



## Wylfa Newydd Project

Horizon's Deadline 8 Responses to Actions set  
in Issue Specific Hearings on 4 - 8 March 2019

PINS Reference Number: EN010007

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Revision 1.0

Examination Deadline 8

Planning Act 2008

Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009

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# 1 Horizon Deadline 8 responses to actions set in Issue Specific Hearings 4-8<sup>th</sup> March 2019 inclusive

## 1.1 Introduction

1.1.1 This document contains Horizon Nuclear Power Wylfa Limited's (Horizon) responses to actions outlined by the Hearing Action Points for the Issue Specific Hearings (ISH's) held between 4<sup>th</sup> – 8<sup>th</sup> March by the Examining Authority and published on 18<sup>th</sup> March 2019.

1.1.2 It also contains Horizon's responses to actions it recorded during the ISH's and committed to responding to in its Deadline 7 response to hearing actions.

## 1.2 Hearing Action responses – ISH 4<sup>th</sup> March 2019

1.2.1 The below table outlines the status of responses to actions recorded by the Examining Authority.

**Table 1-1 Status of actions assigned to 'Applicant' on 4<sup>th</sup> March 2019**

ExA Ref	Action	Deadline	Status
1	New Schedule 4 Control Documents and Schemes (currently Schedule 21) to be inserted.	D7	We are awaiting confirmation from the Examining Authority as to when the DCO can be renumbered as a number of articles will be affected by this. (See Action Point 4 of [OD-008])
2	Applicant to confirm Office for Nuclear Regulation (ONR) agreement that the Temporary Worker Accommodation (TWA) can be occupied until commissioning of reactor no. 2.	D7	Horizon received email confirmation from the ONR on 12 February 2019 in which ONR stated that it "is satisfied for the Site Campus to remain occupied by construction workers after the Unit 1 commissioning date until Unit 2 is completed provided: 1. The maximum occupancy of the Site Campus is restricted to 3,000 workers; and 2. The Site Campus is not subsequently re-purposed for residential purposes after Unit 2 is completed".

ExA Ref	Action	Deadline	Status
			<p>In light of this response, Horizon has proposed a new requirement in the draft DCO submitted at Deadline 8 (25 March 2019) to accommodate these conditions. The new requirement WN22[A] Occupation of the Site Campus following Unit 1 Commissioning Date provides:</p> <p>"(1) Following the Unit 1 Commissioning Date, the number of bed spaces available for occupation at the Site Campus must not exceed 3,000.</p> <p>(2) The Site Campus must not be occupied during the operation period of Unit 2."</p>
3	Clarify definitions for First Nuclear Construction and First Nuclear Concrete	Wednesday	This is reflected in Horizon's Deadline 8 submission of the updated draft DCO, Phasing Strategy, DCO Glossary and Construction Method Statement.
4	Applicant to provide clarity around phasing - PW2 states mitigation in accordance and PW3 states works carried out in general accordance – how certain can the ExA be about what happens?	Wednesday	This is reflected in Horizon's Deadline 8 submission of the updated Phasing Strategy.
5	Mound E, which is entirely in the Area of Outstanding Natural Beauty (AONB), separates the power station site from the AONB. Providing screening for properties, National Trust (NT) believe the mound should not be reworked – at least on western facing slopes. This would give planting time to establish and	D7	Please refer to Appendix 1-1 of this document.

ExA Ref	Action	Deadline	Status
	encourage ecological connectivity. Applicant to respond		
6	NT suggested carrying out a Residential Amenity Assessment for Felin Gafnan. Applicant to respond	D7	Submission of an Residential Amenity Assessment for Felin Gafnan arising from the Wylfa Newydd DCO Project is not required on the basis that sufficient information has been submitted as part of the application and examination to determine the predicted environmental effects on the property. The Environmental Statement has assessed impacts arising from air quality, noise and vibration in addition to visual effects. There are no predicted significant effects from noise & vibration or air quality during the operation of the Wylfa Newydd Power Station, whilst the landscape and visual assessments are provided in chapter D10 [APP-130]. This assessment includes photomontages of the operational development which are provided in Appendix D10-8 [APP-199]. During construction, there are no predicted significant effects on Air Quality, whilst specific noise effects have been provided during examination as part of the ES Addendum at Deadline 8 (and previously at Deadline 4 before incorporation of the Requests for Non-Material Change [REP4-025]). Landscape and visual effects during construction are also reported in chapter D10 of the Environmental Statement. The cumulative effects of

ExA Ref	Action	Deadline	Status
			<p>construction and operation are covered in the application in Volume I of the Environmental Statement [APP-384-397] as part of the ES Addendum submitted at Deadline 8.</p> <p>In addition and outside of the Environmental Statement, submitted for information purposes only Horizon has provided community viewpoints as agreed with IACC. Viewpoint 37 shows the publicly available view from the Public Right of Way adjacent to Felin Gafnan. Horizon have also provided a construction visualisation from this viewpoint to allow the National Trust to understand the appearance of site during construction.</p>
7	Mound B, Applicant will look at reworking of eastern side to mitigate NT concerns		<p>There is no intention to rework the screening mound as it will be planted.</p> <p>Please also refer to Appendix 1-2 of this document.</p>
8	Applicant agreed to produce a Construction Method Statement/requirement for Mound E to explain reprofiling, silt filtration and planting, particularly on inner face, in the light of Mound E's location in the AONB and its ecological significance in the context of adjoining ecological sites and to locate the method statement within the draft DCO	D7	Please refer to Appendix 1-1 of this document.

ExA Ref	Action	Deadline	Status
9	"Isle of Anglesey County Council (IACC) emphasised the need for plants with local provenance to be used in landscaping schemes and requested a revised Design Principle in the Landscape Habitat Mitigation Strategy (LHMS) to require this.	D7	Responded to in Horizon's Deadline 7 Responses to Actions set in Issue Specific Hearings on 4 – 8 March 2019 [REP7-001].
10	Discuss bringing forward habitat creation on Mound E and engagement on Wednesday	Wednesday	N/A – action for National Trust
11	IACC requested an Arboriculture Management Plan for the Dame Sylvia Crowe woodland - Applicant to consider.	D7	Please refer to requirement WN8[A] in the updated draft DCO which provides for management of the woodland during construction.
12	LHMS management plan would be secured in WN11, but need to consider timing, as some planting may need to come forward to beginning of programme, e.g. For Dame Sylvia Crowe and Tre'r Gof sites. Applicant to consider	D7	Please refer to Horizon's updated DCO submitted at Deadline 8. Following a meeting with IACC on 8 March, IACC confirmed it was happy with the new management schemes in WN8[A] (Construction) and WN11 [Final/Operation].
13	Applicant to consider IACC request to see woodland management plans for approval before work commences.	D7	Please refer to requirement WN8[A] in the updated draft DCO which provides for management of the woodland to be approved prior to construction.
14	Applicant to discuss with IACC mechanism for Applicant to engage with IACC on Soil Management method statement and Remediation Strategy	D7	Section 9.5 of the Wylfa Newydd CoCP submitted at Deadline 8 has been updated to provide that the results of the surveys and the soils maps will be shared with IACC. Following a meeting with Horizon on 8 March 2019, IACC confirmed it was comfortable with this approach.

ExA Ref	Action	Deadline	Status
15	Applicant and IACC to consider clarification of clarity of routing / treatment and process for decision making for boundary diversions	Wednesday	The final landscape and habitat scheme at operation is subject to IACC approval as secured by requirement WN9. Additional matters have been inserted in the Deadline 8 update of the DCO in response to IACC concerns.
16	IACC seek additional off-site compensation, currently in S106	Wednesday	An AONB and Heritage Coast Contribution has been agreed to be paid. A Environmental Mitigation Fund has agreed to be paid. Both of these revised contributions are secured in schedule 11 of the DCO Section 106 Agreement.
17	Applicant to consider further its strategy for communication with local communities	D7	Horizon's community communication strategy is clearly set out in the DCO Section 106 Agreement (to be submitted following Deadline 8) and CoCP documents (as submitted at Deadline 8).
18	Natural Resources Wales (NRW) believes more work needs to be done on design principles, particularly REP4 – 017. NRW has text to give to Applicant, if Applicant agrees to include in LHMS then NRW would be content with LHMS design principles	D7	NRW's recommendations were considered and incorporated where appropriate. The updated design principles contained in the LHMS address all of the concerns raised.
19	Applicant to commission work for storing, analysing treasurable and non-treasurable materials from the now-ceased WNDAs archaeological work	ASAP	Responded in Horizon's Deadline 7 cover letter.
20	Welsh Government (WG)/Cadw to provide map showing 3 nationally important archaeological sites within WNDAs	Wednesday	N/A – not an action for Horizon



ExA Ref	Action	Deadline	Status
21	WG request inclusion of a requirement in DCO to cover the storage and treatment of already excavated archaeological material	Wednesday	N/A – not an action for Horizon
22	WG aware of significant archaeological findings within WNDA and in the light of this are considering scheduled monument designation. WG urge bringing the results of the recent WNDA archaeological findings into the examination.	D7	N/A – not an action for Horizon
23	Dust – what happens if Orange and Red noise trigger levels are exceeded, in real time, between monthly monitoring?	Thursday	Please refer to Section 7.6.12 onwards in Main Power Station Site Sub CoCP as submitted at Deadline 8.
24	Site Waste Management Plans, IACC and NRW would like sight of or approval of. Applicant will consider		Horizon are happy to provide these plans for consultation but do not believe approval would be appropriate. This has been reflected in the updated Wylfa Newydd CoCP submitted at Deadline 8 and IACC has confirmed that it is happy with this approach.
25	Discussions to continue between the Applicant and NRW regarding Porth Y Pistyll and related matters	Wednesday	Meeting held with NRW on the 18 <sup>th</sup> March 2019 to close out remaining comments on the coastal processes monitoring and mitigation strategy. Updates included, where relevant, in the Marine Works sub-CoCP submitted at Deadline 8.
26	REP5-020 – paragraph 11.1.4 additional text suggested by NT. Suggested additional text for Ecological Clerk of Works duties for Code of Construction Practice (CoCP)	Wednesday	NT text reflected in Marine Works Sub-CoCP update at Deadline 8.

ExA Ref	Action	Deadline	Status
	(or Sub-CoCP) to be provided to the ExA in writing.		
27	<p>All parties to consider the Panels proposals for improving the consideration of design issues within the WNDAs to assist IACC as local planning authority, including:</p> <ol style="list-style-type: none"> <li>1. Appointing a single Design Champion to knit all the design elements together.</li> <li>2. Developing the Design and Access Statement (DAS) principles into a design code as a design brief for individual buildings, especially those that are most prominent and not directly part of the power generation process.</li> <li>3. Procuring Independent design review and advice – commissioned by the developer.</li> <li>4. The importance of the materials and colour of the many large roof a Roofs.</li> <li>5. Sustainability</li> <li>6. Setting and views from AONB</li> </ol> <p>– including green roofs</p> <p>Design Commission for Wales review supported by NT, NRW and IACC</p>	D7	<ol style="list-style-type: none"> <li>1. Not considered necessary by applicant.</li> <li>2. Not considered necessary by applicant.</li> <li>3 Agreed, design principle added to DAS Volume 2 submitted at Deadline 8.</li> <li>4. To be delivered through detailed design that will benefit from independent design review.</li> <li>5. Agreed, design principle added to DAS Volume 2</li> <li>6. See action point 18.</li> </ol>
29	Applicant will check purple area in D & A Statement re Spent Fuel and Intermediate Level Waste Storage buildings. Applicant to demonstrate how these buildings would be serviced in long term	Wednesday	Please refer to Appendix 1-11 of this document.
30	Applicant to provide an illustrative drawing of Spent		Please refer to Appendix 1-11 of this document.

ExA Ref	Action	Deadline	Status
	Fuel Store and Intermediate Level Waste Storage buildings to show how they would sit in the landscape, be accessed and how Public Right of Ways (PRoWs) would relate to the site in the very long-term post decommissioning		
31	The site of the Cestyll Kitchen Garden to be secured in S106, WG is responding to proposed new clauses.		N/A – not an action for Horizon
32	"Include in S106 conservation management plan to enable integrated outcomes around Cestyll Gardens, Mill and site of adjoining laydown area and Welsh Coastal Path to ensure all parties work together to make it happen.		Revisions to the draft DCO Section 106 Agreement provide for a Felin Gafnan Contribution, payable for the benefit of NT, and which NT would use for the purposes set out including preparation of a CMP. This CMP would be separate to the Cestyll Garden CMP, reflecting that these are separate assets.
33	NT seek 140-degree visualisation from Felin Gafnan, towards the main Power Station site. Applicant agreed to consider; but emphasised the lengthy time period for commissioning visualisations.		Please refer to the Felin Gafnan viewpoints submitted at Deadline 8.
34	Update to be provided by Applicant on where negotiations are with acquiring Cestyll Gardens	D7	Given the suspended project status Horizon are not currently progressing the purchase of Cestyll Gardens.
35	NRW seek visualisation of WNDAs from AONB across Port-y-Pistyll, including view of the package waste water treatment plant and the altered shoreline in order to understand the relationship		Due to timescales involved in this work Horizon is not able to provide this visualisation. Horizon has provided a large number of visualisations and plans that we believe to be

ExA Ref	Action	Deadline	Status
	between proposed building materials and their colour within the landscape. Applicant agreed to consider; but pointed out that the image may only be available post-examination.		sufficient [REP6-018 and REP6-019].
36	Visualisation of AONB for NRW, important for colour and landscape		Due to timescales involved in this work Horizon is not able to provide this visualisation. Horizon has provided a large number of visualisations and plans that we believe to be sufficient.
37	IACC to confirm if they have any outstanding concerns about reptiles	Friday	N/A – not an action for Horizon.
38	Applicant to clarify whether it will continue ongoing monitoring during the delay period, to avoid affecting the baseline assessment	Post Hearing	Responded to at Deadline 7 in the Oral Hearing Written Summary and ASI responses [REP7-001].
39	Tre'r Gof SSSI – Air Quality issues can be raised on Friday by North Wales Wildlife Trust (NWWT)	Friday	N/A – not an action for Horizon.
40	NRW want a new requirement about Monitoring – measurable effect may take some time to effect – it requires the underlying processes not just the headline. High level commitment to the monitoring.		Horizon is working with NRW to ensure appropriate monitoring and management schemes are in place in the DCO and also other permissions where NRW are the regulatory authority. In respect to the DCO specifically we have committed to two schemes that fulfil NRW's requirements and which are captured within Requirement WN1 of the draft DCO:

ExA Ref	Action	Deadline	Status
			<p>(e) Tre'r Gof SSSI Hydro-ecological Monitoring and Mitigation Scheme;</p> <p>(f) Cae Gwyn SSSI Hydro-ecological Monitoring Scheme;</p> <p>NRW has reviewed the scope of these schemes and provided comments on their scope and triggers which have been reflected in the updated DCO submitted at Deadline 8 (Revision 5.0).</p>
41	NWWT – request more bespoke wording of WN1 (C ) - guidance to SSSI drainage as a whole and some further info in Sub CoCP		Bespoke wording not received from NWWT. However Horizon have added some info into the schemes for drainage and SSSI in line with NRW requests. This is reflected in the updated DCO submitted at Deadline 8 (Revision 5.0).
42	Applicant to insert hydrogeological scheme into WN1		Please refer to the updated DCO submitted at Deadline 8 (Revision 5.0).
43	NRW to have meeting / telecon with Applicant over mitigation/conceptual model		Discussions have taken place. No further action to record.
44	Post hearing note from RSPB re concern regarding Wylfa Head Site Management Plan and concerns re choughs	Thursday	N/A – not an action for Horizon.
45	Site Campus, Applicant in discussion with IACC on earlier delivery of available bed spaces. Will review Trigger points		Since the production of a revised Phasing Strategy at Deadline 5 and the final set of DCO Hearings that took place on the week commencing the 4th March 2019, Horizon have made a number of changes to the document, including:

ExA Ref	Action	Deadline	Status
			<ul style="list-style-type: none"> <li>• Clarifying that the Phasing Strategy is only for the delivery of mitigation;</li> <li>• Change to Figure 2-1 to illustrate when the key mitigation is expected to be delivered.</li> <li>• Changes to Table 2-1, which include changes to the key triggers, including for the Site Campus to help with early delivery of the Site Campus.</li> </ul> <p>These changes have been reflected in the updated Phasing Strategy submitted at Deadline 8.</p> <p>Please also refer to Appendix 1-12 of this document for further information.</p>
46	IACC request car park phasing plan and to move MUGA away from bat barn		<p>A commitment to provide a Parking Phasing Scheme is captured in the updated DCO submitted at Deadline 8 (Revision 5.0).</p> <p>Please refer to Appendix 1-8 for a response regarding the position of the MUGA.</p>
47	NRW to provide required revised design principles regarding colours of TWA in relation to wider environment, Applicant will look at.		<p>Please refer to the new design principles inserted in the DAS volume 3 (Revision 4.0) submitted at Deadline 8.</p>
48	LHMS - NT/NWWT/RSPB to talk to Applicant re opportunity to create more Chough related habitats		<p>N/A – not an action for Horizon.</p>

## 1.3 Hearing Action responses – ISH 5<sup>th</sup> March 2019

1.3.1 The below table outlines the status of responses to actions recorded by the Examining Authority.

**Table 1-2 Status of actions assigned to ‘Applicant’ on 5<sup>th</sup> March 2019**

ExA Ref	Action	Deadline	Status
1	Applicant indicated that they would like to amend Article 28 to extend it longer than 5 years to reflect suspended status of HNP	To be discussed at ISH on 6 March 2019	Please refer to the updated DCO submitted at Deadline 8 (Revision 5.0).
2	Applicant to provide short note to explain where they have tried to describe provisions	D7	<p>The provisions of the draft DCO that relate to powers of compulsory acquisition and temporary possession are described in section 8 of the Statement of Reasons [REP6-008] and in the Explanatory Memorandum submitted at Deadline 8 (Revision 6.0). This details the scope of powers being sought in the DCO to enable Horizon to permanently acquire land and rights over, in and under the Order Land necessary for the construction, maintenance and operation of the Wylfa Newydd DCO Project, as well as rights to temporarily possess and use specific parts of the Order Land to facilitate the construction, operation and maintenance of the Wylfa Newydd DCO Project. It also explains the further rights and powers being sought under the DCO, the exercise of which may result in an interference with property rights and private interests in land.</p> <p>The Statement of Reasons at paragraph 3.8 recognises that where powers of compulsory acquisition are exercised the</p>

ExA Ref	Action	Deadline	Status
			owner of the affected land or rights in the land may be entitled to compensation under section 5 of the Land Compensation Act 1961 and other provisions (the "Compensation Code"). It recognises that any dispute in respect of the compensation payable would be referred to and determined by the Land Chamber of the Upper Tribunal. The draft DCO makes modifications to certain compulsory purchase and compensation enactments pursuant to section 126(2) of the Planning Act 2008 to allow certain landowners to claim compensation where Horizon has created and acquired new rights over, or imposed restrictions on, land. Without this, the compensation provisions would not apply. These modifications are set out at Schedule 12 of the draft DCO and explained in the Explanatory Memorandum [REP5-017] and as updated for Deadline 8.
3	IACC and Applicant to have a discussion re IACC's concerns over Article 27 and removal of subsection 6 – to either verbally report back or provide a Post Hearing Note (PHN)	D7	Please refer to the updated DCO submitted at Deadline 8 (Revision 5.0).
4	Applicant to confirm whether there are any other documents other than APP-121/240/267/305/037, 4-017/018/019 and APP-436/442 that the ExA need to consider in relation to its CA case	D7	Please refer to Deadline 7 oral summary submission for this ISH.



ExA Ref	Action	Deadline	Status
5	IACC to withdraw objection to plots 524/525 re the sewage treatment works – confirmed that it is a decommissioned tank	D7	N/A – not an action for Horizon.
6	IACC to group plots by type of issues and discuss its outstanding concerns with Applicant during coffee break	Immediate	Horizon and IACC discussed these matters during the course of the Issue Specific Hearing on compulsory acquisition matters held on Tuesday 5 March 2019. Following these discussions, the parties reported back to the Examining Authority that much of IACC's concerns regarding the proposed compulsory acquisition of land had been dealt with between the parties and anything outstanding would be dealt with by agreement on the Protective Provisions in the draft DCO.
7	IACC have a concern with the extent of land that is needed at Dalar Hir	Immediate	Please refer to the above response to action 6.
8	Applicant to review the Statement of Reason in relation to Human Rights to ensure sufficient	D7	Please refer to updated Statement of reasons submitted at Deadline 8.
9	Paragraph 9.5.1 in Statement of Reason to be updated to include obstacles to delivery with particular reference to the steps being taken to secure the relevant licence from the Office for Nuclear Regulation (ONR) and other licences	D7	Please refer to updated Statement of reasons submitted at Deadline 8.
10	Reiteration of request for a photomontage of the view from the front of Felin Gafnan	D7	Viewpoint 38 (during construction) submitted at Deadline 8 covers this.

ExA Ref	Action	Deadline	Status
			Please note this is illustrative only.
11	Applicant to look at representation received at deadline 2 from the ONR regarding the issue of proximity of residential properties to nuclear development and whether it has implications for residents of Felin Gafnan	D7	As requested by the Examining Authority Horizon has considered ONR's Deadline 2 submission [REP 2-355] with regard to the issue of proximity to residential properties to nuclear development and whether this has any implications for the residents of Felin Gafnan. In our review of that submission we do not read that ONR has any concerns with regards to the proximity to residential properties to the proposed nuclear development, including whether this has any implications for the residents of Felin Gafnan.
12	Applicant to have discussion with the Nuclear Development Agency over lunch to see if outstanding matters between them can be resolved	Immediate	Discussions taken place and latest position within the Deadline 8 SoCG. The current points of contention in respect of the DCO with NDA are set out in the Outstanding Issues Paper submitted at Deadline 8 (and relate to articles 9 and 29 of the draft DCO).
13	Applicant to submit at Deadline 8 an updated dDCO to include the Protective Provisions that have been agreed with SP Energy Manweb and SP Energy Network	D8	There protective provisions were already included in the Deadline 5 version of the draft DCO and are therefore already reflected in the updated DCO submitted at Deadline 8 (Revision 5.0).
14	Applicant at D8 to provide a position update with regards to objector no. 37	D8	Please refer to the Deadline 8 CA Objections Schedule (Revision 3.0).

ExA Ref	Action	Deadline	Status
15	Applicant to provide an explanation in Post Hearing Note regarding Schedule 14 which have been consolidated and which are new	D7	Responded at Deadline 7 in Horizon's Responses to Actions set in Issue Specific Hearings on 4- 8 March 2019 Appendix 1-6 [REP7-001].
16	Applicant confirmed that they now no longer wish to acquire Plot 61 (owned by NT) and will be amending the dDCO by schedule	D7	Please refer to the updated DCO submitted at Deadline 8 (Revision 5.0).
17	WG and Applicant to provide a statement on progress with Crown Land	To be discussed at ISH on 6 March 2019	Horizon understands from Welsh Government's submission at Deadline 7 that it is continuing to consider Horizon's request for Crown Land consent. Welsh Government has advised that it is hoping to be in a position to respond to this request by Deadline 9.
18	Applicant advised that there was an error on a plan contained within 5-043 and they will be resubmitting a corrected plan	D7	Please refer to updated Crown Land Plans submitted at Deadline 8 (Revision 5.0).
19	Applicant/WG and IACC to discuss drafting of Article 84; Applicant to circulate a copy of the drafting to PINS so that it can be published overnight and ahead of DCO hearing on 6th March	Immediate	Please refer to Horizon's response in Appendix 1-7 of Horizon's Deadline 7 Responses to Actions set in Issue Specific Hearings on 4 – 8 March 2019 submitted at Deadline 7 [REP7-001].
20	Applicant to discuss Article 9(4) with IACC and WG and WG to provide a note regarding concerns with the gaps in the funding and how these could be resolved	D7	Please refer to Horizon's response in Appendix 1-7 of Horizon's Deadline 7 Responses to Actions set in Issue Specific Hearings on 4 – 8 March 2019 submitted at Deadline 7 [REP7-001].
21	Applicant to review and respond to representation received from J Chaney (REP6-053)	D7	Horizon responded in detail to J Chanay at Deadline 3 [REP3-024] and J Chanay's points highlighted by the Examining Authority in our

ExA Ref	Action	Deadline	Status
			response to Further Written Question 2.17.2 [REP5-002]. Horizon also provided response to J Chanay recorded in the Post Oral Hearing Summary for Thursday 7 <sup>th</sup> March ISH submitted at Deadline 7. Horizon believe that it has made its position clear and why it is not in agreement with points being raised by J Chanay.
22	Applicant to amend application documents including ES addendum to incorporate consequential changes resulting from change requests	D8	This has been done and is reflected in the Deadline 8 documents.

## 1.4 Hearing Action responses – ISH 6<sup>th</sup> March 2019

1.4.1 The below table outlines the status of responses to actions recorded by the Examining Authority.

**Table 1-3 Status of actions assigned to ‘Applicant’ on 6<sup>th</sup> March 2019**

ExA Ref	Action	Deadline	Status
1	Definition of commence in relation to j) temporary buildings – Applicant to discuss whether possible to define a maximum height/length/width for temporary buildings	D8	Please refer to the the updated DCO (Revision 5.0) and Summary Table of Amendments submitted at Deadline 8.
2	Clarification of whether using first nuclear construction or first nuclear concrete as a trigger; once clarified provision of clear definition and a review of documents to ensure the correct phrase used throughout	D7/8	See response to Item 1.
3	Amend the definition of Environmental Statement	D7	See response to Item 1.

ExA Ref	Action	Deadline	Status
	(ES) to include the ES Addendum to address concerns regarding definition of maintenance and throughout DCO		
4	Issues with Article 19 to be dealt with by Protective Provisions	D7	See response to Item 1.
5	Article 78 to be amended in light of Trinity House D6 submission (6-054)	D8	See response to Item 1.
6	Article 79, Schedule 19, Paragraph 4, Subparagraph 2(d) should be in 1 not in 2 as currently is – to be amended	D8	See response to Item 1.
7	Amend Explanatory Memorandum to identify Welsh Government's responsibility with regards to Crown Land with a cross reference to the relevant plots in the Book of Reference	D8	Please refer to the updated Explanatory Memorandum (Revision 6.0) submitted at Deadline 8.
8	Sewage Treatment Plant adjacent to Cestyll Garden to be either controlled through a requirement or a scheme listed in S21(4) to enable consultation with the Welsh Government and submission/approval by IACC to reflect its location adjacent to a designated heritage asset	D8	See response to Item 1, in particular the scope of the WNDA Overarching Construction Drainage scheme in Schedule 21.
9	Applicant to consider whether work No 16 should be included in the list of works listed under 'other associated development' in Schedule 1	D7	See response to Item 1.
10	IACC to provide details of an alternative fee structure or cost recovery scheme that they would wish to use for the discharging of requirements	D7	N/A – action not for Horizon. Horizon received the alternative fee schedules on 21 March; however, due to timing it has not been able to reflect any agreement in the

ExA Ref	Action	Deadline	Status
			draft DCO submitted at Deadline 8 (Revision 5.0). Horizon is considering IACC's proposed fee structure and will revert shortly.
11	Post Hearing Note (PHN) from NRW to confirm the proposed wording regarding fees that has largely been agreed. Amended wording to be inserted into dDCO.	D7 for NRW D8	See response to Item 1.
12	Applicant to check whether reference to figure D9-9 in Schedule 3(1) referred to in the 'Great Crested Newts Receptor Site' interpretation is correct. If incorrect, correct figure to be inserted.	for Applicant"	See response to Item 1.
13	Applicant to consider recasting the Phasing Strategy (PW2) based on time periods and if not why not and also to consider whether correctly titled	D7	Please refer to the updated Phasing Strategy submitted at Deadline 8.
14	WG to provide a PHN as to why they consider that the issue of potential noise and disturbance from blasting/tunnelling/earthworks would not prevent the Temporary Workers Accommodation coming forward earlier in the process.	D7	N/A – action not for Horizon.
15	WG to provide a PHN to provide an update on the results of their discussions on transport matters with Applicant and the two points that remain outstanding.	D7	N/A – action not for Horizon.
16	IACC to provide detail as to whether a transport incident plan or other similar plan was recommended as a condition for the planning application for	D7	N/A – action not for Horizon.

ExA Ref	Action	Deadline	Status
	Site Preparation and Clearance (SPC) works		
17	Applicant to provide written response to North Wales Police letter received on 1 March 2019	D7	Horizon have responded directly to North Wales Police's letter. Discussions are ongoing.
18	Applicant to amend WN1(4) to delete reference to paragraph 2 and replace with reference to paragraph 3	D7	See response to Item 1.
19	WN1 to be amended to include a reference to a requirement for the submission and approval of a Hydrogeological Monitoring/Mitigation Scheme for Tre'r Gof and Cae Gwyn	D7	See response to Item 1.
20	NWWT to issue a PHN regarding the concerns that they have with regards to drainage	D7	N/A – action not for Horizon. Horizon would like to draw the Examining Authority's attention to the scope of the Overarching Construction Drainage Scheme and the SSSI Schemes in Schedule 21 of the draft DCO submitted at Deadline 8 (Revision 5.0).
21	WG to provide a PHN regarding archaeological works	D7	N/A – action not for Horizon
22	WG to submit a report detailing the findings of the preliminary archaeological works that have been carried out at the site and the implication that this may have for the proposal	D7	N/A – action not for Horizon
23	WG to submit a proposal re archiving of archaeological materials (particularly those that are degradable) that have already been excavated as a result of the preliminary	D7	N/A – action not for Horizon



ExA Ref	Action	Deadline	Status
	archaeological works could be financed		
24	In regard to requirements from WN11- WN14, the Applicant to provide a definition of long-term management	D7	See response to Item 1.
25	Clarification of site campus restoration objectives with particular reference to habitat creation derived through potential agricultural methods	D7	See response to Item 1.
26	"LC1 – a landscaping and screening scheme in regard to standing stone and burial chamber	D7	See response to Item 1. Horizon has provided a new requirement LC [4] which requires the submission of a landscape design for approval in accordance with design principles in the DAS (which refer to the protection of these heritage assets).
27	'Discharging authority' to be clarified with regard to Schedule 21	D7	See response to Item 1.
28	Biodiversity matters in relation to Schedule 21 to be clarified ISH 8 March 2019	D7	Please refer to Oral Summary of the ISH on 8 <sup>th</sup> March 2019 submitted at Deadline 7.
29	To provide comments on funding matters in relation to new draft Articles 83 and 84	Friday	N/A – action not for Horizon.
30	Put comments on blight in relation to Article 83 in writing	D7	Refer to Horizon's Response on The Proposed Security Articles 83 and 84 [REP7-001].
31	In relation to Articles 83, 84 and 9: 1. Review whether there are any further rights to compensation that need to be included within draft Article 83. 2. Should there be any independent third party assessment of the level of	D7	Refer to Horizon's Response on The Proposed Security Articles 83 and 84 [REP7-001].



ExA Ref	Action	Deadline	Status
	<p>compensation and if so should this be in the drafting?</p> <p>3. Can Applicant confirm that there are no other powers giving rise to the right to compensation for which adequate funding must be in place?</p> <p>4. Clarify how the guarantee would be secured in the event of transfer of the benefit of the order and whether it would need to be secured against land</p> <p>5. Explain the proposed new timeframes in relation to Compulsory Acquisition</p> <p>6. Consider an alternative mechanism under 84(1)(b) and 2(b) in terms: "the Secretary of State has approved a (funding statement?) that confirms that the authorised development is likely to be undertaken (x) years and will not be prevented due to difficulties in sourcing and securing the necessary funding"</p> <p>7. Article 9 para 3 explain how any transferee would be bound by any guarantees in respect of funding?</p>		
32	PHN from IACC to provide an update on S106 with particular reference to any substantive matters that remain outstanding; a timeline for when these may be resolved and alternative solutions/suggestions for how any outstanding substantive matters could be dealt with if they were not included in the completed S106.	D7	N/A – action not for Horizon.

ExA Ref	Action	Deadline	Status
33	PHN from GCC to provide an update on S106 with particular reference to any substantive matters that remain outstanding; a timeline for when these may be resolved and alternative solutions/suggestions for how any outstanding substantive matters could be dealt with if they were not included in the completed S106.	D7	N/A – action not for Horizon.
34	PHN from WG to provide an update on S106 with particular reference to any substantive matters that remain outstanding; a timeline for when these may be resolved and alternative solutions/suggestions for how any outstanding substantive matters could be dealt with if they were not included in the completed S106.	D7	N/A – action not for Horizon.
35	PHN from NRW to provide an update on S106 with particular reference to any substantive matters that remain outstanding; a timeline for when these may be resolved and alternative solutions/suggestions for how any outstanding substantive matters could be dealt with if they were not included in the completed S106.	D7	N/A – action not for Horizon.
36	PHN from eNGOs to provide an update on S106 with particular reference to any substantive matters that remain outstanding; a timeline for when these may be resolved and alternative solutions/suggestions for how any outstanding substantive	D7	N/A – action not for Horizon.

ExA Ref	Action	Deadline	Status
	matters could be dealt with if they were not included in the completed S106.		
37	PHN from North Wales Fire and Rescue Service to provide an update on S106 with particular reference to any substantive matters that remain outstanding; a timeline for when these may be resolved and alternative solutions/suggestions for how any outstanding substantive matters could be dealt with if they were not included in the completed S106.	D7	N/A – action not for Horizon.
38	PHN from North Wales Police to provide an update on S106 with particular reference to any substantive matters that remain outstanding; a timeline for when these may be resolved and alternative solutions/suggestions for how any outstanding substantive matters could be dealt with if they were not included in the completed S106.	D7	N/A – action not for Horizon.
39	Resolve outstanding matters and complete S106 according to dates in timescale	D7	Please refer to text in Horizon's Deadline 8 covering letter regarding the status of the s.106.

## 1.5 Hearing Action responses – ISH 7<sup>th</sup> March 2019

1.5.1 The below table outlines the status of responses to actions recorded by the Examining Authority.

**Table 1-4 Status of actions assigned to 'Applicant' on 7<sup>th</sup> March 2019**

ExA Ref	Action	Deadline	Status
1	Consider whether and how surveys require updating prior to construction in the context of the delayed project.	D7	Refer to Appendix 1-4 of this document.

ExA Ref	Action	Deadline	Status
2	"IACC and Applicant to meet on 8 March 2019 with view to agreeing amendments to requirements in DCO setting out clearly any areas of disagreement and the reasonings why they disagree.	D7	The DCO reflects the agreement between IACC from the meeting on 8 March 2019 and the only outstanding points are set out in the Outstanding Issues Paper submitted alongside the updated DCO at Deadline 8 (Revision 5.0)
3	Clarification that description of construction lighting scheme refers to the operation of lighting at Park and Ride, the logistics centre, A5025 off-line highway works and the offsite power station facilities	D7	<p>Horizon can confirm:</p> <ul style="list-style-type: none"> <li>- Park and Ride - yes, operation as well</li> <li>- Logistics Centre, yes, operation as well</li> <li>- A5025 off-line highway work, no, only construction</li> <li>- Offsite power station facilities no, it has its own operational scheme that is separate.</li> </ul> <p>Please refer to the updated draft DCO submitted at Deadline 8 (Revision 5.0), in particular the scope of these schemes in Schedule 21.</p>
4	NRW to provide comments on the FCA and compliance with the relevant TAN	D7	N/A – action not for Horizon.
5	NRW to provide text for the Sub CoCP regarding Great Crested Newt (GCN) grids at Dalar Hir	D7	Please refer to Appendix 1-6 of this document.
6	IACC and Applicant to discuss rewording PR6 to include requirement for early submission of in-principle decommissioning strategy for Dalar Hir	D7	See response to Item 2 above.
7	Applicant to submit a change request with regards to the revised layout of the access to	As soon as possible	Please refer to the RfNMC submitted at Deadline 7 titled Request for Non-Material

ExA Ref	Action	Deadline	Status
	Dalar Hir and to identify consequential changes to associated documents		Change (RfNMC) no.6 Dalar Hir Park and Ride Junction Improvement [REP7-001]. In the event that the Examining Authority decides to accept this change, Horizon has also submitted updated plans for the Park and Ride at Deadline 8.
8	Amend wording for the Logistics Centre to ensure that the operational area would not be compromised but that a new landscaping plan could be submitted for the areas shown to be soft landscaped, to include the additional landscaping requested by IACC and NRW, subject to it not compromising the safety of cyclists using the adjacent cycle path	D7	See response to Item 2 above.
9	NRW request Ecological Compliance Audit including how would this be secured	D7	<p>Horizon does not plan to offer compliance audits, if Horizon did they would be nothing greater than defence to the layers of environmental teams associated with the scheme:</p> <ul style="list-style-type: none"> <li>- contractor's env team policing their work</li> <li>- horizon team policing the principal contractor</li> <li>- env officer (Horizon-funded IACC role) policing Horizon</li> </ul> <p>All would report on their work so could prove compliance.</p>
10	Applicant to consider revised wording in respect of Logistics Centre design principles to achieve "good aesthetics as far as possible" in the context of the AONB	D7	This is already implied in the current DAS Volume 3 Appendix 1.4 Logistics Centre Design Principles - no further amendment to has been made for Deadline 8, nor are

ExA Ref	Action	Deadline	Status
			any proposed for future deadlines.
11	Applicant to continue urgent discussions with Welsh Water in respect of the drainage of Dalar Hir	On-going	ES has assessed the worst-case arising from the proposed development at Dalar Hir and all appropriate mitigation measures have been secured in the DCO.
12	Applicant to insert Cadw as a consultee in the Logistics Centre construction lighting scheme referenced in Schedule 21	D7	This has been completed. Please refer to updated schedule 21 in the draft DCO submitted at Deadline 8 (Revision 5.0).
13	ExA request a drawing to bring together concerns with planting, fencing, inter-visibility of mound and standing stones at the logistics centre	D7	This has been discussed further with Interested Parties and the agreed position is within the NRW SoCG submitted at Deadline 8.
15	If content of APP-334 on mitigation of protected and Section 7 species brought into CoCP IACC content. Applicant removed reference to the REP5-032 as they had extracted the data. Should be a standalone document	Next break	The reference to APP-334 was removed from the sub-CoCP. Subsequent amendments and provisions are secured within the sub-CoCP submitted at Deadline 8.
16	"Bullet points to be included in sub CoCP – REP2-082 1.2.12-13. Confirm that IACC is content that these points have been covered.	Will discuss tomorrow with IACC	Please refer to Appendix 1-6 of this document.
17	GCN – could or could not be in the DCO		N/A – action not for Horizon.
19	A5025 – Updated topographical surveys on field boundaries are required Applicant will look at date of survey and will advise when it was done as the length of time is relevant. Would re-check the survey at the point before construction would start		Horizon has inserted in to the Main Power Station Site sub-CoCP (WNDA) (Revision 4.0) and A5025 Off-line Highway Improvements sub-CoCP (Revision 4.0) the following measures (see Deadline 8 documents for full detail):

ExA Ref	Action	Deadline	Status
			<p>MPSSSCoCP:</p> <p>11.9 Trees</p> <p>11.9.1 Prior to the commencement of the authorised development, existing tree surveys, within appendix C of the Landscape and Habitat Management Strategy will be reviewed and if necessary updated, in accordance with BS 5837:2012 [RD13].</p> <p>A5025 sub-CoCP:</p> <p>11.10 Trees</p> <p>11.10.1 Prior to commencement of the authorised development, existing tree surveys, within appendix G10-7 of the Environmental Statement [APP-342] will be reviewed and if necessary updated in accordance with BS 5837:2012 [RD5].</p>
20	Confirm processes for informing residents about opportunity to benefit from noise insulation mitigation		Responded at Deadline 7 in Horizon's Deadline 7 Responses to Actions set in Issue Specific Hearings 4-8 March 2019 [REP7-001].
21	IACC Highways to follow up on issue of narrow footpaths in Llanfrachraeth raised at OFH on 5/3/19		N/A – action not for Horizon.
22	Applicant to consider implications of issues raised at OFH 5/3/19 and report	D7	Horizon have produced a response to key issues provided in the written summaries of OFH statements received at Deadline 7 as part of its Deadline 8 package.
23	Flood risk at Aflon Alaw viaduct discussions still ongoing and report	D7	Captured in 7 March ISH written summary provided at Deadline 7.

ExA Ref	Action	Deadline	Status
			Horizon has no further update to that provided at the Issue Specific Hearings.
24	Copper Trail discuss further with Mr Griffiths as may be misunderstanding of mitigation and what is in the s106		Please refer to Horizon's Response to the comments raised by Dafydd Griffiths and NACP submitted at Deadline 8.
25	Applicant to respond to ExA on provision of own buses as exemplars in terms of emissions.	D7	Appropriate air emissions standards of buses have been secured across the relevant control documents following consultation with our stakeholders. These standards will be enforced by Horizon through commercial agreements with our suppliers. At the time of writing Horizon is not considering running its own buses as exemplars in terms of emissions.
26	Ecological Compensation Sites Provision can be made for adaptive management by amending REP5-036 Chapter 4 to ensure any adaptive management approach is robust. PHN	D7	N/A – action not for Horizon.
27	ECS4 minor amend to drafting	D7	Please refer to the updated draft DCO submitted at Deadline 8 (Revision 5.0).
28	LHMS needs additional text to secure Backwater Analysis Secured by ECS2	D7	Additional text has been agreed. Please refer to the updated LHMS submitted at Deadline 8.
29	Mitigation Route Map submission at D9	D9	Horizon is planning to submit an updated Mitigation Route Map at Deadline 9.
30	Consequential amendments to Change Requests following ExA Procedural Decision of	D8	This exercise has been completed and is part of Horizon's Deadline 8



ExA Ref	Action	Deadline	Status
	25 February 2019 to be submitted at D8		submission; summarised in the cover letter.

## 1.6 Hearing Action responses – ISH 8<sup>th</sup> March 2019

1.6.1 The below table outlines the status of responses to actions recorded by the Examining Authority.

**Table 1-5 Status of actions assigned to ‘Applicant’ on 8<sup>th</sup> March 2019**

ExA Ref	Action	Deadline	Status
1	AP-033 funding statement to be updated to reflect changes to funding that have occurred since the application was submitted	D8	Please refer to updated Funding Statement (Revision 2.0) submitted at Deadline 8.
2	A requirement to check/monitor for barn owls before demolition to be included in the Code of Construction Practice (CoCP)	D8	This has been actioned. Please refer to updated Main Power Station Site sub-CoCP (Revision 4.0) submitted at Deadline 8. Please also refer to Appendix 1-7 of this document.
3	NRW to provide an update to their Statement of Common Ground (SoCG) regarding the situation with invasive species with particular reference to terrestrial species	D7	This issue has now been agreed and is reflected in the updated SoCG with NRW submitted at Deadline 8.
4	CoCP to be updated to include inductive fencing around Dame Sylvia Crowes Mounds	D8	This has been agreed and is reflected in the updated Main Power Station Site sub-CoCP (Revision 4.0) at Deadline 8.  Please also refer to Appendix 1-9 of this document.
5	Confirm whether the Cae Gwynn SSSI should be included in the list of habitats to be contained within the Landscape and Habitat Management Strategy as detailed at paragraph 11.1.3 of the relevant CoCP and if it	D8	Car Gwyn does not need to be added to the list because the list is non-exhaustive and only part of Cae Gwyn falls within the WNDA.

ExA Ref	Action	Deadline	Status
	should be included, update the document		
6	WN23(b) to be updated regarding the proposed topsoil management options scheme/restoration scheme	D7	Horizon has considered the requests and revised the wording as far as it deems appropriate. Please refer to the updated Deadline 8 Main Power Station Site sub-CoCP (Revision 4.0) submission for the text.
7	NRW and Applicant to get together to agree wording for a potential requirement that could be either inserted in the WN section or by the Secretary of State regarding Tern Compensation sites	D8	Horizon has had productive discussions with NRW on a draft DCO Requirement to secure tern compensation sites for insertion by the SoS into the DCO should compensation need to be secured. A note summarising the proposals has been shared with NRW who have provided comments in response. By Deadline 9 (10th April), Horizon expects to be able to submit proposed additional DCO Requirement text and an associated Tern Compensation Scheme that is broadly accepted by NRW. Horizon intends that the compensation strategy text would be inserted as a new section of the Main Power Station Site sub-CoCP and the Marine sub-CoCP, to be re-submitted at Deadline 9 for this purpose.
8	eNGO's to provide a PHN regarding Tern Contingency Position	D7	Please refer to Horizon's responses to the eNGO's Deadline 7 submissions provided as part of Horizon's Deadline 8 submission pack.
9	NRW to provide comments on the Coastal Process and Mitigation Strategy regarding post storm capability and	D7	Meeting held with NRW on the 18 <sup>th</sup> of March to close out remaining comments on the coastal processes monitoring

ExA Ref	Action	Deadline	Status
	trigger levels for adaptive management		and mitigation strategy. Updates included, where relevant, in the Marine Works sub-CoCP provided at Deadline 8 while post storm walkover surveys now approved by Horizon.
10	NT to write to the Applicant regarding their outstanding concerns in relation to the Cemlyn Bay SAC.	Immediate	Meeting held with NT on the 11th and 15th March to discuss remaining concerns on Cemlyn Bay SAC. A number of amendments have been made to the coastal processes monitoring and mitigation strategy which are secured in the Deadline 8 version of the Marine Works sub CoCP - section 11.
11	Applicant to have a meeting with the eNGOs about future involvement in the management of the Cemlyn Bay SAC and the management of the Nature Reserve	15 March 2019	Completed. Please see responses to actions 9 and 10 above.
12	Applicant to confirm how the early stabilisation of Mounds E and B would be secured	D8	Please refer to appendices 1-1 and 1-2 of this document.
13	NWWT to provide a PHN with regards to its position regarding IROPI	D7	Please refer to Horizon's responses to stakeholders Deadline 7 submissions provided as part of Horizon's Deadline 8 submission pack.
14	NRW/Applicant to submit advice/further materials with regards to the outstanding concerns regarding the Skerries Costal Water body	D7/D8	WFD CA and A4(7) reports updated and resubmitted at Deadline 8.
15	NT to discuss with Applicant how the NT shoreline would be protected as a result of the proposed marine works	15 March 2019	This discussion took place and commitment updated in Marine Works sub-CoCP submitted at Deadline 8 (Revision 4.0).

ExA Ref	Action	Deadline	Status
16	MMM Plan to be amended to widen the zone from 500m to 1Km for Minke Whales, draft to be provided to NRW for comment	Immediate	This will be addressed in the Marine Licence. 800m is proposed.
17	Marine Works Sub CoCP to be amended to reflect the mitigation covered in the HRA and the MMM Plan	D8	500 and 800m MMM mitigation zones are in the Marine Works sub-CoCP (Revision 4.0) with confirmation it will be secured in the Marine Licence. Submitted at Deadline 8.
18	Applicant to have meeting with NRW to discuss adaptive management measures and how they could be secured as part of the DCO process as the level of detail is currently insufficient and would be probably need to be secured post consent under the Marine Licence with particular reference to benthic habitat	D8	Meeting held on Monday 18 <sup>th</sup> March. Horizon determine no further actions are necessary and sufficient mitigation has been secured within the DCO.
19	NRW to submit suggested wording for a requirement to secure the additional mitigation necessary to deal with the potential impact to the Ynys Mon Secondary Groundwater body as detail would not be available by the end of the examination for the CoCP to be amended	D7	The updated WFD and A4(7) submitted at Deadline 8 reflects this.
20	NRW to submit current advice regarding benthic invertebrates and a timeline for resolution on this issue	D7	The updated WFD and A4(7) submitted at Deadline 8 reflects this.
21	NWWT to provide a PHN for alternative mechanisms for securing the long term management (post operation) of the compensation sites	D7	As per our response to action 22 directly below.
22	Applicant to advise where the commitment for the long term	D7	Commitment for long term management of the

ExA Ref	Action	Deadline	Status
	management (for the duration of operation) of the compensation sites would be secured – dDCO or S106?		<p>compensation sites is secured via the DCO as follows:</p> <ul style="list-style-type: none"> <li>Requirement ECS3(1) of the draft DCO requires Horizon to prepare a Landscape and Habitat Management Scheme relating to management and maintenance of each compensation site prior to their completion. These are to be agreed by IACC in consultation with NRW.</li> <li>ECS3(2) requires the Schemes to be prepared in accordance with the principles in Chapter 7 of the LHMS, which include: <ul style="list-style-type: none"> <li>Schemes ensuring “the design principles set out in Chapter 4 of this document [which include delivering the three compensation sites] are delivered for the lifetime of the Power Station.” (pg 128)</li> <li>“Horizon would be responsible for the long-term management of all three sites and would assign a project officer, to be employed directly by Horizon or through a third party, to co-ordinate and oversee the management works.” (pg 129)</li> </ul> </li> <li>ECS3(3) requires Horizon to carry out the management in accordance with the agreed Schemes.</li> </ul>
23	PAWB to provide PHN regarding issues raised in the WNDA ISH with particular reference to decommissioning, landscaping and views from the AONB	D7	N/A – action not for Horizon.

ExA Ref	Action	Deadline	Status
24	IACC and NRW to provide a position statement detailing who would operate as the discharging authority above and below Mean High Water Springs including how to manage areas of overlap, i.e. MOLF	D7	N/A – action not for Horizon.

## 1.7 Summary of Deadline 8 responses to actions recorded by Horizon

***Recorded at 4<sup>th</sup> March ISH: Clarification of distances of bunds/mounds/construction from WCP, communities and roads.***

1.7.2 Please refer to Appendix 1-2 of this document.

***Recorded at 6<sup>th</sup> March ISH: Consider whether it's appropriate to have a specific traffic incident management scheme for Work No. 12***

1.7.3 Please refer to Appendix 1-3 of this document.

***Recorded at 6<sup>th</sup> March ISH: Consider Welsh Government's concerns about engagement groups re the Community Safety Management Scheme. Consider Emergency Services sub-group should be consulted. (Point was made in response that consultant groups are largely statutory bodies).***

1.7.4 The revised s.106 agreement intends that it will be a role of the Emergency Services Engagement Group (ESEG) to, in accordance with the DCO Requirements to input into the development of (and/or any relevant updates to) the Community Safety Management Scheme. It is not anticipated that these commitments would be materially altered. Horizon also notes that Schedule 21 of the draft DCO already identifies the members of this group as consultees for the CSMS; this is preferred over reference to the ESEG.

***Recorded at 7<sup>th</sup> March ISH: Confirm how A5025 sub-CoCP can be amended to provide that prior to commencement existing tree surveys will be reviewed and updated accordingly. Purpose is to account for potential delays which may result in a change to the baseline assessment.***

1.7.5 Please refer to Appendix 1-5 of this document.

***Recorded at 7<sup>th</sup> March ISH: Consider if hourly HGV caps can be revised/lowered now that the HGV delivery window RfNMC has been accepted into examination. Update CoCP and Phasing Strategy if required.***

1.7.6 Horizon have lowered to 113 / 226 per day in the Wylfa Newydd CoCP. Please refer to the Deadline 8 update of the Wylfa Newydd CoCP (Revision 4.0) and Appendix 1-12 of this document.

***Recorded at 8<sup>th</sup> March ISH: Post hearing note on REP5-022  
oxide monitoring regarding Cae Gwyn SSSI; NRW REP4-039  
bog habitat response needs to be reviewed and resubmitted  
at DL8***

1.7.7 Please refer to Appendix 1-10 of this document.

## **1.8 Action responses planned for subsequent Examination Deadlines**

1.8.1 No further responses are planned by Horizon to March ISH actions.



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WN0902-HZDCO-PAC-REP-00348	Appendix 1-3 Post Hearing Note on Traffic Incident Management Scheme and Work No.12
WN0902-HZDCO-PAC-REP-00349	Appendix 1-4 Post Hearing Note on Pre-Comm Surveys
WN0902-HZDCO-PAC-REP-00350	Appendix 1-5 Post Hearing Note on A5025 Tree Surveys
WN0902-HZDCO-PAC-REP-00351	Appendix 1-6 Post Hearing Note on CoCP Updates for Protected Species
WN0902-HZDCO-PAC-REP-00352	Appendix 1-7 Post Hearing Note on Barn Owl Monitoring Commitments
WN0902-HZDCO-PAC-REP-00353	Appendix 1-8 Post Hearing Note on confirming that MUGA and Lighting are placed correctly
WN0902-HZDCO-PAC-REP-00354	Appendix 1-9 Post Hearing Note on Secure Fencing relating to the Dame Sylvia Crowe Mound
WN0902-HZDCO-PAC-REP-00355	Appendix 1-10 Post Hearing Note on Air Quality Effects at Cae Gwyn SSSI
WN0902-HZDCO-PAC-REP-00361	Appendix 1-11 Post Hearing Note on 140-year Site Decommissioning Appearance
WN0902-HZDCO-PAC-REP-00373	Appendix 1-12 Post Hearing Note on Phasing Strategy

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## Wylfa Newydd Project

### Appendix 1-1 Post Hearing Note on Mound D and E Clarification

PINS Reference Number: EN010007

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25 March 2019

Revision 1.0

Examination Deadline 8

Planning Act 2008

Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009

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## **1 Mound D**

### **1.1 How does Mound D relate to final level of Power Station Site (AOD)?**

- 1.1.1 Mound D area during construction will be profiled to form a Laydown area for the construction of the Power Station as shown in the reference point drawing WN0902-HZDCO-LFM-DRG-00003, contained within the updated Wylfa Newydd Development Area and Power Station Site Plans submitted at Deadline 8. This area will be formed using a cut and fill construction methodology as outlined in the Construction Method Statement [REP5-018] recognising any specific environmental constraint associated with the adjacent Afon Cafnan water course.
- 1.1.2 Mound D laydown area, located within Zone C5, will be utilised until the end of the Unit 2 construction period after which it will be reworked, recovering materials temporary stored on Mound E to form the final landscape identified as Mound D.
- 1.1.3 The laydown area and power station levels during construction are defined by parameters in WN2 of Schedule 2 in the draft Order. The relevant parameter zones shown on the Power Station Site Construction Parameter Plan WN0902-HZDCO-MSP-DRG-00008, contained within the updated Wylfa Newydd Development Area and Power Station Site Plans submitted at Deadline 8. Zone C5 covers the laydown area with a maximum parameter of 35m AOD but is illustrated as 24.5m AoD.
- 1.1.4 The operational landform developed in accordance with the principles of the updated Landscape and Habitat Management Strategy (LHMS), submitted at Deadline 8, will be subject to further agreement under WN9 as part of the final detailed design; however, the illustrative proposal is shown in the reference point drawing WN0902-HZDCO-LFM-DRG-00005, contained within the updated Wylfa Newydd Development Area and Power Station Site Plans submitted at Deadline 8. This shows the power station platform at both 18m and 21m AOD with a peak to the final landform of circa 30m AoD for Mound D.

### **1.2 How does it interface with the reform natural landscape and hard landscaping of the Power Island?**

- 1.2.1 Mound D is a grassland mound in keeping with the surroundings, with areas of trees and fields divided by hedgerows. This is to create the landscape setting in keeping with the surroundings using the characteristic field patterns and boundaries of the area, as set out in the design principles of the LHMS
- 1.2.2 From the nearest buildings to mound D, the spent fuel store, the power station platform will be relatively flat to the outside of the 10m sterile zone surrounding

the outer security fence. The mound will slope gently in a continuous slope to the peak height of the mound.

- 1.2.3 An area to the south of the spent fuel store outside the fence will remain at the power station platform level, for future power station needs, after completion of construction. This area will also be grassed as part of the final landscape proposals. Mound D will not be publicly accessible due to operational and security requirements.



## **2 Mound E indicative construction sequencing**

### **2.1 Outline**

- 2.1.1 The following outlines the plans for the mound E construction in accordance with the Construction Method Statement [REP5-018] (CMS), this is an indicative sequence and detail, as the contractor may wish to adjust the means and methods to suit site constraints and sequencing of the works. Our assumption for Mound E is that work can continue within the Tern season based on the below methodology and working within the noise limits. Mound E materials will be place in advance of the FNC for Unit 1 as per the Phasing Strategy [REF]. The final landform and landscaping will be subject to final approval within the DCO WN9.

### **2.2 Pre-commencement works**

- 2.2.1 The pre-commencement works may cover elements of mobilisation and security to allow the main earthworks construction to commence, as such these works may also include those defined within SPC Works.
- Install perimeter security fence (construction site security fence)
  - Install Wales Coastal Path diversion route, including signage and the bridge over the Afon Cafnan.
  - Set up noise and discharge monitoring points. (note seasonality of Tern Breeding area and implement agreed controls/constraint as required)
  - Install haul roads & bridge between western laydown area and Mound E, including initial drainage protection.

### **2.3 Drainage Works**

- 2.3.1 Drainage works will be undertaken in accordance with the Overarching Construction Drainage Scheme and phased drainage plans to meet the requirements of the Environmental Permit:
- Construct Settlement Lagoons and outfalls as per approved drawings.
  - Install silt treatment system, cross pumping facility and power supplies as required for the works in mound E.
  - Install pumping mains & dosing system as required.
  - Install network of catchment area drains and connect to settlement lagoons to suit the works.
- 2.3.2 Permanent drainage will be installed as necessary to capture rainwater runoff which may be discharged via settlement lagoons outfalls to the Afon Cafnan.

### **2.4 Prepare area for Mounding operations**

- 2.4.1 Mound E is assigned for soils (topsoil, sub soil and Glacial Till), and not general rock placement. Materials identified as contaminated but suitable for reuse, and materials remediated for reuse, will be allocated into permanent locations within the mound construction.

- 2.4.2 Strip Topsoil (proposed methodology working west to east). remove the topsoil at the Mound E footprint in preparation for soil placement from the main site.
- 2.4.3 All placement activity is planned to take place in the visual shadow of existing mound contours were practicable until elevations of construction exceed the top of the current landform. We will commence delivering soils to mound E, backfilling from east to west. The soil will be placed in layers based on the earthworks specifications.

## **2.5 Mound E Formation**

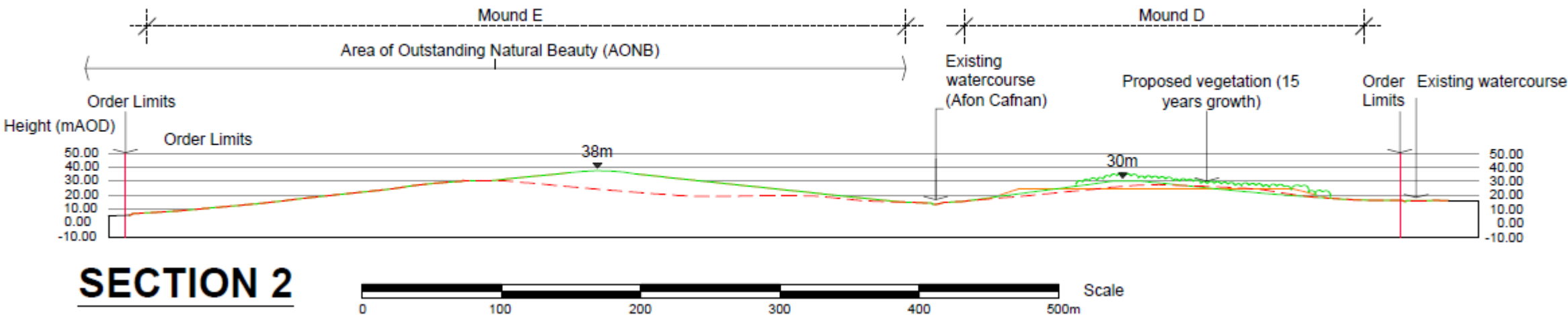
- 2.5.1 The formation of Mound E will be in two distinct periods, prior to FNC unit 1 where the construction mound will be formed which may remain until completion of Unit 2.
- 2.5.2 After completion of Unit 1 the final reinstatement works may commence. This may include the reworking of Mound E to move materials for the final landform. The works to the western side of mound E will be minimised were possible to achieve the final approved landform in accordance with the design principles of the updated Landscape and Habitat Management Strategy (LHMS), submitted at Deadline 8.
- Mound E is assigned for those materials that will be excavated using soft dig methodologies only (topsoil, sub soil and Glacial Till), and not rock placement.
  - As areas of Mound E are completed, they will be seeded with a reclamation seed mix to stabilise the surface material. This will form a sacrificial grass coverage of the mound, during construction.
  - The western side of Mound E will be covered with topsoil and reseeded in the first summer/muck shifting season of the programme, in accordance with the LHMS design principles to provide mitigation at the earliest practical opportunity. Horizon will avoid, where practicable' the need to rework the western site of the mound thus minimising impact to the adjacent Cemyln Bay area.
  - Mound E works may continue for 2 years up to FNC of Unit 1. The peak of the construction phase mound will have a maximum height of 40m AOD and max gradient of 1:3 as defined in the parameters for zone C6 .
  - After the initial soil placement program, the bridge may remain in place to support maintenance and subsequent backfilling operations for the final reinstatement, landscaping works, in circa years [8/9] as identified in the updated Phasing Strategy submitted at Deadline 8.
  - On completion of power station construction remove Mound D laydown area and reprofile with material recovered from Mound E
  - Some of the quantity of soils stored at Mound E will be required for backfilling of Mound D on the WNDA to raise the power station construction platform to finished levels of circa 30m AOD. As shown on

drawing WN0902-HZDCO-LFM-DRG-00005, contained within the updated Wylfa Newydd Development Area and Power Station Site Plans submitted at Deadline 8.

- Reinststate drainage flows to west side of Mound E by removal of any cut off drainage. The timing will be based on the surface coverage of the mound during construction. Reinstatement of flows to Afon Cemlyn will be agreed with NRW prior to the reinstatement of flows.
- Remove Bridge and approaches from either side of the Afon Cafnan to final landform profiles, topsoil and seed.
- Topsoil and reseed Mound D with material recovered and temporary stored in location.
- Final seeding of mounds to suit the agreed seed mix and landscape approval. Planting of trees, and field boundaries to suit appropriate planting seasons. Temporary protection of planting areas may be required.
- Installation of any public access features, such as gates, styles, signage on permanent Public Right of Way network
- Removal of construction security fence and return of landscape to suitable agriculture and management schemes.

Figure 2-1 Section through mound D & E

Section from drawing WN0902-HZDCO-LFM-DRG-00007





## Wylfa Newydd Project

### Appendix 1-2 Post Hearing Note on Mound B Levels

PINS Reference Number: EN010007

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25 March 2019

Revision 1.0

Examination Deadline 8

Planning Act 2008

Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009

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# 1 Mound B levels

## 1.1 Introduction

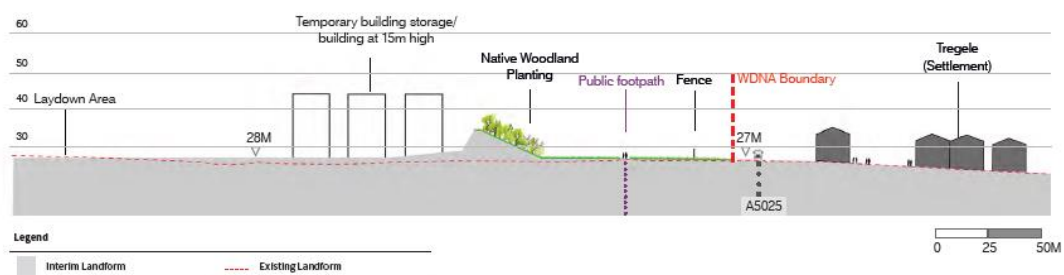
- 1.1.1 Early creation of the outer eastern face of Mound B during construction is proposed to provide noise, visual and lighting mitigation for residents of Tregele during Main Construction.
- 1.1.2 This document provides a response to a question raised by the Examining Authority during the Development Consent Order (DCO) Issue Specific Hearing 4th March 2019, regarding the level of Mound B west of Tregele, relative to the laydown area level and A5025 level during construction. For completeness, this document also clarifies the final form of Mound B.
- 1.1.3 Revision 4 of the Phasing Strategy, as submitted at Deadline 8, states that this construction landform will *“be delivered on or before 10 months of construction”*, while the operational Mound B will *“be delivered at the end of final reinstatement”*. The securing mechanisms for the construction landform and final landscaping of Mound B is set out in section 1.4 below.

## 1.2 Proposed Mound B levels during construction

### ***Description of the construction landform level in the DCO application***

- 1.2.2 Paragraph 6.3.14 in chapter 6 of the Landscape and Habitat Management Strategy, revision 4, as submitted at Deadline 8 (25 March 2019), confirms that the early construction landform will be *“formed and planted at the beginning of the construction period to the immediate west of Tregele, running along the A5025 and rising to circa 7m above the existing local level to provide instant screening to the construction laydown areas...”*.
- 1.2.3 A cross-section for the construction landform at the south-western edge of Tregele is shown indicatively in figure 5-12a of the Landscape and Habitat Management Strategy (replicated in figure 1-1 below). Figure 1-1 provides an indication of the approximate height of the construction landform adjacent to Tregele but does not indicate a specific level.

**Figure 1-1 Illustrative section of the construction landform opposite Tregele**



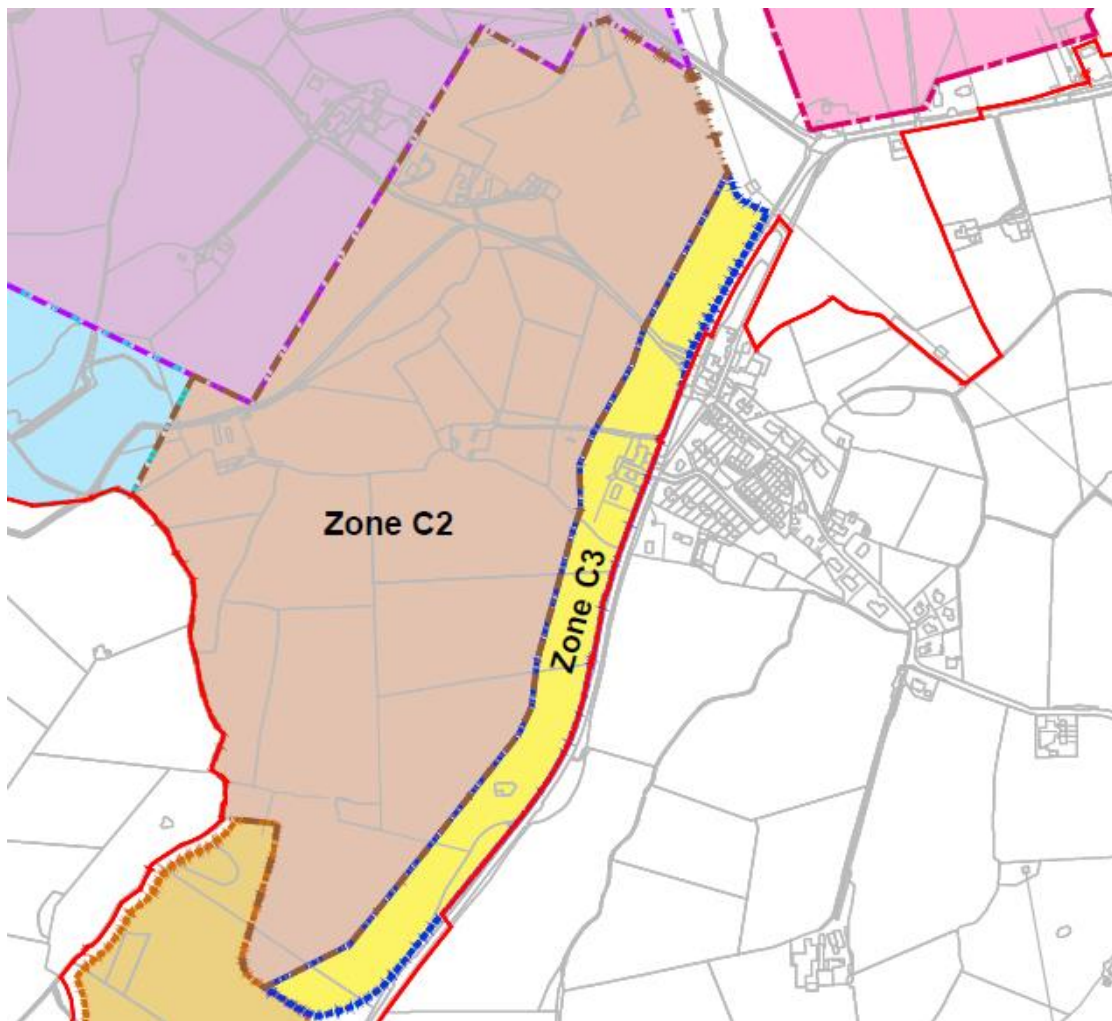


- 1.2.4 During the Issue Specific Hearing on 4th March 2019, clarification was requested as to whether the 7m height related to the existing road level of the A5025 adjacent to the mound or the proposed level of the adjacent laydown area to the west. Clarification was also requested on the maximum parameter height for construction of this landform. A response to both these matters is set out below.

***Construction landform parameter for Mound B in the DCO application***

- 1.2.5 Table WN2A of Schedule 3 of the DCO, as submitted at Deadline 8, sets out the construction landform parameters. The part of Mound B to be constructed early during construction, opposite Tregale, will be located within the northern part of construction zone C3. The maximum parameter height for the construction landform within construction zone C3 is 50mAOD and therefore approximately 23m to 27m above the A5025 road level opposite Tregale, which ranges from 23mAOD to 27mAOD (derived from *Topographical Survey (WN0902-JAC-OS-DRG-00045) [RD1]]*). However, construction zone C3 extends a considerable distance to the south as shown in figure D1-1 [APP-237] an extract of which is reproduced below in figure 1-2 for ease of reference.

**Figure 1-2 Extract of Power Station Site construction parameter plan**

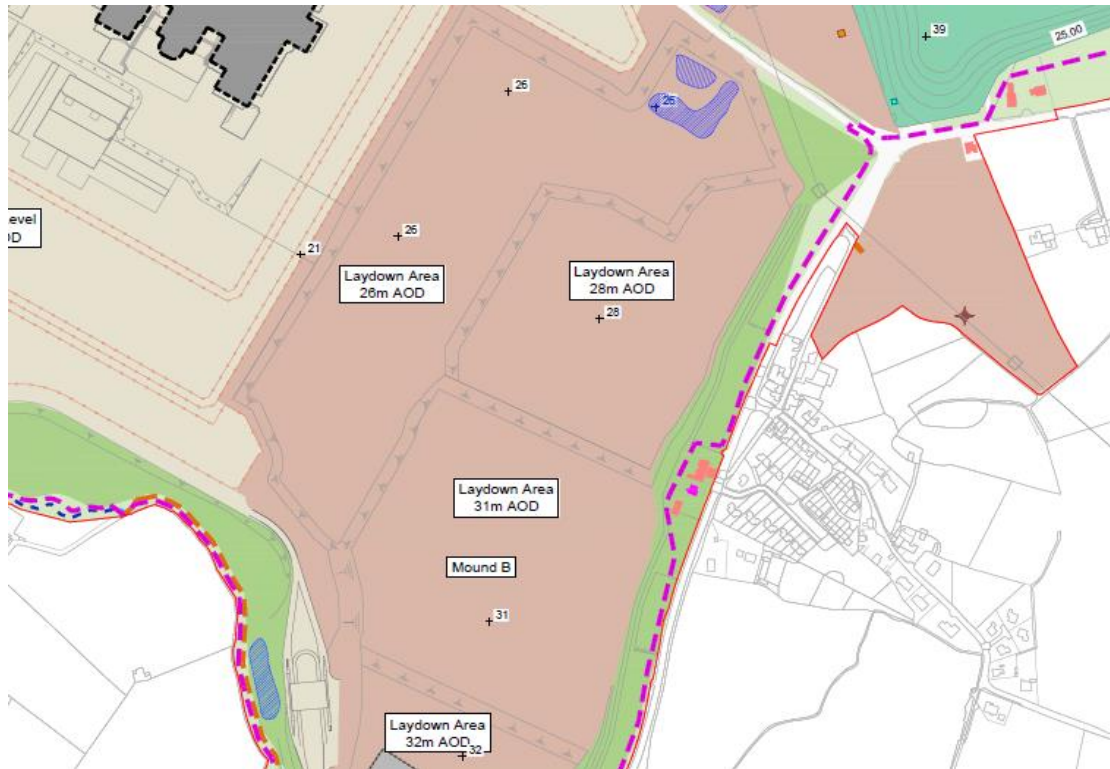


- 1.2.6 The maximum parameter height of construction zone C3 of 50mAOD therefore allows for the rising road level to the south.

***Clarification regarding construction landform level for Mound B (construction zone C3)***

- 1.2.7 Whilst the maximum construction landform parameter height adjacent to Tregele is 50mAOD, it is intended that the actual height of the construction landform to mitigate noise, visual and lighting effects on Tregele will be 7m above the adjacent laydown areas of approximately 28mAOD and 31mAOD. The level of the adjacent laydown areas opposite Tregele is shown indicatively on the Wylfa Newydd Development Area reference point drawings 3 and 4 Rev 3.0, within the Wylfa Newydd Development Area and Power Station Site Plans (Part 1 of 2) submitted at Deadline 8, an extract of which is reproduced below in figure 1-3 for ease of reference.

**Figure 1-3 Extract of reference point 3 drawing (WN0902-HZDCO-LFM-DRG-00003)**



- 1.2.8 The level of Mound B construction landform will therefore range from approximately 35mAOD adjacent to the north-western extent of Treglele to approximately 38mAOD adjacent to the south-western extent of Treglele. This is the maximum height that it is envisaged that the construction landform for Mound B will be constructed to within parameter zone C3 adjacent to Treglele.
- 1.2.9 In relation to the road level of the adjacent A5025, the top of the construction landform adjacent to the north-western edge of Treglele will be approximately 8m to 12m higher, based on an existing road level ranging from between approximately 23mAOD to 27mAOD adjacent to the 28mAOD platform.
- 1.2.10 In relation to the road level of the adjacent A5025, the top of the construction landform adjacent to the south-western edge of Treglele will be approximately 11m to 14.5m higher, based on an existing road level ranging from between approximately 23.5mAOD to 27mAOD adjacent to the 31mAOD platform.
- 1.2.11 As explained in further detail in section 1.4, the construction landform will be no steeper than 1:2, except for a short section near Treglele Services, in accordance with the fourth earthworks principle on page 62 of the Landscape and Habitat Management Strategy, revision 4, as submitted at Deadline 8. The base of the construction landform will be no closer than 25m from the edge of the A5025 carriageway and set back behind the security fence within the construction parameter zone C3. The Wales Coast Path will be located to the east of the construction landform, approximately 12m from the edge of the carriageway, with the detailed alignment subject to further design development.

- 1.2.12 It is intended that the lower portion of this screening landform will form part of the permanent Mound B and be constructed up to 7m above A5025 road level and planted early during construction, whilst the upper part of the construction landform above the 7m height will be a temporary landform, seeded with grass and set back beyond an intermediate crest in order to reduce its visual prominence. In order to achieve a height 7m above laydown level, where this would equate to over 10m above A5025 road level in some locations, the localised use of environmental barriers up to 2m height could be considered to limit the height of the construction landform.

### ***Assessment conclusions***

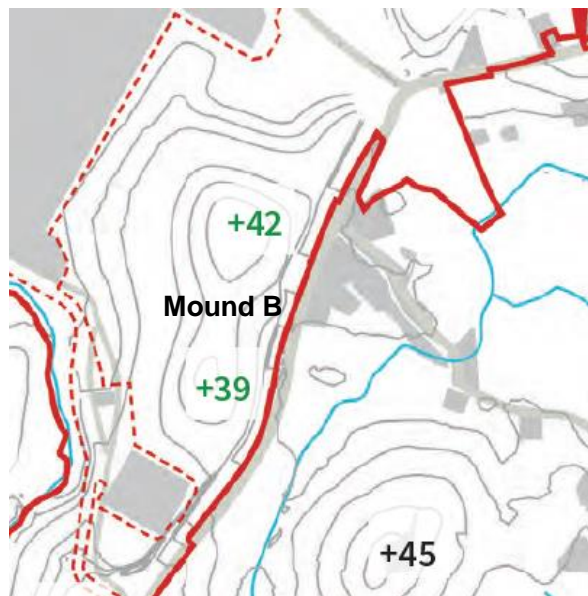
- 1.2.13 A total height of construction landform mitigation of 7m above laydown area level is consistent with the assumptions made for the assessment conclusions set out in appendix D10-10 of the Environmental Statement (ES) (Environmental Lighting Impact Assessment) [APP-201]. This assessment concludes that the construction landform would substantially lower the levels of lighting reaching Tregle from the Wylfa Newydd Development Area.
- 1.2.14 A construction landform 7m above laydown level is also consistent with the requirement for additional mitigation identified within the noise assessment in chapter D6 of the ES [APP-125].
- 1.2.15 The wireline construction visualisation for Viewpoint 18 [REP6-018] issued at Deadline 6 shows the worst-case assumptions made for the visual impact assessment in chapter D10 of the ES [APP-129]. The extent of screening that the early construction landform adjacent to Tregle would provide, is shown as a dark beige fill 7m high above A5025 road level. This wireline construction visualisation has been updated for Deadline 8, to accompany this response and is included in annex 1-1 of this document, to illustrate the mounding at 7m above laydown area levels. This indicates up to 5m additional screening to the north-west and up to 7.5m screening to the south-west adjacent to some parts of Tregle as a 'mid-beige' fill. It is considered that this increased height above the A5025 road level would not change the conclusions of the visual impact assessment, as the total height of the construction landform would not appear noticeably different in the view and would provide an additional level of visual screening of construction activities taking place on the laydown area behind the mound.
- 1.2.16 The light beige transparent fill on the wireline construction visualisation shows the height of the maximum construction landform parameter of 50mAOD in construction zone C3 **for information only**, as this is the maximum parameter height for this zone, even though this is not the intended height for the Mound B construction landform adjacent to Tregle, as explained above.



## 1.3 Mound B levels for operation

- 1.3.1 As explained in paragraph 6.3.14 of the Landscape and Habitat Management Strategy, submitted at Deadline 8 (25 March 2019), Mound B shall be reworked following completion of construction activities, to form the final contours of the landscape mounding on the former laydown area adjacent to the A5025. This is shown indicatively on figure 6-6 of the Landscape and Habitat Management Strategy and the corrected Wylfa Newydd Development Area reference point drawing 5, Rev 4.0 within Wylfa Newydd Development Area and Power Station Site Plans (Part 1 of 2), both as submitted at Deadline 8, which indicates that Mound B will gradually rise to approximately 42m AOD opposite Tregele, as illustrated in the extract on figure 1-4 below. This reworked landscape mounding will incorporate the lower 7m height of the landform implemented and landscaped early during construction without the need to remove any part of the early planting. The upper part of the construction landform above this level (7m above A5025 road level) will be re-profiled to achieve a more gentle natural profile in keeping with the surrounding drumlin landforms. As such, the final landscape mounding for Mound B would be as indicated on the supplementary operational photomontage from Viewpoint 18 (appendix D10-A of the ES Addendum, Supplementary community views assessment, Addendum to appendix D10-8 – Photomontage views [REP6-016]), as reproduced in annex 1-2 of this document.

**Figure 1-4 Extract of illustrative plan of final contours**



## 1.4 Securing mechanisms for the early construction landform and final landscaping of Mound B for operation

- 1.4.1 As set out below, the construction of this landform is secured by the DCO, chapter 4 of revision 4 of the Landscape and Habitat Management Strategy, revision 4 of the Main Power Station Site sub-CoCP and revision 3 of the Construction Method Statement, all as submitted at Deadline 8.

- 1.4.2 The DCO, as submitted at Deadline 8, states that *“Except for Work No.12, any landscaping and habitat retained, created or enhanced during construction of the authorised development must be undertaken in accordance with Requirements PW3 [Construction Method Statement] and WN2 [Power Station Site Construction Parameter Plans], the Wylfa Newydd CoCP and Main Power Station Site sub-CoCP and the principles in Chapter 4 of the LHMS, unless otherwise approved by IACC.”*
- 1.4.3 *“Early screening landform”* to mitigate construction impacts for the community in Tregele is secured in chapter 4 of the Landscape and Habitat Management Strategy, revision 4, as submitted at Deadline 8, including the fifth and sixth overarching earthworks principles on page 61, the latter of which states that *“The design of Mound B will have regard to the visual amenity of the adjacent community at Tregele through a combination of slope profiling, and planting, which may incorporate temporary fencing during construction to help mitigate noise and soften visual impact.”*
- 1.4.4 The construction phase principles on page 62, provide further detail, as follows:
- Third earthworks principle: *“Phased implementation of landscape mounding, seeding of pasture and woodland planting must include early creation of the outer slopes of the linear landscaped mound adjacent to Tregele...”*
  - Fourth earthworks principle: *“During construction the outer face of the landscape mound opposite Tregele shall be no steeper than 1:2, except for a short section (approximately 100 metres in length) to the west and south of Tregele Services where the slope will need to be steeper to facilitate utility routing. The steeper mound slope will also be designed to facilitate native planting, including shrubs and small trees.”*
  - Fourth planting principle: *Mounds, or parts thereof, should be planted in the next available planting season following permanent completion of the relevant area of mounding.*
  - Fifth planting principle: *“Permanent screen planting adjacent to the A5025 incorporating a bank and new linear woodland belt should generally be implemented early in the construction period.”*
- 1.4.5 Furthermore, revision 4 of the Main Power Station Site sub-CoCP, as submitted at Deadline 8, states that *“A screening bund ... (Mound B, adjacent to the A5025) will be delivered in accordance with the Phasing Strategy in such a way that none of the dwellings in Tregele are regularly subject to noise levels ... over 62dB LAeq, 1-hour for more than eight weeks.”*
- 1.4.6 Paragraph 3.2.14 of revision 3 of the Construction Method Statement, as submitted at Deadline 8, also confirms that *“the screen mounding ... east of mound B ... would be constructed in the early phase of each mounding construction”*. Paragraph 6.1.43 goes on to clarify that some of the mounds, including Mound B, would *“provide the laydown area flat platforms during construction hosting site platforms and storage areas during the main construction works. These platform areas would be returned to drumlin*

*landforms to help screen the new development at the end of the construction period. The final landscaping ... would make use of the stockpiled material in the western part of mound A. Final landscaping and planting of ... [mound B] would occur at the end of the construction period after the Power Station becomes operational."*

- 1.4.7 The third overarching earthworks principle on page 61 of the Landscape and Habitat Management Strategy, revision 4, as submitted at Deadline 8, explains that "*Earth mounds should generally reflect the local drumlin landscape heights shapes and slope profiles*", which is of relevance to the final landscaping of Mound B.

## 1.5 References

Table 1-1 Schedule of references

ID	Reference
RD1	Horizon. 2017. <i>Planning Application Drawings submitted for Wylfa Newydd Site Preparation and Clearance. Topographical Survey, drawing no. WN0902-JAC-OS-DRG-00045.</i> [Access: 11 March 2019] Available from: <a href="https://www.horizonnuclearpower.com/files/downloads/Public%20Documents/Site%20Prep%20and%20Clearance/Planning%20Documents/SPC%20TCPA%20Planning%20Application%20Drawings%20(6).pdf">https://www.horizonnuclearpower.com/files/downloads/Public%20Documents/Site%20Prep%20and%20Clearance/Planning%20Documents/SPC%20TCPA%20Planning%20Application%20Drawings%20(6).pdf</a>



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## **Annex 1-1 Wireline construction visualisation for Viewpoint 18 (Revision 2)**



EXISTING VIEW

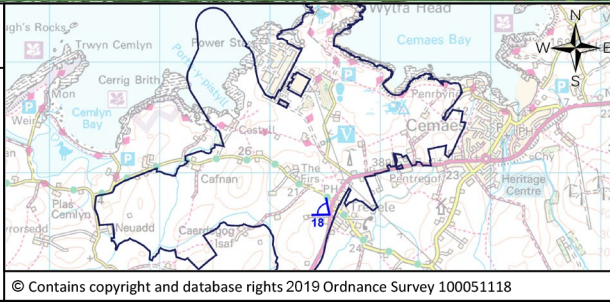
WIRELINE CONSTRUCTION VISUALISATION

Light beige;  
maximum construction landform parameter  
for information only

Mid beige;  
7m above laydown area  
(temporary landform)

Beige;  
7m above A5025 level  
(permanent landform)

<p><b>VIEWPOINT 18</b></p> <p>View from A5025 on western edge of Tregale</p>
<p>Date of photograph: 20/11/2018</p> <p>Time of photograph: 13:55</p> <p>Lighting conditions: Cloudy, Overcast</p> <p>OS grid reference: 235605, 392623</p> <p>Viewpoint ground elevation: 26.847m</p> <p>Camera height above ground level: 1.5m</p> <p>Camera type: Canon EOS 5D</p> <p>Camera lens size: 50mm</p> <p>Aperture: f.5.6</p> <p>ISO: 250</p> <p>Shutter speed: 1/500</p> <p>Horizontal angle of view: 80°</p>



Wireline construction visualisation is for illustrative purposes only and has been agreed in accordance with the Methodology for wireline construction visualisations (6-018).

Crane type and positions of wireline cranes illustrated are indicative only and will change as construction progresses.

At least one of each crane type is illustrated to its maximum parameter height. In construction zones with several tower cranes, some are illustrated at lower heights.


Dashed lines/ transparent fill indicate the maximum parameter envelopes for; cranes (red), Site Campus accommodation blocks (cyan) minimum construction form parameter (brown) and maximum construction landform parameter in landscape mound locations (light beige).

Dark green dashed line shows the indicative operational landscape mounding.

Construction beige and mid beige fill shows the indicative height of landform that is to be implemented early during construction opposite Tregale.

Point surveyed using GPS unit.

Printed drawings (as printed on A3 sheet) are to be viewed at approx. 30cm from the eye.

2	MAR 2019	DCO Submission	HNPWL	HNPWL	HNPWL	HNPWL	Drawing title WIRELINE CONSTRUCTION VISUALISATIONS VIEWPOINT 18-1		
1	FEB 2019	DCO Submission	HNPWL	HNPWL	HNPWL	HNPWL			
Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd	Scale @ A3	NOT TO SCALE	DO NOT SCALE
<div>Client</div> <div></div>							Jacobs No.	60PO80AG	
							Client No.	-	
<div>Project</div> <div>WYLFA NEWYDD PROJECT</div>							Drawing No.	60PO80AG_DCO_VOL_D_WCV_V18-1	
							This drawing is not to be used in whole or in part other than for the intended purpose and project as defined on this drawing. Refer to the contract for full terms and conditions.		



EXISTING VIEW



WIRELINE CONSTRUCTION VISUALISATION



Light beige;  
maximum construction landform parameter  
for information only

Beige;  
7m above A5025 level  
(permanent landform)

Mid beige;  
7m above laydown area  
(temporary landform)

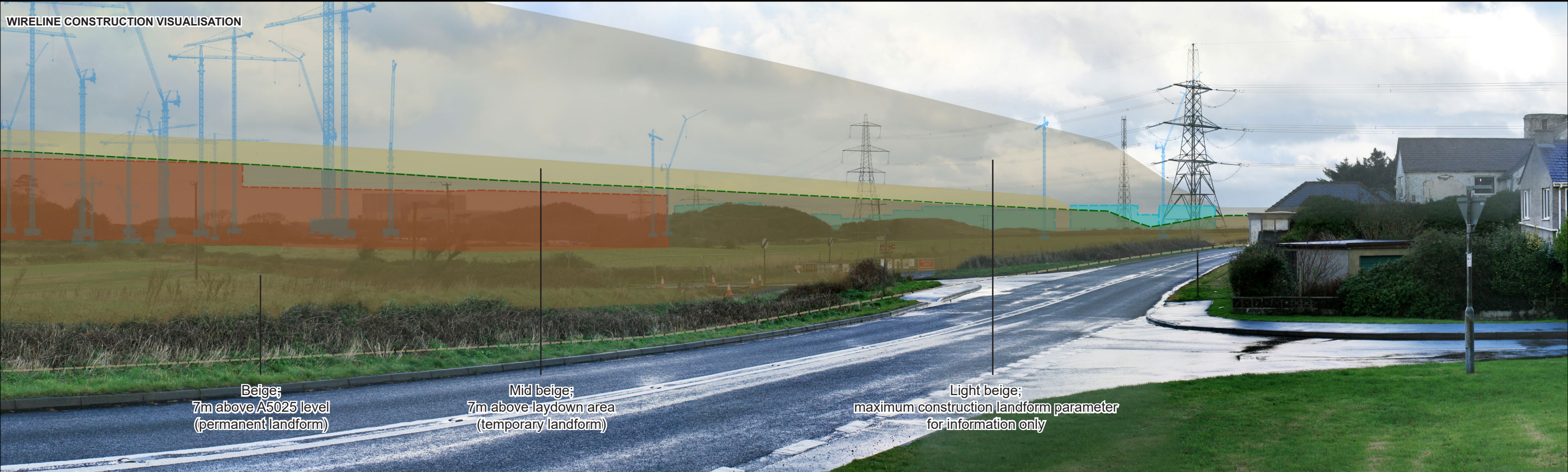
<div>VIEWPOINT 18</div> <div>View from A5025 on western edge of Treglele</div>		<div>Notes</div> <div>1. This wireline construction visualisation is for illustrative purposes only and has been prepared in accordance with the Methodology for wireline construction visualisations [REP6-018].</div> <div>2. The type and positions of wireline cranes illustrated are indicative only and will change as construction progresses.</div> <div>3. At least one of each crane type is illustrated to its maximum parameter height. In construction zones with several tower cranes, some are illustrated at lower heights.</div> <div>4. The dashed lines/ transparent fill indicate the maximum parameter envelopes for; buildings (red), Site Campus accommodation blocks (cyan) minimum construction landform parameter (brown) and maximum construction landform parameter in landscape mound locations (light beige).</div> <div>5. The dark green dashed line shows the indicative operational landscape mounding height.</div> <div>6. The transparent beige and mid beige fill shows the indicative height of landform that would be implemented early during construction opposite Treglele.</div> <div>7. Viewpoint surveyed using GPS unit.</div> <div>8. Images (as printed on A3 sheet) are to be viewed at approx. 30cm from the eye.</div>	<table><tr><td>2</td><td>MAR 2019</td><td>DCO Submission</td><td>HNPWL</td><td>HNPWL</td><td>HNPWL</td><td>HNPWL</td></tr><tr><td>1</td><td>FEB 2019</td><td>DCO Submission</td><td>HNPWL</td><td>HNPWL</td><td>HNPWL</td><td>HNPWL</td></tr><tr><td>Rev.</td><td>Date</td><td>Purpose of revision</td><td>Drawn</td><td>Check'd</td><td>Rev'd</td><td>Appr'd</td></tr><tr><td colspan="3">Client</td><td colspan="4"><div>HORIZON</div><div>NUCLEAR POWER</div></td></tr><tr><td colspan="3">Project</td><td colspan="4">WYLFA NEWYDD PROJECT</td></tr></table>	2	MAR 2019	DCO Submission	HNPWL	HNPWL	HNPWL	HNPWL	1	FEB 2019	DCO Submission	HNPWL	HNPWL	HNPWL	HNPWL	Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd	Client			<div>HORIZON</div> <div>NUCLEAR POWER</div>				Project			WYLFA NEWYDD PROJECT				<div>Drawing title</div> <div>WIRELINE CONSTRUCTION VISUALISATIONS</div> <div>VIEWPOINT 18-2</div> <table><tr><td>Scale @ A3</td><td>NOT TO SCALE</td><td>DO NOT SCALE</td></tr><tr><td>Jacobs No.</td><td colspan="2">60PO80AG</td></tr><tr><td>Client No.</td><td colspan="2">-</td></tr><tr><td>Drawing No.</td><td colspan="2">60PO80AG_DCO_VOL_D_WCV_V18-2</td></tr><tr><td colspan="3">This drawing is not to be used in whole or in part other than for the intended purpose and project as defined on this drawing. Refer to the contract for full terms and conditions.</td></tr></table>	Scale @ A3	NOT TO SCALE	DO NOT SCALE	Jacobs No.	60PO80AG		Client No.	-		Drawing No.	60PO80AG_DCO_VOL_D_WCV_V18-2		This drawing is not to be used in whole or in part other than for the intended purpose and project as defined on this drawing. Refer to the contract for full terms and conditions.		
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EXISTING VIEW



WIRELINE CONSTRUCTION VISUALISATION



Beige;  
7m above A5025 level  
(permanent landform)

Mid beige;  
7m above laydown area  
(temporary landform)

Light beige;  
maximum construction landform parameter  
for information only

<div>VIEWPOINT 18</div> <div>View from A5025 on western edge of Treglele</div>		<div>Notes</div> <div>1. This wireline construction visualisation is for illustrative purposes only and has been prepared in accordance with the Methodology for wireline construction visualisations [REP6-018].</div> <div>2. The type and positions of wireline cranes illustrated are indicative only and will change as construction progresses.</div> <div>3. At least one of each crane type is illustrated to its maximum parameter height. In construction zones with several tower cranes, some are illustrated at lower heights.</div> <div>4. The dashed lines/ transparent fill indicate the maximum parameter envelopes for; buildings (red), Site Campus accommodation blocks (cyan) minimum construction landform parameter (brown) and maximum construction landform parameter in landscape mound locations (light beige).</div> <div>5. The dark green dashed line shows the indicative operational landscape mounding height.</div> <div>6. The transparent beige and mid beige fill shows the indicative height of landform that would be implemented early during construction opposite Treglele.</div> <div>7. Viewpoint surveyed using GPS unit.</div> <div>8. Images (as printed on A3 sheet) are to be viewed at approx. 30cm from the eye.</div>	<table><tr><td>2</td><td>MAR 2019</td><td>DCO Submission</td><td>HNPWL</td><td>HNPWL</td><td>HNPWL</td><td>HNPWL</td></tr><tr><td>1</td><td>FEB 2019</td><td>DCO Submission</td><td>HNPWL</td><td>HNPWL</td><td>HNPWL</td><td>HNPWL</td></tr><tr><td>Rev.</td><td>Date</td><td>Purpose of revision</td><td>Drawn</td><td>Check'd</td><td>Rev'd</td><td>Appr'd</td></tr><tr><td colspan="3">Client</td><td colspan="4"><div>HORIZON</div><div>NUCLEAR POWER</div></td></tr><tr><td colspan="3">Project</td><td colspan="4">WYLFA NEWYDD PROJECT</td></tr></table>	2	MAR 2019	DCO Submission	HNPWL	HNPWL	HNPWL	HNPWL	1	FEB 2019	DCO Submission	HNPWL	HNPWL	HNPWL	HNPWL	Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd	Client			<div>HORIZON</div> <div>NUCLEAR POWER</div>				Project			WYLFA NEWYDD PROJECT				<table><tr><td colspan="3">Drawing title</td></tr><tr><td colspan="3">WIRELINE CONSTRUCTION VISUALISATIONS</td></tr><tr><td colspan="3">VIEWPOINT 18-3</td></tr><tr><td>Scale @ A3</td><td>NOT TO SCALE</td><td>DO NOT SCALE</td></tr><tr><td>Jacobs No.</td><td colspan="2">60PO80AG</td></tr><tr><td>Client No.</td><td colspan="2">-</td></tr><tr><td>Drawing No.</td><td colspan="2">60PO80AG_DCO_VOL_D_WCV_V18-3</td></tr><tr><td colspan="3">This drawing is not to be used in whole or in part other than for the intended purpose and project as defined on this drawing. Refer to the contract for full terms and conditions.</td></tr></table>	Drawing title			WIRELINE CONSTRUCTION VISUALISATIONS			VIEWPOINT 18-3			Scale @ A3	NOT TO SCALE	DO NOT SCALE	Jacobs No.	60PO80AG		Client No.	-		Drawing No.	60PO80AG_DCO_VOL_D_WCV_V18-3		This drawing is not to be used in whole or in part other than for the intended purpose and project as defined on this drawing. Refer to the contract for full terms and conditions.		
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<div>Date of photograph: 20/11/2018</div> <div>Time of photograph: 13:55</div> <div>Lighting conditions: Cloudy, Overcast</div> <div>OS grid reference: 235605, 392623</div> <div>Viewpoint ground elevation: 26.847m</div> <div>Camera height above ground level: 1.5m</div> <div>Camera type: Canon EOS 5D</div> <div>Camera lens size: 50mm</div> <div>Aperture: f.5.6</div> <div>ISO: 250</div> <div>Shutter speed: 1/ 500</div> <div>Horizontal angle of view: 80°</div>	<div>© Contains copyright and database rights 2019 Ordnance Survey 100051118</div>																																																														



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## **Annex 1-2 Photomontage for Viewpoint 18 (operation) (Revision 1)**

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<b>VIEWPOINT 18</b> View from A5025 on western edge of Treglele			<b>Notes</b> 1. This photomontage is for illustrative purposes only and has been prepared in accordance with the methodology set out in appendix D10-8 [APP-199]. 2. Landscape mounding and planting is based upon the indicative design set out in the appendix D10-8. 3. Buildings and structures are based upon the maximum parameter dimensions in order to illustrate the worst case scale of buildings to inform the visual impact assessment. The proposals would not necessarily be built out to the maximum dimensions shown. 4. Further design development would be undertaken post grant of Development Consent Order, including the architectural treatment and colour scheme for the Power Station buildings and the selection of material finishes for the Marine Off-loading Facility and breakwaters. 5. Viewpoint surveyed using handheld GPS unit. 6. Images (as printed on A3 sheet) are to be viewed at approx. 30cm from the eye. 7. Proposed enhancement of retained boundary features are not shown on these photomontages.													Drawing title ADDENDUM TO APPENDIX D10 - 8 WNDA DEVELOPMENT PHOTOMONTAGE VIEWPOINT 18-1
Date of photograph: 20/11/2018 Time of photograph: 13:55 Lighting conditions: Cloudy, Overcast OS grid reference: 235605, 392623 Viewpoint ground elevation: 26.847m Camera height above ground level: 1.5m Camera type: Canon EOS 5D Camera lens size: 50mm Aperture: f.5.6 ISO: 250 Shutter speed: 1/ 500 Horizontal angle of view: 80°			1	FEB 2019	DCO Submission	HNPWL	HNPWL	HNPWL	HNPWL	Scale @ A3 NOT TO SCALE	DO NOT SCALE					
			Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	App'r'd	Jacobs No. 60PO80AG						
			Client <div>HORIZON NUCLEAR POWER</div>							Client No. -						
			Project WYLFA NEWYDD PROJECT ENVIRONMENTAL STATEMENT							Drawing No. 60PO80AG_DCO_VOL_D_APP_10_08_V18-1A						
© Contains copyright and database rights 2019 Ordnance Survey 100051118									This drawing is not to be used in whole or in part other than for the intended purpose and project as defined on this drawing. Refer to the contract for full terms and conditions.							



PHOTOMONTAGE VIEW: OPERATION - WINTER YEAR 15



<b>VIEWPOINT 18</b> View from A5025 on western edge of Treglele			<b>Notes</b> 1. This photomontage is for illustrative purposes only and has been prepared in accordance with the methodology set out in appendix D10-8 [APP-199]. 2. Landscape mounding and planting is based upon the indicative design set out in the appendix D10-8. 3. Buildings and structures are based upon the maximum parameter dimensions in order to illustrate the worst case scale of buildings to inform the visual impact assessment. The proposals would not necessarily be built out to the maximum dimensions shown. 4. Further design development would be undertaken post grant of Development Consent Order, including the architectural treatment and colour scheme for the Power Station buildings and the selection of material finishes for the Marine Off-loading Facility and breakwaters. 5. Viewpoint surveyed using handheld GPS unit. 6. Images (as printed on A3 sheet) are to be viewed at approx. 30cm from the eye. 7. Proposed enhancement of retained boundary features are not shown on these photomontages.												Drawing title ADDENDUM TO APPENDIX D10 - 8 WNDA DEVELOPMENT PHOTOMONTAGE VIEWPOINT 18-1	
Date of photograph: 20/11/2018 Time of photograph: 13:55 Lighting conditions: Cloudy, Overcast OS grid reference: 235605, 392623 Viewpoint ground elevation: 26.847m Camera height above ground level: 1.5m Camera type: Canon EOS 5D Camera lens size: 50mm Aperture: f.5.6 ISO: 250 Shutter speed: 1/ 500 Horizontal angle of view: 80°			1	FEB 2019	DCO Submission	HNPWL	HNPWL	HNPWL	HNPWL							
			Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	App'r'd	Scale @ A3	NOT TO SCALE	DO NOT SCALE				
			Client								Jacobs No.	60PO80AG				
											Client No.	-				
			Project								WYLFA NEWYDD PROJECT ENVIRONMENTAL STATEMENT					
											This drawing is not to be used in whole or in part other than for the intended purpose and project as defined on this drawing. Refer to the contract for full terms and conditions.					





<b>VIEWPOINT 18</b> View from A5025 on western edge of Treglele			<b>Notes</b> 1. This photomontage is for illustrative purposes only and has been prepared in accordance with the methodology set out in appendix D10-8 [APP-199]. 2. The dashed red lines indicate the maximum building parameter envelope, within which individual building locations may vary subject to on-going design development post submission of the Development Consent Order application. 3. The dashed yellow lines indicate the maximum marine parameter envelope. 4. The dashed grey lines indicate the maximum building platform level parameter. 5. Buildings and structures would not necessarily be built out to the maximum dimensions shown. 6. Viewpoint surveyed using handheld GPS unit. 7. Images (as printed on A3 sheet) are to be viewed at approx. 30cm from the eye. 8. Proposed enhancement of retained boundary features are not shown on these photomontages.													Drawing title ADDENDUM TO APPENDIX D10 - 8 WNDA DEVELOPMENT PHOTOMONTAGE VIEWPOINT 18-1
Date of photograph: 20/11/2018 Time of photograph: 13:55 Lighting conditions: Cloudy, Overcast OS grid reference: 235605, 392623 Viewpoint ground elevation: 26.847m Camera height above ground level: 1.5m Camera type: Canon EOS 5D Camera lens size: 50mm Aperture: f.5.6 ISO: 250 Shutter speed: 1/ 500 Horizontal angle of view: 80°			1	FEB 2019	DCO Submission	HNPWL	HNPWL	HNPWL	HNPWL	Scale @ A3 NOT TO SCALE	DO NOT SCALE					
			Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd	Jacobs No.	60PO80AG					
			Client <div>HORIZON</div> <div>NUCLEAR POWER</div>							Client No.	-					
			Project WYLFA NEWYDD PROJECT ENVIRONMENTAL STATEMENT							Drawing No.	60PO80AG_DCO_VOL_D_APP_10_08_V18-1C					
© Contains copyright and database rights 2019 Ordnance Survey 100051118										This drawing is not to be used in whole or in part other than for the intended purpose and project as defined on this drawing. Refer to the contract for full terms and conditions.						



EXISTING VIEW - WINTER



PHOTOMONTAGE VIEW: OPERATION - WINTER YEAR 1



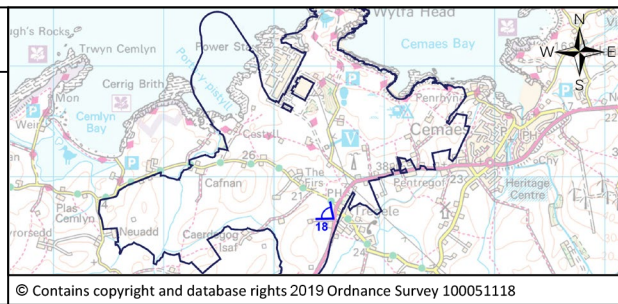
<b>VIEWPOINT 18</b> View from A5025 on western edge of Treglele			<b>Notes</b> 1. This photomontage is for illustrative purposes only and has been prepared in accordance with the methodology set out in appendix D10-8 [APP-199]. 2. Landscape mounding and planting is based upon the indicative design set out in the appendix D10-8. 3. Buildings and structures are based upon the maximum parameter dimensions in order to illustrate the worst case scale of buildings to inform the visual impact assessment. The proposals would not necessarily be built out to the maximum dimensions shown. 4. Further design development would be undertaken post grant of Development Consent Order, including the architectural treatment and colour scheme for the Power Station buildings and the selection of material finishes for the Marine Off-loading Facility and breakwaters. 5. Viewpoint surveyed using handheld GPS unit. 6. Images (as printed on A3 sheet) are to be viewed at approx. 30cm from the eye. 7. Proposed enhancement of retained boundary features are not shown on these photomontages.												Drawing title ADDENDUM TO APPENDIX D10 - 8 WNDA DEVELOPMENT PHOTOMONTAGE VIEWPOINT 18-2	
Date of photograph: 20/11/2018 Time of photograph: 13:55 Lighting conditions: Cloudy, Overcast OS grid reference: 235605, 392623 Viewpoint ground elevation: 26.847m Camera height above ground level: 1.5m Camera type: Canon EOS 5D Camera lens size: 50mm Aperture: f.5.6 ISO: 250 Shutter speed: 1/ 500 Horizontal angle of view: 80°			1	FEB 2019	DCO Submission	HNPWL	HNPWL	HNPWL	HNPWL	Scale @ A3	NOT TO SCALE	DO NOT SCALE				
			Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd	Jacobs No.	60PO80AG					
			Client							Client No.	-					
			Project							Drawing No.	60PO80AG_DCO_VOL_D_APP_10_08_V18-2A					
										This drawing is not to be used in whole or in part other than for the intended purpose and project as defined on this drawing. Refer to the contract for full terms and conditions.						



PHOTOMONTAGE VIEW: OPERATION - WINTER YEAR 15


A wide-angle landscape photograph showing a road in the foreground with a white line. A grassy verge with a low hedge runs along the road. In the background, a dense forest of bare trees covers a hillside under a cloudy sky.

<b>VIEWPOINT 18</b>
<b>View from A5025 on western edge of Tregeloe</b>
<hr/>
Date of photograph: 20/11/2018
Time of photograph: 13:55
Lighting conditions: <b>Cloudy, Overcast</b>
OS grid reference: 235605, 392623
Viewpoint ground elevation: 26.847m
Camera height above ground level: 1.5m
Camera type: <b>Canon EOS 5D</b>
Camera lens size: 50mm
Aperture: f.5.6
ISO: 250
Shutter speed: 1/ 500
Horizontal angle of view: 80°



### Notes

1. This photomontage is for illustrative purposes only and has been prepared in accordance with the methodology set out in appendix D10-8 [APP-199].
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4. Further design development would be undertaken post grant of Development Consent Order, including the architectural treatment and colour scheme for the Power Station buildings and the selection of material finishes for the Marine Off-loading Facility and breakwaters.
5. Viewpoint surveyed using handheld GPS unit.
6. Images (as printed on A3 sheet) are to be viewed at approx. 30cm from the eye.
7. Proposed enhancement of retained boundary features are not shown on these photomontages.

								Drawing title ADDENDUM TO APPENDIX D10 - 8 WNDA DEVELOPMENT PHOTOMONTAGE VIEWPOINT 18-2	
1	FEB 2019	DCO Submission	HNPWL	HNPWL	HNPWL	HNPWL			
Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd	Scale @ A3	NOT TO SCALE	DO NOT SCALE
<div>Client</div> <div></div>								Jacobs No.	60PO80AG
								Client No.	-
<div>Project</div> <div>WYLFA NEWYDD PROJECT ENVIRONMENTAL STATEMENT</div>								Drawing No.	60PO80AG_DCO_VOL_D_APP_10_08_V18-2B
								This drawing is not to be used in whole or in part other than for the intended purpose and project as defined on this drawing. Refer to the contract for full terms and conditions.	



PHOTOMONTAGE VIEW: OPERATION PARAMETERS - WINTER YEAR 1



PHOTOMONTAGE VIEW: OPERATION PARAMETERS - WINTER YEAR 15



VIEWPOINT 18

View from A5025 on western edge of Tregelle

Date of photograph: 20/11/2018

Time of photograph: 13:55

Lighting conditions: Cloudy, Overcast

OS grid reference: 235605, 392623

Viewpoint ground elevation: 26.847m

Camera height above ground level: 1.5m

Camera type: Canon EOS 5D

Camera lens size: 50mm

Aperture: f.5.6

ISO: 250

Shutter speed: 1/ 500

Horizontal angle of view: 80°

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Notes

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3. The dashed yellow lines indicate the maximum marine parameter envelope.

4. The dashed grey lines indicate the maximum building platform level parameter.

5. Buildings and structures would not necessarily be built out to the maximum dimensions shown.

6. Viewpoint surveyed using handheld GPS unit.

7. Images (as printed on A3 sheet) are to be viewed at approx. 30cm from the eye.

8. Proposed enhancement of retained boundary features are not shown on these photomontages.

1	FEB 2019	DCO Submission	HNPWL	HNPWL	HNPWL	HNPWL	
Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd	
Client			HORIZON NUCLEAR POWER				
Project			WYLFA NEWYDD PROJECT ENVIRONMENTAL STATEMENT				

Drawing title

ADDENDUM TO APPENDIX D10 - 8  
WNDA DEVELOPMENT  
PHOTOMONTAGE VIEWPOINT 18-2

Scale @ A3

NOT TO SCALE

DO NOT SCALE

Jacobs No.

60PO80AG

Client No.

-

Drawing No.

60PO80AG\_DCO\_VOL\_D\_APP\_10\_08\_V18-2C

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EXISTING VIEW - WINTER

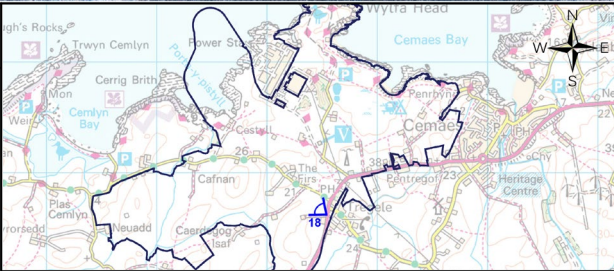
A wide-angle photograph of a road junction in winter. The road is wet and paved, with white lane markings. To the left is a grassy field with some bare trees and a small building in the distance. To the right is a residential area with houses and a small outbuilding. Several large electricity pylons are visible in the background under a cloudy sky. A small construction area with orange cones is visible near the junction.

PHOTOMONTAGE VIEW: OPERATION - WINTER YEAR 1

A wide-angle photomontage view of a road intersection in winter. The road is wet and reflects the overcast sky. To the left is a grassy field with a line of bare trees in the background. To the right are residential houses and a street lamp. High-voltage power lines and pylons are visible in the distance.

**VIEWPOINT 18**  
View from A5025 on western edge of Tregelle


Date of photograph: 20/11/2018  
Time of photograph: 13:55  
Lighting conditions: Cloudy, Overcast  
OS grid reference: 235605, 392623  
Viewpoint ground elevation: 26.847m  
Camera height above ground level: 1.5m  
Camera type: Canon EOS 5D  
Camera lens size: 50mm  
Aperture: f.5.6  
ISO: 250  
Shutter speed: 1/500  
Horizontal angle of view: 80°



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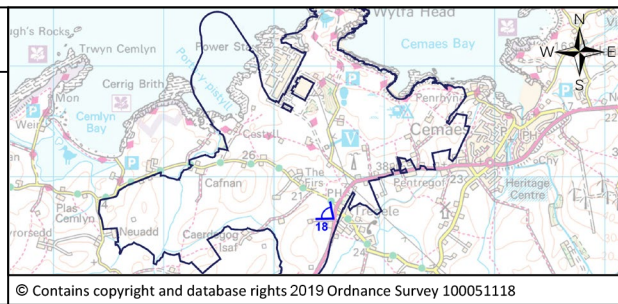
							Drawing title ADDENDUM TO APPENDIX D10 - 8 WNDA DEVELOPMENT PHOTOMONTAGE VIEWPOINT 18-3		
1	FEB 2019	DCO Submission	HNPWL	HNPWL	HNPWL	HNPWL			
Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd	Scale @ A3	NOT TO SCALE	DO NOT SCALE
<div>Client</div> <div></div>							Jacobs No.	60PO80AG	
							Client No.	-	
<div>Project</div> <div>WYLF A NEWYDD PROJECT ENVIRONMENTAL STATEMENT</div>							Drawing No.	60PO80AG_DCO_VOL_D_APP_10_08_V18-3A	
							This drawing is not to be used in whole or in part other than for the intended purpose and project as defined on this drawing. Refer to the contract for full terms and conditions.		



PHOTOMONTAGE VIEW: OPERATION - WINTER YEAR 15


A wide-angle photograph of a road intersection in winter. The road is wet and reflective, with white dashed lines. To the left is a grassy field and a dense line of bare trees. To the right is a residential area with houses and a street lamp. In the background, a large electricity pylon stands against a cloudy sky.

<b>VIEWPOINT 18</b> View from A5025 on western edge of Tregeloe
Date of photograph: 20/11/2018 Time of photograph: 13:55 Lighting conditions: <b>Cloudy, Overcast</b> OS grid reference: 235605, 392623 Viewpoint ground elevation: 26.847m Camera height above ground level: 1.5m Camera type: <b>Canon EOS 5D</b> Camera lens size: 50mm Aperture: f.5.6 ISO: 250 Shutter speed: 1/500 Horizontal angle of view: 80°



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							Drawing title ADDENDUM TO APPENDIX D10 - 8 WNDA DEVELOPMENT PHOTOMONTAGE VIEWPOINT 18-3
1	FEB 2019	DCO Submission	HNPWL	HNPWL	HNPWL	HNPWL	
Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd	Scale @ A3 NOT TO SCALE DO NOT SCALE
Client 							Jacobs No. 60PO80AG
							Client No. -
Project WYLFA NEWYDD PROJECT ENVIRONMENTAL STATEMENT							Drawing No. 60PO80AG_DCO_VOL_D_APP_10_08_V18-3B
							This drawing is not to be used in whole or in part other than for the intended purpose and project as defined on this drawing. Refer to the contract for full terms and conditions.

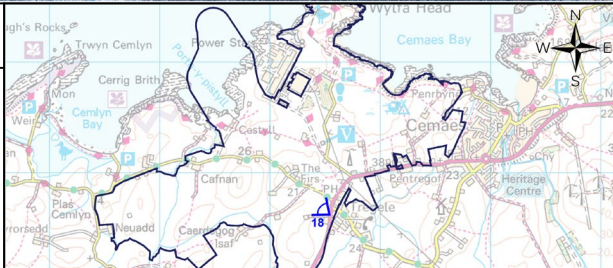


PHOTOMONTAGE VIEW: OPERATION PARAMETERS - WINTER YEAR 1



PHOTOMONTAGE VIEW: OPERATION PARAMETERS - WINTER YEAR 15



<b>VIEWPOINT 18</b> View from A5025 on western edge of Treglele		 © Contains copyright and database rights 2019 Ordnance Survey 100051118		<b>Notes</b> 1. This photomontage is for illustrative purposes only and has been prepared in accordance with the methodology set out in appendix D10-8 [APP-199]. 2. The dashed red lines indicate the maximum building parameter envelope, within which individual building locations may vary subject to on-going design development post submission of the Development Consent Order application. 3. The dashed yellow lines indicate the maximum marine parameter envelope. 4. The dashed grey lines indicate the maximum building platform level parameter. 5. Buildings and structures would not necessarily be built out to the maximum dimensions shown. 6. Viewpoint surveyed using handheld GPS unit. 7. Images (as printed on A3 sheet) are to be viewed at approx. 30cm from the eye. 8. Proposed enhancement of retained boundary features are not shown on these photomontages.									Drawing title ADDENDUM TO APPENDIX D10 - 8 WNDA DEVELOPMENT PHOTOMONTAGE VIEWPOINT 18-3		
Date of photograph: 20/11/2018 Time of photograph: 13:55 Lighting conditions: Cloudy, Overcast OS grid reference: 235605, 392623 Viewpoint ground elevation: 26.847m Camera height above ground level: 1.5m Camera type: Canon EOS 5D Camera lens size: 50mm Aperture: f.5.6 ISO: 250 Shutter speed: 1/ 500 Horizontal angle of view: 80°				1	FEB 2019	DCO Submission	HNPWL	HNPWL	HNPWL	HNPWL	Scale @ A3	NOT TO SCALE	DO NOT SCALE		
				Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	App'd	Jacobs No.	60PO80AG			
				Client <div>HORIZON</div> <div>NUCLEAR POWER</div>							Client No.	-			
				Project WYLFA NEWYDD PROJECT ENVIRONMENTAL STATEMENT							Drawing No.	60PO80AG_DCO_VOL_D_APP_10_08_V18-3C			
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## Wylfa Newydd Project

### Appendix 1-3 Post Hearing Note on Traffic Incident Management Scheme and Work No.12

PINS Reference Number: EN010007

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# 1 Traffic Incident Management Scheme and Work No. 12

## 1.1 Background

1.1.1 Requirement PW7 in Schedule 3 of the draft Development Consent Order [REP5-003] outlines the key project-wide schemes that must be approved by IACC.

1.1.2 PW7(2) states that the Traffic Incident Management Scheme (TIMS) for the Wylfa Newydd DCO Project does not need to be approved in advance of the commencement of works for Work No. 12 (which are the works associated with Site Preparation and Clearance). This clause is repeated below for ease of reference:

### **Wylfa Newydd CoCP and Schemes**

[...] (2) Except for Work No.12, prior to the commencement of the authorised development the following schemes must be submitted to IACC for approval—

- (a) Community Safety Management Scheme;
- (b) Traffic Incident Management Scheme; and
- (c) Parking Phasing Scheme.

## 1.2 Justification for excluding Work No. 12 as part of PW7

1.2.1 In determining the scope of the TIMS, Horizon did not consider that it was necessary for it to also include Work No.12 for the following reasons:

1.2.2 The number of traffic movements associated with this Work No.12 is relatively low and the potential impact of a traffic incident would be resolved in the same way as any other Project i.e. once informed of an incident changes would be made to delivery routes and timings to reflect the impact of the traffic incident on the operation of the road network.

- The previous draft conditions for the site preparation and clearance planning application did not require Horizon to provide a TIMS in respect of those TCPA works. As Work No. 12 is similar in nature to the SPC (Site Preparation and Clearance) works under the planning permission application, it was considered that a similar approach could be taken for the DCO. Horizon understands that based on recent discussions with the IACC it is content with this approach.

- 1.2.3 In addition, the prompt commencement of Work No. 12 will help ensure the Project is delivered in accordance with the proposed programme. This means that there is a desire from Horizon to ensure that potential delays in getting approval for the Traffic Incident Management Scheme should not delay the ability of the Project to begin the Site Preparation and Clearance works given the low traffic impact associated with this element of the construction programme.
- 1.2.4 These two reasons explain why Horizon consider that Work No. 12 should be excluded from PW7 and the requirement to obtain approval for the Traffic Incident Management Scheme before the commencement of authorised development.





## Wylfa Newydd Project

### Appendix 1-4 Post Hearing Note on Pre-Comm Surveys

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# 1 Site restoration

## 1.1 Introduction

- 1.1.1 During the Issue Specific Hearing held on 8 March 2019, the Examining Authority requested a short response providing further details on how Horizon's Code of Construction Practice documents can provide further details on how pre-commencement surveys will ensure sites will be restored adequately, by Deadline 8 (25 March 2019).

## 1.2 Existing survey data and pre-commencement surveys

- 1.2.1 Horizon has already submitted complete datasets from existing tree surveys conducted on the Wylfa Newydd Development Area and A5025 Off-line Highways Improvements sites. These are held in the Appendix C to the Landscape and Habitat Management Strategy [REP5-036] and Appendix G10-7 Tree reports and plans [APP-342] respectively.
- 1.2.2 With further regard to the Wylfa Newydd Development Area, Horizon also holds additional information that could be used to inform site restoration plans where required, for example in the form of 2017 aerial photographic survey data (shared with the Isle of Anglesey County Council), and topographical survey records that made up part of the Wylfa Newydd Site Preparation and Clearance Town and Countryside Planning Application.
- 1.2.3 Furthermore, Horizon has previously committed in section 11.20 of the Main Power Station Site sub-CoCP [REP5-022] to undertake a detailed survey of stone wall and cloddiau construction (vernacular detailing) and hedgerow/tree species for field boundaries to be removed, to help ensure a degree of authenticity and historical continuity in the reinstatement of these features as part of the final landscape scheme. Stone will be saved from those stone walls and cloddiau structures to be dismantled during the construction works, so as to support the reconstruction and reinstatement of the characteristic landscape features removed during the works, in-line with section 6 of the Landscape and Habitat Management Strategy, updated for submission at Deadline 8 (25 March 2019).
- 1.2.4 Finally, since the latest submission of the Off-Site Power Station Facilities sub-CoCP [REP5-026], Park and Ride sub-CoCP [REP5-028] and Logistics Centre sub-CoCP [REP5-030], Horizon has also committed to conducting pre-commencement tree and hedgerow surveys (at those respective sites) in line with guidance provided in British Standard 5837:2012 *Trees in relation to design, demolition and construction. Recommendations*. [RD1]. These commitments will be seen in section 11 of the revised sub-CoCPs submitted at Deadline 8 (25 March 2019).
- 1.2.5 This all demonstrates Horizon has the information already, or is committed to gathering the required information, as a record of existing site conditions so that restoration can be undertaken in the future as required.

## 1.3 References

**Table 1-1 Schedule of references**

ID	Reference
RD1	British Standards Institution. 2012. BS 5837:2012 <i>Trees in relation to design, demolition and construction. Recommendations</i> . London: British Standards Institution.



## Wylfa Newydd Project

### Appendix 1-5 Post Hearing Note on A5025 Tree Surveys

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# 1 Tree surveys for the A5025 Off-line Highway Improvements

## 1.1 Introduction

- 1.1.1 During the Issue Specific Hearing on 7<sup>th</sup> March, IACC expressed concern over the potential for tree survey data in appendix G10-7 of the Environmental Statement [APP-342] to become outdated by the time that construction commenced, given the delay to the Wylfa Newydd Development.
- 1.1.2 It is therefore recommended that the A5025 Off-line Highway Improvements sub-CoCP [REP5-032] is amended by Deadline 8 in the following way to account of potential delays to the commencement of construction, whereby there could be a change to the baseline information contained within the existing tree surveys:
- Prior to commencement of construction, existing tree surveys within appendix G10-7 of the Environmental Statement [APP-342] will be reviewed and if necessary updated, in accordance with BS5837.
- 1.1.3 It is recommended that the text is inserted prior to section 11.8 Landscape planting within the A5025 Off-line Highway Improvements sub-CoCP [REP5-032].

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## Wylfa Newydd Project

### Appendix 1-6 Post Hearing Note on CoCP Updates for Protected Species

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# 1 Protected species mitigation

## 1.1 Code of Construction Practice amendments

- 1.1.1 During the Issue Specific Hearing on the Off-site Power Station Facilities and Associated Development Sites outside the Wylfa Newydd Development Area, held on 7 March 2019, the Isle of Anglesey County Council (IACC) raised concerns over the level of detail and protection provided for protected species within relevant Code and sub-Codes of Construction Practice (CoCP).
- 1.1.2 A meeting between the IACC and Horizon was held on 8 March 2019 to discuss the provisions of the Wylfa Newydd CoCP and all sub-CoCPs. During this meeting, the IACC agreed to provide Horizon with a list of additional measures it would want to see included in relevant CoCPs, and this was sent via email on 12 March 2019 (email between Energy Island Programme Office at the IACC and Kieran Somers of Horizon Nuclear Power Ltd, titled: Amended CoCP wording - Land Contamination and Ecology: OFFICIAL).
- 1.1.3 Horizon has reviewed the information provided by the IACC. Table 1-1 summarises the proposal from the IACC and sets out where Horizon has agreed to the proposed amendment to the CoCP or sub-CoCP wording. Where Horizon has not accepted the proposed amendment, a justification has been provided. Those revisions Horizon has committed to will be included in the revised Wylfa Newydd CoCP and sub-CoCP documents submitted into Examination at Deadline 8 (25 March 2019).

**Table 1-1 Summary of the proposal from the IACC and the proposed amendment to the CoCP or sub-CoCP wording**

Document reference	IACC proposed amendment	Horizon response
Wylfa Newydd CoCP [REP5-020]	<p>Additional text proposed to be added to the Notable Mammals section (11.2.19 - 11.2.20):</p> <p>Further mitigation measures will be employed during the process of construction to ensure that any mammals which may remain, or which may return to the site(s) are adequately protected. These measures will include:</p> <ul style="list-style-type: none"> <li>• speed limits to avoid harming wildlife;</li> <li>• measures to avoid creating wildlife refugia during construction;</li> <li>• measures to control waste (operational and construction) to avoid increases in vermin;</li> <li>• covering and sealing (e.g. using sand) excavations or providing a means of escape for trapped animals.</li> </ul>	<p>Horizon consider the additional provisions sought by IACC are not required as they are already secured through the CoCP or are not required:</p> <ul style="list-style-type: none"> <li>• In line with commitment in the Main Power Station Site sub-CoCP [REP5-022], a maximum speed limit will be set for vehicles on surfaced and unsurfaced roads to secure health and safety of workers and keep airborne dusts within acceptable limits for sensitive receptors (section 7.2). The site will be cleared of notable mammals as part of the site preparation and clearance works so the risk of animals being present within the construction area is negligible. Any animals which might occur within this area would be highly mobile and therefore not at risk of vehicle collision / mortality as a result of construction plant movement.</li> <li>• Site preparation and clearance works will remove the majority of habitats and species from the WDNA. This will mean species are unlikely to utilise the construction area for refuge. Additional measures to avoid this negligible risk are considered unnecessary.</li> <li>• Measures to control waste and vermin are included within the Waste and Site Layout sections of the Wylfa Newydd CoCP [REP5-020 sections 9 4 respectively].</li> </ul>

Document reference	IACC proposed amendment	Horizon response
		<ul style="list-style-type: none"> <li>Given the scale of the earthworks proposed across the WDNA, providing measures to allow a means of escape for animals which fall into any excavations are considered unnecessary. Site preparation and clearance works will remove the majority of habitats and species from the WDNA so the risk of mobile species being present on site and with the potential to fall into open excavations is negligible. The measures proposed are more appropriate on developments such as trench excavations through retained habitat where they pose a risk for animals in habitat immediately adjacent to the excavation. This is not the case within the WNDAs.</li> </ul>
Main Power Station Site sub-CoCP [REP5-022]	<p>Additional text proposed to be added to the reptile section (11.5):</p> <p>Pre-construction surveys ... will include for capture-mark-recapture (CMR) and will be carried out across the development site and receptor area, prior to site clearance, to ensure a robust baseline for the translocation.</p> <ul style="list-style-type: none"> <li>Following relocation / displacement the CMR techniques will be employed:</li> </ul>	<p>Horizon considers that the baseline and assessment presented in chapter D9 Terrestrial and freshwater ecology [APP-128], to be robust. The IACC, in their Deadline 6 (19 February 2019) Response to Examining Authority's Further Written Questions, state that, despite some reservations over the robustness of the data used to estimate population class size, Horizon's baseline assessment of population class size is likely to be accurate. However, given their reservations, the IACC recommends that a precautionary approach to mitigation is adopted.</p> <p>The mitigation strategy for reptiles, presented in chapter D9 and secured within the Wylfa Newydd CoCP [REP5-</p>

Document reference	IACC proposed amendment	Horizon response
	<ul style="list-style-type: none"> <li>○ Biennially at and near the receptor site and displacement areas for the duration of the construction period.</li> <li>○ Biennially at the above areas and at restored habitats / key corridors for the post-construction monitoring period (10 years minimum).</li> </ul> <p>The standard presence / absence surveys will also be employed every other year at the above locations.</p>	<p>020], and Main Power Station Site sub-CoCP [REP5-022], is considered suitably flexible and precautionary to allow a greater number of animals to be translocated to off-site receptors than is predicted in the baseline assessment. This flexibility is provided by the Notable Wildlife Enhancement Area, secured by the provisions of the Landscape and Habitat Management Strategy [REP5-036]; the site is three times greater in size than the Reptile Receptor Area and would be available to receive translocated reptiles should it be determined the Reptile Receptor Site had reached carrying capacity.</p> <p>The pre-construction reptile surveys detailed within the MPSS sub-CoCP [REP5-022 section 11], are proposed to determine the habitat quality for reptiles which will inform the most appropriate mitigation approach across the site. The pre-construction surveys are not proposed to re-establish the reptile baseline which has already been assessed. As such, capture-mark-recapture is not considered an appropriate methodology for pre-construction survey effort.</p> <p>Horizon will adopt the following monitoring approach for the construction and post-construction period:</p> <ul style="list-style-type: none"> <li>○ Biennially at and near the receptor site for the duration of the construction period.</li> <li>○ Biennially at the above areas and at restored habitats / key corridors for the post-construction monitoring period (10 years minimum).</li> </ul>

Document reference	IACC proposed amendment	Horizon response
		The standard presence / absence surveys will also be employed every other year at the above locations.
Main Power Station Site sub-CoCP [REP5-022]	<p>Additional text (underlined for demarcation) proposed to be added to the provision of bat and barn owl boxes section (11.15):</p> <ul style="list-style-type: none"> <li>In total Horizon propose to install 60 bat boxes in suitable locations across the main site. The boxes will be installed prior to commencement of building demolition and tree felling and will be retained for the operational life of the power station. Annual monitoring and replacement of damaged or missing boxes will be undertaken throughout the duration of the construction and operation period</li> </ul>	<p>Horizon is willing to increase the provision of bat boxes from 40 to the figure of 60 proposed by the IACC, and commits to retaining this provision throughout the construction period and operational life of the power station. Boxes will be replaced on a like for like basis once damaged or missing.</p> <p>Horizon will monitor all structures provided as mitigation for adverse effects to bats in line with the monitoring commitments agreed with NRW in relation to the European Protected Species licensing requirements and detailed in section 11.16 of the MPSS sub-CoCP [REP5-022].</p>
Logistics Centre sub-CoCP [REP5-030]	<p>Additional text (underlined for demarcation) proposed to be added to the reptiles section (11.5):</p> <ul style="list-style-type: none"> <li><u>Translocation and</u> habitat manipulation will be used to encourage dispersal of reptiles from habitats that will be removed during construction of the Logistics Centre into areas of adjacent habitat that will not be affected by the works. <u>Translocation will include the following techniques and will be employed between March to September prior to construction commencing:</u></li> </ul>	<p>Baseline reptile data shows the presence of one slow worm along the south-eastern boundary of the site. These data, combined with the limited extent of good quality reptile habitat within the site, indicate that the habitat manipulation approach to site clearance set out in the Logistic Centre sub-CoCP [REP5-030], is appropriate.</p> <p>However, to provide flexibility in the approach to site clearance should habitat quality change prior to works commencing, Horizon will commit to the following reptile</p>

Document reference	IACC proposed amendment	Horizon response
	<ul style="list-style-type: none"> <li>○ <u>use artificial refuges (but capture legged lizards by hand or noose)</u></li> <li>○ <u>gradually reduce the amount of suitable habitat to concentrate the reptiles in certain areas, making it easier to capture them e.g. by strimming rough grass</u></li> <li>○ <u>dismantle rubble, rock and wood piles carefully by hand to capture any reptiles using them as refuges.</u></li> <li>• <u>Habitat manipulation and invasive methods such as the use of mechanical excavation would only be undertaken under the supervision of the ECoW and after exhausting the methods listed above.</u></li> </ul>	<p>mitigation strategy which is in line with that proposed for the MPSS and the A5025 Off-line Highways Improvements:</p> <ul style="list-style-type: none"> <li>• Pre-construction surveys will be carried out under the supervision of an ECoW (Ecological Clerk of Works). Dependent on the results of those surveys, one or more of the following three approaches will be employed which are in line with relevant good practice guidance: <ul style="list-style-type: none"> <li>○ active trapping and translocation of individuals (likely to be employed in areas of high quality reptile habitat, and known hotspots for reptiles);</li> <li>○ destructive search of habitats by an ECoW (likely to occur in complex habitats such as drystone walls and cloddiau, and in high quality reptile habitat); or</li> <li>○ supervision of habitat clearance by an ECoW.</li> </ul> </li> </ul>
Park & Ride sub-CoCP (REP5-028)	<p>New section on breeding birds:</p> <ul style="list-style-type: none"> <li>• Building 12 will be surveyed by the ECoW in order to identify the presence or absence of breeding birds, most notably swallows and house sparrow. If absent Horizon may demolish the building or secure it to prevent re-entry prior to later demolition. The building will be demolished under ECoW supervision. Prior to demolition Horizon will</li> </ul>	<p>Horizon has committed to undertaking pre-construction surveys of any habitat (including buildings) with the potential to support breeding birds which is cleared during the breeding season as part of the Wylfa Newydd CoCP [REP5-020. 11.2.23 – 11.2.27]. This would include Building 12.</p>

Document reference	IACC proposed amendment	Horizon response
	place replacement house sparrow and swallow nest representing a number equivalent to those which are to be lost elsewhere within the site.	There will be no structures retained or constructed within the Park & Ride site which would be suitable to support replacement nests.
Park & Ride sub-CoCP (REP5-028)	<p>New section on eels:</p> <ul style="list-style-type: none"> <li>The European Eel is protected via the Eels (England and Wales) regulations 2009 and is listed as critically endangered. It is also a section 7 species as defined by the Environment (Wales) Act 2016. Construction mitigation measures to protect eels will include for measure to avoid mortality and will include for those potentially crossing damp grassland during either the early phases of construction or during those parts of the site where grassland is retained during the operational period. Mitigation measures for the protection of eels in both watercourses and on land will be prepared and managed by the ECoW.</li> </ul>	<p>Although eel have been known to penetrate small waterbodies with no direct connection to the sea by moving through wet vegetation and puddles following rain, there is no evidence to suggest that leaving a watercourse to facilitate migration is a preferential method of eel moving through a catchment when unimpeded river flow/access exists.</p> <p>Eel were recorded in watercourses within the Park &amp; Ride site. These watercourses are retained as part of the proposals, and 10m buffers of riparian habitat (15m along the Nant Dalar Hir), are secured through the provisions of the Park &amp; Ride sub-CoCP (section 10.2).</p> <p>As these provisions will retain unimpeded river flow and access for eel around the area it is not anticipated that there would be significant pressure to cross terrestrial habitats within the Park &amp; Ride site, and therefore bespoke measures beyond those already secured in the Wylfa Newydd CoCP [REP5-020], to protect species across all sites are not considered necessary.</p>

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## Wylfa Newydd Project

### Appendix 1-7 Post Hearing Note on Barn Owl Monitoring Commitments

PINS Reference Number: EN010007

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# 1 Barn owl monitoring commitments

## 1.1 Review of monitoring commitments

- 1.1.1 During the Issue Specific Hearing on Biodiversity, held on 8 March 2019, the Examining Authority requested that a commitment to undertake barn owl *Tito alba* inspections was included within the relevant Code of Construction Practice (CoCP). This was in relation to potential adverse effects on barn owl at the Main Power Station Site during construction.
- 1.1.2 In the Main Power Station Site sub-CoCP, submitted into Examination at Deadline 5 (REP5-022, para 11.15.3), Horizon committed to providing four barn owl nesting boxes prior to the start of construction to mitigate the possible effects of disturbance to breeding roosts. Annual monitoring of each nesting box was proposed throughout the construction period.
- 1.1.3 Horizon has reviewed this commitment and will revise it to state pre-construction surveys will be completed by an ECoW before any works in close proximity to habitats with the potential to support barn owl, in keeping with the measures set out in section 11.2 of the Wylfa Newydd CoCP [as submitted at Deadline 8 (25 March 2019)]. This will include pre-demolition checks for structures identified for demolition. Annual monitoring of each of the four nesting boxes will be undertaken during the construction period, as well as the existing barn owl tower and barn owl barn.
- 1.1.4 A revised version of the Main Power Station Site sub-CoCP will be submitted into Examination at Deadline 8 (25 March 2019) and will include this revised commitment.

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## Wylfa Newydd Project

### Appendix 1-8 Post Hearing Note on confirming that MUGA and Lighting are placed correctly

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# **1 Multi-User Games Area lighting**

## **1.1 Lighting effects on the Tyn-y-Maes bat barn**

- 1.1.1 During the Issue Specific Hearing on the proposed Wylfa Newydd Development Area, held on 4 March 2019, and the Issue Specific Hearing on biodiversity, held on 8 March 2019, the Isle of Anglesey County Council (IACC) raised the concern that the lighting of the Multi-User Games Area (MUGA), associated with the Site Campus, could have an adverse effect on the existing bat barn at Tyn-y-Maes.
- 1.1.2 Horizon's position on this issue has not changed since its response to the IACC's Local Impact Report at Deadline 3 (REP3-004: Section 12.14).
- 1.1.3 The predicted lux levels next to the MUGA are low and screening from planting between the MUGA and the bat barn would reduce levels further so that they are considered to be of negligible effect to bats roosting within the barn (APP-201. Environmental Lighting Impact Assessment).
- 1.1.4 Furthermore, in their response to First Written Question 2.0.63 (REP2-325.), Natural Resources Wales (NRW) confirmed lighting of the MUGA is not an issue during winter months.
- 1.1.5 Horizon has committed to producing an Overarching Construction Lighting Scheme which will be secured by a Requirement (WN1 and Schedule 21), prior to commencing construction works which will include mitigation to protect dark corridors to and from the Tyn-y-Maes bat barn.
- 1.1.6 The Construction Lighting Scheme will be submitted to the IACC for approval in consultation with NRW, as set out in the updated Development Consent Order, submitted at Deadline 8 (25 March 2019), and the Statement of Common Ground between Horizon Nuclear Power Wylfa Ltd and the Isle of Anglesey County Council, also submitted at Deadline 8 (25 March 2019).

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## Wylfa Newydd Project

### Appendix 1-9 Post Hearing Note on Secure Fencing relating to the Dame Sylvia Crowe Mound

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# **1 Dame Sylvia Crowe's Mound**

## **1.1 Introduction**

- 1.1.1 During the Issue Specific Hearing held on 8 March 2019, the Examining Authority requested a short response confirming how Horizon will secure construction fencing relating to Dame Sylvia Crowe's Mound to be submitted by Deadline 8 (25 March 2019).

## **1.2 Existing measures to protect retained vegetation**

- 1.2.1 Firstly, the DCO sets out that Work No. 12 must be undertaken in accordance with the approved plans in Schedule 2 which include retention plans that specifically identify Dame Sylvia Crowe's Mound as an area not subject to site preparation and clearance works.
- 1.2.2 In addition, Requirement WN8 and 8[A] provide that Horizon must comply with the principles in the Landscape and Habitat Management Plan and submit for approval a management scheme in respect of Dame Sylvia Crowe's Mound as an area that will be retained during construction and form part of the final landscaping.
- 1.2.3 Finally, Horizon has project-wide commitments in Section 11 of the Wylfa Newydd Code of Construction Practice [REP5-020] that address this issue. Specifically, to identify existing trees, scrub and hedgerows to be retained across the Wylfa Newydd DCO Project and protect them in accordance with the recommendations in the established industry guidance contained within British Standard 5837:2012 *Trees in relation to design, demolition and construction. Recommendations* [RD1].
- 1.2.4 The measures contained within BS 5837:2012 [RD1] extend to protective fencing and work practices to protect root protection areas of retained vegetation.
- 1.2.5 As a project-wide commitment, such protection measures will be applied to all trees, scrub and hedgerows identified to be retained, which includes those at Dame Sylvia Crowe's Mound.
- 1.2.6 This commitment is secured by way of a DCO Requirement that stipulates the construction of the authorised development must be carried out in accordance with the Wylfa Newydd Code of Construction Practice, an updated version of which has been submitted at Deadline 8 (25 March 2019).

## **1.3 Further clarification of the measures**

- 1.3.1 In its review of the CoCPs following the March ISHs, Horizon will commit to strengthening its measures to not only 'identify' but also 'map, categorise and quantify' existing trees, scrub and hedgerows to be retained. This additional clarification can be seen in section 11 of the Wylfa Newydd Code of Construction Practice submitted at Deadline 8 (25 March 2019).
- 1.3.2 Furthermore, specific reference has been added to Section 11 of the updated Main Power Station Site sub-CoCP to Dame Sylvia Crowe's Mound, in

relation to the protection measures contained within BS 5837:2012 [RD1]. This includes a specific commitment that Dame Sylvia Crowe's woodland root protection areas will be demarcated with appropriate fencing. This last point is not strictly necessary for the reasons given in 1.2 above, but it has been added to provide clarity on this specific issue and can be seen in the revised version submitted at Deadline 8 (25 March 2019).

## 1.4 References

**Table 1-1 Schedule of references**

ID	Reference
RD1	British Standards Institution. 2012. BS 5837:2012 <i>Trees in relation to design, demolition and construction. Recommendations</i> . London: British Standards Institution.

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## Wylfa Newydd Project

### Appendix 1-10 Post Hearing Note on Air Quality Effects at Cae Gwyn SSSI

PINS Reference Number: EN010007

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25 March 2019

Revision 1.0

Examination Deadline 8

Planning Act 2008

Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009

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# 1 Post-Hearing Response

## 1.1 Nitrogen Deposition at Cae Gwyn SSSI

- 1.1.1 In paragraphs 3.13.2 to 3.13.7 of its post hearing response [REP4-039], NRW stated that it was concerned about increases in nitrogen deposition at Cae Gwyn SSSI due to oxides of nitrogen (NO<sub>x</sub>) emissions from construction plant, machinery and marine vessels. NRW referred to a figure of <1% for the decline in species richness as reported by Horizon in the Air Quality Mitigation Quantification Report [REP3-052], and that species richness does not necessarily equate to species value. NRW stated that the *Sphagnum* mosses present at Cae Gwyn SSSI are particularly sensitive to changes in nitrogen load and the proposed increases in nitrogen deposition could lead to changes in the composition of *Sphagnum* moss species, and could lead to an increase in species which are less suitable for maintaining or building bog habitat. NRW also stated that on-site mitigation would not be effective, and that mitigation should therefore rely on reducing emissions at source.

### ***Mitigation to reduce and manage NO<sub>x</sub> emissions***

- 1.1.2 The potential for significant adverse effects to human and ecological receptors due to NO<sub>x</sub> emissions from construction plant, machinery and marine vessels was acknowledged by Horizon in chapter D5 [APP-124] of the Environmental Statement. Additional mitigation was proposed to reduce emissions of NO<sub>x</sub> from construction plant and machinery and this was subsequently specified and secured in section 7.5 of the Main Power Station Site sub-CoCP, the latest version of the sub-CoCP was submitted at Deadline 8 (25 March 2019)). As well as mitigation to reduce NO<sub>x</sub> emissions from construction plant and machinery, mitigation is also secured in section 7.5 of the Main Power Station Site sub-CoCP (and section 7.3 of the Marine Works sub-CoCP) to reduce NO<sub>x</sub> emissions from marine vessels involved in the Marine Works for the year 2 scenario. A summary of the mitigation is provided below:

- 90% of the non-road mobile machinery (NRMM) operating in the Wylfa Newydd Development Area to meet the EU stage IV NRMM emissions standard or better – this means predominantly relatively new plant with the lowest potential NO<sub>x</sub> emissions would be operating on site. The Stage IV NO<sub>x</sub> emission standard is 80% lower than the previous standard set for stage IIIB.
- All marine vessels associated with the Marine Works to meet the International Maritime Organisation Tier III NO<sub>x</sub> emissions standard – this goes beyond legal requirements as the standard only applies to vessels operating in a NO<sub>x</sub> Emissions Control Area (ECA) and the Irish Sea is not designated as a NO<sub>x</sub> ECA. The only ECAs in Europe are the North Sea and Baltic Sea, for which new engines on marine vessels should meet the Tier III standard if installed after 01 January 2021 (i.e. existing vessels with engines installed prior to 2021 would not need to meet the

Tier III standard). The Tier III emission standard represents the lowest possible NO<sub>x</sub> emissions from marine vessels and is approximately 75% lower than the Tier II NO<sub>x</sub> limit which would be the legal requirement for vessels operating at the Wylfa Newydd Development Area.

- The above mitigation measures to reduce NO<sub>x</sub> emissions at source are supported by continuous NO<sub>x</sub>/NO<sub>2</sub> monitoring at a location close to Cae Gwyn SSSI. This monitoring is part of the site-wide air quality management strategy which adopts a range of measures including using monitoring trigger values to initiate investigation and action on-site via a dedicated Ecological Clerk of Works (ECoW), alteration/adaption of mitigation and site activities and regular reporting and liaison with NRW to keep increases in NO<sub>x</sub> emissions (and resulting nitrogen deposition) to as low as reasonably practicable (the measures are set out in section 7.6 of the Main Power Station Site sub-CoCP and section 7.4 of the Marine Works sub-CoCP, as submitted at Deadline 8 (25 March 2019).

- 1.1.3 The above demonstrates that Horizon has adopted best practice with regard to controlling and reducing NO<sub>x</sub> emissions from the combustion sources during construction of the Power Station to as low a level as reasonably practicable, and going beyond what would be considered as reasonably practicable in one case.

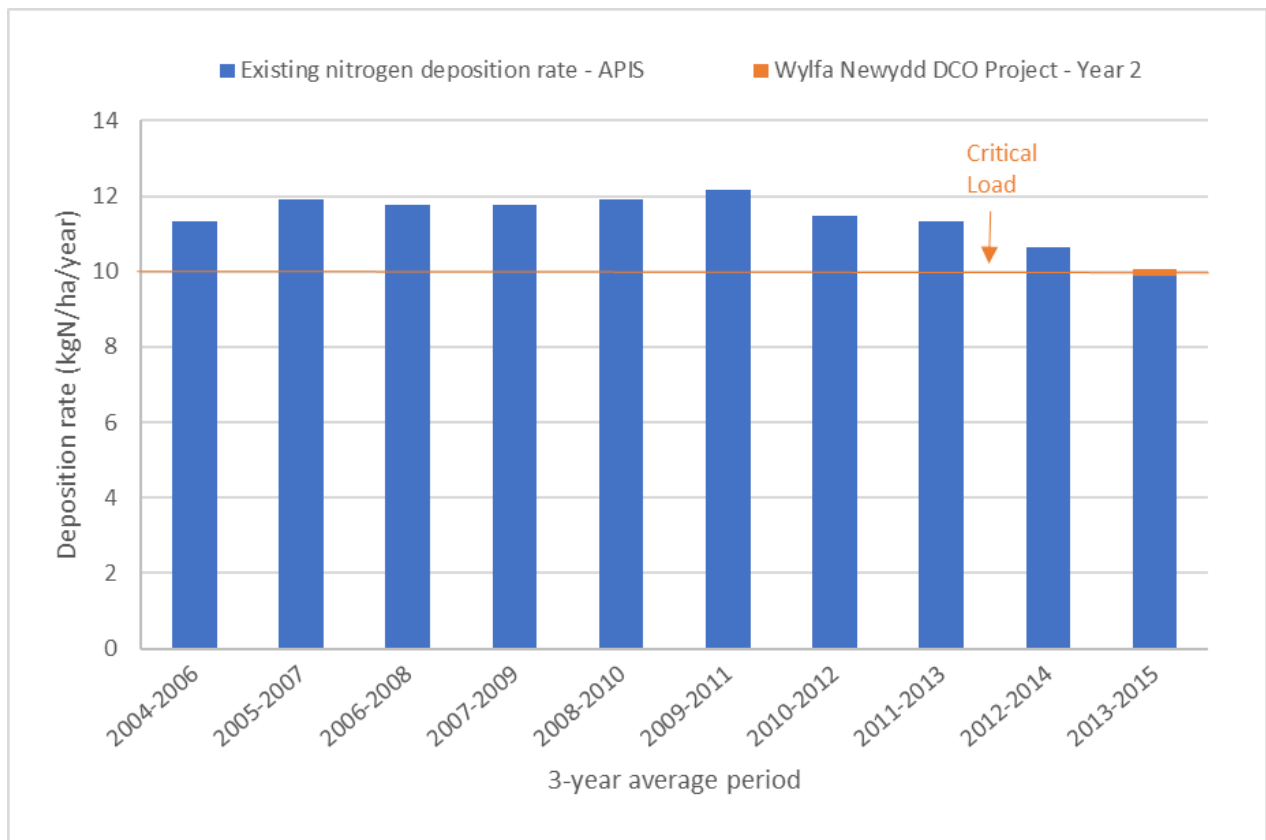
#### **Impacts on Cae Gwyn SSSI**

- 1.1.4 The latest assessment on the predicted increase in nitrogen deposition at Cae Gwyn SSSI during the construction of the Power Station is set out in section 5.6 of chapter 5 of the Environmental Statement Addendum [as submitted at Deadline 8 (25 March 2019)]. To summarise, the increase predicted to occur for the year 2 scenario (representing the peak emissions during the first two years of construction) is 0.22 kgN/ha/year and 0.16 kgN/ha/year for the year 5 scenario (representing the peak emissions during the remainder of the construction). This leads to total nitrogen deposition rates at Cae Gwyn SSSI which are just above the critical load of 10 kgN/ha/year (values of 10.2 kgN/ha/year for the year 2 scenario and 10.1 kgN/ha/year for the year 5 scenario).
- 1.1.5 As reported in section 5.6 of chapter 5 of the Environmental Statement Addendum [as submitted at Deadline 8 (25 March 2019)], the predicted increases in nitrogen deposition would lead to relatively small decrease in overall species richness of 0.2% and 0.1% for the year 2 and year 5 scenario, respectively. The decrease in forb species (i.e. herbaceous flowering plants) is a maximum of 0.9% and the increase in graminoid cover is a maximum of 0.3% for any of the scenarios.
- 1.1.6 NRW stated that the lawn of *Sphagnum* mosses in the southern basin is particularly likely to be impacted by adverse changes in air quality (see paragraph 3.13.5 of REP4-039). It should be noted that the nitrogen deposition rates which form the basis of the air quality and terrestrial and freshwater ecology assessments (and associated species richness and graminoid cover calculations) are based on the maximum value at any point

within Cae Gwyn SSSI. The maximum deposition is predicted at the northern edge of Cae Gwyn SSSI, closest to the construction activities within the Wylfa Newydd Development Area. The increase in nitrogen deposition rates at the southern basin area are approximately 0.16 kgN/ha/year and 0.10 kgN/ha/year for year 2 and year 5, respectively (i.e. 0.06 kgN/ha/year lower than the predicted increase in nitrogen deposition at the very northern tip of Cae Gwyn SSSI). Therefore, the decrease in species richness or increase in graminoid cover would be lower at the southern basin than the values presented above. The nitrogen deposition for the year 5 scenario would not exceed 1% of the critical load and would not require further consideration (i.e. it would be categorised as negligible).

- 1.1.7 Given these anticipated small-scale changes in species richness and graminoid cover, the overall changes in air quality at Cae Gwyn SSSI are predicted to lead to very small measurable changes (although such small changes would be difficult to detect in practice) in the interest features and quality of the SSSI. This is considered to represent a small magnitude of change and a minor adverse effect. This conclusion takes into consideration the sensitivity and value of certain species present at the Cae Gwyn SSSI such as the *Sphagnum* moss and its role in creating the functional structure of the bog in the southern basin of the SSSI.
- 1.1.8 The conclusion of a minor adverse effect is further supported by considering the magnitude of the predicted increase in nitrogen deposition due to the emissions from the construction activities against fluctuations experienced in the existing deposition rates on an annual basis. Figure 1-1 shows the existing nitrogen deposition rates (presented as three-year averages) for Cae Gwyn SSSI (data obtained from the Air Pollution Information System (APIS) website). The 2013-2015 three-year average (the latest dataset available) was adopted as the existing deposition rate for the assessment as agreed with NRW (see appendix B5-2 [APP-084] of the Environmental Statement). Figure 1-1 shows graphically the scale of the predicted increase in nitrogen deposition of 0.16 kgN/Ha/year at the southern basin of the Cae Gwyn SSSI for the year 2 scenario. It is noted that the increase due to the Wylfa Newydd DCO Project is considerably smaller than the variations in existing nitrogen deposition experienced in the last 10 to 15 years at Cae Gwyn SSSI. The increase from the 2004-2006 period to the 2009-2011 period was 0.9 kgN/Ha/year, which is approximately 8 times higher than the average predicted increase at the southern basin due to the construction of the Power Station.
- 1.1.9 Whilst Horizon recognises the general point which NRW makes, that species richness does not necessarily equate to species value, the predicted changes in species richness of 0.2% and 0.1% are considered low enough to allow a robust conclusion to be made of the magnitude of potential change to the receptor. Given this, and the information presented above, Horizon considers its conclusion of potential minor adverse effects to Cae Gwyn SSSI as a result of changes in air quality to be precautionary, and is therefore appropriate.

**Figure 1-1 Nitrogen deposition at Cae Gwyn SSSI**







## Wylfa Newydd Project

### Appendix 1-11 Post Hearing Note on 140-year Site Decommissioning Appearance

PINS Reference Number: EN010007

25 March 2019

Revision 1.0

Examination Deadline 8

Planning Act 2008

Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009

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# Annexes

Annex 1-1 Reference point 6 Drawing

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# 1 Decommissioning drawing

## 1.1 Introduction

- 1.1.1 This document provides a response to a request made by the Examining Authority (ExA) during the DCO Issue Specific Hearing held on 04 March 2019, for further information on how the Wylfa Newydd Development Area would appear post decommissioning. The request was formalised in the March hearing action points issued by PINS as follows:

*“Applicant to provide an illustrative drawing of Spent Fuel Store and Intermediate Level Waste Storage buildings to show how they would sit in the landscape, be accessed and how Public Right of Ways (PRoWs) would relate to the site in the very long-term post decommissioning.”*

- 1.1.2 As stated in chapter 1 of the DCO Environmental Statement (ES) (project description) [APP-120], the details of Power Station decommissioning, scheduled to commence at the end of the 60-year operating stage, are not known at this time. However, key assumptions for decommissioning are set out in the DCO ES, including chapter D10 landscape and visual [APP-129] at section 10.4, paragraph 10.4.42 as follows:

- *“demolition and removal of all Power Station buildings and structures, with the exception of the breakwaters;*
- *the Spent Fuel Storage Facility and [Intermediate Level Waste] Storage Facility would remain in situ beyond the end of the main decommissioning activities for up to 140 years after the end of commercial operation;*
- *construction, operation and subsequent demolition of a Fuel Repackaging Facility;*
- *landscaping and restoration of remaining areas of the site following removal of all buildings and associated infrastructure.”*

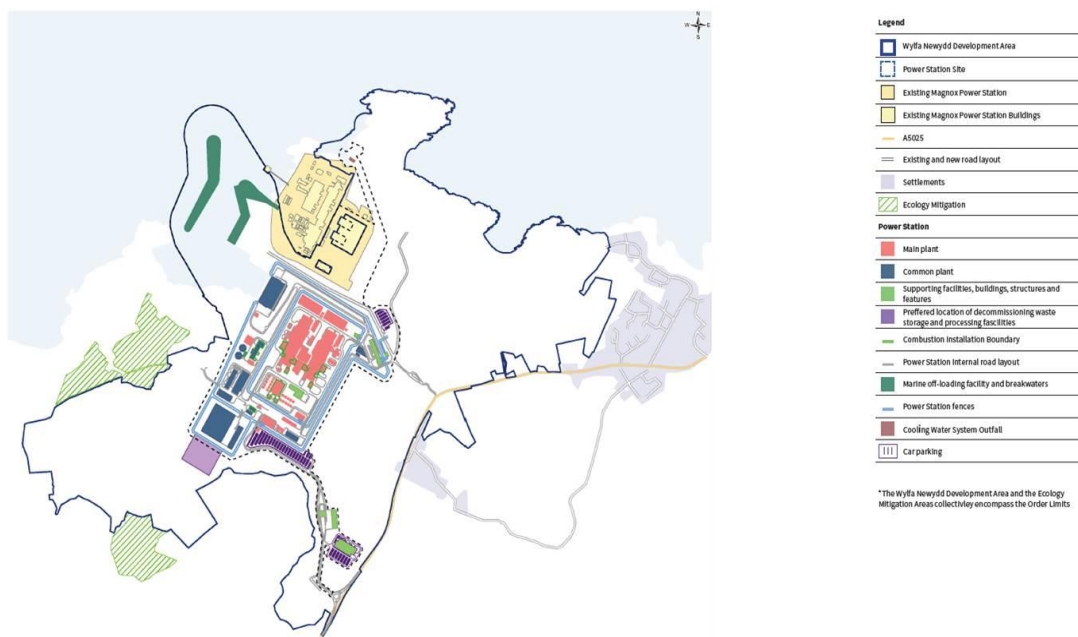
- 1.1.3 Chapter D1 of the DCO ES explains that Horizon’s strategy for decommissioning of the Power Station *“proposes prompt starting of decommissioning with a target timeframe for completion of main decommissioning activities of 20 years following the end of power generation, which would be consistent with traditional de-construction/demolition works.”* (Paragraph 1.6.234.) The Spent Fuel Storage Facility and Intermediate Level Waste (ILW) Storage Facility would remain for up to 140 years.

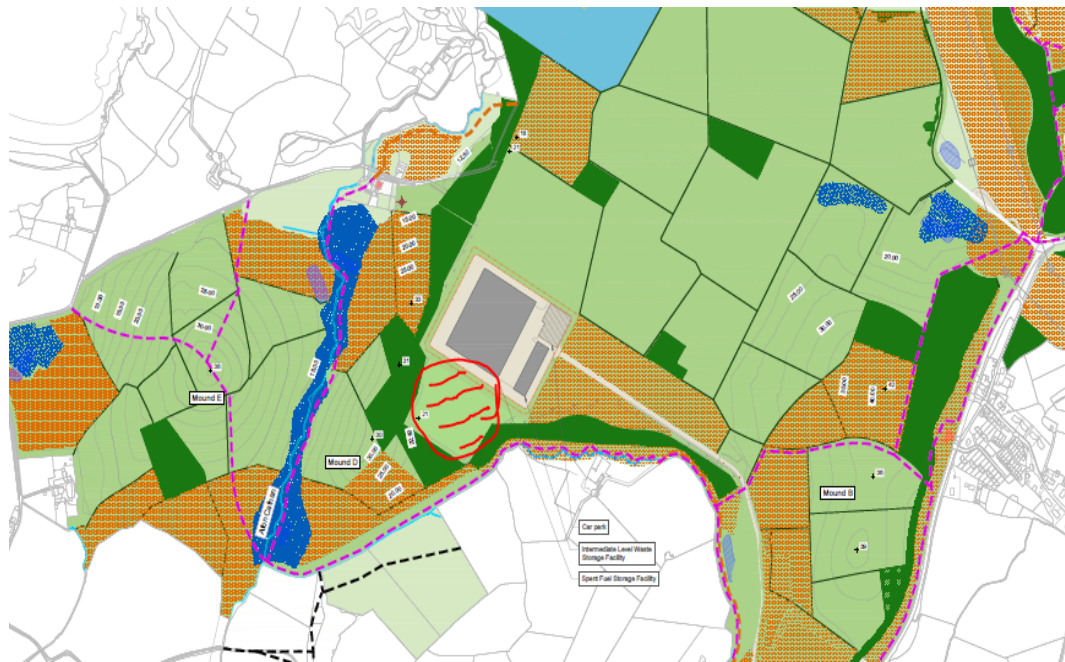
- 1.1.4 A post-decommissioning drawing has therefore been prepared to illustrate the WNDA reference point (reference point 6), following completion of the main decommissioning activities but with the Spent Fuel Storage Facility and ILW Storage Facility shown as retained. However, the post-decommissioning drawing does not show the Fuel Repackaging Facility, as it does not form part of the DCO application. A potential location for the Fuel Repackaging

Facility is shown indicatively in figure 1-3 of the Design and Access Statement Volume 2: Power Station Site, submitted at Deadline 8.

- 1.1.5 The breakwaters are also shown retained, since it is not proposed to remove these structures as part of decommissioning works.
- 1.1.6 It is recognised that the Wylfa Newydd Development Area (WYDA) would ultimately be fully cleared, comprising removal of the remaining facilities and subsequent landscape restoration. However, it is not considered necessary to provide a drawing to show the final site clearance and restoration reference point (reference point 7), as it would be very similar to post-decommissioning phase (reference point 6), but with the remaining facilities removed.
- 1.1.7 Whilst the reference point drawing shows PRoWs that will continue to exist within the WYDA post decommissioning, no new PRoWs are shown. This is because the creation of new PRoWs does not form part of the DCO application.
- 1.1.8 The PINS March hearing action points also included the following request:

*“Applicant will check purple area in D & A Statement re Spent Fuel and Intermediate Level Waste Storage buildings. Applicant to demonstrate how these buildings would be serviced in long term.”*





## 1.2 Reference point 6 drawing

- 1.2.1 The decommissioning drawing has been developed from the reference point 5 drawing included in appendix B of the Landscape and Habitat Management Strategy (LHMS), an updated version of which has been submitted at Deadline 8. As such, the post-decommissioning drawing comprises 'reference point 6' in the series.
- 1.2.2 The location and size of the Spent Fuel Storage Facility and ILW Storage Facility is the same as that shown on the Power Station Site, Site Layout Plan included in the WNDA and Power Station Site Plans (Part 1/2) [APP-014].
- 1.2.3 It has been assumed that the Spent Fuel Storage Facility and ILW Storage Facility would need to be located within a secure compound area and be accessible by a range of vehicle types, with location of access points to secure compound to be agreed at later date. It is also assumed that some parking provision would need to be retained for occasional operational use. The ancillary infrastructure likely to be required to support and secure these facilities is therefore also shown indicatively on the reference point 6 drawing, based on the layout shown in the Power Station Site, Site Layout Plan [APP-014].
- 1.2.4 The location and size of the breakwaters is taken from the reference point 5 drawing based on the conservative assumption that there may be a need for breakwaters post decommissioning. It is assumed that the skimmer wall will not be required post decommissioning as the purpose of the wall is predominately to fulfil operational requirements of the Cooling Water intake. For the purposes of preparing this drawing, it has been assumed that the

edge of the MOLF would be retained, with the adjoining area restored to coastal grassland/ 'grass mosaic'.

- 1.2.5 Landscape restoration is shown indicatively only on the reference point 6 drawing, in recognition that this will be subject to further design development when an application is made for consent for decommissioning. As explained in chapter D10 of the ES [APP-129], restoration of Power Station Site would comprise recreation of an appropriate field pattern consisting of new hedgerows planted with native plant species and areas of native woodland. DCO requirement PW10 for a Decommissioning Plan, Draft Development Consent Order [REP5-003], an updated version of which has been submitted at Deadline 8 (25 March 2019), requires that a decommissioning scheme be submitted to IACC for approval, including associated restoration works.
- 1.2.6 The purpose of the Fuel Repackaging Facility is to repackage fuel from storage casks to disposal canisters, it will therefore remain until the spent fuel is transferred off site for disposal, up to 140 years after the end of commercial operation. However, the post-decommissioning drawing does not show the Fuel Repackaging Facility. This is because although the decommissioning assumptions set out in the DCO ES include construction, operation and subsequent demolition of this facility, it does not form part of the DCO application.
- 1.2.7 Horizon would need to separately obtain consent from the Office for Nuclear Regulation and undertake a separate EIA under the Nuclear Reactors (Environmental Impact Assessment for Decommissioning) Regulations 1999 for decommissioning, including the Fuel Repackaging Facility. Horizon expects that this process would begin in the final few years prior to electricity generation ceasing.
- 1.2.8 Following clearance of Power Station buildings on the WNDA, it may be possible to route the Wales Coast Path closer to the coast. However, as this would only be possible at a date long into the future, it was not included in the assessment of effects of decommissioning on public access and recreation set out in chapter D4 of the DCO ES [APP-123]. A re-routing of the Wales Coast Path post-decommissioning, or the creation of any new PRoW is not therefore shown on the reference point 6 drawing.

## **1.3 Limitations**

- 1.3.1 The details of Power Station decommissioning are not known at this time and Horizon would need to separately obtain consent from the Office for Nuclear Regulation and undertake a separate EIA under the Nuclear Reactors (Environmental Impact Assessment for Decommissioning) Regulations 1999 for decommissioning. Horizon expects that this process would begin in the final few years prior to generation ceasing, so that the specific environmental characteristics of the environmental baseline could be fully evaluated and understood.
- 1.3.2 The reference point 6 drawing (as shown in Annex 1-1) is therefore provided for information only, to give an indication of how the WNDA could appear

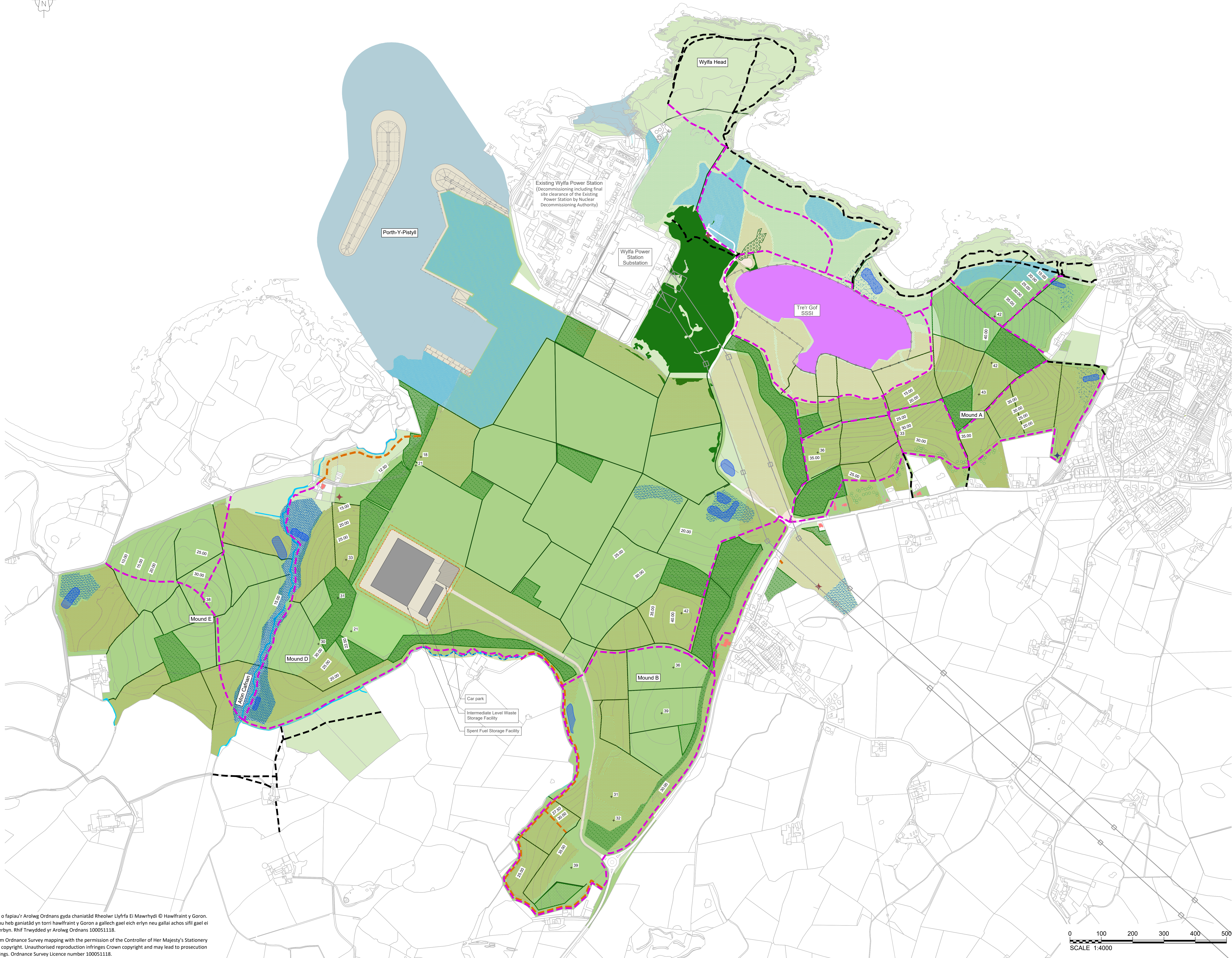
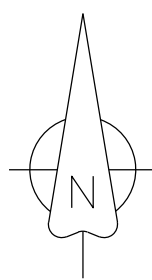


following completion of the main decommissioning works and will involve further consultation closer to decommissioning.

- 1.3.3 Buildings and ancillary infrastructure are shown indicatively only and will be subject to further design development.

## **Annex 1-1 Reference point 6 Drawing**





LEGEND

Order Limits

Existing

Cattle Fence Around Tre'r Gof SSSI

400kV Overhead Line

Existing Grassland

Woodland

Ancient Woodland

Bat Barn/ Wildlife Tower Locations

Site of Special Scientific Interest (SSSI)

Public Footpath

Existing Watercourse

Retained Buildings

Proposed

Landform Contours

Close Sward / Species Rich Grassland

Coarse Sward / Species Rich Grassland

Marshy Wet Grassland

Coastal Heath / Grass Mosaic

Broadleaf / Mixed Woodland

Scattered Tree Planting

Top of Landscape Mounding Height (Metres AOD)

New Field Boundary - stone wall / hedgerow / clawdd

Bat Barn/ Wildlife Tower Locations

Power Station Site

Power Site Legacy Buildings Retained

Public Footpath

Private Means of Access

Security Fencing

Sedimentation pond

Permanent Watercourse Realignment

1.0	MARCH 2019	FOR DCO SUBMISSION				
Rev.	Rev. Date	Purpose of revision				

ILLUSTRATIVE

HORIZON

NUCLEAR POWER

Sunrise House, 1420 Charlton Court, Gloucester Business Park, Gloucester, GL3 4AE, UK  
Freephone: 0845 300 6916 Email: [info@horizonnuclearpower.com](mailto:info@horizonnuclearpower.com)

Project

WYLFA NEWYDD  
DCO PROJECT

Drawing Title

WYLFA NEWYDD DEVELOPMENT AREA  
REFERENCE POINT 6  
POST DECOMMISSIONING

Regulation 5 (2) (o)

NOT PROTECTIVELY MARKED

Scale	1:4000	Sheet Size	A0	Sheet(s)	1 of 1
Drawing Number	WN0902-HZDCO-LFM-DRG-00106	Rev	1.0		

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## Wylfa Newydd Project

### Appendix 1-12 Post Hearing Note on Phasing Strategy

PINS Reference Number: EN010007

25 March 2019

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Planning Act 2008

Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009

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# 1 Summary

- 1.1.1 Horizon has submitted at Deadline 8 a revised Phasing Strategy with updated phasing and triggers for the delivery of the Site Campus. This document explains these changes and the other changes to the Site Campus delivery during the Examination. It also responds to and explains why the proposed changes set out in the Welsh Government's Deadline 7 Submission, Appendix B (Phasing Strategy and the delivery of the Site Campus (Temporary Worker Accommodation)) have not been adopted.

## 2 Changes to the Site Campus Delivery

- 2.1.1 Throughout the Examination process the Phasing Strategy and in particular the delivery of the Site Campus has evolved in response to comments and representations by the Examining Authority and Interested Parties.
- 2.1.2 In particular Horizon has sought to deliver the Site Campus as soon as possible, committed to a phased delivery of the Site Campus and altered the triggers to ensure delivery in accordance with the anticipated increase in construction workers. As a result of comments made at the March ISH Horizon have increased the number of beds to be delivered in Phase 1 and Phase 2. This has been done to address concerns about the risk of impacts on the community.
- 2.1.3 Horizon's position is set out in the updated Phasing strategy submitted at Deadline 8 (25 March 2019):
- Phase 1 - Deliver the first 1,500 beds of Site Campus prior to exceedance of 2,200 Non-Home-Based workers.
  - Phase 2 - Deliver a further 1,500 beds prior to exceedance of 4,200 Non-Home-Based workers and
  - Phase 3 - Deliver the final 1,000 beds prior to exceedance of 6,700 Non-Home-Based workers.
- 2.1.4 The Phasing Strategy contains an updated illustrative timeline for the delivery of the key mitigation. Based on the construction worker profile (ES, Volume C Figure [C-6] [REP [APP-088]) it is anticipated that the delivery of each Phase will be:
- Phase 1: Construction year 2, Quarter 4
  - Phase 2: Construction year 4, Quarter 2
  - Phase 3: Construction year 5, Quarter 1
- 2.1.5 In addition to the revised phasing and triggers for delivery of the Site Campus, Horizon has made the following commitments to address stakeholder comments:
- The DCO s.106 agreement secures an occupancy target on the Site Campus of 85% average occupancy over a 3-month period in order to ensure high occupancy on the Site Campus.
  - Horizon has also agreed to a larger Housing Fund with the Worker Accommodation (Capacity Enhancement) Contribution now being proposed at £13.5m, payable in three instalments - 10% prior to implementation and 45% on the first and second anniversaries of implementation. This will allow the IACC to deliver significant new capacity early in the Wylfa Newydd DCO Project.
  - Horizon has committed in the updated Phasing Strategy to provide the Site Campus Medical Centre as part of the delivery of Phase 1 of the Site Campus (i.e. deliver the first 1,000 beds of Site Campus prior to exceedance of 2,200 Non-Home-Based workers). The Site Campus

medical facility will be staffed as appropriate to provide a service to the number of patients on site.

- Horizon has committed in the updated Phasing Strategy to Phase 1 including the central amenity block.

2.1.6 Horizon considers that the above updates to the Phasing Strategy and commitments in respect of the Site Campus addresses the concerns regarding delivery of the Site Campus raised by Stakeholders.

### ***Early Delivery***

2.1.7 Horizon set out in its Deadline 4 Submission [REP4-007] the reasons why the Site Campus cannot be provided earlier than it is proposed in the Phasing Strategy. The phasing of the Site Campus is predicated on the lead-in time for the procurement, construction, installation and connection of the living units that can only be instigated following the Financial Investment Decision (FID). The current programme for procurement, design, manufacturing and installation for Phase 1 is estimated to be around 22 months.

2.1.8 Earlier delivery of Phase 1 is not possible due to the significant cost of delivery prior to FID. Phase 1 is the most complex phase as it needs to provide all infrastructure required for the full 4,000 beds: including site access road, utilities provision, and the whole of the amenity building. To instruct work earlier would commit Horizon to a substantial cost pre-FID which would be unacceptable and result in additional funding requirements.

2.1.9 Delivery of the second and third phases of the Site Campus is constrained by the standard construction sequence and standard project durations for each of the procurement, design, manufacture and installation phases. It is not good practice to change the construction sequence, squeeze construction durations or opening accommodation blocks with partial beds as it adds to the complication of making the construction area separate from the living area.

### **CMS- Welsh Government**

2.1.10 In their Deadline 7 Submission (14 March 2019) the Welsh Government have raised issues about the discrepancy between the CMS (timeslices) and the Phasing Strategy. In particular, Welsh Government reference delivery of Phase 1 at timeslice 3 in the CMS which "would imply Q1, Y2 and not Q4, Y4". It appears that there has been a misunderstanding as to the calculation of construction years being used by Horizon to ascertain the likely delivery time of Phase 1. Horizon's construction years have been based on a project construction timeline which to date had included the first two years of site preparation & clearance works under the SPC planning permission. This is different to the CMS which references the DCO indicative construction timeline (i.e. all work is done as part of the DCO following grant). Therefore, Horizon's references to an estimated delivery of Phase 1 in Year 4, Quarter 4 equates to Year 2, Quarter 4 on the CMS construction timeline. As the SPC works will not be carried out under a planning permission the updated Phasing Strategy makes it clear that the estimated delivery is based on the CMS indicative construction timeline. Figure 2.1 of the Phasing Strategy illustrates the expected delivery at Year 2, Quarter 4.

- 2.1.11 In respect of any discrepancy between the indicative construction timeline suggesting delivery of Phase 1 at Year 2, Quarter 1 and Year 2, Quarter 4 Horizon would like to emphasise that the CMS construction timeline is indicative as are the timeslices and related drawings in the CMS.
- 2.1.12 Since the submission of the DCO application there has been further work done to look at the delivery programme for Phase 1 (including the medical centre and central amenity block). This work plus the changes to the delivery of the Site Campus to meet stakeholder concerns mean that the expected delivery of Phase 1 is now Year 2, Quarter 4.
- 2.1.13 From an environmental perspective Horizon are confident that the updated Phasing Strategy remains within the parameters of the Environmental Statement. In particular, the updated Phasing Strategy delivers the Site Campus in 3 phases as assessed in the Environmental Statement and the triggers for delivery are aligned with the workforce profile to ensure that we do not breach 3,000 Non Home Based workers in the community. Based on previous sensitivity tests conducted and the assessment of worst-case scenarios, the assessments in the Environmental Statement have a low sensitivity to changes in the phasing of the Site Campus. As such, the refined expected dates of the delivery of the Phases of the Site Campus are not expected to change the outcome of the assessment in the Environmental Statement or require additional mitigation.

### ***Blasting and Environment***

- 2.1.14 In their Deadline 7 Submission (14 March 2019) Welsh Government have suggested that the Site Campus could be occupied during blasting provided occupancy was restricted to day workers.
- 2.1.15 As stated above the earliest that Phase 1 can be delivered is 22 months. The Environmental Statement has assessed a worst-case scenario in relation to blasting which includes assuming that blasting is undertaken up until First Nuclear Concrete for Unit 1, approximately Year 3, Quarter 1 on the indicative construction timeline. On this basis there could theoretically be some overlap with construction workers residing in the Site Campus and finalisation of blasting operations. In reality, it is expected that blasting operations would finish well in advance of FNC for Unit 1 and therefore any overlap will be minimal or non-existent. In addition, the Licence Conditions 19 hold point control procedure, which will be approved by ONR, will further constrain FNC Unit 1 until completion of blasting activities. This is an essential requirement to mitigate against the risk of impacting the integrity of the newly placed concrete. This hold point essentially constrains the ramp up of the post earthworks workforce as no activity can progress until ONR agree the Hold Point Release conditions have been achieved. (one of which will be completion of blasting).
- 2.1.16 As suggested by Welsh Government in their Deadline 7 Submission, if in the extremely unlikely event of there being any overlap of blasting and construction workers residing in the Site Campus, measures could be taken to minimise disturbance, including reduction in blast size/intensity, occupation



only by day workers and / or allocating rooms in the Site Campus so that early residents are located further away from blasting activities.

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