It is quite common that these documents are subject to multiple rounds of consultation and a more appropriate timeframe of six months would allow for this to take place. By allocating this time now, this will avoid delays to the construction timetable and thus reduce cost implications of this happening The AMMO notes that the timescales presented are much shorter (three months) in Schedules 12, 13, 14 and 15. The MMO requests that the following should have a sixmonths reacale stipulation in all of the DMLs; Marine Mammal Mitigation Protocol, In Principle Monitoring Plan, Site Integrity Plan, Ornithological Plans and Operation and Maintenance Plans. The MMO would highlight that for some documents even six does not agree that it would be difficult to consider all the impacts and requirements due to the ANS. The Applicant disagrees that further consider construction provided in the first instance or information gathered through consultation. 1.21.1 The MMO requests clarity on the Applicant's definition of 'inert', for example in Schedules 10 and 11 Part 2 Condition 11(5) and Schedules 12-15 Part 2 Condition 8(5). The AMD requests clarity on the Applicant constinuation. The Applicant disgoreed of at an apprecision defined to found to figure defined to found or ingrit, for example in li		Conditions 13 (1) and 14 (2) set out the requirements for the Applicant to submit all	
Image: construction works. The MMO does not agree that a four-month timescale provides sufficient time for the post consent documentation to be considered prior to the start of commencement of works. The MMO believes that a four-month pre-construction submission date is unrealistic and even counterproductive, as the pre-construction sign off process is not always straight forward. The documents in question require in depth analysis by both MMO staff and statutory consultees. There needs to be as much time as practically possible to allow this process to take place. It is quite common that these documents are subject to multiple rounds of consultation and a more appropriate timeframe of six months would allow for this to take place. By allocating this time now, this will avoid delays to the construction timetable and thus reduce cost implications of this happeningThe Applicant wishes to highlight the scale and structures) to be undertaken under Schedules an offshore wind farm as detailed in Schedules tinformation provided in the first instance or information gathered through consultation.The Applicant wishes to highlight the consider an offshore wind farm as detailed in Schedules 10 and 11 Part 2 Condition 11(5) and Schedules 12-15 Part 2 condition 13(5) and Schedules 12 and the definition of "inert", for example in Schedules 10 and 11 Part 2 Condition 13(5) and Schedules 12-15 Part 2 condition 13(5), and Schedules 12-16 material of natural origin, difflue to constinuction 11(5), Part 2, Schedule 11 also req works is disposed of within the disposal sites. / to be screened out and disposed of at an appr w		preconstruction documentation at least four months prior to the commencement of the	
sufficient time for the post consent documentation to be considered prior to the start of commencement of works. The MMO believes that a four-month pre-construction sign off process is not always straight forward. The documents in question require in depth analysis by both MMO staff and statutory consultees. There needs to be as much time as practically possible to allow this process to take place. It is quite common that these documents are subject to multiple rounds of consultation and a more appropriate timeframe of six months would allow for this to take place. By allocating this time now, this will avoid delays to the construction timetable and thus reduce cost implications of this happening The Applicant wishes to highlight the scale and structures) to be undertaken under Schedules to month timescale stpualation in all of the DMLs; Marce Mannal Mitigation Protocol, which are as the following should have a six-month would alight that for some documents even six months would alight that for some documents even six months would be difficult to consider all the impacts and requirements due to the information provided in the first instance or information gathered through consultation. The Applicant therefore considers information provided in the first instance or information gathered through consultation. The Applicant therefore consider set information and requires that the definition of 'inert', for example in the MMO requests clarity on the Applicant's definition of 'inert', for example in the dDCO and that the term oug Applicant notes that under condition 11(5) and Schedules 12-15 Part 2 Condition 8(5). The Applicant to for subade deprepar works is disposed of within the disposal sites. In the structure is durated of natural origin, drill the orthing installation of or seabed prepara works is disposed of within the disposal sites. In the structure is the structure in the there our deprepare works is disposed of within the disposal sites. In the structure the st		construction works. The MMO does not agree that a four- month timescale provides	
commencement of works. The MMO believes that a four-month pre-construction submission date is unrealistic and even counterproductive, as the pre-construction sign off process is not always straight forward. The documents in question require in depth analysis by both MMO staff and statutory consultees. There needs to be as much time as practically possible to allow this process to take place. It is quite common that these documents are subject to multiple rounds of consultation and a more appropriate timeframe of six months would allow for this to take place. By allocating this time now, this will avoid delays to the construction timetable and thus reduce cost implications of this happeningThe Applicant wishes to highlight the scale and structures) to be undertaken under Schedules 12.20.21.20.2The MMO notes that the timescales presented are much shorter (three months) in Schedules 12, 13, 14 and 15. The MMO requests that the following should have a six month timescale stipulation in all of the DMLs; Marine Mammal Mitigation Protocol, In Principle Monitoring Plan, Site Integrity Plan, Ornithological Plans and Operation and Maintenace Plans. The MMO would highlight that for some documents even six months is becoming difficult to consider all the impacts and requirements due to the information provided in the first instance or information gathered through consultation.The Applicant notes marine licences go often require (require pre-construction plans and do construction. The Applicant therefore consider often require in the dDCO and that the term oug The MMO requests that the definition of 'inert', for example in fine material, these may contain contaminants. It needs to be clear that any material fine material, these may contain contaminants. It needs to be clear that any material fine material, these may contain contaminants. It needs to be clear that any materi		sufficient time for the post consent documentation to be considered prior to the start of	
submission date is unrealistic and even counterproductive, as the pre-construction sign off process is not always straight forward. The documents in question require in depth analysis by both MMO staff and statutory consultes. There needs to be as much time as practically possible to allow this process to take place. It is quite common that these documents are subject to multiple rounds of consultation and a more appropriate timeframe of six months would allow for this to take place. By allocating this time now, this will avoid delays to the construction timetable and thus reduce cost implications of this happening The Applicant wishes to highlight the scale and structures) to be undertaken under Schedules an offshore wind farm as detailed in Sched principle Monitoring Plan, Site Integrity Plan, Ornithological Plans and Operation and Maintenace Plans. The MMO would highlight that for some documents even six months is becoming difficult to consider all the impacts and requirements due to the information provided in the first instance or information gathered through consultation. The Applicant disagrees that further clarifica require pre-construction plans and d construction. The Applicant therefore considers does not agree that it would be difficult to consider all the impacts and requirements due to the information provided in the first instance or information gathered through consultation. 1.21.1 The MMO requests clarity on the Applicant's definition of 'inert', for example in fine material, these may contain contaminants. It needs to be clear that any material containing contaminants cannot be disposed of within the disposal sites when listing the direm tartial of natural origin, drillin containing contaminants cannot be disposed of within the disposal sites when listing the disposed of within the disposal sites <i>J</i> to be screened out and disposed of at an appr Condition 11(5), Part 2, Schedule 11 als		commencement of works. The MMO believes that a four-month pre-construction	
off process is not always straight forward. The documents in question require in depth analysis by both MMO staff and statutory consultees. There needs to be as much time as practically possible to allow this process to take place. It is quite common that these documents are subject on multiple rounds of consultation and a more appropriate timeframe of six months would allow for this to take place. Billocating this time now, this will avoid delays to the construction timetable and thus reduce cost implications of this happening The Applicant wishes to highlight the scale and structures) to be undertaken under Schedules an offshore wind farm as detailed in Sched Height Monitoring Plan, Site Integrity Plan, Ornithological Plans and Operation and Maintenance Plans. The MMO would highlight that for some documents even six months is becoming difficult to consider all the impacts and requirements due to the information provided in the first instance or information gathered through consultation. The Applicant disagrees that further clarifica required in the dDCO and that the term oug Applicant notes that under condition 11(5), Part 2 Condition 11(5), Part 2, Schedules 11 also req works is disposed of within the disposal sites when listing the licensable activities under Part 1 of the DMLs.		submission date is unrealistic and even counterproductive, as the pre-construction sign	
analysis by both MMO staff and statutory consultes. There needs to be as much time as practically possible to allow this process to take place. It is quite common that these documents are subject to multiple rounds of consultation and a more appropriate timeframe of six months would allow for this to take place. By allocating this time now, this will avoid delays to the construction timetable and thus reduce cost implications of this happening 1.20.2 The MMO notes that the timescales presented are much shorter (three months) in Schedules 12, 13, 14 and 15. The MMO requests that the following should have a sixmont timescale stipulation in all of the DMLs; Marine Mammal Mitigation Protocol, In Principle Monitoring Plan, Site Integrity Plan, Ornithological Plans and Operation and Maintenance Plans. The MMO would highlight that for some documents even six months is becoming difficult to consider all the impacts and requirements due to the Applicant therefore considers of the information provided in the first instance or information gathered through consultation. The Applicant therefore considers of the MMO requests clarity on the Applicant's definition of 'inert', for example in Schedules 10 and 11 Part 2 Condition 11(5) and Schedules 12-15 Part 2 Condition 8(5). The MMO requests that the definition of 'inert' is added to the DMLs. If samples contain for the dDCO and that the term oug Applicant notes that under condition 11(5), Part 2, Schedule 11 also requorks is disposed of within the disposal sites when listing the drilling installation of or seabed prepara works is disposed of at an appr		off process is not always straight forward. The documents in question require in depth	
as practically possible to allow this process to take place. It is quite common that these documents are subject to multiple rounds of consultation and a more appropriate timeframe of six months would allow for this to take place. By allocating this time now, this will avoid delays to the construction timetable and thus reduce cost implications of this happeningThe Applicant wishes to highlight the scale and structures) to be undertaken under Schedules an offshore wind farm as detailed in Sched ulers and therefore considers does not agree that it would be difficult to consider all the impacts and requirements due to the information provided in the first instance or information gathered through consultation.The Applicant wishes to highlight the scale and structures) to be undertaken under Schedules an offshore wind farm as detailed in Sched does not agree that it would be difficult to consider all the impacts and requirements due to the information provided in the first instance or information gathered through consultation.The Applicant notes marine licences gr often require pre-construction plans and do construction. The Applicant therefore consider softedues 12 and 11 Part 2 Condition 11(5) and Schedules 12-15 Part 2 Condition 8(5). The MMO requests clarity on the Applicant's definition of 'inert', for example in Schedules 10 and 11 Part 2 Condition of inert' is added to the DMLs. If samples contain fine material, these may contain contaminants. It needs to be clear that any material that only inert material of natural origin, drilli that only inert material of antaral origin, drilli to be screened out and disposed of at an appr Condition 11(5), Part 2, Schedule 11 also requiremented to be screened out and disposed of at an appr Condition 11(5), Part 2, Schedule 11 also requiremented to be increared and in any procescale to be screened out and disposed of at an		analysis by both MMO staff and statutory consultees. There needs to be as much time	
It is quite common that these documents are subject to multiple rounds of consultation and a more appropriate timeframe of six months would allow for this to take place. By allocating this time now, this will avoid delays to the construction timetable and thus reduce cost implications of this happeningThe Applicant wishes to highlight the scale and structures) to be undertaken under Schedules 12, 13, 14 and 15. The MMO requests that the following should have a six- month timescale stipulation in all of the DMLs; Marine Mammal Mitigation Protocol, In Principle Monitoring Plan, Site Integrity Plan, Ornithological Plans and Operation and Maintenance Plans. The MMO would highlight that for some documents even six months is becoming difficult to consider all the impacts and requirements due to the information provided in the first instance or information gathered through consultation.The Applicant wishes to highlight the scale and structures) to be undertaken under Schedules a offshore wind farm as detailed in Sched (transmission assets) and therefore considers does not agree that it would be difficult to consider all the impacts and requirements due to the information provided in the first instance or information gathered through consultation.The Applicant notes marine licences go does not agree that therefore consider MORE and therefore considers and therefore consider1.21.1The MMO requests clarity on the Applicant's definition of 'inert', for example in fine material, these may contain contaminants. It needs to be clear that any material containing contaminants cannot be disposed of within the disposal sites when listing the licensable activities under Part 1 of the DMLs.The Applicant disagrees that further clarifica required in the disposed of at an appr works is disposed of at an apprCondition 11(5), Part 2, Schedule 11 also		as practically possible to allow this process to take place.	
and a more appropriate timeframe of six months would allow for this to take place. By allocating this time now, this will avoid delays to the construction timetable and thus reduce cost implications of this happening1.20.2The MMO notes that the timescales presented are much shorter (three months) in Schedules 12, 13, 14 and 15. The MMO requests that the following should have a six- month timescale stipulation in all of the DMLs; Marine Mammal Mitigation Protocol. In Principle Monitoring Plan, Site Integrity Plan, Ornithological Plans and Operation and Maintenance Plans. The MMO would highlight that for some documents even six months is becoming difficult to consider all the impacts and requirements due to the information provided in the first instance or information gathered through consultation.The Applicant notes marine licences gi often require pre-construction plans and do construction. The Applicant therefore consider does not agrees that further clarifica the Applicant notes marine licences gi often require pre-construction plans and do construction. The Applicant disagrees that further clarifica fine material, these may contain contaminants. It needs to be clear that any material containing contaminants cannot be disposed of within the disposal sites when listing the licensable activities under Part 1 of the DMLs.The dMMO request 1 also req that only inert material of natural origin, drilli the disposed of at an appr Condition 11(5), Part 2, Schedule 11 also req Londition 11(5), Part 2, Schedule 11 also req Londiti		It is quite common that these documents are subject to multiple rounds of consultation	
allocating this time now, this will avoid delays to the construction timetable and thus reduce cost implications of this happening Item construction timetable and thus reduce cost implications of this happening 1.20.2 The MMO notes that the timescales presented are much shorter (three months) in Schedules 12, 13, 14 and 15. The MMO requests that the following should have a six month timescale stipulation in all of the DMLs; Marine Mammal Mitigation Protocol, In Principle Monitoring Plan, Site Integrity Plan, Ornithological Plans and Operation and Maintenance Plans. The MMO would highlight that for some documents even six months is becoming difficult to consider all the impacts and requirements due to the information provided in the first instance or information gathered through consultation. ANSs. The Applicant notes marine licences giother require pre-construction plans and due construction. The Applicant therefore considers does not agree that it would be difficult to consider all the impacts and requirements due to the information provided in the first instance or information gathered through consultation. The Applicant notes marine licences giother require pre-construction plans and due construction. The Applicant therefore considers does not agree that if would be difficult to canside all the impacts and requirements due to the plicant therefore considers the MMO requests clarity on the Applicant's definition of 'inert', for example in Schedules 10 and 11 Part 2 Condition 11(5) and Schedules 12-15 Part 2 Condition 8(5). The Applicant notes that under condition 11(5), Part 2, Schedule 11 also required in the disposal sites when listing the licensable activities under Part 1 of the DMLs. licensable activities under Part 1 of the DMLs. Condition 11(5), Part 2, Schedule 11 also required in the disposed of at an appricon the disposed of at		and a more appropriate timeframe of six months would allow for this to take place. By	
1.20.2 The MMO notes that the timescales presented are much shorter (three months) in Schedules 12, 13, 14 and 15. The MMO requests that the following should have a sixmonth timescale stipulation in all of the DMLs; Marine Mammal Mitigation Protocol, In Principle Monitoring Plan, Site Integrity Plan, Ornithological Plans and Operation and Maintenance Plans. The MMO would highlight that for some documents even six months is becoming difficult to consider all the impacts and requirements due to the information provided in the first instance or information gathered through consultation. The Applicant wishes to highlight the scale and structures) to be undertaken under Schedules an offshore wind farm as detailed in Schedules to consider all the impacts and requirements due to the information provided in the first instance or information gathered through consultation. Definitions The MMO requests clarity on the Applicant's definition of 'inert', for example in Schedules 10 and 11 Part 2 Condition 11(5) and Schedules 12-15 Part 2 Condition 8(5). The MMO requests that the definition of 'inert' is added to the DMLs. If samples contain fine material, these may contain contaminants. It needs to be clear that any material containing contaminants cannot be disposed of within the disposal sites when listing the licensable activities under Part 1 of the DMLs. The Applicant of a and approximation of a an approximation of a mapproximation and the disposed of at an approximate of the box of the approximate of the properties of the pro		allocating this time now, this will avoid delays to the construction timetable and thus	
1.20.2 The MMO notes that the timescales presented are much shorter (three months) in Schedules 12, 13, 14 and 15. The MMO requests that the following should have a six- month timescale stipulation in all of the DMLs; Marine Mammal Mitigation Protocol, In Principle Monitoring Plan, Site Integrity Plan, Ornithological Plans and Operation and Maintenance Plans. The MMO would highlight that for some documents even six months is becoming difficult to consider all the impacts and requirements due to the information provided in the first instance or information gathered through consultation. The Applicant wishes to highlight the scale and structures) to be undertaken under Schedules an offshore wind farm as detailed in Sched (transmission assets) and therefore considers does not agree that it would be difficult to consider all the impacts and requirements due to the information provided in the first instance or information gathered through consultation. 1.21.1 The MMO requests clarity on the Applicant's definition of 'inert', for example in Schedules 10 and 11 Part 2 Condition 11(5) and Schedules 12-15 Part 2 Condition 8(5). The MMO requests that the definition of 'inert' is added to the DMLs. If samples contain fine material, these may contain contaminants. It needs to be clear that any material containing contaminants cannot be disposed of within the disposal sites when listing the licensable activities under Part 1 of the DMLs. The Applicant totes that under condition 11(5), Part 2, Schedule 11 also req condition 11(5), Part 2, Schedule 11 also req condition 11(5), Part 2, Schedule 11 also req condition 11(5), Part 2, Schedule 11 also req		reduce cost implications of this happening	
1.20.2 The which hotes that the dimescales picture and the solution (intervited	1 20 2	The MMO notes that the timescales presented are much shorter (three months) in	The Applicant wishes to highlight the scale and co
DefinitionsSchedules 12, 13, 14 and 12. The MMO requests clarity on the DMLs; Marine Mammal Mitigation Protocol, In Principle Monitoring Plan, Site Integrity Plan, Ornithological Plans and Operation and Maintenance Plans. The MMO would highlight that for some documents even six months is becoming difficult to consider all the impacts and requirements due to the information provided in the first instance or information gathered through consultation.an offshore wind farm as detailed in Sched (transmission assets) and therefore considers does not agree that it would be difficult to co ANSs. The Applicant notes marine licences gro often require pre-construction plans and do construction. The Applicant therefore considerDefinitionsThe MMO requests clarity on the Applicant's definition of 'inert', for example in Schedules 10 and 11 Part 2 Condition 11(5) and Schedules 12-15 Part 2 Condition 8(5). The MMO requests that the definition of 'inert' is added to the DMLs. If samples contain fine material, these may contain contaminants. It needs to be clear that any material containing contaminants cannot be disposed of within the disposal sites when listing the licensable activities under Part 1 of the DMLs.The Applicant 13, 22, Schedule 11 also require condition 11(5), Part 2, Schedule 11 also required in the diffuence leaves of at an appring contaminant leaves of at an appring contaminant leaves of at an appring condition 11(5), Part 2, Schedule 11 also required leaves of at an appring contaminant leaves of at an appring condition 11(5), Part 2, Schedule 11 also requirements and requirements and the protocol of at an appring contaminant leaves of at an appring condition 11(5), Part 2, Schedule 11 also requirements and the protocol of the protocol of at an appring condition 11(5), Part 2, Schedule 11 also requirements and the protocol of the protocol of the protocol of the protocol of the proto	1.20.2	Schedules 12, 13, 14 and 15. The MMO requests that the following should have a size	structures) to be undertaken under Schedules 1
Definitions1.21.11.21.1The MMO requests clarity on the Applicant's definition of 'inert', for example in Schedules 10 and 11 Part 2 Condition 11(5) and Schedules 12-15 Part 2 Condition 8(5). The MMO requests that the definition of 'inert' is added to the DMLs. If samples contain fine material, these may contain contaminants. It needs to be clear that any material containing contaminants cannot be disposed of within the disposal sites when listing the licensable activities under Part 1 of the DMLs.The MMO request 2, Schedule 11 also requere (condition 11(5), Part 2, Schedule 11 also require to be screened out and disposed of at an apprCondition 11(5), Part 2, Schedule 11 also require (condition 11(5), Part 2, Schedule 11 also required in the disposal sites disposed of within the disposal sites disposed of at an appr		month timescale stinulation in all of the DMLs: Marine Mammal Mitigation Protocol. In	an offshore wind farm as detailed in Schedule
Definitions1.21.11.21.1The MMO requests clarity on the Applicant's definition of 'inert', for example in Schedules 10 and 11 Part 2 Condition 11(5) and Schedules 12-15 Part 2 Condition 8(5). The MMO requests that the definition of 'inert' is added to the DMLs. If samples contain fine material, these may contain contaminants. It needs to be clear that any material containing contaminants cannot be disposed of within the disposal sites when listing the licensable activities under Part 1 of the DMLs.The Applicant 2, Schedule 11 also req works is disposed of at an appr Condition 11(5), Part 2, Schedule 11 also req instruction 11(5), Part 2, Schedule 11 also req		Principle Monitoring Plan Site Integrity Plan Ornithological Plans and Operation and	(transmission assets) and therefore considers the
Indicting the finition of the first instance or information gathered through consultation. and the difference of the first instance or information gathered through consultation. Definitions 1.21.1 The MMO requests clarity on the Applicant's definition of 'inert', for example in Schedules 10 and 11 Part 2 Condition 11(5) and Schedules 12-15 Part 2 Condition 8(5). The MMO requests that the definition of 'inert' is added to the DMLs. If samples contain fine material, these may contain contaminants. It needs to be clear that any material containing contaminants cannot be disposed of within the disposal sites when listing the licensable activities under Part 1 of the DMLs. The Applicant disagrees that under condition 11(5), Part 2, Schedule 11 also requert to the difference of the		Maintenance Plans The MMO would highlight that for some documents even six	does not agree that it would be difficult to cons
Definitions Interveption of the instance or information gathered through consultation. Interveption of the require pre-construction plans and do construction. The Applicant therefore considered therefore considered through consultation. Definitions The MMO requests clarity on the Applicant's definition of 'inert', for example in Schedules 10 and 11 Part 2 Condition 11(5) and Schedules 12-15 Part 2 Condition 8(5). The Applicant disagrees that further clarifica required in the dDCO and that the term oug Applicant notes that under condition 11(5), Part 2, Schedule 11 of the DMLs. Iterve to the output of the disposed of within the disposal sites when listing the licensable activities under Part 1 of the DMLs. The DMLs. Condition 11(5), Part 2, Schedule 11 also required to the the disposed of at an apprecision of the state of the disposed of at an apprecision of the state of the disposed of at an apprecision of the state of the disposed of at an apprecision of the disposed of at an apprecision of the state of the disposed of at an apprecision of the disposed of at an apprecision of the state of the disposed of at an apprecision of the disposed of the disposed of at an apprecision of the disposed of the di		months is becoming difficult to consider all the impacts and requirements due to the	ANSs. The Applicant notes marine licences gran
Definitions 1.21.1 The MMO requests clarity on the Applicant's definition of 'inert', for example in Schedules 10 and 11 Part 2 Condition 11(5) and Schedules 12-15 Part 2 Condition 8(5). The MMO requests that the definition of 'inert' is added to the DMLs. If samples contain fine material, these may contain contaminants. It needs to be clear that any material containing contaminants cannot be disposed of within the disposal sites when listing the licensable activities under Part 1 of the DMLs. Item and the disposed of at an appr Condition 11(5), Part 2, Schedule 11 also requests		information provided in the first instance or information gathered through consultation	often require pre-construction plans and doc
Definitions 1.21.1 The MMO requests clarity on the Applicant's definition of 'inert', for example in Schedules 10 and 11 Part 2 Condition 11(5) and Schedules 12-15 Part 2 Condition 8(5). The MMO requests that the definition of 'inert' is added to the DMLs. If samples contain fine material, these may contain contaminants. It needs to be clear that any material containing contaminants cannot be disposed of within the disposal sites when listing the licensable activities under Part 1 of the DMLs. The Applicant disagrees that further clarification of 'antural origin, drilling installation of or seabed preparation of or seabed preparation of the disposal sites when listing the disposed of within the disposal sites. A to be screened out and disposed of at an appreciation of 11(5), Part 2, Schedule 11 also required in the disposed of drilling mudered and the disposed of drilling mudered and the disposed of a term of the drilling and drilling mudered and the drilling and drilling mudered and the drilling mudered and th			construction. The Applicant therefore considers t
1.21.1The MMO requests clarity on the Applicant's definition of 'inert', for example in Schedules 10 and 11 Part 2 Condition 11(5) and Schedules 12-15 Part 2 Condition 8(5). The MMO requests that the definition of 'inert' is added to the DMLs. If samples contain fine material, these may contain contaminants. It needs to be clear that any material containing contaminants cannot be disposed of within the disposal sites when listing the licensable activities under Part 1 of the DMLs.The Applicant disagrees that further clarifica required in the dDCO and that the term oug Applicant notes that under condition 11(5), P that only inert material of natural origin, drilling the drilling installation of or seabed prepara works is disposed of within the disposal sites. A to be screened out and disposed of at an appr Condition 11(5), Part 2, Schedule 11 also req 	Definitions	1	
Schedules 10 and 11 Part 2 Condition 11(5) and Schedules 12-15 Part 2 Condition 8(5). The MMO requests that the definition of 'inert' is added to the DMLs. If samples contain fine material, these may contain contaminants. It needs to be clear that any material containing contaminants cannot be disposed of within the disposal sites when listing the licensable activities under Part 1 of the DMLs. Condition 11(5), Part 2, Schedule 11 also required an apprendict of a tan apprendic	1.21.1	The MMO requests clarity on the Applicant's definition of 'inert', for example in	The Applicant disagrees that further clarificatio
The MMO requests that the definition of 'inert' is added to the DMLs. If samples contain fine material, these may contain contaminants. It needs to be clear that any material containing contaminants cannot be disposed of within the disposal sites when listing the licensable activities under Part 1 of the DMLs. Condition 11(5), Part 2, Schedule 11 also req		Schedules 10 and 11 Part 2 Condition 11(5) and Schedules 12-15 Part 2 Condition 8(5).	required in the dDCO and that the term ought
fine material, these may contain contaminants. It needs to be clear that any material containing contaminants cannot be disposed of within the disposal sites when listing the licensable activities under Part 1 of the DMLs. Condition 11(5), Part 2, Schedule 11 also req		The MMO requests that the definition of 'inert' is added to the DMLs. If samples contain	Applicant notes that under condition 11(5), Part
containing contaminants cannot be disposed of within the disposal sites when listing the licensable activities under Part 1 of the DMLs. Condition 11(5), Part 2, Schedule 11 also req		fine material, these may contain contaminants. It needs to be clear that any material	that only inert material of natural origin, drilling
licensable activities under Part 1 of the DMLs. be screened out and disposed of at an apprentiation of the DMLs. condition 11(5), Part 2, Schedule 11 also requirements of a structure of the screened out and disposed of at an apprentiation of the screened out and disposed of the screened out and dispo		containing contaminants cannot be disposed of within the disposal sites when listing the	the drilling installation of or seabed preparatio
to be screened out and disposed of at an appr Condition 11(5), Part 2, Schedule 11 also req		licensable activities under Part 1 of the DMLs.	works is disposed of within the disposal sites. Any
Condition 11(5), Part 2, Schedule 11 also req			to be screened out and disposed of at an approp
Condition 11(5), Part 2, Schedule 11 also req			
			Condition 11(5), Part 2, Schedule 11 also requir
inert material of natural origin, drilling mud an			inert material of natural origin, drilling mud and d
installation of or seabed preparation for fou			installation of or seabed preparation for found
excavation of trenchless technique exit pits			excavation of trenchless technique exit pits is
material of anthropogenic origin is required			material of anthropogenic origin is required t
appropriate waste facility onshore.			appropriate waste facility onshore.
Condition 8/5) Part 2 Schedules 12-15 also re			Condition 8(5) Part 2 Schedules 12-15 also requ
inert material of natural origin drilling mud an			inert material of natural origin drilling mud and d
installation of or seabed preparation for foun			installation of or seabed preparation for foundation



omplexity of works (up to two artificial nesting .2, 13, 14 and 15 is not comparable to that of le 10 (generation assets) and Schedule 11 ne timescales proposed to be appropriate and nsider requirements from a maximum of two nted by the MMO for similar activities most ument to be submitted six weeks prior to three months is more than appropriate.

on as to the meaning of the term "inert" is t to have its ordinary, natural meaning. The rt 2, Schedule 10, the Applicant must ensure g mud and dredged material, produced during on for foundations, and sandwave clearance by material of anthropogenic origin is required priate waste facility onshore.

res that the Applicant must ensure that only dredged material, produced during the drilling dations, sandwave clearance works and the s disposed of within the disposal sites. Any to be screened out and disposed of at an

uires that the Applicant must ensure that only dredged material, produced during the drilling ations is disposed of within the disposal sites.

ID	MMO Comment	Applicant Response
		Any material of anthropogenic origin is require appropriate waste facility onshore.
1.21.2	The MMO requests that the definition of the term 'static' is added to Part 1 of the DMLs.	The Applicant disagrees that a definition of the t the term ought to have its ordinary, natural meaning of the term is sufficiently clear.
Comments on oral submission	ons made and written summaries of oral case put at the Open Floor Hearing (OFH) (10 Oct	ober 2024)
2.1.1	The MMO has no comments to make on the Open Floor Hearing held on the 10 October 2024. The MMO will maintain a watching brief on future hearings and provide comments where required	The comment is noted by the Applicant.
Comments on the Applicant	s draft Statement of Common Ground (SoCG)	
3.1.1	The MMO received the Applicant's draft Statement of Common Ground (SoCG) with the MMO on 08 October 2024. The MMO is in the process of reviewing the Applicant's Procedural Deadline submissions along with its technical advisors to determine the status of ongoing discussions more accurately. The MMO will continue to work with the Applicant on the SoCG and provide comments when required.	The Applicant welcomes the MMO's continued continue to have regular meetings with the MM
Comments on any further in	formation / submissions accepted by the ExA	
4.1.1	The MMO notes that there have been updates to Ordnance Survey (OS) mapping within the Order Limits and subsequent changes to Mean High Water Springs (MHWS) and Mean Low Water Springs (MLWS) that result from these updates.	The Applicant welcomes the MMO's agreement
	The MMO notes the Applicant has updated relevant documents to account for these changes. This includes Land Plans and the Draft DCO. The MMO welcomes the submission of the Schedule of changes to the DCO (AS1-026) to detail the changes made to the Draft DCO. The MMO is content that the grid coordinates have been updated within the relevant Deemed Marine Licences (DMLs) Schedules 10, 11, 12, 13, 14, 15 and 16 to reflect the updated position of the mean low and mean high water marks.	
	The MMO welcomes the updated documents and is satisfied with these refinements. The MMO considers that this does not change the assessment conclusions presented in the DCO application.	
Any further information req	uested by the ExA under Rule 17 of the Examination Procedure Rules	
5.1.1	A Rule 17 letter was issued on 31 July 2024. The MMO provided a response at the Procedural Deadline of 19 September 2024 (PD1-115) which included comments on Relevant Representations.	This comment is noted by the Applicant.
5.1.2	The MMO acknowledges the amendments made by the Applicant following the Rule 17 letter. The MMO is currently reviewing the updated documents and will provide comments on the other changes made by the Applicant, which are not outlined in this letter.	This comment is noted by the Applicant
Additional Concerns		



ed to be screened out and disposed of at an

term "static" is required in the dDCO and that meaning. The Applicant considers that the

engagement on the SoCG. The Applicant will IO to progress the SoCG.

on the updated documents provided.

ID	MMO Comment	Applicant Response
Examination		
6.1.1	The MMO is working with the Applicant to resolve the issues highlighted in our Relevant Representations (RR-042) and would highlight that a lot of the issues have been ongoing throughout the Evidence Plan Process and further information requested has not been provided. At this stage the MMO would welcome any additional information requested in RR-042 to be provided as soon as possible and earlier in Examination, rather than the Applicant pushing back on our advice. The MMO's experience is that the Examining Authority generally request this information during Examination, and this would be welcomed at the earliest opportunity as leaving major unresolved issues until later in Examination causes a risk to both the advice being provided and resource issues.	The Applicant will endeavour to provide further in is considered necessary and relevant to do so, a throughout the Examination to negotiate and find Applicant wishes to highlight that there a likely to with a request from the MMO; due to the availab the Applicant feels that a request is not justified by to relevant representations (PD1-071), the Applica a case by case basis.
	The MMO would highlight that even where the Applicant may disagree with our position that a without prejudice position would be welcomed to enable full review and provide the most robust response.	
Offshore Restricted Build Are	ea (ORBA) and Revision to the Offshore Export Cable Corridor (ECC)	1
6.2.1 6.2.2 6.2.3	The MMO is reviewing any information relating to this change and will provide comments in due course. We would highlight that any large change to the project should be fully assessed and included in the Environmental Statement chapters which become certified documents.	The Environmental Report for the Offshore Restri Export Cable Corridor (PD1-081) sets out an appr the ORBA and the Revision to the Offshore Exp previously drawn for the ES which supported the P chapters. The proposed changes do not alter th conclusions drawn remaining unchanged and valid Restricted Build Area and Revision to the Offsh appendices (PD1-081 to PD1-090) are certified do dDCO.
	The MMO notes that previously the MMO has accepted ES addendums by applicants rather than redoing ES chapters. The MMO would highlight that this change may require further assessment to the impacts for different topics (e.g. Marine Processes) and this should be within the ES chapters to ensure the updates are transparent should the Secretary of State grant the consent.	
	The MMO will also review the documents and see how the changes will be secured within the DML.	



information requested by the MMO where it and will continue to engage with the MMO ad agreements where possible. However, the b be situations where the Applicant disagrees bility of the information requested, or where by evidence, and, as it has done in its response cant will respond to each of these requests on

icted Build Area and Revision to the Offshore raisal of the potential for the introduction of port Cable Corridor to alter the conclusions Project's DCO Application, for all relevant EIA he conclusions as set out in the ES, with all d. The Environmental Report for the Offshore shore Export Cable Corridor and associated ocuments under Part 1 of Schedule 21 of the



4 References

- Graham, I. M., Farcas, A., Merchant, N. D. and Thompson, P. (2017). 'Beatrice Offshore Windfarm: An interim estimate of the probability of porpoise displacement at different unweighted single-pulse sound exposure levels', Prepared by the University of Aberdeen for Beatrice Offshore Windfarm Ltd
- JNCC (2010) JNCC guidelines for minimising the risk of injury to marine mammals from using explosives. JNCC, Peterborough. https://data.jncc.gov.uk/data/24cc180d-4030-49dd-8977-a04ebe0d7aca/JNCC-Guidelines-Explosives-Guidelines-201008-Web.pdf
- JNCC. (2023). JNCC guidance for the use of Passive Acoustic Monitoring in UK waters for minimising the risk of injury to marine mammals from offshore activities. JNCC, Peterborough. https://hub.jncc.gov.uk/assets/fb7d345b-ec24-4c60-aba2- 894e50375e33
- Whyte, K.F., Russell, D.J., Sparling, C.E., Binnerts, B. and Hastie, G.D., (2020). Estimating the effects of pile driving sounds on seals: Pitfalls and possibilities. *The Journal of the Acoustical Society of America*, 147(6), pp.3948-3958.
- Lincs OWF (2017) Third annual post-construction aerial ornithological monitoring report
- HM Government (2014) East Inshore and East Offshore Marine Plans. Available online at https://assets.publishing.service.gov.uk/media/5a7ec0eced915d74e33f2342/east-plan.pdf
- Cooper, W. S., Townend, I. H. & Balson, P. S. (2008) A synthesis of current knowledge on the genesis of the Great Yarmouth and Norfolk Bank Systems. The Crown Estate
- Kenyon, N., and Cooper, B. 2005. Sand banks, sand transport and offshore wind farms. 10.13140/RG.2.1.1593.4807.
- Van der Molen, J., 2002. The influence of tides, wind and waves on the net sand transport in the North Sea. Continental Shelf Research, 22(18-19), pp.2739-2762
- Pearce, B., 2017. *The ecology of Sabellaria spinulosa reefs* (Doctoral dissertation, University of Plymouth).
- Peritus International Ltd. 2022. Scour and Cable Protection Decommissioning Study. NECR403. Natural England



5 Appendix A: Blockage Modelling Results Figure Updates

- 3. As outlined in the response to Natural England's comment B1.3, the Applicant welcomes the advice of Natural England with regard to a more graduated scale on figures displaying the results of blockage modelling. Figure 1.2 and Figure 1.3 (as submitted in 15.9A ORBA and Revision to the Offshore ECC Appendix A Figure Part 1 (PD1-082)) are included below to reflect the use of a more graduated scale.
- 4. While responding to this advice a data processing error has been identified in relation to the figures as they were presented both within PD1-082 and 6.2.7 Chapter 7 Marine Physical Processes Figures Part 2 (APP-094]. This error relates to the scale bar, and therefore values, shown for the Difference 1 in 100-Year Hm0. The updated figures shown below therefore represent a correction in these values.
- 5. These changes do not represent a change to the conclusions of the ES. In significant wave height for both northerly and northeasterly waves, changes in significant wave height during 1 in 100-year extreme events are not detectable close to the coastline. This is the case for the OCP foundations as well as those foundations within the array area. The magnitude of impact to the wave regime is therefore assessed as negligible.
- 6. Changes in the wave regime may contribute to changes in seabed morphology due to the alteration of sediment transport patterns. Within the study area, sediment transport is dominated by the action of tidal currents, with wave-driven sediment transport only becoming important in shallow coastal waters, distant to the array area and outside the influence of the ORCP location. As the numerical modelling results indicate that any meaningful change to the wave height dissipates far from the coast, and therefore there is no pathway of effect on the nearshore wave climate, the potential impact on coastal erosion or marine physical processes is limited.





Deadline 2





Applicant's Comments on Deadline 1 Submissions Document Reference: 19.4 Deadline 2

