

The Planning Inspectorate Our ref: XA/2025/100467/01

By email Your ref: EN020032

morganandmorecambeowfta@planninginspectora Date: 20 October 2025

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Dear Sir

MORGAN AND MORECAMBE OFFSHORE WINDFARMS TRANSMISSION ASSETS: DEADLINE 6 – COMMENTS ON SUBMISSIONS RECEIVED BY DEADLINE 5.

We have reviewed relevant submissions received by Deadline 5 and would like to make the following comments:

- [REP5a-019] Draft Development Consent Order (Tracked) Rev F08 Protective Provisions Part 9 for the protection of the Environment Agency. Our objection is now withdrawn in principle, subject to confirmation that the agreed amendments have been incorporated in the final DCO submitted at Deadline 6.
- [REP5-087] S_D1_6.6 Environment Agency SoCG Rev F04 Agreed
- [REP5-102] S_D3_6 Outline Hydrogeological Risk Assessment for Lytham St Anne's Sand Dunes (Tracked) Rev F02. We are satisfied with the amendments made and have no further comments.
- [REP5-118] Applicants' Response to Deadline 4 submissions from Statutory Consultees and other organisation: The Environment Agency agrees with the Applicant's response presented in Table 2.6.

We have no further comments regarding any submissions at Deadline 5 or 5a.

Environment Agency position

Our position at Deadline 6 regarding any points that were not closed at Deadline 5.

Ref	Topic	Position at	REP1	Position at Deadline	REP2	Position at	Position at	Position at
RR-		Deadline 2	-076	3	-056	Deadline 4	Deadline 5	Deadline 6
0677		T1::	0707	T	0507		T	-
0677.4	Geology	This matter is on-	076.7	This matter is on-	056.7	This matter is	This part of the	This matter can
	Hydrogeol	going.		going.		on-going.	matter can be	be closed:
	ogical Risk	Hydrogeological risk		[REP2-005] draft DCO			closed: We note	We have reviewed
	Assessme	assessment (HyRA)		- We are satisfied that		We maintain our	the amendments	the final Outline
	nt	for all HDD or any		Hydrogeological risk		position that	to Requirement 8	HyRA and are
	required.	other trenchless		assessment (HyRA) is		Requirement 8	para (20) (o) and	satisfied that it
		utility installation		now listed under		para (20) (o)	in [REP4-027]	takes into
		methods is		Requirement 8 para		should also	oCoCP para	account all
		proposed to be		(2) (o), The		include specific	1.8.2.22.	earlier
		secured through		amendment currently		mention of the		comments.
		Requirement 8. We		specifies Lytham St		River Ribble	This part of the	Please see our
		are satisfied with		Annes SSSI, but we		crossing.	matter is on-	final response
		this approach, but		request that it also			going:	attached here in
		for clarity, a		specify the River		We have provided	We have agreed a	Appendix A
		hydrogeological risk		Ribble crossing for		comments on the	strategy to ensure	
		assessment must be		consideration in the		draft HyRA	the Outline HyRA	
		listed under sub-		outline HyRA.		submitted at D3	covers our	
		paragraph (2) of		_		and look forward	concerns. We	
		Requirement 8 of		We await the		to reviewing an	look forward to	
		the dDCO [APP-		submission of the		amended version	reviewing the final	
		005]. An outline		outline HyRA for		for D5.	version of the	
		Hydrogeological risk		review at Deadline 3.			Outline HyRA to	
		assessment should					be submitted at	
		be provided in					D5.	
		support of the					20.	
		Outline CoCP [APP-						
		193]						
		190]			l			

0677.7	Protective	This matter is on-	076.1	This matter is on-	056.9	This matter is	This matter is	This matter has
	Provisions	going.	1	going.		on-going.	on-going.	been agreed in
		We are in on-going		We are in on-going		The EA have now	There are two	principle.
		discussion regarding		discussion regarding		provided	comments that	We have agreed
		the final form of the		the final form of the		comment on the	remain to be	final wording and
		protective		protective provisions.		Applicant's	resolved. The	look forward to
		provisions.				proposed edits to	outstanding	confirming that
						the EA standard	points relate to	this is included in
						PP wording. We	cessation of	the final DCO
						are in on-going	works where this	submitted at
						discussion and	may cause	Deadline 6.
						fully expect to	damage; and the	
						agree protective	Applicants' ability	
						provisions before	to review plans of	
						the end of	any Agency works	
						examination.	which may cause	
							damage to the	
							cables.	
							We are in on-	
							going discussion	
							and expect to	
							close out these	
							points in advance	
							of Deadline 6.	

Yours faithfully

Planning Specialist – National Infrastructure Team

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Appendix A:

Environment Agency comments regarding [REP5-102] Outline Hydrogeological Risk
Assessment vF02

Sub topic	Ref	EA submission	Applicants Strategy to update Outline Hydrogeological Risk Assessment at D5	Environmen t Agency response to Applicant's strategy for D5	Version F02 at
Geological setting	132 132 2	clarification of the	Provide borehole logs from both site investigations	Satisfied	We are pleased to see the inclusion of the requested borehole logs. We agree in principle with the current preliminary hydrogeological conceptual model
	132.3	summary information provided in the report. The interface between the Blown Sand deposits and underlying Glacial Till at CP+RC is indicated to be different depths in subsections 2.3.3.4 and 2.3.3.12.	Correct the naming inconsistency of the eastern borehole to be LHBH01 Clarify depth of interface between Blown Sand deposits and Glacial Till. Update Figure 2.7 to remove the Middle Sand layer in LHBH01 Include description of Middle Sand deposits and clarify where this was encountered.	Satisfied	Naming inconsistency has been resolved Relative interfaces of Blown Sand, Middle Sand and Glacial Till have been revised in the text and now reflect the as- observed borehole logs better.

		hydrogeological setting of the site, shows the presence of a thick horizon of 'middle sand' deposits immediately underlying blown sand, or peat and alluvium deposits, which are not discussed in the borehole summary.		
Groundwa ter monitoring	132	support the assumptions made in this report and we request further ground	Amend the assumptions in the groundwater conceptual model to reflect the level of uncertainty and the level of risk within the risk assessment to reflect precautionary approach.	We are pleased to see the current uncertainties reflected in the report and note that Section 5.1.1.1 states that the hydrogeological risk assessment will be informed by ground investigation information(s) where necessary and practicable. We are content that these can be carried out post-consent as necessary to inform detailed the detailed HyRA and detailed design. The Environment Agency should be consulted on the scope of these investigations.

lc	REP4-	We have concerns	Integrity of LHBH01	Satisfied	See response to
		that the	cannot be guaranteed	Satisfied	REP4-132 132.4.
		groundwater	(already questionned		Please note that
-	122 5	Γ			
		monitoring data	in the OHyRA) and not		although the
		provided in the	installed within the		proposals are for
		Hydrogeological	Blown Sands.		ground
			Therefore, Project to		investigation
		from a single	commit to undertake		where necessary
		borehole location,	installing new		and practicable,
		covers a brief	boreholes and		we do not
		monitoring period	undertaking		consider the
		and may not be	monitoring. Scope of		current
		reliable.	investigation to be		information to be
			agreed with the EA.		sufficient to form
		 Insufficient 			the basis of the
		groundwate			detailed HyRA.
		r data to			We look forward
		validate the			to agreeing the
		assumption			scope of further
		s in the			investigation to
		Outline			inform the
		Hydrogeolo			detailed HyRA
		gical Risk			post grant of
		Assessment			DCO.
					DCO.
		0			
		o Single			
		borehole			
		o Installation			
		targets			
		Glacial Till			
		rather than			
		Blown			
		Sands			
		Janus			
		 Integrity of 			
		the			
		borehole			
		cannot be			
		guaranteed			
<u> </u>		_			
		The report states	Include clarification	Satisfied	The report has
	132	that shallow	regarding where		been updated. We
	132.6	groundwater	observations of		note that no water
	132.0	conditions	shallow groundwater		strikes are
		encountered at	conditions were		recorded for
		CP+RC were absent	encountered and		borehole
		in 'a borehole to the			MORGAN_A2_CP
		west of the			01B, but that
		<u> </u>	1	L	1

Шоот	DED4	require clarity from the Applicant: • Which borehole this relates to. • Whether the observations relate to monitoring or water strikes and provide further information. • It is unclear if borehole to the west of the SSSI was dry or if groundwater was encountered at a comparatively greater depth. The Applicant may wish to refer to BGS borehole record SD33SW183, centred at National Grid Reference 331620, 430400. This provides pumping test data dated 1999 from a borehole located at St. Anne's Old Links Golf Club		The	water was added to aid drilling from 1.2 mbgl to 16 mbgl. This is likely to have masked any water strikes and we consider no conclusions can be made about groundwater presence/absenc e below 1.2 mbgl in this location. The report should take this source of uncertainty into consideration.
Heat impacts	REP4- 132 132.7	regarding heat dissipation being	Update the assumptions with further detail from the ground investigations to date and the thermal properties of the underlying geology. Include assumptions from engineers on the anticipated thermal emissions based on other schemes.	The proposal to provide more detail is welcomed. Rather than describing heat dissipation as being 'unlikely' to	The edits to Sections 3.4.3.7 to 3.4.3.13 are welcomed. These are not currently reflected within Table 3-2, which continues to refer to the low conductivity of dry sand as a mitigating factor.

		to provid	detai inform levels le dissip rate soil of provi engir avails r es ng ring ion g ted ns ried	iled engineering mation regarding s of heat loss and pation through can only be ided when final neering design is	impact groundwater , we would suggest that at this stage it is just 'unquantifie d'.	
13	32.8 32.8	The report then describes the measures taken manage mutual heating effects foffshore cables and states that a any heat dissipation offshore cable likely to be localised and confined to area immediately surrounding the	to shou onsh rom Provi the local cond tion sand level that is on the sand	ald refer to nore cables'. ide evidence on ow thermal ductivity of dry I and provide high quantification of neat dissipation is expected based ne thickness of I present at the	consideration that the sand may be wet, not dry. Groundwate (GW) levels in the existing Airport borehole and data	sections 3.4.3.8,

		offshore cables a	depth of the buried	abstraction	
		similar situation	•		
				holes	
		would be likely for		suggest that	
		groundwater		shallow GW	
		impacts. We do not		is present so	
		agree with this		sand may be	
		assumption and are		saturated at	
		of the opinion that		shallow	
		there is significantly		depth.	
		more potential for		NA (*11 +1	
		heat dissipation in		Will the	
		the open offshore		cables be	
		environment where		'suitably	
		surrounding water		spaced out'	
		can circulate freely.		within the	
		Depending on		direct pipe	
		groundwater flow		ducts under	
		rates and the		the SSSI??	
		thermal			
		characteristics of			
		the surrounding			
		soil, the extent of			
		thermal influence			
		for onshore buried			
		cables could be			
		significantly higher.			
Dewaterin	REP4.13	The Applicant	Confirm that	Satisfied	Satisfied that this
g	2	should provide	anticipated dewatering		information can
	132.12	anticipated daily	volumes would be		be provided at
		dewatering	provided at detailed		detailed design
		volumes.	design (e.g. confirmed		stage in the
			depth of the exit pits		detailed HyRA.
			and management		
			temporary		
			construction works)		
			and information from		
			the ground		
			investigations (e.g.		
			permaeability of the		
			blown sands and		
			depth of the water		
			table)		
			(abito)		
	REP4.13	The risks to	Update OHyRA to	Satisfied	Satisfied that
	2	groundwater from	include potential		these risks to the
		contamination	contamination from		point of
		•		•	

and 132.10	Blackpool Airport (historically RAF Squires Gate)	Blackpool Airport and cross reference to information within the Environmental Statem ent. Confirm that contaminant testing would be included as part of the future investigation. Subject to the results of the investigation, a strategy to monitor and manage the contaminants would be agreed with the EA.		dewatering and the golf course abstractions are now referenced in the report and any contaminated groundwater would require assessment to determine management and disposal.
	risks presented to the golf course abstractions as the conclusions/outco	OHyRA regarding the golf course abstractions (where available). As a precautionary approach (until site specific information is available), the risk ranking will be updated to Moderate. Include measures to mitigate temporary impacts to the golf course abstraction (e.g. provision of alternative supply during construction).	approach. Once site specific information is available,	Satisfied with this position based on the current information.
REP4- 132 132.14	the zone of influence for the	discuss the relative potential impact for the SSSI.	proposal to provide more	Sections 3.4.2.2 to 3.4.2.4 now provide rationale to demonstrate that worst-case parameters would not result in a radius of

will not extend to	with the	influence from
the Dunes SSSI.	likely	Exit Pits to the
	conclusion.	SSSI boundary.
	Please	Satisfied with this
	provide	outcome.
	evidence to	
	support this	
	conclusion,	
	as per that	
	already	
	provided for	
	entry pits.	