

The Planning Act 2008

Sizewell C (SZC)

Planning Inspectorate Reference: *EN010012*

Deadline 3 – 24 June 2021

East Suffolk Council's (20026200) Response to SZC Co.'s responses to Examining Authority's First Round of Written Questions

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East Suffolk Council has only included questions and answers in the table where we have a specific comment to make in response.

Examining Authority First Written Questions			ritten Questions		
ExQs	Questi	Question:	East Suffolk Council's	Summary of SZC Co.	ESC Response to SZC Co. response based on
1	on to:		(ESC) Response	response	submissions at D2
G.1 Ge	neral and	l Cross-topic Quest	ions		
G.1.0	The	As drafted the DCO	ESC shares the ExA's	SZC Co. answer – limited by R	ESC's view is that Requirement 8 appears to relate
	Applica	has no limitation on	concerns in relation to the	8	only to Work No.1. It limits the building and use of
	nt	the depth to which	apparent lack of limits of		the buildings comprised in Work No.1 to be in
		works could be	deviation in the draft DCO		'general accordance with' the Construction Method
		undertaken. Please	[APP-059]. As currently		Statement and the Main Development Site
		explain how this	drafted, Article 4 allows for		Construction Parameter Plans.
		aligns with the	unlimited vertical limits of		
		assessment carried	deviation, except for works		Firstly, ESC queries the use of the term, 'in general
		out within the ES. In	4C, 11 and 12 for which		accordance' and considers that this is too vague for
		order to reflect the	there are some restrictions.		a commitment to be meaningful and would welcome
		assessment within	This is troubling as it appears		the wording being amended to 'in accordance'.
		the ES does the DCO	'		
		not require a	any vertical limits of		In addition, although ESC can see that the Main
		maximum depth of	deviation, potentially		Development Site Construction Parameter Plans (as
		excavation – with a	without this having been		submitted for Deadline 2:
		potential for a limit	environmentally assessed.		https://infrastructure.planninginspectorate.gov.uk/
		of deviation? If this	ESC would welcome an		<u>wp-</u>
		is not considered to	explanation from the		content/ipc/uploads/projects/EN010012/EN010012-
		be necessary,	Applicant about how, if there		004671-D2%20-%20Sizewell%20C%20Project%20-
		please explain how	are to be restrictions, these		%200ther-
		the ES has assessed	are to operate, and if there		%20Updated%20Main%20Development%20Site%20
		the potential effects of unlimited	are not any restrictions, how the extent of excavations has		Construction%20Parameter%20Plans.pdf) do show
			the extent of excavations has		some heights, these relate to 'height and working
		excavation.			parameters required during the construction phase'

			been environmentally assessed.		and do not relate to finished building heights. The plans also identify 'general' and 'exceptional' condition heights which vary substantially and ESC has not been able to find an explanation of this within the application documents. Could the Applicant please provide a further explanation of this?
					ESC also considers that the Applicant has not responded to question G.1.0 in full. The question appears to require information on the depth of excavation which the Applicant's answer does not appear to cover.
G.1.42	The Applican t	In [AS148] Table 2 refers to how Article 3 and 4(1)(a) set vertical limits to control the parameters of development. (i) Please explain how this would be achieved for each of the associated development sites where there are no parameters plans and are not specifically covered by these articles except for	ESC shares the ExA's concerns in relation to the absence of limits of deviation and refers the ExA to its response to question G.1.0.	The ExA is referred to Appendix 14I – DCO Drafting Note 9 of the written responses.	ESC maintains its previous position. Despite the Applicant's Drafting Note 9 submitted for Deadline 2 which seeks to explain the Applicant's approach to limits of deviation, ESC considers that the approach to any committed limits of deviation remains unclear. ESC would like to see Article 4 drafted so that it directly ties the limits of deviation to a distinct set of plans where these limits, both horizontal and vertical, are shown.

		Work No. 4C, Work No. 11 and Work No. 12. (ii)			
		Is it not fairer to			
		say that there are			
		no vertical limits			
		of deviation in			
		these locations as			
		parameter plans			
		have not been			
		provided and as			
		the DCO is			
		currently drafted? As this document			
		is intended to be			
		a signposting			
		document to aid			
		the public's			
		understanding of			
		the DCO, is this a			
		fair			
		representation to			
		them?			
G.1.43	The	In [APP 451] SLR,	As the local authority who	The vertical limit of deviation	No further comment.
	Applican	Noise and	would deal with any noise	of 1m applicable to the	
	t	Vibration para	complaints, ESC is eager to ensure that noise and	Sizewell Link Road (Work No.	
		4.6.40 the ES		12)	
		seeks to explain that a parameters	vibration has been correctly assessed in the ES and that	and Two Village Bypass (Work No. 11) are secured in the	
		approach has	this translates into	Draft DCO (Doc Ref. 3.1(C)) by	
		been adopted,	appropriate control	article 4(1)(b).	
		and this is	measures in the draft DCO.		
		duplicated in para	It would welcome an		

	4.6.37 of [APP 415] (TVB Noise and Vibration). Both Chapters appear to rely on a limitation of vertical deviation of 1m. Please show where this is set out and secured in the DCO.	explanation from the Applicant as to how this is to be achieved.		
G.1.45 The Application to the Ap	Practice The CoCP [AS 273] sub heading rit m) indicates SZC	Paragraph 3.1.45 – 3.1.49 of the CoCP [AS-273] does reference SZC Co. as taking responsibility for all enquiries and complaints. However, ESC, as a statutory investigating authority for planning and noise complaints is not able to hand this responsibility to the Applicant. Statutory complaints will therefore continue to be investigated by ESC in consultation with the Applicant where appropriate. Minor complaints or queries that are considered by ESC to be better dealt with by	All complaints are and will continue to be recorded and monitored through the 'Tractivity' database used by SZC Co. and personal data will be processed in accordance with SZC Co.'s privacy policy, which ensures compliance with the GDPR. The privacy policy is available here: https://sizewellcdco.co.uk/privacy-notice-and-policy/. It is, and will continue to be reviewed regularly and updated as necessary. SZC Co. will monitor, record and provide information on	No further comment.

the Applicant, will be complaints monthly to referred to the Applicant relevant following a process to be authorities via the agreed. At 3.1.47 [AS-273] communications teams. This the Applicant acknowledges would not disclose any that ESC may also respond personal data that where it has overall could breach the GDPR. responsibility. ESC, upon taking a call that is considered better dealt with by the Applicant would redirect the caller to the Applicant thus avoiding any compromise of our own published privacy and GPDR requirements. If a caller is making a complaint that ESC has a duty to investigate under our statutory responsibilities, then we will do so in accordance with our existing privacy and GPDR requirements. Although article 10 of the draft DCO proposes some limitations on the scope of statutory nuisance proceedings (see also the response to DCO.1.28

below)the duty remains
placed upon ESC under S.79
of the Environmental
Protection Act 1990 to
investigate complaints of
statutory nuisance received.
ESC will still be responsible
for enforcing the DCO and
associated documents to
ensure that agreed criteria
are being complied with and
this will rely partially on
involvement in the
complaints process. It is
likely that we would require
notification of complaints
and regular updates on
investigation and actions
taken on complaints
received directly by Sizewell
C, we would also liaise with
Sizewell C about complaints
received directly by us in our
role as the regulatory
authority in respect of the
DCO and relevant legislation.
ESC would disagree that SZC
Co would "lead" on
complaints although their
role in investigating and
resolving them is critical. On
a project of this scale and
scope we would be envisage

			that there would be a collaborative approach in		
			dealing with complaints to efficiently resolve matters		
			arising but ultimately, we are		
			the regulating authority for		
			many matters including the		
			DCO itself. In terms of		
			reconciling any information		
			sharing with Sizewell C this		
			would have to be compliant		
			with the GDPR and would		
			not occur if it were		
			otherwise.		
G.1.53	ESC,	Code of	Noise and Vibration:	The CoCP (Doc Ref. 8.11(B))	No further comments.
	SCC, EA,	Construction	In terms of noise and	includes precise controls that	
	Natural	Practice (CoCP)	vibration we do not currently	provide clarity on the	
	England	The CoCP would	consider the draft CoCP [AS-	measure, scope and timing for	
		be an important	273] to be sufficiently robust	each commitment relied on by	
		part of the	and precise and	the ES. Given the scale and	
		mitigation	consequently enforceable.	complexity of the construction	
		strategy for	We are however in	process there may be	
		dealing with and	continuing discussion with	instances where minor	
		controlling	the Applicant in respect of matters of concern.	derogations	
		potentially adverse effects	matters of concern.	are needed, or where more than one set of controls apply	
		from the various	Ecology:	to a specific set of works and	
		construction	As drafted the CoCP does	there may be ambiguity over	
		activities. Do you	not currently capture all of	which control takes	
		consider that as	the appropriate ecological	precedence where a conflict	
		drafted it is	mitigation measures, for	may exist.	
		sufficiently robust	example relating to the most	,	
		and precise and	recently submitted		

 1	1		
consequently	mitigation strategies for bats	These limited instances mean	
enforceable?	and otters. Please see the	that a degree of flexibility is	
	LIR [REP1-045] for more	therefore both necessary and	
	detailed comments on this.	appropriate.	
	The current draft CoCP does	The proposed governance and	
	not fully capture the	monitoring arrangements	
	ecological mitigation	secured will then ensure that	
	strategies necessary for	ESC, SCC, the EA and NE will	
	some of the Associated	have sufficient oversight of	
	Developments, including the	the Project to ensure that	
	Two Village Bypass, please	relevant measures and	
	see our LIR for comments in	commitments can be	
	relation to this.	monitiored and enforced.	
	Given the importance of the		
	CoCP as the mechanism for		
	securing delivery of many of		
	the necessary construction		
	ecological mitigation		
	measures, it is essential that		
	they are correctly captured		
	within the document.		
	Air Quality:		
	There are matters within the		
	CoCP that are still under		
	discussion and as such the		
	document is still evolving		
	and further discussion will		
	be required around		
	mitigation measures.		

AG.1 Agr	riculture	and Soils	In terms of air quality, we do not currently consider the CoCP to be sufficiently robust, precise and consequently enforceable. We are however in continuing discussion with the Applicant in respect of matters of concern.		
AG.1.4 E	ESC, Natural England	Impact Assessment The temporary compounds associated with the Saxmundham to Leiston branch line rail improvement works have not been included in the agriculture and soils assessment [APP563]. Please confirm if you are satisfied with this approach?	ESC recommends that all potential impacts, including those relating to the proposed temporary compounds, should be fully assessed as part of this DCO Application. The Applicant acknowledges in Section 10.3.10 of ES Volume 9, Chapter 10 Soils and Agriculture assessment [APP-563] that 'the screening exercise has also considered the potential for the proposed rail improvement works on the Saxmundham to Leiston branch line to result in environmental effects which could be significant' however have concluded that 'as these works would be limited to	For information, Volume 9, Chapter 10 of the ES [APP-563] states that these have been scoped out due to their small size (each being approximately 0.5ha in size) and the shortterm use of these before the land would be reinstated. The assessment considers that this would result in negligible impacts on agricultural land or operations.	No further comment.

the renewal of the track using new ballast, flat bottom continuously welded rail and concrete sleepers and would take place within the existing railway corridor, with the exception of the temporary compounds, the works are unlikely to impact on agricultural land or operations'. It is noted from Table 10.1 within [APP-563] that each temporary compound would have an approximate footprint of 0.5Ha and would be located on adjacent land. ESC is therefore not satisfied with the approach taken by the Applicant on this matter. The temporary compounds are not located within the existing railway corridor and potential impacts should therefore have been assessed. Further justification should be provided by the Applicant if their position not to include these structures in

			the assessment is		
			maintained.		
AG.1.1	The	Soil Management	n/a	As outlined in IAQM	ESC has requested screening/fencing of stockpiles.
3	Applican	ESC note that		guidance36, the seeding of	The CoCP does not go far enough in this regard. This
	t	dust nuisance is		stockpiles and earth bunds, or	matter is under discussion between ESC and the
		likely to be		other measures to reduce dust	Applicant.
		minimal with the		and run-off, are appropriate	
		proposed		where stockpiles or bunds are	
		mitigation in		to be left in situ for extended	
		place [RR-0304].		periods or where they are	
		ESC has however		located close to site	
		requested that		boundaries or sensitive	
		stockpiles and		receptors. As outlined in the	
		earth bunds are		dust management plan within	
		turfed and		the CoCP (Doc Ref. 8.11(B)),	
		fenced/screened		seeding of stockpiles or earth	
		in locations which		bunds, or other appropriate	
		are within 350m		measures such as fencing or	
		of sensitive		screening will be undertaken	
		human health		at sensitive site boundaries	
		and ecological		with early planting used	
		receptors to		where possible. This will be	
		minimise wind		secured through the detailed	
		whipping of loose		Dust Management Plan to	
		bund or stockpile		be prepared under the CoCP	
		material. Please		(Doc Ref. 8.11(B)) and	
		provide a		discharged by requirement.	
		response to this		Turfing of stockpiles or bunds	
		request including		is not proposed	
		confirmation of			
		how any such			
		commitments			

		would be secured.			
AG.1.1	The Applican t	Dust management Please provide a response to the issues raised regarding dust management for spoil heaps and stockpiles [RR- 0960, RR-0181, RR-1230, RR- 0636, RR-577, RR- 1162, RR-319].	n/a	The dust management plan, including proposals for monitoring and mitigation based on best practice measures, has been informed by the risks identified through the dust impact assessment. The dust impact assessment includes consideration of the materials to be stockpiled, and the heights and orientation of the stockpiles. The best practice mitigation measures outlined in the IAQM guidance37 have a long history of successful implementation in the UK. Dust monitoring measures will be specified within the Dust Management Plan and monitoring results reported monthly to the Suffolk County and East Suffolk Council.	ESC requests acknowledgment of the scale, nature and location of dust-generating activities in the specification of dust mitigation measures. The CoCP does not go far enough in this regard. This matter is under discussion between ESC and the Applicant.
AG.1.2 2	The Applican t	Code of Construction Practice In [RR-0304] ESC requested that the CoCP should specify that dust	n/a	As described in Table 12.17 of Volume 2, Chapter 12 (Air Quality) of the ES [APP-212], the surface stripping associated with earthworks in Zone A is identified to require activity specific mitigation.	ESC welcomes this confirmation and requests that it be added to the CoCP.

		deposition monitoring is required when soil stripping is undertaken within proximity of sensitive receptors. Please provide a response.		Monitoring would be undertaken such that applied mitigation is proportionate and effective. Based on the potential risk associated with this activity therefore, dust monitoring will be undertaken before and during this activity. Monitoring results will be reported monthly to the Suffolk County and East Suffolk Council as per the CoCP (Doc Ref. 8.11(B)).	
	r Quality	T			
AQ.1.3	ESC	Dust emissions Do you agree with the findings of the ES that the only potential source of significant air pollution would arise from construction dust?	Construction phase ESC agrees that potentially significant sources of air pollution will occur during the construction phase, but it has not yet been demonstrated that construction dust is the only potentially significant source of air pollution. ESC considers that it will be possible to limit the impacts of construction dust through mitigation so that they are insignificant. This was identified by the Applicant	The assessment has considered air quality effects from various emission sources including construction dust, construction traffic, NRMM, and operational emissions.	ESC stand by our original response.

within Volume 2, Chapter 12, Table 12.21 [APP-212], where residual risk after mitigation is low to negligible. The proposed mitigation is appropriate but may not be sufficient to achieve a negligible impact. Discussions between ESC and the Applicant are ongoing to finalise construction dust mitigation to ensure impacts are negligible (see Paragraphs 19.25 to 19.29 in the LIR [REP1-045]). ESC is in discussion with the Applicant regarding the minimisation and management of emissions from NRMM during construction. To minimise the impacts of NRMM, a request for the highest available emission standard and a cap on more polluting plant has been made within paragraph 19.3 of the LIR. ESC considers that there is a risk of potentially significant impacts on air quality within

			the Stratford St Andrew Air		
			Quality Management Area		
			(AQMA). ESC and the		
			Applicant have held		
			constructive discussions on		
			this matter, and it is likely		
			that this issue will be		
			resolved following further		
			discussion with the Applicant		
			(see LIR section 19.30).		
			Operational phase		
			The proposed development		
			will require the use of		
			emergency diesel generators		
			(EDGs). It is expected that		
			EDGs will be addressed		
			appropriately through the		
			environmental permitting		
			regime. In the event that		
			this does not occur, ESC may		
			seek further controls on		
			EDGs through the DCO		
			process (LIR Table 19).		
AQ.1.7	ESC	Dust emissions	No, baseline dust monitoring	(i) The baseline dust emissions	ESC stand by our original comment.
-		Are you confident	locations presented within	monitoring sites were selected	, , , , , , , , , , , , , , , , , , ,
		the baseline	Appendix 12E, Plate 1.2	to inform the construction	
		monitoring	[APP-214] do not necessarily	dust assessment with respect	
		locations chosen	represent worst-case	to the background dust	
		for assessing the	receptor locations.	deposition in the main	
		significance of	Construction dust	development site area, in	
		dust emissions	assessment figures in	particular where there may be	
			_	1 *	
		arising from the	Appendix 12A, figures 12A.1,	a history of dust generating	

main
development site
would
satisfactorily
provide sufficient
information such
that appropriate
standards can be
monitored
managed and
mitigated to
safeguard health
and amenity for
local receptors?

12A.4 and 12A.5 [APP-213] do not show dust deposition monitoring representative of Minsmere SPA/SAC, Sizewell Marshes SSSI, or human health receptors such as LE47 for main development site activities and trackout. In figure 12A.2, which is representative of activities associated with the main crag stockpile, site 5 is representative of worst-case ecological receptors. However, LE25 which is the worst-case human health receptor does not have a dust deposition monitoring location. For figure 12A.3, which represents lime spreading, worst-case monitoring has not been captured at human health receptor LE25, whereas the closest ecological site Minsmere is well represented with site 7. Please note that for matters relating to Statutory designated nature conservation sites we defer to Natural England for more detailed advice.

activities, in accordance with IAQM guidance₄₃. These locations include background sites for agricultural-source dust and salt/sand from coastal processes, as described in paragraphs 1.2.2 and 1.2.8 of Volume 2, Appendix 12E of the **ES** [APP-214]. (ii) No baseline monitoring was undertaken at Land East of the Eastlands Industrial Estate, Valley Road or Bucklewood Road as these locations were judged to be represented by the baseline monitoring in other areas. The outline Dust Management Plan (Table 1.1, Volume 1, Appendix 12A of the **ES**, [APP-213]) describes measures for dust monitoring. Baseline dust monitoring for identified receptors would be carried out prior to commencement of activities as detailed within Dust Management Plan secured by the measures set out in table 4.1 of the **CoCP** Part B (Doc

		Ref. 8.11(B)).	
At-	this stage, it may not be	<i>、,,</i>	
	ssible to be prescriptive		
I I I I I I I I I I I I I I I I I I I	out the specific locations		
	nere baseline and		
	nstruction phase		
	onitoring should be carried		
	t. This is because exact		
	nstruction details may not		
	known e.g., confirmation		
	which haul routes will be		
	rd-surfaced. ESC		
	commends that a		
	quirement for a minimum		
	mber of monitoring		
	cations, and a minimum		
	ne period for monitoring		
	ring construction activities		
	ould be specified, to be		
	reed at the CoCP/Dust		
	anagement Plan/CEMP		
	nge. This should include a		
	quirement for the		
	plicant and contractors to		
	opose and agree specific		
	cations with ESC as part of		
	e CoCP/Dust Management		
	an/CEMP.		
	<i>'</i>		
The	e Applicant has made a		
	mmitment to monitor and		
	ke corrective actions		
dui	ring construction works		

(Table 1.1 of Appendix 12A) [APP-213]. As such the Applicant's current baseline dust monitoring is not critical for control of dust impacts. It is expected that dust deposition and particulate monitoring locations will be agreed at the CEMP stage. There are not considered to be satisfactory mechanisms within the CoCP to ensure that corrective actions will be taken if dust deposition and particulate concentrations thresholds are exceeded. ESC requests that this be included within the CoCP. Further to this, paragraph 2.3.8 of the CoCP only requires the Applicant to approve contractors' construction environmental management plans (CEMP) [AS-273]. This should be amended to also require approval by ESC. ESC has made other requests in paragraphs 19.25 through to 19.29 of the LIR [REP1-

AO 1 1	ESC	Approach	045] to strengthen mitigation requirements.	The Applicant and ESC have	The Applicant's responses refer to an Air Quality
AQ.1.1 9	ESC	Approach (i) Is the Council satisfied with the overall approach of the Applicant to dealing with Air Quality? (ii) Do the Council have any specific criticisms it would like to make?	(i) ESC is satisfied with the overall approach. The Applicant has been in regular contact with ESC in preapplication and since submission. Many of ESC's concerns with regard to potential air quality impacts and how they should be assessed have been addressed. ESC and the Applicant have discussed and recorded approximately 86 separate comments after reviewing the air quality environmental statement, the majority of which have been addressed. (ii) ESC has a relatively small number of outstanding criticisms. The outstanding points are presented within the LIR Section 19 [REP1-045].	The Applicant and ESC have maintained regular dialogue regarding air quality assessment, predicted effects and proposed mitigation measures. These measures are being agreed through an air quality mitigation plan as detailed in the draft Statement of Common Ground between the Applicant and ESC (Doc Ref. 9.10.12).	The Applicant's responses refer to an Air Quality Mitigation Plan detailed in the draft Statement of Common Ground. No such plan is mentioned in the SoCG – the Applicant is asked to clarify what is meant here.
AQ.1.3 4	ESC, SCC, PHE, EA	Dust Soiling (i) Are you satisfied with the suggested mitigation to control the levels of dust arising	(i) ESC is broadly in agreement with the approach to mitigation proposed by the Applicant but has made some further requests for controls in relation to dust mitigation.	The Applicant notes that the approach to dust mitigation has been discussed and is being agreed with the Councils through the air quality	The Applicant's responses refer to an Air Quality Mitigation Plan detailed in the draft Statement of Common Ground. No such plan is mentioned in the SoCG – the Applicant is asked to clarify what is meant here.

AQ.1.3 5	ESC, SCC, PHE, EA,	from the development? (ii) If not what additional mitigation would you wish to see supplementing the Dust Management Plan, Outline Dust Management Plan or Code of Construction Practice? Dust Soiling (i) Are you satisfied with the	(ii) Additional controls requested by ESC are set out in paragraphs 19.25 to 19.29 of the LIR [REP1-045]. ESC interprets this comment as referring to monitoring, rather than mitigation of	mitigation plan, as recorded within the Statement of Common Ground (Doc Ref. 9.10.12). The Applicant notes that the approach to dust monitoring has been discussed and is	The Applicant's responses refer to an Air Quality Mitigation Plan detailed in the draft Statement of Common Ground. No such plan is mentioned in the
	Natural England	suggested monitoring of dust emissions from the development? (ii) If not what additional mitigation would you wish to see and how do you consider this should be secured?	dust. Dust mitigation is addressed in AQ.1.34. (i) ESC is generally satisfied with the dust deposition monitoring proposed within the CoCP. A flexible approach will be needed as the construction programme develops. (ii) Changes to CoCP wording are recommended as per AQ.1.11 [AS-273]. This should strengthen mechanisms for corrective actions following monitored	being agreed with the Councils through the air quality mitigation plan, as recorded within the Statement of Common Ground (Doc Ref. 9.10.12).	SoCG – the Applicant is asked to clarify what is meant here.

			exceedances and approval of CEMPs by ESC.		
AQ.1.3	The	Dust soiling	n/a	As described in Table 12.17 of	As with AG.1.22, ESC welcomes this confirmation
6	Applican	In light of the		Volume 2, Chapter 12 (Air	and requests that it be added to the CoCP.
	t	comments from		Quality) of the ES [APP-212],	
		ESC in [RR-0342]		the surface stripping	
		can you confirm		associated with earthworks in	
		that the CoCP will		Zone A is identified to require	
		address the need		activity specific mitigation.	
		for dust		Monitoring would be	
		monitoring during		undertaken such that applied	
		soil stripping to		mitigation is proportionate	
		protect sensitive		and effective. Based on the	
		receptors? If you		potential risk associated with	
		don't agree with		this activity, dust monitoring	
		this approach,		will be undertaken before and	
		please explain		during this activity. The	
		why.		monitoring requirement	
				would be secured through	
				compliance with the CoCP	
				(Doc Ref. 8.11(B)) under	
				Requirement 2 of the draft	
				DCO (Doc Ref. 3.1(C)).	
AQ.1.4	The	Mitigation	ESC considers that this is	(i) The level of mitigation	ESC anticipated that the Applicant would provide an
0	Applican	(i) The Applicant	principally a comment for	deployed for particular	explanation of specific further mitigation measures
	t, ESC,	suggests in	consideration by the	activities and locations has	that would be applied in response to question
	SCC	paragraph	Applicant.	been based	(i). No such explanation was provided by the
		14.7.79 [APP-224]		on a risk assessment of	Applicant. ESC would expect further discussion to
		that if exceeded	It is envisaged by ESC that	potential effects. The system	agree monitoring and reporting frequencies and
		of dust levels	any additional mitigation will	is by its nature proactive in	processes.
		occurs additional	be secured through the CoCP	identifying the need to apply	
		mitigation would	and be implemented into	more mitigation to works	
		be adopted –	each contractor's CEMP. As	tasks with greater potential to	

please explain what this might entail – particularly in light of the commitment within the CoCP to best practice? (ii) How would this additional mitigation be secured? (iii) In the event the threshold of 0.5g/m2/day had been exceeded – what would the consequence be? E.g. would work need to cease until the threshold level had fallen below the agreed level? Please explain the practicalities of what would occur on the ground and how this would be monitored, and the agreed level reached.

per AQ.1.11. the CoCP does not currently have satisfactory wording regarding this matter for corrective actions such as mitigation to be included within a contractor's CEMP [AS-273]. As such ESC recommends that the CoCP is updated to explicitly state the monitoring exceedance thresholds and that corrective actions should be taken to ensure impacts are brought well below exceedance thresholds.

ESC expects the details of corrective actions to be defined by the contractors in the CEMP, once construction details are better understood. As such, ESC requests that CEMPs are agreed with the Council in advance of construction works commencing to ensure that corrective actions are satisfactory.

ESC anticipates that mitigation measures may include measures such as

generate dust emissions, and reactive in immediately responding to, visual appraisal of dust generation risks and meteorological conditions. In line with best practice, the dust deposition rate monitoring generates data that initially confirms that management measures are as effective as is expected (i.e. rates below 0.5g/m₂/day) and then provides a point of reference to check for any erosion in the margin of ongoing delivery of the same high level of protection. The approach is intended to deliver effective ongoing protection to sensitive receptors, rather than being a short term alert system. (ii) See response to question AQ.1.10, the additional mitigation is secured through compliance with the measures set out within the CoCP (Doc Ref. 8.11(B)). In addition, the mitigation measures will be documented in the Dust Management Plan which will

			temporarily halting of dust- generating activities during	include additional control measures to be employed in	
			periods of adverse	the event of for example	
			meteorological conditions,	unfavourable weather	
			increasing the intensity of interventions such as water	conditions.	
				(iii) The dust monitoring results will be collated weekly	
			spraying, or extending the zones within which specific	so works will not immediately	
			measures such as road	link	
			surfacing are implemented.	to dust monitoring results.	
			Any such measures would	However, the contractor will	
			generally be proposed by the	use visual appraisal of dust	
			Applicant or its agents for	levels	
			consideration and	during works and will increase	
			agreement by ESC.	control measures or	
				mitigation, if required based	
				on the	
				conditions at the time of	
				works. If monitoring results	
				indicate exceedance of the	
				threshold then additional	
				controls will be proposed to	
				and agreed with the	
				Environment Review	
AQ.1.4	The	Dust Emissions	i) The request for	Group. The Applicant notes that the	The Applicant's responses refer to an Air Quality
1 AQ.1.4	Applican	(Rail)	screens/fences identified in	approach to dust monitoring	Mitigation Plan detailed in the draft Statement of
_	t, ESC	(i) ESC in the [RR-	paragraph 2.207 is targeted	has been discussed and is	Common Ground. No such plan is mentioned in the
	5, 250	0342] at	to the green rail route [RR-	being	SoCG – the Applicant is asked to clarify what is
		paragraph 2.207	0342]. A similar request was	agreed with the Councils	meant here.
		please clarify if	also made for the northern	through the air quality	
		you are seeking	park and ride (RR paragraph	mitigation plan, as recorded	
		screens/fences in	2.168). This may still be	within the	

		relation to	noutinout whom it comes to	Statement of Common	
			pertinent when it comes to		
		general	development of the CEMP.	Ground (Doc Ref. 9.10.12).	
		earthworks	(ii) During a meeting with		
		across the main	the Applicant, it was clarified		
		development site	that there are insufficient		
		and associated	receptors for this to be a		
		development	high-risk location. No further		
		sites. (ii) Have	information is sought by ESC		
		further	in relation to this point.		
		discussions			
		progressed	As mentioned previously, a		
		identifying the	request for the CEMPs to be		
		areas of concern?	approved by the Council is		
		Please advise the	proposed by ESC. This will		
		ExA where these	enable the need for screens		
		are and whether	and fences in this location to		
		an agreed	be reviewed and agreed		
		approach to	once construction details are		
		protecting these	finalised.		
		receptors has			
		now been			
		reached?			
AQ.1.4	The	Human Health	Construction mitigation is	The mitigation identified is	CoCP to be updated in accordance with our original
2	Applican	(particulate	considered satisfactory to	considered to be sufficient to	answer.
	t, ESC,	matter)	mitigate human health	avoid adverse impacts to	
	PHE	Paragraph	impacts associated with	human	
		12.6.11 of [APP-	construction dust activities.	health, because the level of	
		212] suggests	However, as per paragraphs	mitigation has been defined	
		that there could	19.25 through to 19.29 of	by the need to mitigate the	
		be a risk to	the LIR [REP1-045] some	higher risk of dust soiling	
		human health if	recommendations have been	impacts at receptors, rather	
		long term dust	made to strengthen	than the lower risk of PM ₁₀	
		generating	mitigation. As mentioned	impact;	
	<u> </u>	Berieraning	magadom / S mendoned		

		activities increase the baseline level within a receptor area. Do you consider the mitigation	within ESC's response to AQ.1.40, wording alterations to CoCP dust monitoring and agreement of CEMP with ESC should be included.	and such mitigation would also lessen the risk of potential PM ₁₀ impact, as described at paragraph 12.6.12, and Table 12.16, Volume 2, Chapter 12	
		identified would be sufficient to avoid adverse effects to human health?	Any increase in exposure to PM _{2.5} would have an additional effect on human health, as there is no threshold for these effects. However, smaller increments in PM _{2.5} have progressively smaller effects on health. Provided the controls on dust requested in the LIR are implemented, ESC considers that the controls on particulate matter due to dust generating activities would be sufficient to avoid significant adverse effects on human health.	(Air Quality) of the ES [APP-212]. As detailed in Volume 2, Chapter 12 of the ES (for main development site) [APP-212]; Chapter 5 of Volumes 3-9 of the ES (for associated developments) [APP-357, APP-387, APP-418, APP-454, APP-487, APP-517 and APP-548] and the CoCP (Doc Ref. 8.11(B)), localised changes in air quality during construction, are temporary; associated with specific activities; and not of a concentration or exposure sufficient to quantify any	
				measurable adverse health outcome at any receptor.	
AQ.1.4 5	The Applican t, ESC	Andrew AQMA Please advise on the latest position in respect of the assessment of air quality in the	Mitigation proposed by the Applicant sufficiently minimises the likelihood of significant impacts. Provided this is satisfactorily secured in the CoCP or other documents, this is	The Applicant notes that the robustness of the assessment in the Stratford St Andrew AQMA has been discussed and is being agreed with the Councils through the air quality	The Applicant's responses refer to an Air Quality Mitigation Plan detailed in the draft Statement of Common Ground. No such plan is mentioned in the SoCG – the Applicant is asked to clarify what is meant here.

		Stratford St Andrew AQMA and whether the assessment is now considered robust indicating whether there remain concerns on the assessment undertaken or whether the additional sensitivity testing has now resolved any concerns in this area.	considered robust and ESC would not have further concerns regarding this issue. Refer to paragraph 19.1 of the LIR [REP1-045] for further details.	mitigation plan, as recorded within the Statement of Common Ground (Doc Ref. 9.10.12).	
AQ.1.4	The Applican t, ESC	Stratford St Andrew and Woodbridge AQMA (i) In light of the proposed development do you agree that both AQMAs would remain within legal limits assuming the worst-case scenarios for traffic movements? (ii)	(i) The management and mitigation of HGVs and associated emissions to air is still under discussion between ESC and the Applicant. It is difficult to accurately forecast air quality trends within the AQMAs in the light of wider issues such as the effect of Covid-19 epidemic and lockdowns on traffic movements and vehicle fleets. However, it seems likely on balance that both	i) Sensitivity testing has been undertaken to support the assumptions of the transport emissions assessment. No exceedances of air quality standards are predicted in the AQMAs as a result of the development, as reported in the Volume 3, Appendix 2.7.C (Transport Emissions Assessment) of the ES Addendum [AS-127]. ii, iv) Ongoing discussions are being held with ESC regarding an agreed management and	The Applicant's responses refer to an Air Quality Mitigation Plan detailed in the draft Statement of Common Ground. No such plan is mentioned in the SoCG – the Applicant is asked to clarify what is meant here. The Applicant notes that "It is agreed between the Applicant and ESC that NO2 monitoring undertaken by the Council will continue to be supported financially by SZC Co." ESC will discuss further with the Applicant to confirm the level of support envisaged.

Is there an agreed management and monitoring approach through the lifetime of the project? (iii) How will traffic from other projects be taken into account to ensure that air quality standards will be maintained? (iv) In the event there is congestion on the A12 what would be in place to monitor this, and ensure air quality remained within acceptable levels within Woodbridge and Stratford St Andrew AQMAs but also would not adversely affect other areas? (iv) What would be in place to secure appropriate mitigation?

AQMAs will remain within legal limits, particularly with the Applicant's commitment to Euro VI targets. Provided appropriate mitigation of **HGV** emissions is satisfactorily secured in the CoCP or other documents. ESC considers that the impacts of the proposed development within both AQMAs would remain acceptable. The worst case has been assumed to be the early years traffic scenario before the Two Village bypass is completed. However, as a precautionary measure the number of HGVs passing through the AQMA should be capped until such time as the Two Village bypass is open for use.

(ii) The pre-submission details shared by the Applicant with ESC suggest an acceptable mitigation strategy.

monitoring approach. It is agreed between the Applicant and ESC that NO₂ monitoring undertaken by the Council will continue to be supported financially by SZC Co. iii) A detailed assessment of the cumulative effects of transport emissions in combination with other schemes (including SPR EA1N and EA2) has been undertaken, the results of which are presented in Volume 1, Chapter 10 (Project-wide, Cumulative and Transboundary Effects) of the ES Addendum [AS-189]. No significant effects or exceedances of air quality standards are predicted. Once SZC is constructed and operational, it will become part of the baseline to be considered by future projects thereafter. Similarly, projects coming forward now should take into account the predicted effects of SZC traffic through use of a modified baseline and consideration of cumulative effects.

(iii) ESC has taken into iv) In response to the Relevant account the potential for in-Representations and the combination impacts with engagement, SZC Co. has other projects, specifically committed to construction the East Anglia One North **HGV** vehicles meeting Euro VI and East Anglia Two emissions performance windfarm developments and standards, as confirmed in the CoCP (Doc Ref. 8.11(B)). SZC secured similar mitigation of **HGV** emissions from this Co. has shared an Air development. Quality Mitigation Plan with (iv) The relevant air quality the Councils which sets out standard is for annual mean how the improved concentrations, and shortcommitments term impacts such as could be implemented, as congestion would not be recorded within the expected to significantly **Statement of Common** affect this conclusion. In the Ground (Doc Ref. longer term, ESC 9.10.12). understands that the proposed development is not forecast to result in a significant increase in congestion on the A12 that could affect the AQMAs. Air quality monitoring in the AQMAs will continue and can be used to trigger the need for additional mitigation to be agreed with the Applicant, if this is required. (v) Mitigation will be secured through an appropriate

			management plan, under development between the Applicant and ESC.		
AQ.1.4 8	The Applican t	Air quality monitoring (i) Please confirm the commitment to undertake air quality monitoring and the timing of when this would commence for the main development site and all the associated development sites both prior to, and during construction and subsequent operation. (ii) In light of the concerns raised by ESC over NO2 levels in Stratford St Andrew AQMA, please advise how you would propose to monitor the air quality levels in	n/a	(i) Ongoing discussions are being held with ESC regarding an agreed management and monitoring approach. It is agreed between the Applicant and ESC that NO ₂ monitoring undertaken by the Council will continue to be supported financially by SZC Co., including the monitoring of compliance within the Stratford St Andrew AQMA but also at other locations. (ii) See above.	ESC Consider the Applicant's response is generally reasonable. The Applicant notes that "It is agreed between the Applicant and ESC that NO2 monitoring undertaken by the Council will continue to be supported financially by SZC Co." ESC may wish to discuss further with the Applicant to confirm the level of support envisaged.

		this area and elsewhere to ensure standards were maintained and no breaches of standards occurred.			
AQ.1.4	The Applican t	NRMM ESC have requested the adoption of low emitting plant and an assessment both alone and in combination of impacts on both human health and ecology from NRMM and other sources. (i) Please advise whether there is a commitment to low emitting plant and if so how this would be delivered. (ii) Has an assessment now been undertaken of the potential effects of NRMM	n/a	(i) In response to the Relevant Representations and the engagement, SZC Co. has committed to construction plant meeting Stage IV emissions performance standards. SZC Co. has shared an Air Quality Mitigation Plan with the Councils which sets out how the improved commitments could be implemented, as recorded within the Statement of Common Ground (Doc Ref. 9.10.12). (ii) Further discussions have been held with the Councils to agree the assessment conclusions and mitigation measures to be required for NRMM, as set out in the Air Quality Mitigation Plan within the Statement of Common Ground (Doc Ref. 9.10.12).	ESC consider the Applicant's response is generally reasonable, and discussions are ongoing. The Applicant's responses refer to an Air Quality Mitigation Plan detailed in the draft Statement of Common Ground. No such plan is mentioned in the SoCG – applicant should clarify what is meant here.

		and other sources as requested by the Council?			
AQ.1.5 1	ESC, EA, Natural England	Haul Routes (i) The Applicant has indicated that haul routes would be hard surfaced 'where practicable' – do you consider this approach to be adequate to safeguard sensitive receptors? (ii) Are there specific locations you consider that a more robust approach should be required, or should a more robust approach be provided across the main development site and associated development sites?	i) Hard surfacing "where practicable" is not considered to be fully satisfactory. ESC considers that the approach should be to provide hard surfacing where appropriate, in consultation with ESC if necessary within the CoCP (LIR 19.26 [REP1-0045]). ii) In other locations, alternative forms of mitigation (e.g. limit on vehicle speeds) would be sufficient. Rather than identifying specific locations ESC has suggested a methodology for hard surfacing site selection (paragraph 19.26 of the LIR [REP1-045]).	The wording relating to surfacing of haul routes has been discussed between the Applicant and the Councils and proposed wording is included in the Air Quality Mitigation Plan, as recorded within the Statement of Common Ground (Doc Ref. 9.10.12).	The Applicant's responses refer to an Air Quality Mitigation Plan detailed in the draft Statement of Common Ground. No such plan is mentioned in the SoCG – the Applicant is asked to clarify what is meant here.

AQ.1.5	The	Mitigation	n/a	The Dust Management Plan	The Applicant's response is incomplete and does not
4	Applican	Please explain		(DMP) is required to be	reflect ESC's understanding.
	t	how the various		submitted to the Applicant as	 Applicant's response does not mention
		elements of		part of the details submitted	CEMPs.
		mitigation relate		for the Code of Construction	 Applicant's response does not explain
		to each other,		Practice. The DMP must be in	relationship between DMP, Outline DMP
		and how they are		accordance with the principles	and CoCP.
		secured by the		of the Outline DMP as	 Applicant's response does not refer to the
		dDCO. In		amended by the agreed	structure of dust control plans.
		particular how		mitigation measures in the Air	
		the Outline Dust		Quality Mitigation Plan being	ESC's understanding is that the CoCP sets the
		Management		agreed between SZC Co. and	framework and principles for dust control,
		Plan (oDMP),		the Councils. There should be	mitigation and assessment. The DMP provides
		Dust		no conflict between the	specific guidance and details on dust control,
		Management		various documents but for the	mitigation and monitoring. Contractors develop
		Plan (DMP)		avoidance of doubt the	their own CEMPs which must be in accordance with
		relates to the		Outline DMP will take	the CoCP and DMP. Accordingly, it would be logical
		Construction		precedence on the dust	for the CoCP and then the DMP to take precedence.
		Environmental		control measures to be	
		Management		adopted.	
		Plans (CEMP) and			
		the Code of			
		Construction			
		Practice (CoCP).			
		Please also set			
		out which			
		document would			
		have precedence in the event of a			
		conflict.			
	ESC, SCC		The Outline Dust	The Applicant notes that	The Applicant's responses refer to an Air Quality
AQ.1.6 9	ESC, SCC	The Outline Dust	Management Plan is in the	further discussions have been	Mitigation Plan detailed in the draft Statement of
		Management	ES Annex 12A.1 [APP-	Turtiler discussions have been	Common Ground. No such plan is mentioned in the
		ivialiagellielit	L3 AIIIIEX 12A.1 [AFF-		Common Ground. No such plan is mentioned in the

Plan [APP-213] would be an essential part of the mitigation required to control construction activities on site. Do you consider it sufficiently precise that it would be enforceable?

213]. ESC expects that as an outline plan, further details would be provided as the construction programme is developed and refined, and contractors are appointed.

The Outline DMP refers to actions being taken "where possible" or "where practicable." ESC expects that such comments should always be interpreted in the light of the relevant dust management guidance produced by the Institute for Air Quality Management, with a presumption that the measures identified from this guidance should always be adopted and, where appropriate, enhanced in the light of the specific features of this proposed development (e.g. scale and coastal setting of construction activities; see response to AQ.1.12).

ESC considers that the Outline DMP is not fully enforceable at present, as would be expected at this held with the Councils to agree the mitigation measures to be required, as set out in the Air Quality Mitigation Plan (refer to the **Statement of Common**

Ground (Doc Ref. 9.10.12)).
The measures set out in Table
4.1 of the CoCP Part B (Doc
Ref. 8.11(B)) have been
informed by a dust risk
assessment and development
of an Outline Dust
Management

Plan provided in Appendix 12A of Volume 2 of the ES [APP-213]. The measures secured by Table 4.1 of the CoCP Part B (Doc Ref. 8.11(B)) will be implemented by the contractors and the relevant

measures set out in detail.

within the Construction

Environmental Management
Plan prepared by the
contractor for the relevant
stage of
works. These measures are

then secured by Requirement 2 of the **Draft DCO** (Doc Ref.

SoCG – the Applicant is asked to clarify what is meant here.

The Applicant suggests that the proposed dust controls in the DMP are "precise and enforceable". ESC does not agree, and is seeking further amendments to ensure that appropriate controls are available.

	0.4(0)) = .11	
stage. ESC will continue to	3.1(C)). Together these	
discuss the Outline DMP	controls are considered to set	
with the Applicant and will	out precise and enforceable	
seek to obtain firmer	mitigation measures.	
commitments to certain		
measures to render them		
fully enforceable. It is		
expected that with a		
requirement for the CEMP to		
be approved by ESC, the		
necessary specifics for		
enforceability can be		
introduced at this stage.		
Examples of DMP items for		
further clarification are		
provided below:		
G1.4, seeking		
confirmation of		
which activities		
would be halted		
during adverse		
weather conditions		
• G2.2, two		
construction		
activities are listed		
as "significant dust		
generating		
activities."		
Confirmation is		
sought regarding the		
sought regarding the significance status		
for all construction		
activities.		

• G2.4, seeking	
firm-sting of	
confirmation of	
which plant is	
considered to have	
"significant dust	
raising potential"	
G4.1, seeking further	
details of how	
surface stripping	
would be managed	
in the light of likely	
variations in wind	
direction	
• G5.2, seeking	
confirmation of	
when scabbling	
would be required,	
the extent of this	
activity, and any	
further controls to	
be applied	
• G7.1, to update in	
the light of more	
recent commitments	
made in relation to	
HGVs conforming to	
Euro VI emission	
standard	
• G7.4, seeking	
clarification of when	
vehicle idling could	
be considered be considered	

necessary and	
unnecessary	
• G7.5, seeking	
confirmation of the	
permitting status of	
stationary	
generators, and the	
arrangements that	
would apply if the	
stationary	
generators were not	
found to require a	
permit	
M5.3, seeking	
clarification of how	
operations would be	
managed in the light	
of daily weather	
conditions. Would	
this be based on	
measured or	
forecast conditions,	
and what steps	
would be taken if	
adverse conditions	
were identified?	
M5.4, seeking	
clarification of how	
the results of	
monitoring would be	
used to inform dust	
controls. What	
action would be	

		T		
		I		
		to confirm that the		
		problem had been		
		addressed? Would		
		site activities be		
		halted pending		
		agreement of steps		
		to be taken? How		
		would the		
		appropriate		
		authorities be		
		involved in the		
		process?		
The	Code of	ESC considers it acceptable	The CoCP (Doc Ref. 8.11(B))	The Applicant suggests that the proposed dust
Applican	Construction	to have some conditional	includes a range of targets and	controls in the DMP are "precise and
t, ESC,	Practice	wording for controls on	measures that would be	enforceable". ESC does not agree, and is seeking
SCC	The CoCP	construction operations at	defined and measured by	further amendments to ensure that appropriate
	contains general	this point, in view of	contractors during the course	controls are available.
	phrases such as	uncertainties in the	of construction works.	
	'where possible'	construction programme –	Detailed	
	and 'will seek to	these should become more	construction methodologies	
	ensure'. In such	developed as the	will be set out within the	
	circumstances	Implementation Plan	Construction and	
	how would the	evolves. ESC considers that	Environmental	
	local authorities	it is most important to	Management Plans that each	
	be able to	-	contractor would prepare for	
	enforce	control at this stage, with	• •	
	compliance?	the details to be completed		
	•	•		1
	Applican t, ESC,	Applican t, ESC, SCC The CoCP contains general phrases such as 'where possible' and 'will seek to ensure'. In such circumstances how would the local authorities be able to enforce	addressed? Would site activities be halted pending agreement of steps to be taken? How would the appropriate authorities be involved in the process? The Applican t, ESC, SCC The CoCP construction Practice SCC The CoCP contains general phrases such as 'where possible' and 'will seek to ensure'. In such circumstances how would the local authorities be able to enforce The Code of Construction process? ESC considers it acceptable to have some conditional wording for controls on construction operations at this point, in view of uncertainties in the construction programme — these should become more developed as the Implementation Plan evolves. ESC considers that it is most important to establish principles for dust control at this stage, with	an exceedance of a threshold, and what ongoing monitoring would be carried out to confirm that the problem had been addressed? Would site activities be halted pending agreement of steps to be taken? How would the appropriate authorities be involved in the process? The Code of Construction Practice wording for controls on t, ESC, SCC The CoCP construction operations at contains general phrases such as 'where possible' and 'will seek to ensure'. In such circumstances how would the local authorities be able to enforce wording at this stage, with an exceedance of a threshold, and what ongoing monitoring would be carried out to consfiruction be able to establish principles for dust contractor would prepare for a relevant stage of the

principles. ESC will continue construction stage. These to work with the Applicant would be reviewed and to refine and improve the agreed with SZC Co. CoCP and associated The absolute dust emission rate for any given task can not documents. be known with complete For some key sources of certainty prior to the task starting and this is why best pollution such as HGV traffic, ESC is in discussion with the practice is based on a risk based Applicant to eliminate approach that is able to caveats such as "where possible." The use of respond to changing ambiguous phrasing is not conditions, to maintain control helpful and can lead to of emissions problems with of dust on each task and enforceability. across the site as a whole. Monitoring and reporting measures will be used to demonstarte that contractors applying measures 'where possible' and *'seeking to ensure'* they control emissions as required, are effective in doing so. Monitoring and enforcement from East Suffolk Council would be secured through the monitoring and reporting measures agreed in the CoCP (Doc Ref. 8.11(B)) and through the Environment Review Group secured by the **Draft**

Deed of Obligation (Doc Ref.

		of the NRMM Emission Standards Directive to minimise NOx and particulate emissions on site." (i) This wording is not consistent across the main development site and other associated sites — is there a reason for this? (ii) Do the Councils consider that as			
AQ.1.7 8	The Applican t, ESC, SCC	robust? CoCP Table 4.2 refers to regular inspection and monitoring and this terminology is used in several places. Regular could ostensibly be once a year, While it is assumed this is	ESC understands that Table 4.2 acts as a framework for contractors to base their CEMPs upon [AS-273]. It will be the CEMPs that should contain more detail on the monitoring frequency. Currently there is no commitment within the CoCP for CEMPs to be approved by the local authority. As per previous	The approach to inspection monitoring will be secured through compliance with the CoCP (Doc Ref. 8.11(B)), as required by Requirement 2 of the draft DCO (Doc Ref. 3.1(C)). The detailed Dust Management Plan will specify the frequency of inspections – for some	The Applicant suggests that the proposed dust controls in the DMP are "precise and enforceable". ESC does not agree, and is seeking further amendments to ensure that appropriate controls are available.

		not the intention is there a more precise term that could be used to ensure maintenance and monitoring is undertaken expeditiously?	responses such as AQ.1.40, CoCP wording should be amended to require approval of the CEMP by ESC. This will provide a check on more detailed dust monitoring plans in the CEMP. ESC note the ExA's concerns and will work with the Applicant to develop an improved level of detail within the CoCP, DMP and CEMPs. For example, see response to AQ.1.72.	parameters this may be daily when works are being undertaken. Monitoring during construction will also be included in the Dust Management Plan. Dust monitoring results will be reported to the Councils monthly throughout the monitoring period and reviewed through the Environment Review Group (ERG), to which the Councils will be a	
ΛΙ 1 ΛΙ +	ernatives	NO QUESTIONS F	OR THE COLINCII	participant.	
		d Recreation	ON THE COUNCIL		
AR.1.0	The	Alde Valley	(I) ESC's expectation is that	(i) The latest position on the	Timing of delivery of these facilities will need to be
7.11.2.0	Applican	Academy Leiston	the off-site sports facilities	off-site sports facilities is set	discussed further with the Applicant. ESC consider
	t, ESC,	The off-site sports	will need to be open in	out in Schedule 10 of the	they should be in place before the Campus is
	SCC	facilities are	advance of or at the same	Draft Deed of Obligation (Doc	operational, this is achievable provided the funding
		regarded as an important	time as the accommodation campus. However,	Ref. 8.17(C)). It is intended that these would open	is in place at the appropriate time to enable ESC to deliver the off-site sports facilities without adversely
		mitigation in	construction of the off-site	around the same time as the	impacting on sensitive time periods at Alde Valley
		assisting the	sports facilities will need to	accommodation campus but	School.
		assimilation of	be timed so as to not	the wording is intended to	
		the workforce	adversely impact on	provide some flexibility in	
		into the area. As	sensitive time periods at	order to balance the benefits	
		currently set out	Alde Valley School e.g.,	of opening the facilities with	
		the facility would	examination time. Latest	the	
		not appear to	progress on the S106 is		

have a time frame for delivery, or in light of the ESC [RR-0342] resolved potential drainage concerns: (i) Please advise on the latest position in respect of the progress of the S106, surface water management issue identified, and what the timeframe for delivery of this facility would be. (ii) In order to achieve the necessary mitigation what timeframe for delivery would be required?

included in Schedule 10 [REP1-007] and we are progressing discussions further with the Applicant with regard to this element and ESC's role in design and build of the off-site facilities. Surface water drainage concerns will need to be addressed in the detailed design of the facilities; ESC is hopeful that this can be achieved but need to ensure it is secured through appropriate signing off of detailed design drawings incorporating an appropriate surface water drainage scheme. This could be secured via existing proposals for surface water drainage or through an alternative mechanism. (ii) the delivery of the off-site sports facilities will complement offerings to the workers at the campus, as such ESC would be keen for there to be a cap on number of workers permitted on site prior to the campus being available and for the off-site sports facilities to be

need to plan construction works at a time that minimises disturbance for Alde Valley School. For example, we would not want the off-site sports facilities construction to disturb pupils during public exams, so it may be more appropriate for these to open slightly later than the campus rooms.

The Main Development Site Flood Risk Assessment (Doc. Ref 5.2A) [AS-018] concludes that this site is at low risk from all sources of flooding. SZC Co. notes ESC's comments on surface water flooding and will design this facility to manage surface water in accordance with the Outline Drainage Strategy (Doc Ref. 6.3 2A (A)) and in particular such that off-site flood risk is not increased. The detailed design and drainage proposals will be subject to approval by East Suffolk Council in accordance with Requirement 5

			operational prior to or at the	(Project wide: Surface and foul	
			same time as the campus	water drainage) of the draft	
				DCO (Doc Ref. 3.1(C)).	
			opens.	(ii) While delivery is necessary	
				1 ` '	
				mitigation secured by the	
				Deed of Obligation and	
				meaningful in addressing	
				community concerns, it is not	
				necessarily linked to specific	
				milestones of the Project,	
				though would (as set out in	
				Question AR.1.0), SZC Co.	
				intends	
				to link the opening of the off-	
				site sports facilities to the	
				delivery of the	
				accommodation	
				campus, subject to the caveats	
				about disturbance to the	
				school in (i) above.	
AR.1.1	The	Alde Valley	(I) The effect on the local	(i) and (ii) Volume 2, Appendix	There is a disagreement between the Applicant and
	Applican	Academy Leiston	community is likely to be	9E (Sport and Leisure Audit	ESC as to the significance of effect on the local
	t, ESC,	(i) In the event	significant as there are	and Estimated Demand) of	community if the off-site sports facilities are not
	SCC,	that the sports	limited facilities in Leiston	the ES [APP-196] sets out that	provided in a timely manner. However, ESC is
	Leiston	pitches and	currently.	the proposed facilities are not	confident that they can be delivered in a timely
	and	supporting	(ii) ESC considers that the	needed to mitigate for the	manner and would welcome further discussion with
	Sizewell	facilities are not	off-site sports facilities	potential effect on formal	the Applicant to ensure we both have the same aim
	PC.	in place in a	should be available prior to	sports and leisure provision,	and timetable for delivery.
		timely manner	or at the same time as the	but Volume 2, Chapter 9 [APP-	·
		would the effect	campus opening. ESC would	195] notes that they would	
		on the local	be reluctant for the campus	contribute towards	
		community be	to be made available prior to	community integration and	
		regarded as	off-site sports provision.	cohesion in a	

		significant in your		qualitative manner.	
		view? (ii) What		SZC Co. considers that it would	
		time frame of		(as set out in Question AR.1.0)	
		delivery needs to		provide benefit in being	
		be stipulated to		linked to the delivery of the	
		avoid such		accommodation campus.	
		effects?		Therefore, Schedule 6 of the	
				Draft	
				Deed of Obligation (Doc Ref.	
				8.17(C)) requires ESC in	
				preparing a proposed	
				timetable	
				for the delivery of the sports	
				facilities, to have regard to the	
				planned occupation of the	
				accommodation campus as set	
				out in the Implementation	
				Plan (Doc Ref. 8.4I(A)).	
AR.1.3	The	Mitigation	n/a	SZC Co. has agreed with ESC to	Whilst ESC welcomes and agrees with the applicant's
	Applican	In light of the		provide the financial	commitment to make a financial contribution to the
	t	comments from		contribution to the Suffolk	Suffolk Coast Recreational Disturbance Avoidance
		ESC in their [RR-		Coast	and Mitigation Strategy (RAMS), by way of a small
		0342] is it agreed		RAMS set out in their relevant	point of clarification in relation to their answer to
		a financial		representation [RR-0342]	ExA question AR.1.3, ESC would make the following
		contribution		(£149,912). The purpose of	comment: As set out in paragraphs 8.29 and 8.30 of
		to the Suffolk		this funding is to mitigate for	the LIR [REP1-045], the purpose of Suffolk Coast
		Coast RAMS is an		the recreational distrubance	RAMS is to address mitigation requirements arising
		appropriate way		at European sites that could	from the in-combination impacts of new residential
		of mitigating for		potentially be caused by	developments within the RAMS zone of influence.
		the recreational		construction workers residing	This contribution is considered to be required in
		disturbance likely		at the accommodation	addition to the direct mitigation measures the
		to arise from the		campus and	Applicant has identified to deliver (e.g. through the
		accommodation			Minsmere Monitoring and Mitigation Plan –

the Land East of Eastlands Walberswick European Sites and Sandlings (North) campus as suggested by Industrial Estate (LEEIE) European Site). The Council considers that both ESC? caravan site. SZC Co. consider mitigation 'strands' are required to address the 'alone' and 'in-combination' impacts on European that this is a robust and highly designated sites considered likely to arise from this precautionary contribution development. because the calculations at paragraphs 1.67 and 1.68 of ESC's RR-0342: 1. Do not allow for the fact that the Zone B tarrif of £321.22 per dwelling used in ESC's calculation (from the Suffolk Coast Recreational Disturbance Avoidance and Mitigation Strategy (RAMS)66) is based on there being more than one person residing in each dwelling on average. If the average residential occupancy was 2.4 people for example, this would equate to £133.84 per person and a lower RAMS contribution for accommodation campus and LEEIE based workers. 2. ESC's RAMS calculation assumes full occupancy for a 10 year lifespan of the campus on

a precautionary basis (see paragraph 1.67 of ESC's RR-0342). 3. Construction workers at the accommodation campus and LEEIE have a different profile to typical residents and would use European sites for recreation substantially less than the general public for reasons summarised below. As described at the second bullet point in paragraph 3.3.10 of the **Recreational Disturbance Evidence Base** (Shadow HRA Report Volume 1 Appendix E Annex A [APP-148]), the workforce will be dominated by men aged 20-50, based on the national breakdown of people employed in the construction industry, and the key sport/recreation characteristics for this demographic group are as follows: • preference and higher than national average participation in organised/formal sport - main reason is to meet friends;

football and gym are
overwhelmingly favoured as
activities. The provision of
formal
recreation facilities for
construction workers
comprising a gym at the
accommodation campus and
sports facilities including a full-
size 3G football pitch
and two MUGAs at Alde Valley
School adjacent to Leiston
Leisure Centre is
described in paragraphs
3.4.218 to 3.4.220 and 3.4.262
to 3.4.264 of Volume 2,
Chapter 3 (Description of
Construction) of the ES (Doc
Ref. 6.14(A)); • work
commitments are a significant
reason for not undertaking
recreation activity;
and
• other than sport, these
groups are less likely to take
part in recreation and leisure
activities outside of the home.
The majority of construction
workers will work in shifts,
limiting the time when all
workers

may be looking to undertake recreation activity (first bullet point in paragraph 3.3.10 of the **Recreational Disturbance Evidence Base (Shadow HRA Report Volume 1** Appendix E Annex A [APP-148]). Indicative shift patterns are shown in section 1.3 of the Code of Construction Practice Part B(Doc Ref. 8.11(B)). A proportion of shifts will be during the day with 'time off' during the hours of darkness when recreational resources at European sites are likely to be less attractive to construction workers because they are remote and unlit. Construction workers based in the accommodation campus and LEEIE would live alone because families would not be allowed to stay at the campus or at the LEEIE (first bullet point in paragraph 3.3.8 of the **Recreational Disturbance Evidence Base (Shadow HRA Report Volume 1** Appendix E Annex A [APP-148]) describes this for campusbased

workers; families would also not be allowed to stay at the LEEIE caravan site). The majority of these construction workers are likely to return home at weekends/at the end of their working period (paragraphs 3.3.8 and 3.4.20 and of the Recreational **Disturbance Evidence Base** (Shadow HRA Report Volume 1 Appendix E Annex A [APP-148]). It is during these periods that construction workers would be more likely go for walks or cycle, when they will not be in the Sizewell C area and will not visit the European sites that could be affected during the construction of Sizewell C. Another reason why the agreed RAMS payment is considered robust and highly precautionary is because it is based on residents at typical dwellings, some of which would have dogs. Dogs are a key source of potential disurbance

to wildlife at European sites, and also excercising dogs is a key reason to go for regular walks. Construction workers based at the accommodation campus (paragraph 3.3.18 of the Recreational Disturbance **Evidence Base (Shadow HRA Report Volume 1 Appendix E** Annex A [APP-148])) and LEEIE would not be allowed dogs at their accommodation. Therefore, dogs would not be a potential source of harm from this source, and these workers would not be undertaking regular (e.g. daily) dog walks. East Suffolk RAMS payments in East Suffolk are intended to provide funding to migitate for all potential harm due to recreational disturbance at European sites. For the Sizewell C Project, in addition to the RAMS payment SZC Co. is proposing a suite of other mitigation measures for construction workers and for people who may be

	1	I	T	
				displaced from the area
				around the
				construciton site to European
				sites including:
				A new informal car park
				accessed off the B1122, a
				surfaced footpath, and
				approximately 27 hectares of
				new open access land,
				including areas where dogs
				will be allowed to be exercised
				offlead at Aldhurst Farm
				(paragraphs 1.2.26 and
				1.2.38 of the updated Rights
				of Way and Access Strategy in
				Volume 2,
				Appendix 15I of the ES
				submitted at Deadline 2 (Doc
				Ref. 6.3 15I(A)). This car
				park would be increased to 20
				spaces early in the
				construction phase to allow
				for
				additional users of the
				recreational access network,
				and funding provision for this
				is
				to be included in the Deed of
				Obligation.
				Improvements to Kenton
				Hills car park including
				addtional spaces,
				management of
L	1	l .		

venetation and cionese
vegetation and signage
(paragraphs 1.2.24 and 1.2.39
of the updated Rights of
Way and Access Strategy in
Volume 2, Appendix 15I of
the ES submitted at
Deadline 2 (Doc Ref. 6.3
15I(A)) . This would provide up
to 15 additional parking
spaces allowing for greater
use of the recreational access
network including the
permissive footpath network
in Kenton Hills.
• SZC Co. is in discussion with
SCC and ESC on projects which
would enhance the
right of way and access
network, that lie outside the
DCO site boundary, which will
be funded by SZC Co. through
the Deed of Obligation (a
draft Deed of
Obligation is provided in Doc
Ref. 8.17(C))(. These will
include a number of
enhancements outside
European sites which will
make recreational resources
more
attractive to use, helping to
reduce displacement of
people to European sites.
people to European sites.

Monitoring and Mitigation Plans for European sites are being developed by SZC Co. in consultation with Natural England, the RSPB and the National Trust, setting out how mitigation measures will be implemented where necessary, to ensure that recreational disturbance due to additional visitors arising from Sizewell C does not cause Adverse Effects on the Integrity (AEoI) of European sites. Two draft Monitoring and Mitigation Plans will be submitted into examination at an appropriate deadline and provide further detail. The first is submitted at deadline 2 (see the draft **Minsmere Monitoring and** Mitigation Plan -**Walberswick European Sites** and Sandlings (North) European Site (Doc Ref. 9.15)). These plans and the RAMS payment RAMS are elements of a broad mitigation package which will ensure that Sizewell C does

				not cause any AEoI of European sites.	
BIO.1 B	Biodiversit	y and ecology, ter	rrestrial and marine		
Part 1 B	iodiversity	and ecology (terre	estrial & marine) - General		
BIO.1. 30	The Applican t	The Applicant Many IPs have raised concern over the absence of design of the HCDF. Please will the Applicant either; (a) table the design, or (b) explain why it is acceptable to proceed on the basis of the descriptions provided in the Application, pointing exactly to the material on which the Applicant relies. If the Applicant chooses (b), please will it also supply plans, sections and	n/a	At the time of the DCO submission a more detailed design of the HCDF was not available. This is not unusual and does not prevent the assessment of either its role in flood protection or its potential impacts on the environment because the key parameters that define those assessments are known. The design of the HCDF has continued and been refined (for example Change 9 in Volume 1, Chapter 2 of the ES Addendum [AS-181]). A document providing the illustrative detailed design, including plans and drawings, has been submitted at Deadline 2 (Doc Ref. 9.13). An additional design principle has been added to the Design and Access Statement (Doc Ref. 8.1Ad2 (A)) to minimise its	The issue here is whether the HCDF and SCDF design, we have only included questions and answers in the table where we have a specific comment to make in response which is sufficiently well developed to allow the Coastal Geomorphological assessment to proceed with confidence that it could identify a Worst Case location plan and profile. ESC's view is that given the changes we have seen in plan position and profile since the DCO submission, the parameters given to the SZC Co. Coastal Geomorphology assessment team by the Engineering design team did not include a sufficient allowance for change risk and therefore has not assessed a realistic worst case scenario. Evidence of ongoing change is the new significant seaward advance at the southern end of the HCDF that may now be further seaward than the BLF promontory. This information was included in the recently released Design Report. The Design report is helpful but not complete. E.g. it does not include comprehensive structure profile information at the critical location of the BLF promontory nor the new southern step forward.

	elevations on an OS base of what could be constructed.		seaward extent and further controls will be secured at a future deadline.	ESC welcomes the final point regarding the addition of an `additional design principle to minimise its seaward extent'. However, text in the Design Report makes it clear that no change is possible, so this pledge does not appear likely to result in any tangible benefit.
Part 2	Biodiversity and ecology (terre	estrial) - Main Development		
Site				
Please r	note. Owing to the length of [APP-171] and the multiple		
topics a	nd effects it assessed, the Ex	A asked the Applicant in		
-	i) to identify each of the head			
	e subject matter and how eac	· · · · · · · · · · · · · · · · · · ·		
	tion and so on sits in relation	•		
· ·	agraphs already had a numbe			
_	gs the ExA suggested a letterings version submitted by the A			
_	of headings is at electronic pa	• • •		
	opy pages 366-375). Referenc			
'	stions below on [APP-171] ar			
The nex	t set of questions address const	ruction effects on plants and		
habitats	, paragraphs 14.7.22 – 14.7.223	;		
	t set of questions addresses op itats, paragraphs 14.7.224 – 14	-		
The next set of questions address mitigation and monitoring for				
	nd habitats, paragraphs 14.7.27	_		
	t set of questions address Table			
	ts, construction and operation r			
The nex	t set of questions addresses inv	ertebrates, section 14.8.		

The nex	t set of que	estions addresses fis	h, section 14.9. NONE		
The nex	ct set of que	estions addresses an	nphibians, section 14.10.		
The nex	t set of que	estions addresses rep	otiles, section 14.11.		
The nex	t set of que	estions addresses or	nithology, section 14.12.		
	ct set of que f [APP-224]		on the Main Site, section		
Part 3	art 3 Biodiversity and ecology (terrestrial) - Northern Park and Ride NONE				
Part 4	Biodivers Ride NON		estrial) – Southern Park and		
Part 5	Biodiver	sity and ecology (ter	restrial) - Two Village Bypass		
BIO.1. 147	The Applican t	[AS-184] Similarly, at section 5.2 b)i)c), paras 5.2.27 and following, additional floodplain mitigation is described. Bearing in mind the statement at para 5.2.29 that the original ES	As set out in paragraph 8.119 of the LIR [REP1-045], ESC welcomes that the impact of the loss of this habitat is now fully acknowledged in the ES. Flood plain grazing marsh is a UK Priority habitat under Section 41 of the Natural Environment and Rural Communities (NERC) Act (2006) and therefore impacts on it must be	The introduction of floodplain grassland mitigation was introduced to address a concern from ecological stakeholders that the landtake of floodplain grasslands was not being mitigated, irrespective of the conclusion in the original ES that there was no significant effect on floodplain grasslands. The determination of no	In our response to this question we incorrectly stated that an Outline Landscape and Ecological Management Plan (oLEMP) for the Two Village Bypass had not been submitted to the examination, we acknowledge that an oLEMP has been submitted as an Additional Submission document under examination reference AS-263. We also acknowledge the inclusion of Requirement 22A in the latest version of the draft DCO [REP2-014] submitted at Deadline 2 which secures initial delivery of the measures described within the oLEMP. However, our concern over the final adoption of the areas of landscaping along the route

stated that there appropriately addressed significant effect was based on (as set out in our answer to the Examining was no significant following the mitigation Authority's First Written Questions ExQ1 question the fact that the hierarchy. However, we grasslands subject to landtake BIO.1.149 [REP2-176]) remains. effect on floodplain remain concerned that are of very poor quality (in ecological terms), being of grasslands, and whilst the mitigation the tests for proposed could result in a improved requirements in a qualitative improvement in pasture of the 'MG7 DCO please will the remaining flood plain community' of the National the Applicant grazing marsh habitat, there Vegetation Classification. will still be a net loss of area The new floodplain grassland indicate how the changes are of this habitat type. As set mitigation is secured via way incorporated and out in LIR paragraph 8.111, of its inclusion in the two secured in the we are also concerned that village DCO. whilst it is proposed to bypass oLEMP [AS-263], which secure this qualitative is secured by Requirement improvement though a 22A of the **Draft DCO** (Doc Please will Landscape and Ecology Ref. Natural England, Management Plan (LEMP), 3.1(C)). **ESC and SCC** no such document has yet explain the been submitted into the justification for Examination and therefore their interested parties are not incorporation able to comment on it in bearing in mind more detail. the same matters. Part 6 Biodiversity and ecology (terrestrial) - Sizewell Link Road

Part 7 Biodiversity and ecology (terrestrial) - Yoxford Roundabout NONE	
Part 8 Biodiversity and ecology (terrestrial) - Freight Management Facility ("FMF")	
Part 9 Biodiversity and ecology (terrestrial) - Rail NONE	
The following questions are all addressed to Natural England, and in some cases to other parties. They address all or more than one of the Main Site and Associated Sites	
Part 10 Biodiversity and ecology (marine) - General Please note. Owing to the length of [APP-317] and the multiple topics and effects it assessed, the ExA asked the Applicant in [PD-005] to identify each of the headings in a way which clarifies both the subject matter and how each section, sub-section and so on sits in relation to preceding sections. As the paragraphs already had a number system separate from the headings the ExA suggested a lettering system. The lettered headings version submitted by the Applicant is at [AS-035]. The full list of headings is at electronic pages 694-724 of [AS-035] (hard copy pages 679-709). References to lettered sections in the questions below on [APP-317] are to those sections. NONE	
Part 11 Biodiversity and ecology (marine) - Plankton NONE	

Part 12 Biodiversity and ecology (marine) - Benthic Ecology NONE					
Part 13	Biodiversi	ty and ecology (ma	rine) - Fish NONE		
Part 14 NONE	Biodiversi	ty and ecology (ma	rine) - Marine Mammals		
	Biodiversi /ebs NONE	, , , ,	rine) - Indirect Effects and		
Part 16	Biodiversi	ty and ecology (ma	rine) - Mitigation NONE		
referen	Part 17 Biodiversity Net Gain – unless stated otherwise, references are to the Applicant's Biodiversity Metric Calculations document [APP-266]				
HRA.1 QUEST		Regulations Assess	sment NO COUNCIL		
HRA.1. 8	The Applican t	The Shadow HRA Report: Compensatory Measures [APP- 152] contains limited information on the specifics of the proposed habitat management measures at	ESC is eager to ensure that the compensatory measures set out in the Shadow HRA Report: Compensatory Measures, and in any other documents, are appropriately secured through the provisions of the draft DCO. As such, ESC would welcome confirmation from the	Proposed future management measures will be set out in an EDF estate-wide management plan, which will explain the long-term management of the marsh harrier compensation habitat area. ES, Volume 2, Chapter 14 (Terrestrial Ecology and Ornithology), Appendix 14C5:	ESC maintains its previous position: please could the Applicant confirm and demonstrate that the compensatory measures set out in the Shadow HRA Report are secured through the draft DCO.

Section 3.4 (c). Applicant that such **Marsh Harrier Mitigation** provisions are secured in the Area Feasibility Report [APP-There are also 259] is updated by (Doc Ref. draft DCO, alongside an limited crossexplanation of the 9.16), which includes the references to mechanism by which they proposed wetland habitats. other submission are secured. This is not Appendix B to Doc Ref. 9.16 documents that currently clear to ESC. includes an updated figure to may be being show the proposed relied upon for compensatory measures area, the HRA including compensatory the proposed wetland measure package. habitats, and the relationship Could the of the area to the Order Applicant confirm Limits. where any further The revised proposals, which detailed now include transforming 10% of the compensation area to information on wetland, represent a positive the proposed enhancement of the management previously proposed design measures for the reported in delivery of HRA the Marsh Harrier Mitigation compensatory Area Feasibility Report [APPmeasures are to 259] given the high be found in the suitability of wetland habitats application for foraging marsh harriers. documents Therefore, the wetland and/or additional creation submissions. will augment the previously proposed management that was focussed solely on The ExA notes ES Chapter 14 enhancing Terrestrial

Ecology and	prey abundance and
Ornithology	availability on 'dry' habitat.
Appendix 14C5	The high suitability of wetland
Marsh Harrier	habitats
Mitigation Area	for foraging marsh harriers is a
Feasibility Report	point recognised throughout
[APP-259];	the discussions on the design
however, this	of the compensation area and
report dates from	acknowledged by Natural
April 2019 and	England in its relevant
does not include	representation; Part II, item
information	27.
relating to the	
change to the	
water resource	
storage area and	
the subsequent	
inclusion of	
wetland habitats	
as part of the	
HRA	
compensation	
proposals for	
marsh harrier.	
Could the	
Applicant confirm	
where	
information on	
the proposed	
management	
measures,	

	\neg
including the	
proposed	
wetland habitats,	
is to be found or	
provide this	
information.	
Furthermore,	
Appendix A	
(figure) to [APP-	
152] has a note	
that states it is to	
be revised in final	
design to include	
the enhanced	
compensatory	
habitat	
comprising wet	
woodland area	
and temporary	
water storage	
area. Could the	
Applicant provide	
an updated figure	
to show the	
proposed	
compensatory	
measures area,	
including the	
proposed	
wetland habitats,	

and the	
relationship of	
the area to the	
Order Limits. It	
would appear to	
the ExA that part	
of the land shown	
on the figure in	
Appendix A of	
[APP-152] lies	
outside of the	
order limits as	
shown on Sheet 1	
of the Works	
Plans [AS-285].	
The broad	
category of	
'marsh harrier	
habitat' in the	
mitigation route	
map addendum	
[AS276] refers to	
securing	
mechanisms of	
the Section 106	
(Implementation	
Plan),	
Requirement 14	
(MDS: Landscape	
works), and DCO	
Article 3 (Scheme	

		design). Could the Applicant confirm which of these mechanisms (if any) relate to the HRA compensatory measures proposals.			
			NO COUNCIL QUESTIONS		
CG.1 C	oastal Geo	omorphology			
CG.1.2 1	The Applican t	Impacts on coastal processes Suffolk Coast Acting for Resilience [RR- 1171] raise the issue of coastal erosion outside the narrow Sizewell Bay and the assumption that nothing will change south of the Great Sizewell Bay. Please respond specifically to the concerns raised in respect of: (i) the availability of long-term	n/a	(i) Monitoring and mitigation is not required for Aldeburgh to Shingle Street because the evidence shows there is no pathway to impact at these locations (see responses to CG.1.14 (i) and CG.1.16). Coastal erosion beyond Sizewell Bay is a regional scale process driven by large-scale geophysical, hydrodynamic and climatic forcing. The processes affected by Sizewell C are shown to be small scale and local as detailed in responses to CG.1.14 and CG.1.16. Therefore, funding is not required for the works suggested. However, in the broader sense, the cost of complying with the Coastal	ESC has a similar concern to SCAR i.e the Potential Impact and Baseline Monitoring zone should be increased to the south. However, we agree with the Applicant that there are currently no grounds to extend Monitoring and Mitigation to Aldeburgh. However, ESC do consider the monitoring zone to be insufficient and are discussing with the Applicant the possibility of a `Precautionary' position to be taken until results confirm that there is no impact at Thorpeness.

funds for coastal Processes MMP [AS-237] will defence works, depend on the results of including for monitoring. SZC Co. is Aldeburgh to at committed through the DCO least Shingle and DML to implement the Street. measures identified in in the CPMMP and has included that (ii) Whether the latest information in the evolving project cost on climate estimate. The MMP will remain in force throughout change, sea level rise and coastal the construction and operation of Sizewell C. evolution has been taken into (ii) The latest climate change account and, if estimates for coastal change not, why not and have been used in how that affects assessments (UKCP18; APPthe soundness of 312, Section 2.4). Predictions any assessments. for climate-related storm, wind, and wave changes applied in APP-312 are up to date and based on UKCP18. Work regarding the associated uncertainty is addressed in the response to CG.1.19 (i). The future shoreline assessment described in CG.1.19 (i) considered the possible timescales for accelerated change because, for example, the response of the shoreline to sea level rise is not a direct and predictable retreat13. Variation in rates of climate

				change result in changes to the timing, but not the nature, of required HCDF mitigation. The underlying processes of coastal change requiring mitigation (to maintain a sediment transport pathway across the Sizewell C frontage) also remain the same, and are addressed in the Coastal Processes MMP [AS-237].	
CA.1.3	The Applican t	The scope and purpose of the Compulsory Acquisition Powers sought The SoR [APP-062], paragraph 5.5.8, states that Article 25 would authorise SZC Co. to enter onto any land within the Order Limits or which may be affected by the authorised	ESC considers that a notice period of 28 days is more appropriate and would urge the Applicant to make this change.	Article 25 authorises the Undertaker to enter onto any land within the Order limits or which may be affected by the authorised development to undertake various survey and investigative works. Except in cases of emergency, the Undertaker must give no less than 14 days' notice of its intention to exercise its powers under this article. The 14-day period is intended to strike an appropriate balance between giving the owner/occupier a reasonable degree of advance notice of	ESC maintains its previous position that 28 days is a more appropriate timeframe.

development entry on the one hand, and (whether or not that land is within need to ensure that necessary the Order Limits) surveys and investigations are to undertake carried out as soon as various survey reasonably practicable on the and investigative other. That latter works, including consideration is not simply a trial holes. Article matter of 25(2) provides for avoiding unnecessary delay to a 14 day notice the works overall, importantly period to be given it also affects the speed with to the which steps are taken to owner/occupier address the impacts that arise of the land. from the authorised Please provide development, justification for a insofar as these are 14 day notice ascertained using the Article period and 25 powers. The avoidance of consider whether undue delay in both respects is a this is unreasonably significant public interest short and should consideration, helping to be extended to ensure 28 days? prompt action is taken where possible to address adverse environmental effects as and when they occur. There is a parallel with the equivalent notice period under Article 24 (Protective works to

buildings). Article 24(3) provides the Undertaker with a right to enter and survey a building for the purpose of determining how the functions under Article 24 are to be exercised. Before exercising that right, Article 24(5) requires the Undertaker to give not less than 14 days' notice (save in an emergency). The 14-day notice periods in each case are the same as those provided for in the Southampton to London Pipeline DCO27 (Articles 19 and 20), the Riverside Energy Park DCO28 (Articles 19 and 20), the Silvertown Tunnel DCO29 (Articles 15 and 16), the **Thames Tideway Tunnel** DCO30 and the Wylfa dDCO31 as amended by the ExA (Articles 23 and 24). SZC Co. is not aware of any relevant circumstances that would justify a longer notice period in this case, or would mean that the notice period

				considered appropriate in those other cases ought to be regarded as unreasonably short here. Nor is SZC Co. aware of any particular circumstances in this case that would justify doubling the notice period to 28 days.	
	mmunity		<u> </u>		
CI.1.0	The Applican t ESC	Accommodation Strategy Within the Accommodation Strategy [APP 613] para 5.4.10 – reference is made to the layout being shared with ESC. (i) Please provide a copy of the layout and indicate the facilities that are to be included. (ii) Please provide an update of the latest position on the delivery, operation and	The Applicant will provide a response to (i) and (ii).	Response to (i) A copy of the LEEIE caravan park layout is provided in Figure 2.9 of the written responses. Each pitch will be provided with electricity and the site will provide separate toilet and shower facilities. Spacing of pitches and the ratio of toilets / showers required are in line with ESC advised standards. A foul treatment plant is proposed to address concerns about local capacity raised during consultation. The amenity building is expected to include laundry	ESC is keen to promote opening of the LEEIE caravan park as early in the construction programme as practicable.

management of facilities and a vending the site and how machine for snacks. No bar or restaurant is these proposed as lessons learnt components would be secured from external caravan site through the DCO owners at Hinkley Point C indicate that workers bringing caravans do not tend to use onsite bars and restaurants. In addition, the facilities of Leiston are close by and workers' use of these will deliver local economic benefits. The site will include 24/7 security and a vehicle inspection cabin would be provided to support this. (ii) In terms of securing mechanisms, for the LEEIE caravan park, Work No. 1A(ee) has been added to the latest draft **Development Consent Order** (DCO) (Doc Ref. 3.1(C)) which reads: 'serviced pitches for up to 400 caravans and 400 temporary car parking spaces'. The delivery of the caravan park and timings are

set out in the **Draft Deed of Obligation** (Doc Ref. 8.17(C)), with reference to the implementation plan. This reads: '3.2.1 Unless otherwise agreed with the Accommodation Working Group, SZC Co shall use reasonable endeavours to deliver the LEEIE Caravan Park in accordance with the *Implementation* Plan'. The **Implementation Plan** (Doc Ref. 8.4I(A)) indicates that the LEEIE caravan park is planned to open at the end of year 1 of construction. It is proposed that the caravan park be operated and managed by an experienced accommodation operator and since submission of the Application for development consent, SZC Co. has been meeting with a number of local site operators to gauge interest in this opportunity. In terms of operation, the LEEIE caravan park will be

open to Sizewell C workers only with no families or pets (including dogs) permitted. A 24/7 security presence will be maintained to manage entry to the site, keep residents safe and ensure that high standards of worker behaviour are maintained, in line with the Worker Code of Conduct that all Sizewell C workers will be required to sign (see section 4.5 Part A and section 1.2 Part B Code of **Construction Practice (Doc** Ref. 8.11(B)) and appendix to the **Community Safety** Management Plan for HPC example [APP-636]). Workers will be able to access the site 24/7 to accommodate all shift patterns and direct bussing will be provided to the main development site from the park and ride site at LEEIE. This will be secured through the **Construction Worker Travel** Plan (Doc Ref. 8.8(A)) (see response to Cl.1.1 below).

CU.1 C	umulative	impact			
DCO.1	Draft Dev	elopment Consen	t Order (DCO)		
DCO.1. 0	The Applican t	Art 2. Definition of "commence" and the exclusions from it. The EM para 3.6. states that "the Environmental Statement does not indicate that these works would be likely to have significant environmental effects". Could this be expressed positively as "The ES indicates that these works are not likely to have significant effects"? Is there a statement in the ES that the excluded works are not likely to have significant effects.	ESC is concerned that the definition of "commence" and pre-commencement activities is quite wide and that such activities excluded from the definition of commence may in fact have significant environmental effects and yet can be carried out without mitigation in place. It therefore proposes the following amendments to the draft DCO [AS-143]: Amendment to the requirements: Definition of "pre-commencement activities" to be inserted: "Pre-commencement activities excluded from the definition of "commence". New requirement to be inserted:	The activities excluded from the definition of the commencement of construction as defined within the Explanatory Memorandum (EM) (Doc Ref. 3.2(B)) para. 3.6. are referenced within the Description of Development Chapters of the ES Volume 2, Chapter 3 (Doc Ref. 6.14(A)) and Chapter 2 of each of Volumes 3-9 [AS-240] (NPR), [AS-242] (SPR) [AS-248] (SLR), [AS-256] (Rail), [PDB-003] (TVBP) and [APP-480] (OHI) and assessed as part of the construction phase as a whole within the relevant technical environmental assessment chapters. Where significant effects have been identified within the ES, these are in relation to specific activities or the peak construction period. No significant effects have been identified within the ES that relate to the activities	Whilst ESC welcome the amendments that the Applicant has made to the definition of 'commence' in revision 4 of the draft DCO, it still has some outstanding concerns. In particular, ESC remains concerned that items (a), (b), (d), (e), (f), (g), (h) and (j) which are excluded from the definition of 'commence' may have significant environmental, specifically ecological, effects. In addition, the Applicant appears to indicate in their response to this question that the removal of vegetation will have a significant effect. ESC therefore queries whether mitigation for this ought to be in place for this before this work is carried out.

"Pre-commencement excluded from the definition activities of the commencement of No part of the pre-(1) construction as defined within commencement activities the EM para. 3.6. may take place until This is with the following environmental surveying for exceptions: those activities has been 1) The removal of vegetation completed to the and site clearance works at satisfaction of the local the main development site planning authority. would result in significant Should the local residual effects on ecological planning authority deem it receptors due to habitat loss. necessary for subsequent The habitats would be monitoring to be carried out reinstated through the landscape scale restoration of in relation to any prethe EDF commencement activity, no Energy estate at the end of such activities are to be the construction period, which carried out until details of would overall deliver such monitoring has been biodiversity net gain and as agreed. such would provide a long-Pre-commencement term significant beneficial activities must be carried out effect during the operational in accordance with any phase. However, the effects monitoring requirements of during construction are the local planning authority." significant adverse. 2) A residual significant adverse effect on the historic landscape character at the main

development site has also been identified due to the removal of potentially important historic hedgerows. It is proposed that the historic landscape features would be recorded in accordance with an agreed written scheme of investigation prior to the start of construction. The conclusion of 'no likely significant residual effects' has also been reached on the basis that measures set out within the Code of Construction Practice (Doc Ref. 8.11(B)) and other pre-commencement conditions will be implemented, as appropriate. The text in para. 3.6 of the **Explanatory Memorandum** has been updated accordingly. The exclusion of the specified activities from the definition of 'commence' remains appropriate for the reasons identified in para. 3.6 of the **Explanatory** Memorandum (Doc Ref.

				3.2(B)). Note that the drafting in Revision 4 of the draft DCO (Doc Ref. 3.1(C)) now removes from the exclusions to the definition of 'commence' the removal of hedgerows, and dewatering, following the ExA's comments. These elements of the project therefore would fall within the definition of 'commence'.	
DCO.1. 1	The Applican t	Art 2. Definition of "commence" and the exclusions from it. Given that e.g. the Sizewell B Relocation Works will involve decontamination, is this exception from the definition of "commence" appropriate?	ESC does not consider it appropriate for this to be excluded from the definition of "commence".	To the extent remediation works are required in the land comprised in Work No. 1D or 1E, any such works of themselves would not be likely to have significant environmental effects provided the measures set out within the Code of Construction Practice (Doc. Ref. 8.11(B)) are implemented. For this reason, and the other reasons identified in para. 3.6 of the Explanatory Memorandum (Doc Ref. 3.2(B)), these works are appropriately	ESC would like the Applicant to confirm where in the ES the conclusion that such activities would not be likely to have significant environmental effects, can be found.

				included in the list of	
				exceptions.	
DCO.1. 2	The Applican t, ESC, SCC	Art 2. Definition of "commence" and the exclusions from it. (i) Are the exclusions justified for all of the Proposed Development? (ii) Might it be appropriate to exclude later phases and to limit the exclusions to the earliest phases of the Proposed Development? In both (i) and (ii) please explain concisely why.	(i) and (ii) ESC is of the view that the exclusions from the definition of commence are unjustified and that they allow for various activities to take place that may have environmental effects, but without mitigation. In particular, ESC is concerned that site preparation and clearance works are being included – if these are outwith environmental surveys and monitoring then this could cause problems. ESC suggests that the following amendments are made to the requirements in order to deal with this concern: Amendments to the requirements:	(i) It is considered appropriate and justified that the exclusions (as updated in Revision 4 of the draft DCO (Doc Ref. 3.1(C)) to make an exception of important hedgerow and dewatering works on the main development site) apply to all of the authorised development. The site clearance and hedgerow removal works described in DCO.1.0 must be carried out in general accordance with the Code of Construction Practice (Doc. Ref. 8.11(B)), in accordance with the Terrestrial Ecological Monitoring and Mitigation Plan (TEMMP) [REP1-016] and the Main Development Site Clearance Plans [AS-120], as required by Requirements 2, 4 and 6 respectively. Requirements 2, 4 and 6 are not pre-commencement requirements and therefore the definition of 'commence' (and, in particular, the	ESC directs the Examining Authority to its comments in relation to DCO.1.0.

Definition of "precommencement activities" to be inserted:

"Pre-commencement activities" means any and all of those activities excluded from the definition of "commence".

New requirement to be inserted:

Pre-commencement activities

- 1. No part of the precommencement activities may take place until environmental surveying for those activities has been completed to the satisfaction of the local planning authority.
- 2. Should the local planning authority deem it necessary for subsequent monitoring to be carried out in

'site preparation and clearance works' exception) have no bearing on the applicability of these requirements.

It should be noted that

- the Applicant has updated the drafting of Requirements 14A and 14B in revision 4 of the draft DCO (Doc. Ref 3.1(C)) to ensure that the 'site preparation and clearance works' exception could not be interpreted as having the effect of overriding the requirement to submit and obtain approval of a fen meadow plan and wet woodland plan before vegetation clearance is carried out within the Sizewell Marshes SSSI; and • the Applicant has added to
- the 'site preparation and clearance works' exception in revision 4 of the draft DCO (Doc. Ref 3.1(C)) a carve out for the removal of any important hedgerows within Work No. 1A to ensure that Requirement 3 must still

			relation to any pre- commencement	be complied with in respect of such activities to ensure that	
			activity, no such activities are to be	site specific WSIs are submitted to and approved by	
			carried out until	SCC in relation to their	
			details of such monitoring has been	removal. (ii) For the reasons given in	
			agreed. Pre-commencement	response to questions DCO 1.0, DCO 1.1 and part (i)	
			activities must be carried out in accordance with any	above, it is considered that the exceptions to the	
			monitoring requirements of the local planning authority.	definition of 'commence' (as amended) are appropriate and justifiable, and that there are no gaps in mitigation (as secured by Requirement) created as a result. As such, the Applicant considers that it is not necessary to limit any or all of the exclusions to earlier phases of the	
DCO.1. 7	The Applican t, ESC, SCC	Art 2 – definition of "maintain" and Art 6 – power to maintain. The definition	(i) ESC agrees with the ExA that the words 'remove' and 'reconstruct' ought to be removed from the definition of 'maintain'.	development. See Appendix 14F - DCO Drafting Note 6.	The Applicant's draft DCO revision 4 includes an expanded definition of the term 'maintain', which now includes the words 'replace and improve'. ESC does not consider the inclusion of these words appropriate as they could be construed as having the same or similar meaning as the word
		includes "alter, remove or reconstruct". On its face, that would include	(ii) Although ESC is comfortable that this is not the Applicant's intention, it agrees with the ExA that the		'reconstruct'. ESC invites the Applicant to explain the basis on which it has included these words.

decommissioning current definition is too wide and the and that, on the face of it, it construction of a could allow the Applicant to new power carry out decommissioning station. The ExA works and the construction doubts this is of a new power station. The what is intended definition suggested by the and notes that ExA under point (i) is there is intended considered sufficient by ESC to be a limit by to address this concern. reference to new or materially (iii) N/A – for the Applicant. different environmental (iv) ESC would expect the effects. However, Applicant to approach it lesser should there be an instance reconstructions in which any works or any may pass that operation was different to test but how it had been planned nonetheless be within the DCO application development documents. ESC would then which ought to be expect to be consulted on regulated by whether something had any planning control? (i) Might the new or materially different environmental effects to following those identified in the definition be environmental information. adequate: "maintain" includes inspect, repair, adjust, alter, clear, refurbish or

improve, and any
derivative of
"maintain" is to
be construed
accordingly", with
the addition of
the prohibition
relating to
maintenance
causing
environmental
effects?
(ii) If the Host
Authorities
consider that the
current definition
is too wide,
would they
please give
examples of
development it
permits but which
the Host
Authority
considers should
be subject to
planning control?
Would they
please also
consider whether
the ExA's
suggestion above
would deal with

their concern and
give reasons?
(iii) If the
Applicant
disagrees with
the ExA's
suggestion,
please will it, in
answering the
question, explain
clearly the intent
of the breadth of
the definition and
reflect on
whether it ought
to be reduced?
(iv) See also the
ExA's questions
on Sch 2 para 1
(tailpieces in the
context of EIA).
Taking that also
into account, how
does the
Applicant expect
that the
prohibition
relating to
maintenance
causing
environmental
effects would
work in practice

and be enforced?
How would the
local planning
know in advance
of an item of
maintenance that
materially new /
different effects
would be caused
by the
maintenance?
What action
would they be
able to take? Or is
the intention and
practice simply
going to be that
maintenance
which breaches
the prohibition
would be without
approval, a
breach of the
DCO and
therefore a
criminal offence?
Please will the
Host Authorities
also consider
question (iv) and
respond?

DCO.1.	The	Art 4(1) – vertical	ESC shares the ExA's	See Appendix 14I – DCO	ESC directs the Examining Authority to its comments
21	Applican	limits of	concerns in relation to the	Drafting Note 9.	in relation to G.1.0.
	t	deviation.	clarity over the seeming lack		
			of limits of deviation [AS-		
		This permits	143] and refers the ExA to its		
		unfettered	response to question G.1.0.		
		vertical			
		deviations,			
		subject to the			
		Requirements			
		and provisions in			
		Art 11 relating to			
		streets. Art 4(2)			
		limits vertical			
		deviation to 1			
		metre for Work			
		4C (Saxmundham			
		 Leiston branch 			
		line) and Works			
		11 and 12 (Two			
		village bypass and			
		the Sizewell Link			
		Road).			
		The ExA see that			
		the Requirements			
		contain some			
		references to			
		Parameter Plans.			
		But to take			
		requirement 11			

	—,
as an example, it	
is not	
immediately clear	
that Work Nos.	
1A (a) to (e) are	
subject to the	
Parameter Plans	
(though any	
variations from	
the Approved	
Plans and the	
design principles	
in Ch 5 of the	
Main	
Development Site	
Design and	
Access Statement	
must accord with	
the Main	
Development Site	
Operational Siting	
and Height	
Parameters and	
two of the three	
Main	
Development	
Site, Operational	
Parameter Plans).	
(to be found at	
SZC Book 2, 2.5,	
[APP-018]).	
• "	

Similarly, a	
somewhat close	
reading of the	
Requirements is	
necessary to see	
which Parameter	
Plans have been	
applied to which	
Work, whether	
they are applied	
to the right	
Works, to	
ascertain whether	
the whole of the	
Proposed	
Development is	
limited by the	
Parameters Plans	
and whether or	
not all the	
Parameters Plans	
have been	
applied.	
аррпец.	
As the ExA reads	
the Requirements	
and the rest of	
the DCO there	
appears to be no	
general	
general	

overriding rule
that the
development
must not exceed
the limits in the
Parameter Plans.
A clear
straightforward
limitation in the
DCO preventing
the Proposed
Development
from exceeding
the Parameter
Plans (which the
ExA assumes
describe the
limits of what was
assessed on
normal Rochdale
principles) would
be helpful.
(i)Please will the
Applicant insert
such a provision
in the next draft
of the DCO or
alternatively
explain why it
would be
inappropriate?

		se will the ant also provide a iliation of the eter Plans in the ith the project ed in the ES? Please will the Applicant specify and explain the power for Art 4 – it is not referred to in the EM?		
DCO.1. 24	The host authorit ies	Art 5(5). Will the Host Authorities indicate if they are content with Art 5(5) and the list of conditions and corresponding requirements deemed to be satisfied set out in Sch 8	Whilst ESC understands the Applicant's approach in Schedule 8, it is concerned that certain conditions in Permissions 1 and 2 are not appropriately reflected in the Requirement which is drafted as corresponding to the conditions [APP-143]. ESC has the following particular concerns: Schedule 8, Part 1, row 3, and Part 2, row 3: There appears to be no equivalent of conditions 7, 9,	ESC remains concerned that in Schedule 8, certain conditions in Permissions 1 and 2 are not appropriately reflected in the Requirement which is drafted as corresponding to the conditions (please see ESC's response to DCO.1.24 for Deadline 2 for full details). In addition, ESC notes that in revision 4 of the draft DCO submitted for Deadline 2, the Applicant has inserted additional reference to requirements 2 and 5. ESC would like the Applicant to provide a full explanation as to the equivalence between the conditions and the requirements listed in the table in Schedule 8.

10, 12, 13 or 17 in the CoCP (or other control documents or in the Requirements themselves). ESC would welcome an explanation from the Applicant as to how it considers that the provisions in these conditions are replicated in Requirement 2. In relation to conditions 7 and 10 in particular, ESC considers that this would be best addressed through a new separate requirement in Schedule 2 of the draft DCO. In addition, there also appears to be no equivalent of conditions 18 and 19 in relation to emergency plans. Although ESC notes that there is now a new Requirement 5A in draft DCO v.3.1, this requirement does not reflect the conditions. Schedule 8, Part 1, row 4, and Part 2, row 4:

Requirement 14, or the OLEMP sitting under it, does not appear to specify any maintenance period whereas condition 12 refers explicitly to a 5 year maintenance period. Schedule 8, Part 1, row 5: Condition 26 appears to be covered by Requirement 7 rather than Requirement 5. Schedule 8, Part 2, row 6: Not all of condition 21 is covered by Requirement 3. In particular, the following isn't: ""None of the buildings hereby approved shall be occupied until the site investigation and post investigation assessment has been completed, submitted to and approved in writing by the Local Planning Authority, in accordance with the programmes set out in the Written Scheme of Investigation approved under Condition [20] and the

DCO.1. 50	The Applican t, host authorit ies	Art 79. This allows felling and other tree surgery to any tree or shrub "near any part of the [Proposed] Development". How far is near? Could a maximum distance be added?	provision made for analysis, publication and dissemination of results and archive deposition." ESC is concerned that this Article [AS-143] is currently drafted to include a power that is far too wide and which is unjustified. ESC considers that it would be sufficient for the Applicant to have the power to fell trees etc. solely within the Order Limits. It therefore proposes that this Article be amended so that it reads: "The undertaker may fell or lop any tree or shrub within the Order limits, or cut back its roots or branches to the extent that they are within the Order limits, if it reasonably believes it to be necessary to do so"	Article 79 only permits trees or shrubs to be felled or lopped where the Applicant reasonably believes that this is necessary to prevent that tree or shrub from obstructing or interfering with the authorised development or constituting a danger to those using the authorised development. It is in this context that the reference to the tree or shrub being 'near' should be interpreted. The greater the distance between the individual tree or shrub and the proposed development, the less reasonable any belief that the Applicant may have that works are required. The reasonable distance will	ESC remains concerned that Article 79 is drafted too widely. Please see ESC's response to DCO.1.50 submitted at Deadline 2 for full details.
				The reasonable distance will vary depending on the part of the authorised development concerned and so the concept of nearness must be flexible.	

Moreover, given that felling or
lopping may be required to
avert danger, the Applicant
considers that it would be
inappropriate to define 'near'
by reference to a maximum
distance. Compensation is
payable under Article 79(2) to
any person who sustains any
loss or
damage arising from the
Applicant's carrying out of
such felling or lopping.
Provisions equivalent to
Article 79 of the draft DCO
using the word 'near' can be
found in
The Infrastructure Planning
(Model Provisions) (England
and Wales) Order 2009 as well
as
many other granted DCOs,
including: The Cleve Hill Solar
Park Order 2020; The Norfolk
Vanguard Offshore Wind Farm
Order 2020; The National Grid
(Hinkley Point C Connection
Project) Order 2016; The
Thames Water Utilities
Limited (Thames Tideway
Tunnel) Order

			2014; and The Hinkley Point C (Nuclear Generating Station) Order 2013.	
DCO.1. The Applicate, The Host Authories, parties to whit the deeme conses provis ns in t Article of the dDCO apply	approvals, consents and appeals. (i) The ExA invites comments in general on Sch 23 from the Host Authorities who will be the recipients of most applications and	(i) ESC has a number of comments to raise in relation to Schedule 23 [AS-143], as follows: 1(2)(b) is considered unnecessary as, as far as ESC is aware, there is never a situation in which a body does not have to consult further. If the Applicant considers that this is necessary, ESC would welcome an explanation of when such a situation would arise. 2(1): ESC considers it important that it is explicitly set out within this Schedule that it is not confined to being able to ask for further information just once and would invite the Applicant to make an appropriate change to 2(1) in response to this concern.	i) Not for the Applicant. ii) Not for the Applicant. iii) Para (1)(2)(b) has been updated to allow for six weeks as per the model schedule at Appendix 1 of Advice Note 15. iv) Council resources will be included in the next revision of the draft Deed of Obligation which will be submitted at Deadline 3 so it is not considered necessary to add fees-related drafting to the draft DCO. To confirm, in revision 3 of the draft DCO [AS-143] the reference to Circular 03/2009 was replaced with reference to the Planning Practice Guidance.	ESC welcomes the changes that the Applicant has made to Schedule 23 in revision 4 of the draft DCO submitted for Deadline 2, to bring the timescales in line with Advice Note 15. However, ESC maintains its previous position that reference to fees relating to staffing costs for the discharge of requirements ought to be made within Schedule 23. ESC would welcome the provision of some wording from the Applicant to address this issue.

two different	2(2): 7 working days is	
time periods for	considered too short a	
discharge of	period, and shorter than the	
requirements	proposed period in Advice	
depending on	Note 15 which advises 10	
whether	business days. ESC considers	
consultation is	that 10 working days would	
necessary. The	be more appropriate.	
shorter period, 5		
weeks, is shorter	2(3): 3 working days is	
than the period specified in the	considered too short a	
model Sch at	period, in particular as this	
Appendix 1 of the	does not even cover a full	
Inspectorate's	working week when the	
Advice Note 15.	relevant person may be on	
Whilst the ExA	leave or not working; ESC	
note the	considers that 10 working	
Applicant's more	days would be more	
generous 8 week	appropriate.	
period in	арргоргасе.	
consultation	2/2)/d) and (a): 10 working	
cases, what is the	3(2)(d) and (e): 10 working	
justification for	days is considered too short	
taking a week off	a period, and shorter than	
the standard	the proposed period in	
period?	Advice Note 15 which	
(iv) Fees. The ExA	advises 20 business days.	
notes that there	ESC considers that 20	
is no drafting at	working days would be more	
present and that	appropriate.	
the Applicant		
hopes to cover		

these with a	(ii) ESC has commented	
performance or	under (i) above.	
s.106 agreement.		
Until such time as	(iii) ESC has provided a	
that is concluded	comment on this under (i)	
satisfactorily, the	above.	
ExA would prefer	above.	
to see drafting on	(:) 500	
fees in the dDCO.	(iv) ESC agrees that	
Please will the	reference to fees ought to be	
Applicant insert in	made within Schedule 23	
the next draft of	and considers that it would	
the dDCO the	be appropriate for Schedule	
wording to be	23 to cross refer to the	
found at Sch 2	section 106 agreement to	
Part 2 para 3 of	the extent that it relates to	
the Northampton	staffing costs for the	
Gateway DCO as	discharge of requirements.	
made,	ESC would welcome the	
(2019/1358). The	Applicant providing some	
ExA is not, by	wording in this regard.	
requiring this,		
expressing any		
view as to the		
desirability or		
fairness of those		
provisions.		
Please will the		
Applicant explain		
why para 3(11) of		
Sch 23 which		
reads: "the		
appointed person		

must have regard to Communities and Local Government Circular 03/2009 or any circular or guidance which may from time to time replace it" refers to Circular 03/2009 rather than "the Planning Practice Guidance published by the Department for Communities and Local Government on 6 № March 2014 or any circular or guidance which may from time to time replace it" which is the wording in Appendix 1 of AN15? DCO.1. The Sch 1 Part 1. Work No 2. DCO.2. The Sch 2 Part 1. Work No 2. The boundary within which the cooling water and fish please see ESC's response to DCO.1 please	
and Local Government Circular 03/2009 or any circular or guidance which may from time to time replace it" refers to Circular 03/2009 rather than "the Planning Practice Guidance published by the Department for Communities and Local Government on 6th March 2014 or any circular or guidance which may from time to time replace it" which is the wording in Appendix 1 of AN15? DCO.1. The Sch 1 Part 1. ESC agrees with the EXA that The boundary within which please see ESC's response to DCO.1	
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61 Applican Work No 2. it is not clear if, or where, the cooling water and fish please see ESC's response to DCO.1	
	for full details
t, ESC, The routes of the the routes of the tunnels are return tunnels (Work Nos 2A, Deadline 2).).1.61 submitted for
MMO, tunnels are not shown on the plans 2C,	
shown. Please submitted as part of the	

will the Applicant Natural **England** explain why. Please also confirm that whether shown or not, they will not extend outside the Order Limits or the limits to the Works comprised in Work No. 2 shown on the Works Plans. Work numbers 2B and 2D shown on the works plans indicate the separation between the cooling water intakes for units 1 and 2. Can the Applicant explain the separation distances between them, which presumably accounts for tunnelling for unit

1 (work no. 2A)

application. Furthermore, ESC agrees that the limits of deviation for the bored tunnels appear to be unlimited within the harbour area and ESC is concerned with this approach [AS-143]. In particular, ESC's concern relates to the adequacy of environmental assessment carried out and reported in the ES. ESC would welcome the Applicant's explanation as to how the environmental impact assessment has been carried out and what assumptions about tunnel locations have been made in coming to conclusions on the likely significant effects of these works.

2E, 2G, 2I and 2K) may be carried out is shown on the Works Plans 2, 4, 5 and 6 by reference to the green dotted line shown in the key which refers to these works. The description of these works in Schedule 2 expressly crossrefers to these Works Plans. Applicant confirms that these works will not extend outside the Order limits. This is clear on the plans, since the boundary of the green dotted line within which these works are to be carried out does not extend outside the solid red line on the Works Plans which indicates the Order limits. It was not considered necessary to show the exact alignment of the completed tunnel within these areas, since: (i) the alignment of the tunnels will be constrained in practice by the location of the outfalls for each tunnel, which are shown by

In addition, ESC notes that the Applicant's response to this question appears to be internally inconsistent in that it says that the MMO will have to confirm the locations for tunnels in the Deemed Marine Licence but then also states that a Deemed Marine Licence may not be necessary.

being 200m dotted black lines in the form of circles/ovals shown on the shorter than the corresponding Works Plans and labelled as water intake for Work Nos, 2B, 2D, 2F, 2H, 2J and 2K, and the need for the unit 2 (work no. 2C)? tunnels to be built in straight Whilst the intake lines from the power station onshore; and (ii) the deemed locations are set out on the works marine licence requires details plans, the limits of the tunnels to be approved of deviation for by the MMO prior to the bored tunnels commencement of these themselves are works. See unlimited within DML condition 44 and 48 which refer to 'the alignment the harbour area as shown on the (horizontal and vertical)' of works plans. This these also applies to tunnels. work no. 2E, 2G, Abstraction of cooling water is 2I and 2K, which not only part of the conventional electricity extend between work no 1A and generating process of a direct-cooled terminate at work 2F, 2H, 2J and 2L station, but it also serves to respectively Can cool essential and safety the Applicant systems. Therefore, the cooling water confirm what assumptions have infrastructure is safety classified and needs a degree been made regarding their redundancy built in, such that alignment within the ES and HRA, if cooling water from one and why more

defined limits of source is lost then cooling can deviation cannot still be set out on the be maintained from another source. Relative geographic works plans. separation of the two intake ESC, MMO and Natural England tunnels achieves this may also wish to redundancy (each intake tunnel also has two intake comment on this. heads, separated by 100m for the same reason). The ExA is correct that the tunnel lengths simply reflect the shortest route to the intake heads. There is no significance attached to this. The alignment of the three cooling water tunnels is completely disregarded in the ES and HRA assessments as, being several tens of metres below the seabed there is no pathway for them to cause environmental impacts (concerns regarding bentonite frack-out from the Tunnel Boring Machines notwithstanding as that has no relevance to the route of the

DCO.1.	The	Sch 1 Part 2,	(i) and (ii): ESC is of the view	tunnels). Indeed, it is likely that the tunnels themselves will be exempt from needing a Marine Licence for those same reasons. See Appendix 14B - DCO	ESC's previous concerns remain (for full details
69	Applican t, ESC	Other Associated Development. The Works in Sch 1 Part 2 may be carried out during both the construction period and the operational period which is some 60 years. They apply also to maintenance. Many of them are works which would normally require planning consent. For example para (b) would allow new drainage systems; (c) allows stacks and chimneys; (i) allows new amenity buildings; (i) also allows	that the principle of including such works is justifiable, but this list does appear more extensive than usual and contrasts with the precision with which the numbered works are specified in words and shown on the works plans [AS-143]. Some of the works listed here are of an equivalent nature to the numbered works (e.g. (c) and (n)) and should be their own numbered work; and others would only apply to specific works rather than any of them (e.g. (g) and (I)) and should be included in the descriptions of those works only. ESC would further wish to be satisfied that: - the Applicant has assessed the likely significant effects	Drafting Note 2.	please see ESC's response to DCO.1.69 submitted for Deadline 2).

"	2.1		
"assoc	,	2	
	ures and ES; and		
	and (i) also - that any works are limited		
	associated to being within the Order		
I - I - I - I - I - I - I - I - I - I -	peration Limits.		
1 1 1	work"		
	ut stating ESC would welcome the		
	vhat they Applicant's confirmation on		
are to	be those points as well as		
	ated (the		
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phase	13		
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	nmissioning		
I - I -); (k) allows		
extens			
	tions to		
_	ays; (n)		
	es habitat		
creation			
	es works		
	e protection		
of land			
	ures; and		
1	ows "such		
	works as		
I	e necessary		
1 1	pedient" for		
	uction,		
opera	tion and		

1	
	maintenance
	(with a reference
	to environmental
	effects).
	(i) Is it justifiable
	to have such
	extensive powers
	in relation to the
	operation and
	maintenance of
	the Proposed
	Development?
	(ii) Is the location
	of the works
	limited to the
	Order Limits?
	(iii) What will be
	the constraints in
	the DCO if made
	on the
	development
	they permit?
	(iv) The EM para
	10.4 says they are
	"minor works".
	Where is such a
	limit set out in
	the dDCO?
	(v) Please will the
	Applicant supply
	a reconciliation of
	the works
	described in Sch 1

		Pt 2 with the development assessed in the ES?			
DCO.1. 78	The Applican t, ESC	R4. (i) Please will the Applicant collate where the ES sets out the need and content of ecological monitoring which is referred to in this requirement? Please will it also explain how R4 complies with the need for EIA prior to decision in the light of R v. Cornwall CC ex p Hardy Env L R 25; [2001] JPL 786? (ii) Why is the terrestrial ecology monitoring plan confined to the works listed on R4? Should it not be required for all the Works?	(i) For the Applicant to respond on. (ii) ESC agrees with the ExA that a terrestrial ecology monitoring plan should cover all of the Works forming part of the authorised development as any of them may have impacts on terrestrial ecology, and, as the approving body under this requirement, ESC would expect this to be the case [AS-143].	Please see Appendix 14L – DCO Drafting Note 11.	ESC notes that this Requirement has been updated in revision 4 of the draft DCO submitted by the Applicant for Deadline 2. ESC confirms that it has seen and commented on a draft of the Terrestrial ecology monitoring and mitigation plan (TEMMP) at Deadline 2. The TEMMP is not yet agreed. Whilst ESC is not concerned with the approach set out in Requirement 4, it notes that the TEMMP is not listed as a certified document in the draft DCO and would suggest that it is included as a certified document in the next draft of the DCO so as to ensure compliance is with an identifiable document.

DCO 1	The	/:\	/i) FCC agrees with the Fort	Doguinament 14 valatas and dis	FCC makes that variation 4 of the dualth DCC automitted
DCO.1.	The	(i) It seems to the	(i) ESC agrees with the ExA	Requirement 14 relates solely	ESC notes that revision 4 of the draft DCO submitted
87	Applican	ExA that the	and considers that this is the	to the landscape and ecology	for Deadline24 makes amendments to Requirement
	t, ESC	implementation	case of a minor oversight	implementation and	14. ESC is content with the new 'trigger' for
		of the landscape	from the Applicant.	maintenance of the	submission of the landscape scheme for approval by
		and ecology		operational power station site.	ESC.
		works could be	(ii) ESC does not consider	Requirement 14 has been	
		avoided simply by	that this is the corresponding	updated to	
		failing to submit	Requirement but would	require the landscape scheme	
		the landscape	welcome the Applicant's	to have been submitted for	
		scheme. Should	confirmation of this [AS-	approval by ESC within 6	
		not the	143].	months of Unit 1 commencing	
		prohibition on		operation. The landscape and	
		commencing the		ecology scheme must be	
		landscape works		carried out as approved.	
		be changed to a		Yes, Requirement 14 is the	
		prohibition on		requirement referred to at	
		commencing the		para 7.1.2 of the oLEMP [APP-	
		authorised		588]	
		development?		(note now updated by [REP1-	
		(ii) Is this the		010]).	
		Requirement			
		referred to at			
		para 7.1.2 of the			
		oLEMP [APP-			
		588]?			
	•		e to the Third Draft DCO [AS-		
143] and focus on the changes between the original – [APP-059] and					
	the third draft. The previous questions in this section on the DCO				
should be answered in the light of the changes and take changes			_		
into acc	ount. They	should explain how	changes affect the answer.		

DCO.1.	ESC, The	Art 10.	The main development site	The Main Development Site	ESC maintains its previous position and considers
143	Applican t	Please will ESC comment on the appropriateness of adding the	design and access statement and the associated design principles document are not particularly precise and	Design and Access Statement [APP-585 to APP-587, Doc Ref. 8.1Ad2 (A)] and the Associated Development	that these two documents are not sufficiently precise to be included in this Article. For the purpose of being able to enforce in relation to noise, dust etc, ESC will need there to be more clarity in the design
		Main Development Site Design and Access Statement and the Associated Development Design Principles to the defences to statutory nuisance in this Article. In particular, are they sufficiently precise documents for this purpose?	therefore ESC does not consider they should be included in this Article due to not being precise enough. However, the Applicant may be able to provide further reasoning as to their inclusion that may change our opinion in this regard, and we would welcome such an explanation.	Design Principles (Doc Ref. 8.3(A)) include controls and measures which relate to noise, vibration, dust or lighting. The Applicant considers these documents sufficiently precise for this purpose.	principles or a further mechanism for receipt of additional detail.
DCO.1. 158	The Applican t, SCC	R 6A – is "general" accord with the Public Rights of Way Strategy appropriate? Why not "in accordance"?	The phrase, "in general accordance" is a potentially very wide scope which ESC does not consider is justified. This wording is used in a number of requirements [AS-143], not just 6A, and ESC therefore suggests that a general provision be inserted at the start of Schedule 2 - a	Requirement 6A has been updated to make the purpose of the footpath implementation plans clearer. These footpath implementation plans will set out the detail of how the Rights of Way and Access Strategy (Doc Ref. 6.3 15I(A)) is to be applied to each new	ESC maintains its previous position that the use of the phrase 'in general accordance' is too wide and therefore not justified (for full details, please see ESC's response to DCO.1.158 submitted for Deadline 2). Hinkley Point C DCO used a combination of 'general accordance' and 'accordance'. Lake Lothing Crossing used a combination of the two.

new 1(2)(c) – that will ensure or diverted footpath. The footpath implementation that all such uses of the plans are subject to Suffolk term, "in general County accordance" are covered in Council's approval. The the same way. measures in the strategy The following wording is would apply differently in the suggested: context of "Where any requirement each footpath. Therefore the provides that the authorised Applicant is content that development or any part of 'general accordance' is it is to be carried out in suitable to 'general accordance' with ensure that the impacts are no details, or a scheme, plan or greater than those assessed in other document that is listed the Environmental in Schedule 22 and certified Statement. under Article 80 of this DCO, this means that the undertaker will carry out such work(s) in a way that is consistent with the information set out in those details, schemes, plans or other document and in a manner that does not give rise to any materially new or materially different environmental effects to those assessed in the environmental information."

FR.1 Fl	ood risk, g	groundwater, surf	ace water		
HW.1 Health and wellbeing					
HE.1 H	istoric Env	vironment (terrest	trial and marine)		
Sizewel	Link Road	,	,		
LI.1 Lar	ndscape ir	mpact, visual effec	cts and design		
	Manageme	•	<u> </u>		
Two Vil	age Bypass	5			
MA.1 N	/larine wa	nter quality and se	diment NO COUNCIL		
QUEST	IONS				
MN.1 N	Marine Na	avigation NO COU	NCIL QUESTIONS		
NV.1 N	loise and	Vibration			
NV.1.8	The Applican t	Requirements Do you agree the requirement suggested by ESC at 1.33 of their RR is appropriate? If not please explain your position.	n/a	SZC Co. does not agree that such a requirement is appropriate. In particular, SZC Co. does not agree that British Standard 4142: 2014+A1: 20198 requires an outcome where rating levels are 5dB below the background sound level. Reference to rating levels being below the measured background was taken out of British Standard in the 2014 revision. Such an approach is not required by the National Policy Statement (NPS), nor is it SZC	The requirement suggested by ESC at 1.33 of the RR is our default starting point for noise of this type. ESC agree with the Applicant's explanation of the assessment method for fixed plant noise, and in particular the requisite consideration of context. However, ESC also reiterate our previous comments (including in relation to questions NV.1.4 and NV.1.7) regarding the use of absolute noise limits as part of the contextual consideration. In accordance with BS 4142:2014+A1:2019 it may be appropriate to consider absolute noise levels where background and rating sound levels are low, but ESC consider that these should be derived in accordance with BS 4142 (and the accompanying guidance note issued by the Association of Noise Consultants in March 2020) and should consider potentially distinctive characteristics of the sound, rather than the 40 dB Lnight value adopted by the Applicant based on the WHO Night Noise Guidelines, which address noise-

Co.'s understanding that a related effects on health but are largely based on requirement to achieve rating research of health effects from transportation noise, levels 5dB below the with fewer distinguishing characteristics and which background sound level is a also do not consider the local context. policy requirement applied elsewhere by East Suffolk Council. Noise conditions or requirements based on the British Standard 4142 methodology must be capable of enforcement, and detecting whether a rating level post-development is 5dB below the background is verging on impossible. Either the rating level has to be measured closer to the source and extrapolated back, or highly complex measurement systems capable of directional/narrow band noise measurement are required. The least onerous outcome defined in British Standard 4142: 2014+A1: 20199 is a ʻlow impact', which occurs where the rating level does not

	exceed the background sound level. British Standard 4142: 2014+A1: 2019 sets out an assessment method for considering fixed plant noise, provides indicative outcomes based on a numerical assessment, and requires relevant contextual elements to be taken into account before reaching a conclusion on the outcome. The application of British Standard 4142: 2014+A1: 2019 is discussed in paragraphs 1.3.33 to 1.3.39 in Volume 1, Appendix 6G of the ES [APP-171] and paragraphs 4.21 to 4.35 in Volume 1, Appendix 6G, Annex 6G.1 of the ES [APP-171].	
NV.1.1 The Rail Noise n/a	(i) The necessary controls over	The Applicant's response is considered to be
1 Applican The assessment	train speeds and stopping	reasonable, though we would emphasise that the
t [APP-546] does	would be secured both within	Rail Noise Mitigation Scheme (RNMS), of which this
not appear to	the DCO and contractually.	specific mitigation measure is a part, is proposed as
make clear how	Within the DCO, Requirement	primary mitigation which is intrinsic to the current
the mitigation of speed	25 specifies that night-time trains cannot be operated	assessment of effects. Should this, or other parts of the RNMS not be deliverable, then the assessment
restriction, and	except in accordance with a	of effects might need to be revised, and more
stopping of trains	Rail Noise Mitigation Strategy	emphasis potentially put on other means of
at certain points	(RNMS) first submitted to and	chiphasis potentially pat on other means of

along the line will approved by ESC. It is the mitigation, including noise screens/barriers and/or be delivered night-time timing of the the Noise Mitigation Strategy (NMS) thresholds. Sizewell C train services which through the DCO. generates the requirement for (i) Please clarify control. how this would A draft of the RNMS is provided in Volume 3, be achieved/delivere Appendix 9.3.E of the ES d through the Addendum DCO. [APP-258], submitted in (ii) A train pulling January 2021. It sets out the precise nature of the controls 20 trucks is suggested to be necessary and would be what is likely to enforceable against the be used. Is this Applicant. Contractually, the train due to a services will be secured physical through the following: constraint on a. A contract between SZC Co. site/on the line? If not, what and a freight operating controls would be company, in which SZC Co. will in place to ensure align its DCO obligations with this were the the terms on which it maximum size of contracts with the supplier of train? rail (iii) What would services: the implications b. A Freight Customer Track be if the train Access Contract entered into were to be between SZC Co. and Network longer? Has this Rail. This is a standard form of been assessed? agreement which sets out the (iv) A train terms on which the travelling at

20mph with 20 customer is entitled to have services on the specified trucks would take how long to pass routes. Where the customer a single point? requires to take up those (v) How will the services, it issues a drawdown restriction on the notice to Network Rail and its number of trains appointed freight operator and the timetable who then enter into a Freight they are to Track Access Contract aligned with the terms of this operate to be adhered customer contract. This to/delivered sequence allows SZC Co. to be through the DCO? indirectly involved in the (vi) Please terms of the Track Access describe how you Contract. envisage a typical c. A Freight Track Access timetable for Contract entered into between Network Rail and the delivery and departure of freight trains to and from train operator. SZC Co. would the site would not be a party. occur, so the The Office of Rail and Road effect on the site (ORR) – the rail regulator has and the receptors published standard forms for the Track Access contracts. along which allow for "special the rail routes can be fully terms", including matters such understood. It as train speeds which apply to may be helpful to particular services. It is support this with through these terms that the a plan speed restrictions would be indicating the imposed, rather than a locations and

times the trains	general speed limit on the line
would be	_
expected to be at	as the restrictions are only
each location.	required for the Sizewell C
	night-time trains.
	(ii) Network Rail's Freight
	Loads Book specifies a
	maximum train length of
	339m for the
	East Suffolk Line. This would
	provide the necessary control.
	It is understood that this
	relates
	to the limitations of the
	signalling system, and safe
	operation of some types of
	level
	crossing. Assuming a train is
	made up of JNA or HOA
	wagons then it would consist
	of 20
	wagons and one locomotive.
	HYA wagons are also being
	considered, and as these are
	slightly shorter, a train of the
	maximum permitted length
	would consist of 21 wagons.
	(iii) It would not be possible to
	operate a longer train so this
	has not been assessed. (iv) A
	maximum length 339m train
	would take approx. 38
	seconds to pass a single point.
	Seconds to pass a single point.

				(v) The DCO and contractual controls described at (i) above	
				would also specify the number	
				of trains and their timetable.	
				(vi) An illustrative timetable is	
				provided in Chapter 11 of the	
				Consolidated Transport	
				Assessment (Doc Ref. 8.5 (B)).	
NV.1.1	The	Rail Noise	n/a	(i) The specification and	ESC's main comment is as per NV.1.11. However,
2	_		11/a 	1	•
2	Applican	(i) The mitigation		implementation of mitigation	ESC would also query the Applicant's statement that;
	t,	proposed appears		does not rely on the proximity	"As the expectation is that SOAEL will be avoided
	Network Rail	to rely upon		and	even where properties are within the distances
		welds not being		type of rail welds, rather, the	stated, SZC Co. does not rely on the proximity of
	(part iii	within a certain		potential effects are	specific weld types to comply with policy". ESC
	only)	distance		influenced by these factors. A	consider that this statement can only be true if the
		of sensitive		range of	policy aims of NPS EN-1 and the Noise Policy
		receptors. What		values is set out in paragraph	Statement for England (NPSE) are met. If the RNMS
		distance is		4.3.26 in Volume 3, Appendix	is not deliverable (which is currently uncertain based
		required between		9.3.A of the ES	on the Network Rail SOCG dated 2 June 2021) then
		receptor and the		Addendum [AS-257], stating	this would increase the emphasis on other forms of
		track to		the distances between track	mitigation, including possible noise screens/barriers
		achieve the		and receptor at which the	and/or the NMS thresholds, which might need to be
		LOAEL and SOAEL		LOAEL and SOAEL are	lowered to offset this. This would need to be fully
		levels?		attained, for specific	explored and discussed.
		(ii) Please clarify		combinations of train speed,	
		where the		track type and	
		measurements		rail joint type.	
		are taken from		Where there are properties	
		and to.		that fall within the distance	
		(iii) How would		stated for SOAEL for the	
		this be delivered		particular	
		through the DCO?			

combination of train speed, track type and rail joint type that is relevant to them, the expectation is that the **Noise** Mitigation Scheme (the original version of which was set out in Volume 2, Appendix **11H** of the **ES** [APP-210] with a revised version provided as Doc Ref. 6.3 11H(A)), will apply and a sufficient reduction in noise entering the property via the airborne path is achieved so that the combined total of groundborne noise and low frequency airborne noise will be below SOAEL. Examples of where this outcome is expected are stated in paragraphs 9.3.81 to 9.3.83 in Volume 1, Chapter 9 of the ES Addendum [AS-188]. As the expectation is that SOAEL will be avoided even where properties are within the distances stated, SZC Co. does not rely on the proximity of specific weld types to comply

				with policy (ii) The distances	
				with policy. (ii) The distances	
				are measured from the track	
				centreline to the façade of the	
				receptor	
				building, unless stated	
				otherwise, for instance, some	
				distances are quoted between	
				the	
				nearside rail and the receptor	
				façade.	
				(iii) The implementation of	
				track renewal along sections	
				of the line between	
				Woodbridge	
				and Saxmundham, which	
				would permit the removal of	
				aluminothermic welds, is the	
				subject of active discussion	
				with Network Rail. If those	
				discussions demonstrate the	
				benefit and deliverability of	
				the improvements, they could	
				be incorporated into the draft	
				Rail Noise Mitigation Strategy	
				(Volume 3, Appendix 9.3.E of	
				the ES Addendum	
				[APP-258]), which is secured	
				through via Requirement 25.	
NV.1.1	The	Rail Noise	n/a	(i) Works to the Saxmundham	Please see response to NV.1.11.
3	Applican	(i) The placement		to Leiston branch line are	
	t,	of matting under		secured in the draft DCO (Doc	
	Network	the ballast would			
	Rail				

(part iii	appear to be	I	Ref 3.1(C)) as Works 4C and	
only)	required for all	I	through Requirement 18. The	
	locations where a	I	particular characteristics	
	sensitive receptor	I	referenced in the question,	
	is within 20m of	I	however, are specified in the	
	the centreline of	I	draft Rail Noise Mitigation	
	the railway, and	I	Strategy which forms Volume	
	this	I	3, Appendix 9.3.E of the ES	
	matting should	I	Addendum [APP-258].	
	extend 10m	I	Requirement 25 requires the	
	beyond the end	I	detail of the Rail Noise	
	of the receptor	I	Mitigation Strategy to be	
	building. How	I	submitted to and approved by	
	would this be	I	ESC before the operation of	
	delivered through	I	night-time trains and	
	the DCO?	I	subsequently implemented.	
	(ii) Does this	I	(ii) The under-ballast mat is	
	require a specific	I	required to achieve a specific	
	standard of	I	standard, and an example of a	
	matting to be	I	product which has the	
	provided and	I	required properties is included	
	method of laying	I	in Appendix A of the draft Rail	
	of	I	Noise Mitigation Strategy,	
	the matting and	I	which is contained in Volume	
	the ballast to	I	3, Appendix 9.3.E of the ES	
	meet the	I	Addendum [APP-258]. The	
	minimum noise	ı	principal requirement to be	
	absorption	I	specified is the dynamic	
	required and	I	stiffness	
	therefore	I	modulus. The proposed	
	is a specific	I	product must have achieved	
	minimum	I	Network Rail "product	
	specification		acceptance"	

		required? If so, how is this to be secured?		which will specify certain performance and installation requirements. The chosen	
		(iii) Do Network		product,	
		Rail agree to this		with those performance and	
		method of		installation characteristics, will	
		installation?		be part of the Track Approval	
		mstanation.		In Principle documentation	
				(the "Form A") accepted by	
				Network Rail at the end of the	
				next design phase which	
				secures their place in the	
				design.	
				(iii) SZC Co. is engaging with	
				Network Rail through a Basic	
				Asset Protection Agreement	
				(BAPA) to achieve successful	
				Approval in Principle which	
				will demonstrate their	
				acceptance	
				of this solution.	
NV.1.1	The	Rail	n/a	(i) For the purposes of the rail	ESC's main comment is as per NV.1.11. However,
4	Applican	Noise/Freight		bulk import capacity an import	ESC would also query The Applicant's statement
	t	Management		payload of 1,250t per train	that; "As the expectation is that SOAEL will be
		(i) The		has been assumed. This has	avoided even where properties are within the
		information		been derived based on the	distances stated, SZC Co. does not rely on the
		provided in		published operational	proximity of specific weld types to comply with
		support of the		parameters	policy". ESC consider that this statement can only
		train noise		of the rail infrastructure.	be true if the policy aims of NPS EN-1 and the Noise
		assessment		The Network Rail Sectional	Policy Statement for England (NPSE) are met. If the
		indicates [APP		Appendix ₁₁ states a Route	RNMS is not deliverable (which is currently uncertain
		545]		Availability (RA) of the East	based on the Network Rail SOCG dated 2 June 2021)
				Suffolk	then this would increase the emphasis on other

that a typical line and Saxmundham to means of mitigation, including possible noise screens/barriers and/or the NMS thresholds, which truck has the Leiston branch line as RA7 and might need to be lowered to offset this. This would capacity to carry a trailing weight of 1,730t 77.9t of cargo. (rounded to 1,800t as route need to be fully explored and discussed. Assuming this to planning assessed in 200t be the case increments) per train. a train with 20 The RA7 category limits the trucks would axle load of each wagon to have a payload of 21.5t, resulting in a gross 1,558t. Please wagon explain why this load of 86t. There are several different types of rail wagons figure exceeds the that could be used to haul bulk materials via rail, each of quantum of these has slightly differing material said to be imported per capacities and tare weights train as set out in which impact of payload available. A typical JNA open the Freight Management wagon has a tare weight of Strategy? 23.7t, therefore a maximum payload (ii) Assuming trains were of 62.3t can be carried before loaded to full the axle load limit is capacity what exceeded. This results in the wagon being only partially implications filled as the design capacity of would this have a JNA wagon is 77.9t payload for the noise (101.6t gross) i.e. the total capacity would exceed the assessment? permitted axle load of the branch line. An alternative HOA hopper wagon (bottom discharge)

versible he used. This has a
may also be used. This has a
tare
weight of 24.2t allowing a max
payload of 61.8t. As with the
JNA wagon, this wagon is
only partially full as a HOA
wagon has a design capacity of
77.8t payload (102t gross).
The trailing weight restriction
places a maximum gross
weight of the wagons hauled
by
the locomotive to ensure
sufficient traction and
breaking on the gradient of
the line. The
1,800t limit on the
Saxmundham to Leiston
branch line results in a
maximum of 20
wagons per train (20 x 86 =
1,720t).
Therefore assuming 20
wagons this results in a rail
import of between 1,236 and
1,246t,
assumed as 1,250t per train.
Considerable further rail
enhancement beyond that
being considered by the
project, such
as rail underbridge
replacement and track bed
replacement and track bed

renewals, would be required to permit the full capacity of the wagons to be utilised, therefore the maximum wagon payload capacity of 77.9t will not be achieved. For the purposes of noise and vibration assessment the theoretical maximum capacity of the rail wagons has been used, i.e. 77.9t payload. While this cannot be achieved due to the condition of the rail infrastructure it represents a conservative worst case for the assessment. (ii) The assessment assumed a payload of 77.9t per wagon, i.e. 1558t for a 20-wagon train, even though that total payload will not materialise in practice, as set out above. Further, the source of groundborne noise is unevenness of the surfaces of the rail head and the vehicle wheels, including both roughness (which occurs all along the rail and

around the wheel tread) and discrete discontinuities such as joints and some types of weld. The magnitude of the effect caused by these features is primarily dependent on the unsprung mass of the wheelsets of the wagons and locomotives. Unsprung mass is not dependent on load. There is a small additional effect in the case of joints and welds due to the sprung mass, which includes the load, but it is dependent on the weight of individual wagon loads and not on the total payload of the full length train. Increasing the payload of the train as a whole has no effect on groundborne noise levels over and above the effect of any increase in the load on individual axles. The assessment of airborne railway noise has taken account of the range of locomotive power settings that may be required to move fully-loaded trains.

				The source data on which the airborne noise assessment is based is set out in Volume 1, Chapter 9 of the ES Addendum [AS-188] and its associated Appendix 9.3.A (Volume 3 of the ES Addendum [AS-257]).	
NV.1.1	The	Rail Noise	n/a	(i) In addition to the unloaded	Response noted. ESC are currently undertaking
6	Applican	In undertaking		wagons that were used during	further reviews of the rail groundborne noise and
	t	the noise		the August 2020 tests, the	vibration assessments and expect to provide further
		assessment, a		train also included a	comment on this in due course.
		test train was run		locomotive at each end. The	
		in August 2020, it		August 2020 tests are	
		is understood this was unladen.		described in Volume 3 ,	
				Appendix 9.3.A of the ES	
		(i) How		Addendum [AS-257] and its associated	
		representative of the noise of a		associated appendices.	
		fully loaded train		For each traverse, the engine	
		would this be?		at the front pulled the train,	
		(ii) Please explain		while the engine at the rear	
		what differences		was effectively a dead load.	
		in acoustic terms		The total train weight was	
		you could expect		approximately 772 tonnes and	
		for acceleration		was	
		and		considered sufficiently similar	
		breaking, relative		to real-life conditions that the	
		to a fully laden		tests could be considered	
		train.		representative. The train	
				operators confirmed that the	

operational characteristics of
the
leading engine in each
traverse reflected the
expected operation with a
fully-loaded train.
The source data that was used
in the assessment of railway
noise was collected prior to
the submission of the DCO
application, based on
numerous measurements of
freight
trains. The source data and
surveys were set out in
Volume 9, Appendix 4B,
Annex B
of the ES [APP-546].
The testing in August 2020
found that lower source noise
levels would be appropriate,
however, the assessment
retained the original, higher
noise levels.
(ii) As stated in answer to (i)
above, the operational
characteristics of the leading
engine
in the test runs reflected the
expected operation with a
fully-loaded train. Accordingly,
differences between the
testing undertaken, and a
The same of the sa

				fully-loaded train, are not expected. The locomotive is noisiest part of a freight train, and it is at its noisiest when operating under full power. The survey work that informed the noise assessment, as illustrated in Tables 1.4 and 1.5 in Volume 9, Appendix 4B of the ES (Doc Ref. 6.10) [APP-546] found that decelerating trains, i.e. braking trains, were found to generate lower sound levels than trains running at a steady speed, which were in turn quieter than trains running at full power.	
NV.1.1 8	The Applican t, ESC, SCC	Rail SOAEL and LOAEL The SOAEL and LOAEL is based at least in part on the assessment for HS2, and the justification of a higher rating appears to be based on the quantum and speed of rail	Notwithstanding the obvious differences between a new high-speed rail line and rail traffic serving the construction of a power station, the technical basis for the adopted LOAEL and SOAEL is accepted. However, the overarching policy aims of NPS EN-1 require that all efforts are	Reference is made to High Speed Two (HS2) in two contexts: • The derivation of a SOAEL for airborne railway sound in terms of Lafmax; and • The derivation of SOAEL for groundborne noise. In both respects, the Sizewell C noise assessment is more stringent than the HS2 assessment.	We agree with the Applicant's overarching point that the derivation of SOAEL for airborne and groundborne rail noise are more stringent than those adopted for HS2, although we do not consider the updated approach to assessing groundborne noise from rail to represent a lowering of the SOAEL, more that this approach is more onerous because two simultaneous sources (airborne/groundborne) are assessed against the previously nominated LOAEL and SOAEL values, rather than one. This does not

traffic associated with HS2 as opposed to here. (i) Do the Councils agree this is a reasonable position to take in setting the SOAEL and LOAEL for rail noise? (ii) In the event the Councils do not agree, what method would be considered would provide a reasonable approach in the circumstances of this case?

taken to mitigate adverse effects above LOAEL and to avoid significant adverse effects above SOAEL. As such, adequate consideration of mitigation is critical to the correct use of these parameters. ESC does not currently consider that the Applicant has adequately explored and exhausted all mitigation options to "mitigate and minimise" adverse impacts, or that the Rail Noise Mitigation Scheme and the Noise Mitigation Scheme provide adequate protection for residents. Specifically, we consider that the Noise Mitigation Scheme should be triggered at a level below SOAEL, which simply represents a threshold to be avoided. Discussions are ongoing on this between the Applicant and ESC and progress is expected, but this remains a key concern.

In particular, for airborne railway noise, the LAFmax SOAEL references HS2, but the value adopted in the SZC noise assessment is a more stringent value than adopted for HS2. HS2 adopted two values for the LAFmax SOAEL, which varied according to the number of trains per night; a value of 85dB LAFmax was adopted where there were 20 trains or fewer, or 80dB LAFmax where there were more than 20 trains per night. For SZC, the more stringent 80dB LAFmax was adopted even though there are expected to be less than 20 trains per night. Volume 9, Chapter 4 of the ES [APP-545] adopted a value for SOAEL of 50dB LASmax for

groundborne noise considered

in isolation; this is 5dB less

figure, although it is noted

that in the HS2 case there may be 20 or more groundborne noise events per hour.

stringent than HS2's

equivalent

however, affect our agreement that this is more onerous than previously.

Groundborne noise was developed further in Volume 1, Chapter 9 of the ES Addendum [AS-188] and Volume 3, Appendix 9.3.A of the ES Addendum [AS-257] where it proposed that combined groundborne noise and airborne noise should be assessed against the LOAEL and SOAEL values for groundborne noise alone, namely 35 dB LASmax and 50 dB LASmax respectively. This approach effectively lowers the SOAEL for groundborne noise alone, by an amount dependent on the relative levels of groundborne and airborne noise as received. This change in approach was considered appropriate in this instance due to the unique circumstances at Sizewell C, where airborne and groundborne noise are likely to combine in a manner not addressed in previous groundborne noise assessments.

Ideally, setting the threshold for noise insulation mitigation at LOAEL would represent the most robust possible means of protecting amenity. However, there is no clear basis for this, and ESC recognise that other forms of mitigation exist that could negate the need for improved noise insulation, which should be a last resort.

However, ESC considers that eligibility for noise insulation should be triggered at a level below SOAEL, which simply represents a threshold to be avoided. Discussions are ongoing on this between the Applicant and ESC and progress is expected, but this remains a key concern.

It is a requirement of the Noise Policy Statement for England₁₂ and the Overarching **National Policy Statement for** Energy (NPS EN-1)₁₃ to mitigate and minimise noise falling between LOAEL and SOAEL, with the NPS stating that all reasonable steps should be taken in this endeavour while also taking into account the guiding principles of sustainable development (paragraph 2.24). The draft Rail Noise Mitigation Strategy, which is contained in Volume 3, **Appendix** 9.3.E of the ES Addendum [AS-258], sets out the proposed operational and physical measures to limit railway noise and vibration, which has effect at properties affected by railway noise irrespective of whether they fall above or below LOAEL or SOAEL. The

measures include:

The Applicant emphasises the draft Rail Noise Mitigation Strategy (RNMS) as a "reasonable" and proportionate response to the potential adverse effects" due to rail, and that together with the enhanced insulation to properties that would be offered "where necessary" as part of the Noise Mitigation Scheme (NMS), that this provides a comprehensive mitigation package. However, ESC remains concerned that there is uncertainty regarding the deliverability of the full package of measures forming the RNMS. We understand that the RNMS is proposed as primary mitigation and therefore the updated assessment of effects assumes that these would be adopted in their entirety. If these measures are not deliverable, then this would presumably change the assessment of effects. Furthermore, the revised NMS eligibility thresholds (in line with the EIA significance) are welcomed, but if the RNMS is not deliverable then no other physical mitigation is currently proposed between LOAEL and SOAEL. This would emphasise the policy aim to exhaust all other forms of mitigation before considering enhanced insulation, particularly in terms of noise barriers/screening. Based on the current Network Rail (NR) SOCG (2 June 2021) we understand NR have no objection in principle to acoustic fencing on their land if required, provided this was funded by the Applicant. ESC

• Installation of a crossover north of Saxmundham station and upgrades to the signalling system to permit trains to join or leave the Saxmundham to Leiston branch line without stopping, known as the 'change arrangements at Saxmundham'. • The Saxmundham to Leiston branch line will be upgraded with a refurbished trackbed, concrete or steel sleepers, and welded rails to provide a consistent rail cross-section consistent gauge, and smooth running surface.

have already requested that the Applicant explore this mitigation option (as noted in the noise and vibration SOCG) and are currently awaiting a response from the Applicant on this. If it ends up the case that there are very few practical mitigation measures that could be used to "mitigate and minimise" effects above LOAEL, then ESC also consider that the NMS thresholds for airborne rail noise might need to be reduced further to offset this limitation.

- The proposed rail extension route will be constructed using the same approach as the upgraded Saxmundham to Leiston branch line.
- Under ballast mats will be installed where the Saxmundham to Leiston branch line or proposed rail extension route pass within 15m of a residential receptor, and will

be installed for a minimum of
10m either side of the
property. An alternative
design may be substituted, if
its effectiveness is equal and
approved.
Night-time speed limits of
10mph will apply at three
locations along the East
Suffolk line:
Woodbridge/Melton,
Campsea Ashe, and
Saxmundham.
Speed on the Saxmundham
to Leiston branch line will be
limited to 10mph during
the early years.
Pending the results of
further assessment of the
upgraded and mitigated
Saxmundham to Leiston
branch line during the early
years operation, the speed
limit on Saxmundham to
Leiston branch line may be
increased to 20mph. This
further assessment work is
described later in this section.
The speed limit on the
proposed rail extension route
will match that applied to the

	Saxmundham to Leiston
	branch line. This enables
	constant train speeds to be
	maintained, thereby avoiding
	accelerating locomotive noise
	close to the northwestern
	corner of Leiston.
	Class 66 locomotives will be
	used in preference to Class 68
	locomotives, where
	there is equivalent choice.
	Night-time construction
	trains will not travel into or
	out of Leiston, instead being
	held on the Saxmundham to
	Leiston branch line to the west
	of the Saxmundham
	Road level crossing, at defined
	locations.
	Construction trains stabled
	overnight on the branch line
	will not be permitted to
	keep their engines idling.
	These measures, together
	with the extensive associated
	development proposed as part
	of
	the application which is
	primarily aimed at mitigating
	transport effects, are
	considered to
	be a reasonable and
	proportionate response to the
<u> </u>	

NV.1.2	The	Rail Noise	n/a	potential adverse effects identified to result from the use of trains as part of the SZC project. Together with insulation where necessary, as provided by the Noise Mitigation Scheme (the original version of which was set out in Volume 2, Appendix 11H of the ES [APP-210] with a revised version provided as Doc Ref. 6.3 11H(A)), it provides a comprehensive mitigation package. The effects of noise, vibration	The Applicant's comments regarding the draft Deed
5	Applican t	In light of the length of time	11,0	and groundborne noise have been fully assessed against	of Obligation are noted. The Applicant also states in their response that "no receptors will experience
	τ	that the		the principles of the National	effects greater than SOAEL, and mitigation proposed
		construction		Policy Statement for Energy	will minimise noise above LOAEL". ESC do not
		period would last,		(NPS EN-1) ₁₇ and the Noise	currently consider that the mitigation proposals do
		would not		Policy Statement for	meet the policy aim to mitigate and minimise noise
		occupiers		England ₁₈ , particularly in terms	above LOAEL or to exhaust all other forms of
		of properties		of LOAEL and SOAEL. As set	mitigation before considering enhanced noise
		within close		out in	insulation, such as might need to be provided
		proximity of the rail line need to		Volume 3, Appendix 9.3.A of	through the NMS. The revised NMS eligibility
		be rehoused for		the ES Addendum [AS-257] no receptors will experience	thresholds are welcomed, but no other physical mitigation is currently proposed between LOAEL and
		the duration to		effects greater than SOAEL,	SOAEL, except the RNMS. The RNMS is presented as
		avoid being		and mitigation proposed will	primary mitigation, but Network Rail have not yet
		subject to regular		minimise noise above LOAEL.	committed to being able to deliver these measures.
					This further emphasises the importance of achieving

significant disturbance? (Currently the ES suggests that the SOAEL would be exceeded at a distance of 5m at 10mph but this would not yet appear to be an agreed position.) The s106 agreement [PDB-004] explains on pg 77 that the **Noise Mitigation** Scheme will either be secured through the DCO or the s106 agreement, but this is still under consideration please explain the latest position on how this mitigation would be secured

This being the case, there is no need for rehousing. Having reflected on the nature of the steps set out in the Noise Mitigation Scheme (the original version of which was set out in Volume 2, Appendix **11H** of the **ES** [APP-210] with a revised version provided as Doc Ref. 6.3 11H(A)) and discussed the matter in the Noise topic meetings with ESC and SCC, SZC Co. believes it would be sensible to secure the Scheme via Schedule 12 of the draft Deed of Obligation (Doc Ref. 8.17(C)). ESC and SCC have recognised that may be the most appropriate route. It is intended that the Scheme

the policy aim to exhaust all other forms of mitigation before considering enhanced insulation, particularly in terms of noise barriers. Based on the current Network Rail (NR) SOCG (2 June 2021) we understand NR have no objection in principle to acoustic fencing on their land if required, provided this was funded by the Applicant. ESC have already requested that the Applicant explore this mitigation option to ensure that noise above LOAEL would be minimised as far as practicable (as noted in the noise and vibration SOCG) and are currently awaiting a response from the Applicant on this. If some or all of these measures cannot be delivered, then ESC also consider that the NMS thresholds for airborne rail noise might need to be reduced further to offset this limitation.

steps within the draft Deed of

Obligation (Doc Ref. 8.17(C))

to ensure that each step is

be 'de-constructed' into a series of discrete, sequential

NV.1.2 6	The Applica nt, Networ k Rail, ESC, SCC	Rail Noise In order to minimise disturbance to receptors in close proximity to the rail line, particularly at night, would a period excluding train operations be reasonable and or enforceable?	Ideally, from a noise impact perspective, ESC would prefer there to be no freight train movements at night because this is a new source and there is clearly much greater potential for disturbance at night. However, ESC understands that the Applicant has engaged with Network Rail extensively on this point and that there is insufficient capacity during the day to accommodate the freight paths. Running all trains during the daytime would clearly negate any potential	require action from ESC before the next step in the sequence can be implemented. These principles are not controversial between the parties although the precise final terms of the Scheme are the subject of discussions as part of the Statement of Common Ground and progressing the Deed of Obligation. The timing of trains would be specified in the Freight access contracts, which are explained in response to Question NV.1.11 in this chapter and therefore enforceable. However, there is limited ability to 'choose' the timing of train operations. Night-time operations are necessary due to the absence of pathing capacity in the day. At night the scheduling of trains will be a function of the capacity available within the network	ESC agree with the Applicant's explanation of why a night-time exclusion period would be impractical. However, this again emphasises the importance of the RNMS and NMS (and potentially noise barriers/screens) in mitigating airborne rail noise impacts. If the RNMS cannot be delivered as currently proposed and/or noise barriers are demonstrated to be impractical/ineffective, then ESC consider that the NMS thresholds for airborne rail noise may need to be reduced further to offset this and ensure the policy aims of NPS EN-1 are met, as this would affect the balance of acceptability.
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night-time impacts, but the Applicant has stated that this would not be practicable within the constraints on the line.

We also understand that the timetable for the night rail, particularly at peak use, is relatively restricted however if a period where movements were excluded in the most sensitive part of the night could be accommodated and this did not unreasonably increase impact from movements in the more condensed periods before and after it would be worth considering but would require assessment first.

In terms of enforceability, it should be a relatively simple matter as other than survey and maintenance trains we understand the only night rail traffic is as a result of the Sizewell C project, if trains were moving within any exclusion period then it

timetable. The work undertaken on this has shown the ability to secure 7 train movements. The addition of timing limitations would be very likely to reduce that number

- especially as the slowed speed of the trains means that each one takes a considerable time to travel from the main line at Ipswich to site. Limiting train numbers would act against the policy imperative in the NPS to prefer trainborne freight where cost effective.

The Applicant's view is that the balance lies in favour of securing the available capacity at

night but ensuring that impacts are appropriately mitigated. Once established, the

timetable would be fixed, creating certainty about the timing of the Sizewell C freight trains.

An illustrative timetable is provided in Chapter 11 of the Consolidated Transport Assessment (Doc Ref 8.5(B)).

NV.1.2 8	,	Rail Noise It would appear that the ES recognises a significant harm to between 100 and 110 properties. Would this accord with NPS EN1 Policy to avoid harm to human health, or the aims of the Noise Policy Statement for England? Do	would be easier to determine the source. The overarching policy aims of NPS EN-1 require that all efforts be taken to mitigate adverse effects above LOAEL and to avoid significant adverse effects above SOAEL. As such, adequate consideration of mitigation is critical to the correct use of these parameters. ESC does not consider the Applicant has adequately explored and exhausted all mitigation options to "mitigate and"	While not a question for SZC Co. to respond to, it should be clear that the number of 100 to 110 properties relates to the number of properties expected to have night-time LAFMAX noise levels of between 70 and 77dB, which would be considered to be subject to a significant adverse effect, in an EIA context. There is no direct link between a medical 'harm' and these outcomes and it is not	The Applicant's comment that there is no direct link between the threshold of significance in EIA terms and medical 'harm' is noted. However, the Applicant has not responded to the ExA's query about whether this would accord with the aims of Noise Policy Statement for England (NPSE). On this specific point ESC would emphasise our previous response to this question, in relation to the overarching policy aims of NPS EN-1 and the NPSE. Specifically, ESC does not consider the Applicant has adequately explored and exhausted all mitigation options to "mitigate and minimise" adverse impacts. Again, the revised lower NMS eligibility thresholds (in line with the EIA significance) are welcomed, but
			options to "mitigate and minimise" adverse impacts, or that the Rail Noise Mitigation Scheme provides adequate protection for local residents. Specifically, we consider that the scheme should be triggered at a level below SOAEL, which simply represents a threshold to be avoided. Discussions are ongoing on this between the Applicant and ESC and	these outcomes and it is not SZC Co.'s position that the occupants of these properties will be subject to "significant harm".	if the RNMS is not deliverable then ESC consider that the NMS thresholds for airborne rail noise might need to be reduced further to offset this and deliver an acoustically viable rail freight strategy.

			progress is expected, but this remains a key concern.		
NV.1.2 9	ESC	Rail Noise The Applicant concludes [APP 545] that up to 460 properties would be subject to noise above the LAmax based LOAEL. Do you agree that the secondary mitigation offered would minimise the adverse effects on health and quality of life?	ESC understands that the Noise Mitigation Scheme is now referred to as "Secondary" mitigation, where it was previously referred to as "Other" mitigation in the original assessment (ES Vol 9 Ch 4). ESC does not currently consider that the Applicant has adequately explored and exhausted all mitigation options to "mitigate and minimise" adverse effects on health and quality of life (between LOAEL and SOAEL). Primary mitigation proposals are currently limited to track engineering (material upgrades and improvements) and operational restrictions, and other mitigation options exist which have not been considered and could effectively "mitigate and minimise".	While not a question for SZC Co. to respond to, it is noted that the number of 460 properties relates to the total number of properties expected to be subject to railway LAFMAX noise levels above LOAEL, but does not include those above SOAEL. The Noise Mitigation Scheme, the original version of which can be found in Volume 2, Appendix 11H of the ES [APP-210], has been amended following discussions with ESC so that noise insulation will be offered when maximum sound levels from trains exceeds 73dB LAFMAX (as a façade level, equivalent to 70dB as a free-field value). The updated version of the Noise Mitigation Scheme is provided as Doc Ref. 6.3 11H(A).	The Applicant's response highlights the revised NMS thresholds. Again, this is welcomed but ESC would reiterate that delivering the RNMS is fundamental to the current assessment of effects and if the RNMS is not deliverable then then ESC consider that the thresholds might need to be reduced further to offset this and deliver an acoustically viable rail strategy.

NPS EN-1 clearly states that "it may be appropriate for the Planning Inspectorate to consider requiring noise mitigation through improved sound insulation to dwellings" but only in situations "when all other forms of noise mitigation have been exhausted". This is an important distinction because it suggests that offering improved sound insulation to eligible properties should be the last resort in terms of mitigation. The Planning Practice Guidance for noise (PPG) also reflects this position, stating that there are four broad types of noise mitigation: 1. Engineering (reducing noise at source) 2. Layout (using distance and good

			design to reduce impacts) 3. Planning conditions/obligatio ns (e.g. restricted activities) 4. Mitigation through noise insulation (for dwellings).		
			Clearly, there is both potential and a policy-based intention for all forms of mitigation to be considered to "mitigate and minimise" adverse effects on health and quality of life. ESC has discussed this with the Applicant, who is currently carrying out an exercise to explore other options for mitigation, including trackside screening. This process could satisfy ESC's concerns, but this is ongoing.		
NV.1.4	The	Two Village	ESC defers to SCC as local	The DCO application falls to be	The Applicant's response is noted, although ESC's
9	Applican	Bypass	highway authority to	considered primarily against	understanding is that the policy aims of NPS EN-1
	t, ESC, SCC	In light of the	respond to this question as	the policy requirements of the NPSs. Compliance with the	and the NPS (mitigate/minimise above the LOAEL,
	JCC	recognised significant	operational noise from new road schemes is under the	terms of the NPSs would	avoid at the SOAEL) are part of the Government's policies on sustainable development. If these policy
		adverse effects	responsibility of the local	provide a strong indication	aims are not met then this part of the proposed
		that would arise	highway authority.	that a	p p . p

from the use of proposal accords with the two village government policy, including bypass during policies for sustainable development operation, can this be regarded which involve the need to as sustainable balance economic, social and development? environmental considerations. The NPSs are deliberately drawn to be wide ranging and to encompass all of those matters which Government considers are most directly relevant to the assessment of proposals for nationally significant infrastructure. There is no 'other' policy test which sits outside and above the NPSs. Even if the two village bypass were a stand-alone project assessed on its own merits, it would be appropriate to also recognise the significant benefits that it brings, along with the support for the principle of the bypass apparent through successive consultations, including the consistent

support for a bypass from the

development might arguably not be sustainable in terms of noise.

It is our understanding that SCC are currently undertaking further reviews of the road traffic noise and vibration assessments and further comments may be provided by SCC in due course.

affected parish councils, the
District
Council and the County
Council.
A bypass of at least the two
villages is supported in the
East Suffolk Local Plan (at
paragraph 3.31) and in the
Infrastructure Delivery Plan at
Appendix B of the Plan, which
describes the bypass as
'essential'. In this context,
'essential' is defined in the
Plan as:
"Essential infrastructure is the
infrastructure that is necessary
to support and mitigate
development and ensures
policy objectives of the Local
Plan are met. Development
could
take place without this
infrastructure but its
sustainability would be
undermined."
The bypass, therefore, is
recognised by the Local Plan
to bring sustainability
benefits.
No party that supports the
bypass can expect that it
would not involve some
adverse
447-55

effects – for instance, in noise or landscape or ecology terms but the fact of some adverse effects is not such as to outweigh the benefits of the bypass or the need for it. Noise effects of the type referenced in the question also need to be considered in the context of other considerations. As the Noise Policy Statement for England explains (at paragraphs 2.17 and 2.18), noise effects need to be considered in the context of the Government's policy for sustainable development, which means that: "This should avoid noise being treated in isolation in any particular situation, i.e. not focussing solely on the noise impact without taking into account other related factors." Even if the noise effects were to be taken in isolation and even if the bypass was considered on its own merits without reference to its wider role and benefits, its noise

NV.1.5 9	The Applican	Night Time Noise (i) On the basis	The question is unclear to ESC because it appears to be	trigger the policy test at NPS EN-1 paragraph 5.11.9 because significant adverse effects on health and quality of life are avoided. Taken as a whole, however, and seen in its proper context, the two village bypass forms an important component of the mitigation measures necessary to ensure the delivery of nationally important infrastructure. In that context, it benefits from very strong policy support. (i) In responding to this question, it is assumed that	ESC remain unclear what the "60 dB" in the question relates to, and while the Applicant has attempted to
	t, ESC	that a value of 40dB Lnight represents a level where adverse effects begin to occur in locations with a low background noise level at night on what basis has a level of 60dB been assessed to	based on comparing a night-time LOAEL value with a daytime SOAEL value. We are unsure that the 60dB quoted is correctly quoted, we are assuming that it was intended to read 60dBLmax. If this assumption is correct, we can respond at a later deadline.	the 60dB referred to is the 60dB Lafmax level identified as a LOAEL in a number of the assessments. Noise assessed using the Lnight parameter is different to noise assessed using the Lafmax parameter. The Lnight is the equivalent continuous level of noise events in the 8 night-time	respond, ESC request again that the specific parameter be clarified so that ESC can provide an appropriate response.

represent only a low impact? (ii) How has this figure been arrived at? (iii) Can this be reasonably argued to avoid adverse health effects when the WHO guidance recognises that adverse health effects are identified at night when levels exceed 40dB Lnight-outside.

However. ESC does not agree that "a value of 40dB Lnight represents a level where adverse effects begin to occur in locations with a low background noise level at night" and consider that night-time absolute noise levels from the operational power station should be assessed using an alternative criterion which considers the character of the sound. This criterion should be set in accordance with BS 4142:2014+A1:2019.

hours between 23:00 and 07:00 hours over a period of one year, whereas Lafmax is the highest noise level that occurs in a given period. These terms are explained in the Glossary in Volume 1, Appendix 6G of the ES [APP-171].

There is no fixed correlation between the two, as they relate to different ways of quantifying sound.

An exceedance of a 40dB Lnight threshold does not indicate an exceedance of a 60dB LAFMAX threshold, and vice versa.

(ii) The derivation of the 60dB LAFMAX value is set out in Volume 1, Appendix 6G, Annex

6G.1 of the ES [APP-171], starting at paragraph 5.78. (iii) For the reasons explained above, yes, it can; the two methods of quantifying cannot be directly correlated, so conclusions based on one measure of sound, will not have meaning for the other.

3	l	Noise Mitigation		(i) The Noise Mitigation	In line with relevant policy, ESC reiterate that the
	Applican t, ESC (Part iii) and iv) only)	Scheme (NMS) Please explain how this scheme [APP-210] would operate to protect living standards for residents such that they were not significantly affected. (i) How would the mitigation offered protect gardens? (ii) How would the noise environment within properties be protected to an acceptable degree when windows were open? (iii) Do the Council consider the mitigation scheme as drafted sufficiently clear and enforceable such that receptors would	(iii) ESC does not consider the mitigation scheme as currently drafted to provide adequate protection to receptors. Discussions are ongoing with the Applicant in relation to the thresholds for eligibility (particularly for Main Development Site construction, and night-time rail noise), consideration of building construction(s) (particularly in relation to listed and/or protected buildings), and a process to ensure eligibility is assessed based on a refreshed noise assessment once the proposals are more developed. (iv) ESC has no particular preference with how this would be better secured, although there are practical reasons why securing through S106 would be more	Scheme (the original version of which was contained in Volume 2, Appendix 11H of the ES [APP-210] with a revised version provided as Doc Ref 6.3 11H(A), is a scheme for improving the insulating performance of properties; there will be no effect from the scheme in gardens. The principles of this approach are well-established through the Noise Insulation Regulations that apply to road and railway schemes 29, 30. (ii) The benefits of the Noise Mitigation Scheme will occur when windows are closed, however, the scheme allows for the installation of an alternative means of ventilating the properties, such as the through-wall ventilation system required by the Noise Insulation Regulations that apply to road and railway schemes 31, 32. (iii) No response from SZC Co. is required.	In line with relevant policy, ESC reiterate that the NMS should be a last resort and the aim should be to mitigate / minimise noise via other means of mitigation where possible. This applies to road and rail noise, but also to construction noise. The Code of Construction Practice should ensure that this policy aim is met through the planning and implementation of construction works, to ensure that the NMS would only ever be required as a last resort.

	be adequately protected? (iv) Do the Council consider this would be better secured through the DCO or S106?	efficient in terms of coordination/programme.	(iv) No response from SZC Co. is required.	
NV.1.6 The 8 App t, ES PHE	olican In the event that having the SOAEL	Yes, ESC consider that properties exposed to rail noise levels above the EIA threshold for significant adverse effects (70 dB L _{AFmax}) should be eligible to apply for enhanced sound insulation under the Noise Mitigation Scheme, rather than at the higher SOAEL value, which is just the level to be avoided.	It is SZC Co.'s position that the SOAEL and the level at which significant adverse effects may occur in an EIA context need not align. In response to questions posed by ESC, further justification for this position was set out in a paper appended to SZC Co.'s responses to ESC's requests for information, which is itself appended to the draft Statement of Common Ground with ESC. Please also refer to the explanation in response to Question NV.1.75 of this chapter. Nevertheless, the revised Noise Mitigation Scheme (the original version of which was contained in Volume 2, Appendix 11H of the ES [APP-210] with a revised version	The Applicant's justification for the separation of EIA significance and SOAEL is accepted by ESC. The revised lower NMS thresholds (in line with the EIA significance) are welcomed, but if the RNMS is not deliverable then ESC consider that the NMS thresholds for airborne rail noise might need to be reduced further to offset this and deliver an acoustically viable rail strategy.

NV.1.7 4	The Applican t, ESC (Part iii) only)	Mitigation Assessment [APP 545] para 4.7.5 (i) How will the assessment be made where a balance needs to be struck between acoustic benefit and visual harm? (ii) Who would be the decision maker? (iii) Do you agree this is an appropriate	ESC is unable to answer this question at this time. We would need sight of the Applicant's responses to parts (i) and (ii) in order to respond to part (iii).	provided as Doc Ref 6.3 11H(A) now adopts a lower threshold of eligibility, aligned with the significant adverse effect level, in an EIA context. This amendment was made at ESC's request. The 100 to 110 properties identified as being potentially subject to significant adverse effects, in an EIA context, would be eligible for insulation under the revised scheme. (i) The screening envisaged in paragraph 4.7.5 in Volume 9, Chapter 4 of the ES [APP- 545] was for the construction phase of the works only. While there will need to be a balance between acoustic benefit and adverse visual impacts, the screens would be temporary and only present for the duration of the works in that location. (ii) The mechanism for installing any such screening would fall under the Code of	The Applicant's response to this question is noted and ESC consider this reasonable. However, ESC do note that the CoCP does not contain any discussion on the balance between acoustic benefit and visual harm and how any final decisions on the locations and of screening will be made.
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5 A	The Applican t, ESC (part iv)	Precedents from previous DCO and legal cases Reference is made to two previous projects (Thames Tideway Tunnel and Heathrow) in order to justify setting a SOAEL at a different level from the level that might be regarded as having a significant adverse effect. (i) Please explain how the two cases referred to are similar to this	(iv) We recognise the basis for this approach in some cases, but ESC does not see it as our role to decide whether it is justified in this case. However, regardless of whether the EIA significance threshold and SOAEL are aligned, this does not detract from the overarching policy requirement to "mitigate and minimise" adverse effects and avoid significant adverse effects. In this case, considering the scale and duration of the development, if the two thresholds are not aligned then ESC consider that the	8.11(B)), which will be subject to agreement with ESC. (iii) No response from SZC Co. is required. (i) Since the publication of the Noise Policy Statement for England in 2010, and the introduction of the concepts of LOAEL and SOAEL into the practice of assessing schemes in the planning process, it has been necessary to reconcile different uses of the word "significant". This issue arises in the assessment of many Nationally Significant Infrastructure Projects (NSIP) and non-NSIP projects, and is not dependent on the nature of the project or its comparability to SZC. Under the NPSE and the NPS policies that incorporate its principles, the policy is to avoid	ESC note the Applicant's response but reiterate our previous response to this; regardless of whether the EIA significance threshold and SOAEL are aligned, this does not detract from the overarching policy requirement to "mitigate and minimise" adverse effects and avoid significant adverse effects, and if the two thresholds are not aligned then the threshold for eligibility for the noise mitigation scheme should be the lower of the two values.
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(ii) Please provide the overarching policy impacts on health and quality copies of the of life should be mitigated and requirements will be met. decisions and minimised. The EIA Regulations34 are point out from concerned with the each the identification of likely explanation and justification significant effects. The **EIA Regulations further** provided in those cases. require a description of (iii) The Cranford measures to 'avoid', 'prevent', Case would not 'reduce', or 'offset' significant adverse appear to be a NSIP Case but a effects. Importantly, these S78 appeal references to 'avoid', against the 'prevent', 'reduce' and 'offset' are apt to specific requirements of include both policy responses the 'Cranford under the NPS: i.e. avoidance Agreement'. of levels above the SOAEL, and Please explain mitigation and minimisation how you consider between the LOAEL and the those SOAFL. circumstances The concept of significance in comparable to an EIA context is therefore the current broader than the SOAEL. 'Significant' effects in an EIA scheme. (iv) Do the context include effects above Council agree and below the SOAEL. An ES is that setting the required to detail response SOAEL at a measures in respect of both. different level Within that broader EIA context of significance, from that regarded as

significant in the	national policy has identified
ES is justified?	the SOAEL
25 is justified.	as the level at which the
	response should specifically
	become one of avoidance.
	This difference in approach to
	'significant' between noise
	policy and in an EIA context
	needs to be recognised and
	properly reflected in the
	assessment.
	The different approach is also
	seen in the fact that the policy
	is specifically to avoid
	significant adverse impacts on
	health and quality of life. It is
	sensible to consider what
	that term should mean.
	Equating such impacts with
	any significant effect in an EIA
	context
	would fail to recognise that
	noise policy adopts a tiered
	approach with different
	responses
	specified for impacts below
	the LOAEL, between the
	LOAEL and SOAEL, and above
	the
	SOAEL. There may be effects
	below SOAEL which are
	nevertheless significant in an
	EIA context, even if they do

not reach a level which would have a 'significant adverse effect on health and quality of life', as that term is understood by reference to the PPG and NPSE. Furthermore, the NPSE sets its aims by reference to effects on health and quality of life, and as far as noise and vibration are concerned established practice is to correlate such effects against absolute measures of noise and or vibration. This is why, in most major projects, LOAEL and SOAEL values have been adopted using absolute values of indices. Rather than absolute levels (from which the acceptability of an environment can be understood), an EIA is concerned principally with changes or impacts. In the environmental impact assessment context, the assessment of noise and vibration effects

has traditionally followed the approach adopted in many areas of environmental impact assessment in which first of all the baseline is considered, and then the effect of the proposal in the context of the baseline is evaluated. The outcome is a finding of change. An example of this is the case of road traffic noise and the procedure set out in DMRB LA111. The process of carrying out a significance assessment as part of an environmental impact assessment is not testing compliance with planning policy on the effect on the health and quality of life of individuals. For all these reasons, the criteria employed in the two processes can be different. The Thames Tideway Tunnel and Heathrow Cranford decisions expressly endorsed this approach. Crucially, the policy formulation at issue in both cases was the same as in the

	present case. In all three
	cases, the policy derives
	ultimately from the NPSE
	which
	provides a common policy
	framework on this issue across
	the planning regime. The
	three
	aims of the NPSE are the same
	as the three aims set out at
	NPS EN-1 paragraph 5.11.9.
	For Thames Tideway Tunnel,
	the relevant policy was
	contained in the National
	Policy
	Statement for Waste Water,
	which at paragraph 4.9.9
	adopts the NPSE policy of
	avoiding
	significant adverse effects on
	health and quality of life from
	noise and mitigating and
	minimising adverse effects on
	health and quality of life from
	noise. That is identical to the
	policy in paragraph 5.11.9 of
	NPS-EN1.
	The Examining Authority was
	explicit on this point, stating at
	paragraph 12.329: "On the
	first aim, the Applicant
	considers that the NPS relates
	to significant observed

adverse effects as defined by NPPG and NPSE and not the definition of significant effect the ES. We agree with this distinction."35 The Heathrow Cranford decision was concerned with noise policy in the NPSE. As has been stated above, that policy is identical to that in NPS EN-1 at paragraph 5.11.9, which is relevant in the present case. For that reason, the fact that it was a s.78 appeal decision rather than a NSIP does not affect the support which it lends to SZC Co.'s approach to the policy. At paragraph 1064, the **Heathrow Cranford Inspector** confirmed: "I do not equate the "significant adverse effects" identified in the ES with those that the NPSE seeks to avoid." SZC's approach is also consistent with the approach in legislation to addressing noise

impacts through insulation.
The Noise Insulation
Regulations 1975 ₃₆ and the
Noise
Insulation (Railways and Other
Guided Transport Systems)
Regulations 1996 ₃₇ specify an
absolute level of noise at
which a duty to insulate arises,
rather than operating by
reference to the measure of
change as seen in the EIA
context.
Further confirmation of the
correct approach is also found
in the updated noise
assessment guidance in the
Design Manual for Roads and
Bridges (DMRB), which was
issued in November 2019 in
LA111 (updated in May 2020).
LA111 separates SOAEL from
significance in the EIA context.
LA111 sets LOAELs and
SOAELs for noise and vibration
(e.g. Table 3.49.1). It does not
align either with EIA
significance. They are treated
as different concepts.
LA111 treats the SOAEL as a
level of noise, whereas in
LA111 EIA significance
generally
01

		relates to a change in noise	
		level. It allows for an outcome	
		below SOAEL to be significant,	
		in terms of the EIA	
		Regulations. A receptor may	
		experience a large (significant)	
		increase	
		in noise but if that increase	
		comes from a low base, it may	
		not reach a level which would	
		justify noise insulation. LA111	
		expressly provides that the	
		LOAELs and SOAELs which it	
		identifies are to apply for	
		the purposes of the policy test	
		in the NPS for National	
		Networks, i.e. to avoid	
		significant	
		adverse impacts on health and	
		quality of life and to mitigate	
		and minimise other adverse	
		impacts on health and quality	
		of life (England National	
		Application Annex to LA111,	
		E/1.3	
		and Table E/1.3). That is the	
		same policy found in the NPSE	
		and in NPS EN-1 at paragraph	
		5.11.9.	
		LA111 is up to date guidance	
		from the relevant national	
		authorities. It should carry	
		,	

weight. The approach set out in LA111 accords with the planning decisions at Heathrow Cranford and Thames Tideway Tunnel. The policy regimes applicable for each (NPSE for Cranford, NPSE for Cranford, NPSE for Water for Thames Tideway Tunnel, and NPS for National Networks for road schemes and LA111) all incorporate the tests from the NPSE and are materially identical to that applicable in the present case, i.e. NPS EN-1 paragraph 5.11.9. (ii) Relevant extracts of Thames Tideway Tunnel are provided in Appendix 21A to this chapter and relevant extracts of Heathrow are provided in Appendix 21B to this chapter. The relevant passages are referred to in the answer to (i) above. (iii) The Thames Tideway Tunnel and Heathrow Cranford decisions are directly relevant because they were dealing with same policy framework	 	
planning decisions at Heathrow Cranford and Thames Tideway Tunnel. The policy regimes applicable for each (NPSE for Cranford, NPS for Waste Water for Thames Tideway Tunnel, and NPS for National Networks for road schemes and LA111) all incorporate the tests from the NPSE and are materially identical to that applicable in the present case, i.e. NPS EN-1 paragraph 5.11.9. (ii) Relevant extracts of Thames Tideway Tunnel are provided in Appendix 21A to this chapter and relevant extracts of Heathrow are provided in Appendix 21B to this chapter. The relevant passages are referred to in the answer to (i) above. (iii) The Thames Tideway Tunnel and Heathrow Cranford decisions are directly relevant because they were dealing	weight. The approach set out	
Heathrow Cranford and Thames Tideway Tunnel. The policy regimes applicable for each (NPSE for Cranford, NPS for Waste Water for Thames Tideway Tunnel, and NPS for National Networks for road schemes and LA111) all incorporate the tests from the NPSE and are materially identical to that applicable in the present case, i.e. NPS EN-1 paragraph 5.11.9 (ii) Relevant extracts of Thames Tideway Tunnel are provided in Appendix 21A to this chapter and relevant extracts of Heathrow are provided in Appendix 21B to this chapter. The relevant passages are referred to in the answer to (i) above. (iii) The Thames Tideway Tunnel and Heathrow Cranford decisions are directly relevant because they were dealing	in LA111 accords with the	
Cranford and Thames Tideway Tunnel. The policy regimes applicable for each (NPSE for Cranford, NPS for Waste Water for Thames Tideway Tunnel, and NPS for National Networks for road schemes and LA111) all incorporate the tests from the NPSE and are materially identical to that applicable in the present case, i.e. NPS EN-1 paragraph 5.11.9. (ii) Relevant extracts of Thames Tideway Tunnel are provided in Appendix 21A to this chapter and relevant extracts of Heathrow are provided in Appendix 21B to this chapter. The relevant passages are referred to in the answer to (i) above. (iii) The Thames Tideway Tunnel and Heathrow Cranford decisions are directly relevant because they were dealing	planning decisions at	
Tunnel. The policy regimes applicable for each (NPSE for Cranford, NPS for Waste Water for Thames Tideway Tunnel, and NPS for National Networks for road schemes and LA111) all incorporate the tests from the NPSE and are materially identical to that applicable in the present case, i.e. NPS EN-1 paragraph 5.11.9. (ii) Relevant extracts of Thames Tideway Tunnel are provided in Appendix 21A to this chapter and relevant extracts of Heathrow are provided in Appendix 21B to this chapter. The relevant passages are referred to in the answer to (i) above. (iii) The Thames Tideway Tunnel and Heathrow Cranford decisions are directly relevant because they were dealing	Heathrow	
applicable for each (NPSE for Cranford, NPS for Wastee Water for Thames Tideway Tunnel, and NPS for National Networks for road schemes and LA111) all incorporate the tests from the NPSE and are materially identical to that applicable in the present case, i.e. NPS EN-1 paragraph 5.11.9. (ii) Relevant extracts of Thames Tideway Tunnel are provided in Appendix 21A to this chapter and relevant extracts of Heathrow are provided in Appendix 21B to this chapter. The relevant passages are referred to in the answer to (i) above. (iii) The Thames Tideway Tunnel and Heathrow Cranford decisions are directly relevant because they were dealing	Cranford and Thames Tideway	
Cranford, NPS for Waste Water for Thames Tideway Tunnel, and NPS for National Networks for road schemes and LA111) all incorporate the tests from the NPSE and are materially identical to that applicable in the present case, i.e. NPS EN-1 paragraph 5.11.9. (ii) Relevant extracts of Thames Tideway Tunnel are provided in Appendix 21A to this chapter and relevant extracts of Heathrow are provided in Appendix 21B to this chapter. The relevant passages are referred to in the answer to (i) above. (iii) The Thames Tideway Tunnel and Heathrow Cranford decisions are directly relevant because they were dealing	Tunnel. The policy regimes	
Water for Thames Tideway Tunnel, and NPS for National Networks for road schemes and LA111 all incorporate the tests from the NPSE and are materially identical to that applicable in the present case, i.e. NPS EN-1 paragraph 5.11.9. (ii) Relevant extracts of Thames Tideway Tunnel are provided in Appendix 21A to this chapter and relevant extracts of Heathrow are provided in Appendix 21B to this chapter. The relevant passages are referred to in the answer to (i) above. (iii) The Thames Tideway Tunnel and Heathrow Cranford decisions are directly relevant because they were dealing	applicable for each (NPSE for	
Tunnel, and NPS for National Networks for road schemes and LA111) all incorporate the tests from the NPSE and are materially identical to that applicable in the present case, i.e. NPS EN-1 paragraph 5.11.9. (ii) Relevant extracts of Thames Tideway Tunnel are provided in Appendix 21A to this chapter and relevant extracts of Heathrow are provided in Appendix 21B to this chapter. The relevant passages are referred to in the answer to (i) above. (iii) The Thames Tideway Tunnel and Heathrow Cranford decisions are directly relevant because they were dealing	Cranford, NPS for Waste	
Networks for road schemes and LA111) all incorporate the tests from the NPSE and are materially identical to that applicable in the present case, i.e. NPS EN-1 paragraph 5.11.9. (ii) Relevant extracts of Thames Tideway Tunnel are provided in Appendix 21A to this chapter and relevant extracts of Heathrow are provided in Appendix 21B to this chapter. The relevant passages are referred to in the answer to (i) above. (iii) The Thames Tideway Tunnel and Heathrow Cranford decisions are directly relevant because they were dealing	Water for Thames Tideway	
and LA111) all incorporate the tests from the NPSE and are materially identical to that applicable in the present case, i.e. NPS EN-1 paragraph 5.11.9. (ii) Relevant extracts of Thames Tideway Tunnel are provided in Appendix 21A to this chapter and relevant extracts of Heathrow are provided in Appendix 21B to this chapter. The relevant passages are referred to in the answer to (i) above. (iii) The Thames Tideway Tunnel and Heathrow Cranford decisions are directly relevant because they were dealing	Tunnel, and NPS for National	
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The relevant passages are referred to in the answer to (i) above. (iii) The Thames Tideway Tunnel and Heathrow Cranford decisions are directly relevant because they were dealing	of Heathrow are provided in	
referred to in the answer to (i) above. (iii) The Thames Tideway Tunnel and Heathrow Cranford decisions are directly relevant because they were dealing	Appendix 21B to this chapter.	
above. (iii) The Thames Tideway Tunnel and Heathrow Cranford decisions are directly relevant because they were dealing	The relevant passages are	
(iii) The Thames Tideway Tunnel and Heathrow Cranford decisions are directly relevant because they were dealing	referred to in the answer to (i)	
Tunnel and Heathrow Cranford decisions are directly relevant because they were dealing	above.	
Cranford decisions are directly relevant because they were dealing	(iii) The Thames Tideway	
relevant because they were dealing		
because they were dealing	Cranford decisions are directly	
	relevant	
with same policy framework	because they were dealing	
	with same policy framework	

NV.1.8	The	Residential	(I) If the SOAEL is exceeded	from the NPSE which is applicable in the present case. Please see answer to (i) above. (iv) No response from SZC Co. is required. (i) The SOAEL values for	(i) The Applicant states in their response that "The
0	Applican t, ESC	Amenity In the respective chapters of the ES there are various locations which recognise that noise levels would exceed the SOAEL or be above the LOAEL. In each location the internal environment of residential receptors has been sought to be protected by mitigation when the appropriate threshold is exceeded. (i) In the locations where the SOAEL is exceeded in a residential garden how can this be	in a residential garden, then this would not meet the aim of the NPSE in avoiding significant adverse effects on health and quality of life from noise. (ii) The LOAEL and SOAEL values that are adopted should ideally represent a balance of potential internal and external effects, although this is not possible in all cases. In any case, this reinforces the statement in NPS EN-1 that "it may be appropriate for the Planning Inspectorate to consider requiring noise mitigation through improved sound insulation to dwellings" but only in situations "when all other forms of noise mitigation have been exhausted". ESC considers	construction noise were derived from the guidance contained in BS5228-1: 2009+A1: 2014 ₃₈ , which is appropriate for noise-sensitive premises, including gardens. The important SOAEL value for trains relates to sleep disturbance, which is an internal effect, and applies at a time when gardens are unlikely to be in use (i.e. at night). The other rail SOAEL values, and the SOAEL values for road traffic noise, are derived from the relevant Noise Insulation Regulations ₃₉ , 40, which relate to the internal environment. SZC Co. has only sought to protect the internal environment where the relevant effect occurs within the property, or where legislation or guidance suggests that is the	SOAEL values for construction noise were derived from the guidance contained in BS5228-1: 2009+A1: 201438, which is appropriate for noise-sensitive premises, including gardens." While the overarching guidance may be appropriate for residential receptors (including gardens), the figures from BS5228-1 adopted as construction SOAEL values specifically relate to the provision of insulation to control internal noise levels where "all reasonable measures have been taken to reduce the noise levels, but levels are still such that widespread community disturbance or interference with activities or sleep is likely to occur". ESC would reiterate our previous comments at D2 and specifically the reference to 5228-1 Annex 5E for long-term construction projects involving "large scale and long-term earth moving activities" which the proposed development would certainly be. The Applicant's other comments are noted. (ii) The Applicant states that "The values for the main development site are lower than the values that would flow from BS5228-1: 2009+A1: 2014, in recognition of the duration and work hours for the site." However, significance thresholds for

said to meet the aims of the Noise **Policy Statement** for England in avoiding significant adverse impacts on health and quality of life from environmental ...noise? (ii) In light of the length of the construction period for the main development site what noise level would be regarded as appropriate and what mitigation is offered to protect residential gardens to ensure this level is not breached?

that all possible forms of mitigation should be exhausted to reduce noise levels before they reach a receptor, so that adverse effects on external amenity are mitigated, not just on internal health/amenity. The SOAEL values for construction noise are based on those suggested in Table E2/Annex E4 of BS 5228-1+A1:2014 as thresholds for construction noise mitigation and are therefore based on assessing and mitigating internal impacts only. There is guidance in Annex E5 of BS 5228 which specifically relates to long-term construction projects involving "large scale and long-term earth moving activities" and provides recommended noise limits for this. ESC consider that this approach is more directly suitable than an approach based on noise insulation thresholds, and that it would provide the

appropriate course of action; examples would include the **Noise Insulation Regulations** for road and railways41, 42 and Part 1 of British Standard 5228₄₃, which relates to construction noise. SZC Co. likewise has protected external areas where legislation or guidance suggests that is the appropriate course of action. (ii) The medium magnitude of impact values identified in Table 11.2 in Volume 2, Chapter 11 of the ES [APP-202] correlate with a significant effect, in an EIA context, for a medium sensitivity receptor, i.e. a dwelling. These values are included in the **Code of Construction Practice (Doc** Ref. 8.11(B)) as the thresholds that the works must be managed against. By placing controls on noise generation at source or between the source and receptor, as envisaged by the controls in the Code of **Construction Practice**, this

construction noise in the ES (e.g. medium impact, medium sensitivity receptor) are not lower at all times of day (0700-23:00). Annex E3 of BS 5288-1 (per the Applicant's response) sets thresholds for day, evening, and night periods, with the applicable threshold for evening periods (19:00 to 23:00) set 5 dB below the 60 dB L_{AeqT} "Day" period adopted in the ES. Furthermore, Annex 5 of BS 5228-1 also recommends a threshold of 55 dB L_{AeqT} for daytime noise from long-term construction projects involving "large scale and long-term earth moving activities".

			necessary balance between external and internal noise effects. The 55 dB LAeq,1h absolute noise limit recommended in that annex is also broadly aligned with WHO thresholds for ambient noise in external amenity areas from the Guidelines for Community Noise, 1999 (50-55 dB LAeq,T). Alternatively, the ABC Method, per Table E1/Annex E3 of BS 5228 also provides suitable (albeit less onerous) criteria for assessing the impact of external construction noise.	mitigation will protect residential gardens. The values for the main development site are lower than the values that would flow from BS5228-1: 2009+A1: 201444, in recognition of the duration and work hours for the site. These are considered to be the appropriate values, and the monitoring and management processes to be set out in the Noise Monitoring and Management Plans will be the key mechanism for achieving these values.	
NV.1.9	The	Night-time Rail	(ii) ESC does not agree with	(i) The Relevant	The Applicant's response is noted. ESC reiterate our
3	Applican t, ESC (Part ii) only)	Noise Campsea Ashe Parish Council, Woodbridge	their concerns on the assessment methodology, ESC considers the effects have been adequately	Representations were made on the basis of the assessment set out in Volume 9, Chapter 4 of the ES	previous response at D2 regarding the current draft RNMS and NMS, which ESC are discussing further with the Applicant.
		Town Council and ESC all express concern that the	assessed (in terms of methodology/criteria).	[APP-545], which has been superseded by the updated assessment set out in Volume	
		assessment of	ESC does agree that those	3, Chapter 9 of the ES	
		effects from the	identified effects would not	Addendum [AS-188] and the	
		night-time rail	be properly mitigated, based	associated Appendices 9.3.A	
		operation as	on current proposals.	to 98.3.E [AS-257] and [AS-	
		proposed has not		258].	

been adequately The Applicant has provided a The updated assessment draft Rail Noise Mitigation explains that overlyassessed or those effects on Strategy and a Noise conservative assumptions residents Mitigation Scheme, we are were made in the not currently satisfied with main ES, provides much more properly mitigated. these and are discussing detailed assessment and sets (i) Please respond further with the Applicant. out the mitigation measures to the concerns that will be taken to avoid and set out how significant observed adverse the assessment effects. has been The mitigation that applies to undertaken and operation of trains, and train how the infrastructure, is set out in the mitigation offered draft Rail Noise Mitigation would work in Strategy [AS-258], which is to practice. be secured by Requirement (ii) Do the Council 25 in the draft DCO (Doc Ref. agree with these 3.1(C)). concerns? The Noise Mitigation Scheme (the original version of which was set out in Volume 2, Appendix 11H of the ES [APP-210] with a revised version provided as Doc Ref. 6.3 11H(A)), is to be secured via Schedule 12 of the draft Deed of Obligation (Doc Ref. 8.17(C)). (ii) No response from SZC Co. is required.

R.1.29	ONR,	Considerations Public Health	Air quality – refer to detailed	Responses to the comments	ESC does not necessarily agree with all the
	ESC, EA,	PHE have	response re: particulate	raised by Public Health	statements made in the Applicant's response, but
	The	indicated a series	matters and dust deposition,	England in their relevant	does agree that the impacts of the proposed
	Applican	of shortcomings	along with general air quality	representation are included	development, following mitigation, are sufficiently
	t	in their RR with	comments at AQ.1.2, AQ.1.3,	within the Statement of	low as to not give rise to any significant adverse
		regard to both	AQ.1.7, AQ.1.11, and	Common Ground with Public	effects on public health.
		radiological and	AQ.1.22.	Health England (Doc Ref.	·
		air quality issues		9.10.22). A summary of the	
		 please respond 		responses to radiological and	
		to each of the		air	
		points that they		quality comments is provided	
		have raised in so		below for ease of reference.	
		far as it relates to		Air Quality Impacts	
		your		The judgement placed on	
		responsibilities		defining health significance	
		and explain		was one of professional	
		whether you		opinion,	
		consider these		underpinned by the evidence	
		issues could be		provided in the ES, and	
		overcome. In the		reinforced though a	
		event you		precautionary	
		consider the		approach where all residential	
		issues can be		receptors are considered	
		resolved please		sensitive, despite the baseline	
		explain how the		indicating the contrary.	
		matters would be		With reference to air quality,	
		resolved and		following a review of the air	
		under which		quality assessment outputs,	
		regime		the	
		appropriate		relative change in	
		mitigation would		concentration and exposure	
		be secured and			

operation	for NO ₂ , PM ₁₀ and PM _{2.5} at all
monitored.	receptors are
	orders of magnitude lower
	than is required for any
	quantitative exposure
	response
	assessment, from any
	construction and operational
	activity (including at the main
	development site, from
	transport beyond the site, at
	all associated developments
	and from the combined heat
	and power facility). As
	detailed in paragraph 28.6.146
	of
	Volume 2, Chapter 28 (Human
	Health and Wellbeing) of the
	ES [APP-346] from a health
	context, the only significant
	operational emission was from
	the periodic testing of the
	emergency backup
	generators. However, even
	here, the change in
	concentration and
	exposure is orders of
	magnitude lower than is
	required to quantify any
	manifest health
	outcome. This risk was set into
	context through a

hypothetical assessment which demonstrated that even if a quarter of the population within East Suffolk would reside at the location with the maximum change in emission concentration for an entire year, there would still be no health impact. These findings set the basis to the professional judgement on significance, where all air quality objectives protective of the environment and health are met, and the relative change in concentration and exposure are insufficient to quantify any manifest health outcome (be it adverse or beneficial) forming a very low impact. When applied alongside the inherently precautionary approach where it is assumed that that the entire population within the study area are of uniformly high sensitivity to

changes in air quality, the effect is still negligible (not significant). The change in construction exposure of non threshold emissions, such as NO₂, PM₁₀ and PM_{2.5} at any receptor modelled is orders of magnitude lower than is required to quantify any manifest health outcome (be it adverse or beneficial). Sensitivity analysis is not required, and best demonstrated through the hypothetical assessment of risk for the LOOP backup generator emissions. Even when grossly overestimating population exposure (where it is assumed a quarter of East Suffolk live outside for an entire year in the highest process contribution), the relative change is still insufficient to result in an measurable health outcome. The proposed development does not materially impact upon air quality

standards protective of health, and the relative change in concentration exposure remain orders of magnitude lower than is required to quantify any manifest health outcome. Sensitivity analysis is not required. Sensitivity testing was undertaken of the methods used to estimate future year emissions from road transport at the Stratford St Andrew Air Quality Management Area to confirm the assumptions on future vehicle emission rates used in the assessment. The methodology and sensitivity test is reported in Volume 3, Appendix 2.7.A of the ES Addendum[AS-127]. Emissions permitted under other regulatory regimes have been considered as part of the baseline modelling to which emissions from the proposed development have been added.

Cumulative assessment with other projects that do not form part of the baseline assessment is presented within Volume 10, Chapter 4 of the **ES** [APP-578]. Fetal doses related to the fishing family are also considered in the Human RIA but are not discussed in Para 25.6.21 - It needs to be clear from which site and discharge route (aqueous, gaseous or both) the doses relate to. The Radiological **Considerations Chapter** (Volume 2, Chapter 25 of the **ES** [APP-340]) provides a summary of the results from the Human Radiological Impact Assessment, and as such not all results are included. A copy of the full radiological impact assessment is included within Volume 2, Appendix 25B of the ES [APP-371]. This ensures that the reader can have access to both a summary and the full assessment.

Fetal doses were only assessed in terms of a Screening Assessment and as such was not included as part of the main summary. The results of the Screening Assessment showed that the dose to a foetus from discharges of Aqueous and Gaseous Effluent from Sizewell C would be 17 µSv/year. This constitutes less than 6% of the statutory (source and site) dose constraints of 300 and 500 μSv/year and is considered to be low. Para 25.6.47 states exposure from natural sources as 2700 microSv, but this includes medical radiation therefore is not correct. Vol 2 Chpt 25 App 25A-25C Para 1.1.12 states 2.7mSv as well. This is a typographical error and should have read "...(0.4% of) the amount of radiation exposure from background sources in the UK (2700 μSv yr-1)....′

In terms of paragraph 1.1.12 of Volume 2, Appendix 25A° of the **ES** [APP-341], Background Dose is defined by the International Atomic Energy Agency as 'Dose or dose rate (or an observed measure related to the dose or dose rate) attributable to all sources other than the one(s) specified' 50. As defined by Public Health England, in the UK the average exposure to member of the public in UK is 2700 μSv/year₅₁. As such the statement is correct. Para 1.1.12 states RSR is delivered by EA on behalf of **DECC...needs updating** Noted this is now Department for Business, Energy and Industrial Strategy. App 25B Human RIA Para 30 should say "The different modules within PC-CREAM 08 model the contribution of radioactive decay chain products ('progeny') in

slightly different ways. For the FARMLAND and RESUS modules only the first progeny that is not in secular equilibrium over a period of one year is modelled explicitly. In PLUME the first progeny, even if it is shortlived, is modelled explicitly so its contribution to dose at short distances downwind can be determined. DORIS considers all radionuclides in the decay chain and progeny that are not in equilibrium with the immediate parent are modelled explicitly [Ref 29]" We note the comment raised by Public Health England. Both the original and revised statement are equivalent. Table 2-4 Footnote 7 reference needs to be checked This is a typographical error and should have read Reference 29. Para 124 – this paragraph discusses skyshine but does not reach a conclusion

about whether the conclusions of the sensitivity analysis should be applied. This is discussed further in Paragraphs 145-147 and Table 3-2 of Volume 2, Appendix **25B** of the **ES** [APP-371]. It should be noted that the low level of radiation dose to the public from Sizewell C is dominated by Gaseous and Aqueous Discharges, and Skyshine and Direct Dose. Would it not be more appropriate to refer to the skin dose limit given in EPR 2016 Schedule 23 Part 4 (1) Para 2 (a)? Schedule 23 Part 4(1) Paragraph 2 (a) refers out to the Basic Safety Standards Directive. In the UK the Dose Limits specified in the Basic Safety Standards Directive are enshrined in domestic legislation via the Ionising Radiations Regulations 2017. As such the statement is correct.

Given importance of marine
food pathway, has volumetric
exchange rates been
considered within the RIA?
The sensitivity analyses were
undertaken in line with joint
guidance from the
Environment
Agency, Scottish Environment
Protection Agency, Northern
Ireland Environment Agency,
Health Protection Agency and
Food Standards Agency on
"Principles for the Assessment
of
Prospective Public Doses
arising from Authorised
Discharges of Radioactive
Waste to the
Environment"52. This identified
the three specific areas noted
in the comments.
Although this does not
explicitly consider the marine
dispersion, the following text
is
provided in paragraph 34 of
Volume 2, Appendix 25B of
the ES [APP-371] in relation to
the conservatism used in the
volumetric exchange rates.
This is summarised below.

All marine dispersion parameters 'are the PC-CREAM default values, except for the volume of the local compartment, which has been increased from 3.00E+08 m3 to 4.00E+08 m3 to ensure that the discharge point (roughly 3.5 km from the coast) is within the local compartment. Sediment distribution coefficients and all properties of the other ocean compartments modelled within PC-CREAM were also default values. The default volumetric exchange rate corresponds to a local compartment volume of 3.00E+08 m3. This has been retained as a new volumetric exchange rate cannot be derived without hydrographical data relevant to the area [Ref 29]. A local compartment of 4.00E+08 m3 would have a higher exchange rate, which would result in lower doses, so it is conservative to retain the default value [Ref 17]. The change in volume is small compared

			to the volume of the regional compartment, so the impact on the regional compartment is expected to be small'.	
SE.1 SOCIO-ECONOMIC				
TT.1 Tr	raffic and Transport			
	aste (conventional) and mat	erial resource NO		