

HORIZON

NUCLEAR POWER



Wylfa Newydd Project

Illustrative Construction Visualisations

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1 Methodology for illustrative construction visualisations

1.1 Introduction

- 1.1.1 Illustrative construction visualisations have been prepared to address comments received from the Isle of Anglesey County Council (IACC) through the statement of common ground (SOCG) process, as well as in their Local Impact Report (LIR) [REP2-077] and their responses to the Examining Authority's First Round of Written Questions [REP2-153].
- 1.1.2 Illustrative construction visualisations have been prepared with reference to the guidelines set out in *Photography and photomontage in landscape and visual impact assessment (Advice Note 01/11)* [RD1]. The purpose of the illustrative construction visualisations is to provide an indication of how the Wylfa Newydd Development Area may appear during Main Construction of the Power Station. As the positions of plant, cranes, temporary buildings and structures will vary throughout the period, the illustrative visualisations can only be indicative; however, maximum parameter envelopes have been used to indicate worst case envelopes within which key construction activities could be visible, as well as views of tall plant seen above parameter envelopes such as cranes. As explained in section 1.3, the illustrations are based upon construction within all parts of the site happening concurrently to illustrate the worst case scenario at the peak of construction activity. However, in reality construction activities would be phased and the actual visual impact at any given time is therefore likely to be less than that illustrated.
- 1.1.3 As the construction landform would progressively change to form the operational mounding, two versions of each photomontage have been produced to illustrate the construction landform as a transparent and a solid layer in order to reflect both visibility prior to its formation, as well as its screening effect once completed.
- 1.1.4 All illustrative construction visualisations show winter views for worst case visibility (as deciduous vegetation is without leaf cover and screening is therefore limited), with a small number of views also illustrated during the summer to give an indication of seasonal variation. The effectiveness of planting mitigation during construction has not been illustrated, in order to indicate the worst case before any early planting has taken place and establishes.
- 1.1.5 The illustrative construction visualisations have been prepared using the best available information at the time of preparation and reflect the 'worst case' to supplement the photomontages in appendix D10-8 of the Environmental Statement (ES) (photomontage views) [APP-199], which show views of the Power Station during operation.

- 1.1.6 Further detailed design development would be undertaken following the grant of Development Consent Order, including the architectural treatment and colour scheme for the Site Campus accommodation blocks, other temporary buildings and the selection of material finishes for the breakwaters. The assumptions used for illustrating these features during construction are set out below in section 1.3.
- 1.1.7 The viewpoint locations for the illustrative construction visualisations have been selected to illustrate the effect of construction on local, middle-distance and distant views across a broad geographical range within the landscape and visual study area. The selection of viewpoints has considered comments received from the IACC, as summarised in table 1-1. Whilst not including every viewpoint requested by the IACC, it is considered that the selection of viewpoints provides a more comprehensive set of construction visualisations than that requested, with a broader range of viewpoints illustrating the effects on a wider range of receptors.

Table 1-1 IACC observations regarding construction visualisations

IACC observations	How these observations have been addressed in the selection of illustrative construction visualisation viewpoints
General observations made through the SOCG process regarding construction effects on the Isle of Anglesey Area of Outstanding Natural Beauty (AONB) and visual receptors in Cemaes and Tregele.	<p>Eight illustrative construction visualisations at representative viewpoint locations have been prepared to provide an indication of views during the construction period, including four viewpoints within the Isle of Anglesey AONB. The illustrative construction visualisation from Viewpoint 16 is representative of views from the western edge of the settlement of Cemaes.</p> <p>At the request of the IACC, a wireline construction visualisation has been separately prepared from a representative viewpoint (Viewpoint 18) to illustrate the screening effect of construction and operational landscape mounding adjacent to Tregele which it is intended to separately submit into Examination. It is not therefore considered necessary to provide an illustrative construction visualisation from the community of Tregele in order to understand the assessment of visual effects during construction.</p>

IACC observations	How these observations have been addressed in the selection of illustrative construction visualisation viewpoints
<p>Observation made through the SOCG process that <i>“Significant construction period visual impacts are assessed at all 11 viewpoints sited on the WCP [Wales Coat Path] and these should be represented in montages to demonstrate the significant adverse effect at that stage”</i>.</p>	<p>It is not considered necessary to provide illustrative construction visualisations from all of the viewpoints on the WCP in order to understand the assessment. Illustrative construction visualisations have been prepared for Viewpoints 9, 29 and 27 in order to respectively provide examples of middle-distance views from the WCP approaching from the west and the east, as well as a close-range view.</p>
<p>Observation in paragraph 3.2.10 of Chapter 17 of IACC’s Local Impact Report (LIR) [REP2-077] that <i>“no viewpoint visualisations have been produced that show the visual impacts during the construction period which would help in developing additional on-site or off-site mitigation and compensation measures”</i>, with specific reference made to the “two communities” (Cemaes and Tregele) in paragraph 3.4.7b.</p>	<p>Eight illustrative construction visualisations at representative viewpoint locations have been prepared to provide an indication of views during the construction period. The viewpoints have been selected to represent a range of views at different distances within the study areas, including views from the AONB and Parys Mountain SLA.</p> <p>The illustrative construction visualisation from Viewpoint 16 is representative of views from the western edge of the settlement of Cemaes. It is not considered necessary to provide an illustrative construction visualisation from the community of Tregele for the reasons set out above.</p>

IACC observations	How these observations have been addressed in the selection of illustrative construction visualisation viewpoints
<p>Observations in the IACC response to Examining Authority's First Round of Written Questions [REP2-153] FWQ7.0.1:</p> <p>"At the WNDA IACC object to the omission of images representing the construction period given its longevity and the intensity and spatial extent of the construction activities... For the visual impact assessment this statement is especially relevant to residential visual receptors in properties in parts of Tregle and Cemaes."</p> <p>"IACC acknowledge that visualisations of the Site Campus are provided in the Appendix 1-2 of Volume 3 of the Design and Access Statement [REP2-029]. IACC recommend that these are supplemented by photomontage visualisations showing the fully operational Site Campus during the construction period. Photomontages are to be provided from:</p> <ul style="list-style-type: none"> • Representative Viewpoint 10: Wyfla Head; • Representative Viewpoint 13: Wales Coast Path at Penrhyn; and • Representative Viewpoint 11: Porth Llanbadrig." 	<p>Eight illustrative construction visualisations at representative viewpoint locations have been prepared to provide an indication of views during the construction period. The viewpoints have been selected to represent a range of views at different distances within the study areas.</p> <p>The illustrative construction visualisation from Viewpoint 16 is representative of views from the western edge of the settlement of Cemaes. It is not considered necessary to provide an illustrative construction visualisation from the community of Tregle for the reasons set out above.</p> <p>Figure 30 of appendix 1-2 (Site Campus) of volume 3 of the Design and Access Statement 9 [REP2-029] already illustrates views of the Site Campus from Wylfa Head (similar to Viewpoint 10). It is therefore not considered necessary to provide an illustrative construction visualisation from Viewpoint 10. As Viewpoint 10 provides a worse case view of the Site Campus, due to its proximity, it is not therefore considered necessary to also provide an illustrative construction visualisation from Viewpoint 13.</p> <p>The illustrative view of the Site Campus shown on the front cover of appendix 1-2 (Site Campus) of volume 3 of the Design and Access Statement 9 [REP2-029] already illustrates the views of the Site Campus from Llanbadrig Point (similar to Viewpoint 11). The illustrative visualisation from Viewpoint 29 provides another example of a view towards the Site Campus from a scenic part of the Wales Coast Path, approaching the Wylfa Newydd Development Area from the east.</p>

IACC observations	How these observations have been addressed in the selection of illustrative construction visualisation viewpoints
<p>Observations in the IACC response to Examining Authority's First Round of Written Questions FWQ7.0.2 and more specifically in the full response in appendix 2B [REP2-157]:</p> <p>"IACC acknowledges that visualisations of the Site Campus are provided in the Appendix 1-2 of Volume 3 of the Design and Access Statement [REP2-029]. IACC recommends that these are supplemented by photomontage visualisations showing the fully operational Site Campus [in views from Representative Viewpoints 10, 11 and 13]... These three representative viewpoints have been selected as visual receptors at these locations will have open, close and middle distance views that will not benefit from screening subsequent to the formation of Mounds A-E."</p> <p>"...the absence of any form of visualisations for the early construction period [for the communities of Cemaes, Tregele and Llanfairynghornwy] when the magnitude of visual change will be greatest."</p>	<p>As explained above, views from Wylfa Head (similar to Viewpoint 10) and Llanbadrig Point (similar to Viewpoint 11) are already included in appendix 1-2 (Site Campus) of volume 3 of the Design and Access Statement 9 [REP2-029] and it is not therefore considered necessary to also provide an illustrative construction visualisation from Viewpoint 13. The illustrative visualisation from Viewpoint 29 provides another example of a view towards the Site Campus from a scenic part of the Wales Coast Path, approaching the Wylfa Newydd Development Area from the east.</p> <p>The illustrative construction visualisation from Viewpoint 16 is representative of views from the western edge of the settlement of Cemaes. It is not considered necessary to provide an illustrative construction visualisation from the community of Tregele for the reasons set out above.</p> <p>It is also not considered necessary to provide an illustrative construction visualisation from the community of Llanfairynghornwy, which is located more than 1.5km from the Wylfa Newydd Development Area, in order to understand the assessment of visual effects, as views of the Existing Power Station in the baseline view at Viewpoint 8 and illustrative construction visualisations prepared from other viewpoints help to understand which part of the view would be affected by Power Station construction and the scale of those activities at that distance.</p>

- 1.1.8 Table 1-2 sets out further detail regarding the rationale for the selection of each viewpoint.
- 1.1.9 The numbering of the illustrative construction visualisation viewpoints matches the relevant representative viewpoint numbers in appendix D10-4 of the ES (representative viewpoints) [APP-195] and is not therefore continuous. The viewpoint locations are illustrated on figures D10-14

(overarching study area), figure D10-15 (detailed study area) and figure D10-16 (local landscape context) [APP-237].

Table 1-2 Illustrative construction visualisation viewpoint selection

Viewpoint name and number	Rational for selection of viewpoint
Viewpoint 1 View north-west from trail on Parys Mountain	Viewpoint selected to illustrate the effect of construction on distant views from elevated ground within Parys Mountain and Slopes Special Landscape Area for visitors to Parys Mountain.
Viewpoint 7 View north-east from William Thomas Monument at Mynydd y Garn	Viewpoint selected to illustrate the effect of construction on middle distance views from elevated ground within the Isle of Anglesey AONB for visitors to the William Thomas Monument and users of open access land.
Viewpoint 9 View east from Wales Coast Path at Carmel Head	Viewpoint selected to illustrate the effect of construction on middle-distance views from the WCP within the Isle of Anglesey AONB, approaching the Wylfa Newydd Development Area from the west.
Viewpoint 16 View west from public footpath at western edge of Cemaes	Viewpoint selected to illustrate effect of construction, including cranes on the skyline, in local views of the community in Cemaes and users of the local PROW network.
Viewpoint 17 View west from A5025 by Covelly	Viewpoint selected to illustrate the effect of construction on local views from A5025.
Viewpoint 20 View north-west from minor road approaching Tregele	Viewpoint selected to illustrate the effect of construction on local views from the local road network and the community on the south-western fringe of Tregele.
Viewpoint 27 View east from Wales Coast Path near Cerrig Brith	Viewpoint selected to illustrate the effect of construction, including Marine Works, on local views from the WCP within the Isle of Anglesey AONB.
Viewpoint 29 View west from Wales Coast Path	Viewpoint selected to illustrate the effect of construction, including the Site Campus, on middle-distance views from the WCP within the Isle of Anglesey AONB, approaching the Wylfa Newydd Development Area from the east.

1.2 Viewpoint photographic survey

- 1.2.1 For details of how the baseline photographs have been recorded and stitched together to form a panoramic view, reference should be made to the methodology in appendix D10-8 of the ES [APP-199].

1.3 Visualisation assumptions

- 1.3.1 The illustrations are based upon the assumption that construction within all parts of the site would happen concurrently to illustrate the worst case scenario at the peak of construction activity, whereas in reality the construction activities would be phased, as set out in the Construction Method Statement [APP-136] and therefore actual visual impact at any given time is likely to be less than that shown in the illustrative construction visualisations. The assumptions used are consistent with the visual assessment presented in chapter D10 of the ES (landscape and visual) [APP-129].

Cranes

- 1.3.2 With the exception of the three very heavy lift cranes, all cranes have been illustrated in white. This reflects the intention, where practicable, to use cranes with a visually recessive colour when seen against a typical sky colour to mitigate visual impact. The three very heavy lift cranes have been illustrated in red to reflect potential worst case visual impact.
- 1.3.3 Four types of cranes are illustrated in the visualisations as follows:
- Two very heavy lift cranes, including one shown fully extended to the maximum height stated in in paragraph 1.6.97 of chapter D1 of the ES (proposed development) [APP-120] (270m height) and one extended further horizontally. The cranes are located in the vicinity of the proposed reactor building locations. A bespoke model has been created, based upon a typical very heavy lift crane. The two very heavy lift cranes have been coloured red to illustrate the worst case visibility.
 - One mobile very heavy lift crane shown fully extended to the maximum height stated in in paragraph 1.6.97 of chapter D1 of the ES [APP-120] (220m height). For each viewpoint, the crane has been positioned in one of the locations used for the Zone of Theoretical Visibility assessment points for the mobile heavy lift crane on figure D10-1 of the ES [APP-237], using whichever would be the 'worst case' for the relevant view. An off the shelf model (Liebherr LR1160) has been used to illustrate this crane, adjusting the scale of the crane to the correct height. The crane has been coloured red to illustrate the worst case visibility.
 - 40 tower cranes have been illustrated, using two crane types as follows:

- Luffing cranes with one third of the total number (total 21) fully extended to the maximum tower crane height stated in paragraph 1.6.97 of chapter D1 of the ES [APP-120] (192m height), one third partially extended to a height of 150m and one third partially extended to a height of 100m; This is to reflect realistic worst case and the practical constraints to operating adjacent cranes at similar heights, taking boom swing into consideration. A minimum of one luffing crane is positioned within each construction zone where tower cranes are proposed: C2, C4, C5, C7, C8, C9, C10 and C11, with a greater number shown within zone C7 (as this is where the construction of the majority of Power Station buildings and structures are proposed). A bespoke model has been created, based upon a typical luffing crane.
- Saddle jib cranes illustrated at three varying heights below the maximum tower crane height stated in in paragraph 1.6.97 of chapter D1 of the ES [APP-120], in order to reflect that there would be cranes at different heights (70m, 110m and 150m heights used). A minimum of one saddle jib crane is positioned within each construction zone where tower cranes are proposed: C2, C4, C5, C7, C8, C9, C10 and C11, with a greater number shown within zone C7. An off the shelf model (Liebherr 280) has been used to illustrate this crane, adjusting the scale of the crane to the correct height.
- 2 mobile harbour cranes have been illustrated using an off the shelf model (Liebherr LR1160), adjusted to have a boom of 91m height. (This is based upon the height of the second largest mobile crane listed for the Marine Works in appendix D6-1 of the ES [APP-142], because the mobile very heavy lift crane is considered representative of the largest mobile crane to be used for the Marine Works.)

Plant and vehicles

- 1.3.4 Typical plant likely to be used for construction of the Power Station have been illustrated using off the shelf 3D models. These only provide examples of the type of construction plant likely to be used (the names in brackets are the names of the models, not specific proposed plant):
- excavator (Komatsu PC450-8);
 - caterpillar tractor (Liebherr 764);
 - wheeled loader (988h Loader);
 - articulated dumper truck (Komatsu HM400-1 ADT); and
 - concrete remixer (Mercedes Acro Mixer).
- 1.3.5 The plant has been positioned throughout the building platform, laydown areas and proposed landscape mounding locations in order to illustrate the

appearance and scale of a busy construction site. All plant is shown in yellow, as this is a typical colour of construction plant.

- 1.3.6 Large dredgers and barges have been illustrated within the dredge areas at Porth-y-pistyll indicated on figure D1-12 of the ES [APP-237]. The dredger is based on an off the shelf model with the scale and colours of the dredger adjusted (white with a yellow excavator). The barge is based upon an off the shelf model, with the scale adjusted and a spoil heap added to the deck (to illustrate material excavated by the dredger and offloaded onto the barge). A barge is also illustrated approaching Porth-y-pistyll, to illustrate transport barges.
- 1.3.7 The concrete batching plant has been modelled with 5 bespoke batching plant models with a height of up to 26m Above Ordnance Datum (AOD) for the main plant and up to 11mAOD for the bulk conveyor system in line with paragraphs 1.9.22 to 1.9.23 of chapter D1 of the ES [APP-120].
- 1.3.8 In addition, a selection of typical cars and vans has been illustrated within the carpark, using off the shelf models.

Temporary buildings and structures

- 1.3.9 The Site Campus accommodation blocks are illustrated to the maximum parameter heights listed in table WN20 of Schedule 3 of the Draft DCO [REP2-020] and in table D1-11 of chapter D1 of the ES [APP-120], and to the maximum number of storeys proposed. The model of the blocks is based upon the model (Site Campus Model.max) used to generate visualisations in the Design and Access Statement, Appendix 1-2 (Site Campus) [REP2-029]. The buildings have been positioned upon the existing landform. The colour and texture finish of the accommodation blocks is the same as that used for the illustrations in Volume 3 of the Design and Access Statement, Appendix 1-2 (Site Campus) [REP2-029] which accord with the additional mitigation measure listed in table D10-40 of chapter D10 of the ES [APP-129] and the building design principle 3.4.31 for the Site Campus, which requires visually recessive natural colours and materials to be used and is secured by requirement WN19 (2) of Schedule 3 of the Draft DCO [REP2-020].
- 1.3.10 Other temporary buildings, including site offices are illustrated to the maximum parameter height of temporary construction buildings and facilities within the relevant construction zones, as set out in table D1-4 of chapter D1 of the ES [APP-120]. The site offices locations may change and are illustrated as simple block shapes, extruded at the locations of site offices indicated in appendix D1-1 of the Construction Method Statement, Time Slice 4 to 8 [APP-136]. The site offices are represented on the visualisation images with a basic texture palette, where all buildings are set to a grey finish.

Marine Off-loading Facility and breakwaters

- 1.3.11 The Marine Off-loading Facility and breakwaters have been illustrated in the same way as for the operational photomontages in appendix D10-8 of the

ES [APP-199], using a plain grey colour to represent a concrete finish (Marine Off-loading Facility and breakwaters model, May 2017). The maximum height of the proposed breakwaters accords with the heights set out in table WN26A of Schedule 3 of the Draft DCO [REP2-020] and in table D1-10 of chapter D1 of the ES [APP-120] and are as follows:

- western breakwater: 14m AOD; and
- eastern breakwater: 13m AOD.

1.3.12 In addition, the temporary causeway and cofferdam has been modelled based upon the layout on figure D1-12 of the ES [APP-237]. These features are also shown in a grey colour to represent a concrete finish.

Laydown areas and building platforms

1.3.13 The layout and height of the laydown areas has been modelled based upon the illustrative reference point 3 drawing in the Landscape and Habitat Management Strategy [REP2-039]. The laydown areas are shown in a grey finish to represent areas of hardstanding.

1.3.14 The layout of the building platforms has been modelled based upon the illustrative reference point 3 drawing in the Landscape and Habitat Management Strategy [REP2-039], to the maximum platform level AOD heights noted in table WN5 of Schedule 3 of the Draft DCO [REP2-020] and shown on figure D1-9 of the ES [APP-237]. The laydown areas are shown in a grey finish to represent areas of hardstanding.

Earthworks

1.3.15 Areas of construction landform earthworks for proposed landscape mounding are illustrated in two ways:

- Series W: To indicate worst case with 'exposed soil' on construction landforms, using a transparent brown fill overlay to indicate the screening effect of temporary construction landforms (illustrated to maximum potential height) prior to seeding; and
- Series R: To indicate realistic worst case with temporary seeding of construction landforms, using an opaque green fill to indicate proposed mitigation for temporary construction landforms (illustrated to maximum potential height) and their screening effect once seeded.

1.3.16 To model the construction landform to the maximum potential height, the indicative operational landscape mound modelling has been modified to increase the crest height of each mound to the maximum construction landform parameter heights.

1.3.17 The maximum parameter height of the construction landform within areas of proposed landscape mounding is as set out in tables WN2A and WN2B of Schedule 3 of the Draft DCO [REP2-020] and in table D1-4 of chapter D1 of the ES [APP-120], as follows:

- east mound (Mound A) between the Power Station and Cemaes within construction zone C1: up to 45m AOD;
- south-east mound (Mound B) between the Power Station and Tregele within construction zone C2: up to 45m AOD;
- eastern face of the south-east mound adjacent to A5025 and Tregele (Mound B) within construction zone C3; up to 50m AOD;
- south mound (Mound C), south of the proposed Power Station access road within construction zone C4: up to 40m AOD;
- south-west mound (Mound D) between the Power Station and Afon Cafnan watercourse within construction zone C5: up to 35m AOD; and
- west mound (Mound E) between Afon Cafnan and Nanner Road within construction zone C6: up to 40m AOD.

1.3.18 The indicative landscape mounding, portrayed by the dark green dashed line, has been modelled based upon the indicative operational landscape mounding design, as shown in the illustrative reference point 5 drawing in the Landscape and Habitat Management Strategy [REP2-039].

Sedimentation ponds and dosing equipment

1.3.19 The sedimentation ponds have been modelled in the locations indicated on the illustrative reference point 3 drawing in the Landscape and Habitat Management Strategy [REP2-039]. The dosing equipment has been illustrated as simple block structures with a white colour finish. Between one two three dosing equipment units are illustrated depending on the size of the ponds.

Perimeter construction fence

1.3.20 The perimeter construction fence has been modelled as a 2m high grey weldmesh construction fence around the perimeter of the Wylfa Newydd Development Area, with the exception of areas facing the sea at Porth-y-pistyll.

Parameter envelopes

1.3.21 To illustrate the maximum parameters during construction, a series of 3D models have been generated representing their respective heights.

1.3.22 The parameters listed below have been colour coded and displayed as dashed lines over the fixed design visualisations (winter views), in order to illustrate the maximum extent within which the various elements could be constructed. The colour coding of each parameter is set out below and also summarised in the notes on the illustrative construction visualisation sheets. Where existing foreground features to be retained lie in front of proposed construction activities, dashed lines used to illustrate parameters have been masked out. The only exceptions to this are the building platform levels,

which have been displayed wherever the building parameter line is visible, to help convey proposed building ground levels.

1.3.23 Parameter envelopes are illustrated as follows:

- The maximum potential height of the Site Campus accommodation blocks are illustrated with a cyan dashed line (one overarching parameter envelope for the Site Campus has been generated based upon the parameter envelopes of individual blocks).
- The maximum potential height of the Power Station buildings and the maximum geographical extent that buildings could be sited within is illustrated with a red dashed line.
- The maximum potential building platform heights are shown with a grey dashed line. (The same modelling as for the operation photomontages has been used. Therefore, please refer to appendix D10-8 of the ES [APP-199] for assumptions.)
- The maximum potential height of the MOLF breakwaters is shown with a yellow dashed line. (The same modelling as for the operation photomontages has been used. Therefore, please refer to appendix D10-8 of the ES [APP-199] for assumptions.)

1.3.24 The maximum parameter height of the Site Campus accommodation blocks is based upon the maximum parameter construction landform height of zone C11, as set out in table WN2B of Schedule 3 of the Draft DCO [REP2-020] and in table D1-4 of chapter D1 of the ES [APP-120], added to the maximum parameter height of the accommodation blocks, as set out in table WN20 of Schedule 3 of the Draft DCO [REP2-020] and in table D1-11 of chapter D1 of the ES [APP-120].

1.3.25 The building parameters were defined by parameter zones, with the maximum height derived from the tallest building within each zone. The resulting 'envelope' was modelled to illustrate the maximum extent of buildings and structures within each zone, including the various stacks proposed. Parameter building heights range from 22m AOD to 67m AOD, in line with table D1-2 of chapter D1 of the ES [APP-120].

1.4 Visualisation creation

- 1.4.1 3D models of the various features set out above were aligned to Ordnance Survey co-ordinates along with the camera viewpoint positions in the 3D modelling package, 3D Studio Max. The models provided were set at the correct AOD height which meant the features could be placed accurately within the view.
- 1.4.2 The information from the viewpoint photographs was placed into the 3D software and the AutoCAD information was used to correctly orientate the camera.

- 1.4.3 A 3D model was assembled based upon the assumptions set out above. Once the final output from the 3D software was generated it was then overlaid onto the original background photograph in Photoshop. Any foreground elements that may obscure the proposals were then layered back over the top of the rendered image to provide a representative image of the visual impact of the Power Station.
- 1.4.4 Given the inclusion of a lighting system in the production of the visualisations, the colour values of the buildings and structures vary due to highlights and shading. The illustrations of the proposed buildings and structures is intended to convey three-dimensional form and is not intended to illustrate the final colour choice for these features, which as noted above would be the subject of on-going design development following grant of a Development Consent Order (DCO).
- 1.4.5 For each visualisation viewpoint, two images have been prepared as follows:
- the existing winter baseline ('before') view;
 - an construction view during winter;
- 1.4.6 Selected viewpoints show a further construction view during summer to illustrate the effect of seasonal variation. The selection of summer views matches those photomontages which include summer views in appendix D10-8 of the ES [APP-199].
- 1.4.7 The final visualisations have been sized so that the image gives an accurate representation when held at a certain distance from the eye. The visualisation sheet displays information on the size of sheet and the distance from the eye that the image should be held in order to give an accurate representation (RD1, paragraph 5.2).

1.5 Limitations

- 1.5.1 Refer to general limitations set out in appendix D10-8 of the ES [APP-199].
- 1.5.2 It should also be noted that the illustrative construction visualisations are indicative only and intended to illustrate examples of typical cranes, plant and other main construction features likely to be present during Main Construction. The illustrative construction visualisations are provided for information only.

1.6 References

Table 1-3 Schedule of references

ID	Reference
RD1	Landscape Institute, March 2011. Photography and Photomontage in Landscape and Visual Impact Assessment. Landscape Institute Advice Note 01/11.

EXISTING VIEW



ILLUSTRATIVE CONSTRUCTION VISUALISATION



VIEWPOINT 1

View north-west from trail on Parys Mountain

Date of photograph: 20/11/2018
Time of photograph: 09:40
Lighting conditions: Cloudy, Windy
OS grid reference: 243865, 390420
Viewpoint ground elevation: 126.983m
Camera height above ground level: 1.5m
Camera type: Canon EOS 5D
Camera lens size: 50mm
Aperture: f.11
ISO: 200
Shutter speed: 1/250
Horizontal angle of view: 80°

Notes

1. This illustrative construction visualisation is for illustrative purposes only and has been prepared in accordance with the methodology set out in this document.

2. The type and positions of cranes and plant illustrated are indicative only and will change as construction progresses.

3. Further design development would be undertaken post grant of Development Consent Order, including the selection of colour and materials for the Site Campus, and the selection of material finishes for the Marine Off-loading Facility and breakwaters.

4. The dashed lines indicate the maximum parameter envelopes for; buildings (red), marine (yellow), building platform level (grey) and Site Campus accommodation blocks (cyan). The maximum parameter height for the construction landform level in landscape mound locations is indicated with a brown transparent fill.

5. The dashed dark green line indicates the indicative operational landform mounding.

6. Viewpoint surveyed using GPS unit.

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

								Drawing title ILLUSTRATIVE CONSTRUCTION VISUALISATIONS WNDA DEVELOPMENT VIEWPOINT 1		
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							HORIZON NUCLEAR POWER			
Project							WYLFA NEWYDD PROJECT ENVIRONMENTAL STATEMENT			
							Drawing No. 60PO80AG_DCO_VOL_D_ICV_V01-W			
							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



ILLUSTRATIVE CONSTRUCTION VISUALISATION



VIEWPOINT 1

View north-west from trail on Parys Mountain

Date of photograph: 20/11/2018
Time of photograph: 09:40
Lighting conditions: Cloudy, Windy
OS grid reference: 243865, 390420
Viewpoint ground elevation: 126.983m
Camera height above ground level: 1.5m
Camera type: Canon EOS 5D
Camera lens size: 50mm
Aperture: f.11
ISO: 200
Shutter speed: 1/250
Horizontal angle of view: 80°

Notes

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2. The type and positions of cranes and plant illustrated are indicative only and will change as construction progresses.

3. Further design development would be undertaken post grant of Development Consent Order, including the selection of colour and materials for the Site Campus, and the selection of material finishes for the Marine Off-loading Facility and breakwaters.

4. The dashed lines indicate the maximum parameter envelopes for; buildings (red), marine (yellow), building platform level (grey) and Site Campus accommodation blocks (cyan). The maximum parameter height for the construction landform level in landscape mound locations is indicated with a green opaque fill.

5. The dashed dark green line indicates the indicative operational landform mounding.

6. Viewpoint surveyed using GPS unit.

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

								Drawing title ILLUSTRATIVE CONSTRUCTION VISUALISATIONS WNDA DEVELOPMENT VIEWPOINT 1		
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							HORIZON NUCLEAR POWER			
Project							WYLFA NEWYDD PROJECT ENVIRONMENTAL STATEMENT			
							Drawing No. 60PO80AG_DCO_VOL_D_ICV_V01-R			
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EXISTING VIEW



ILLUSTRATIVE CONSTRUCTION VISUALISATION



VIEWPOINT 7

View north-east from William Thomas Monument at Mynydd y Garn

Date of photograph: 16.03.2016

Time of photograph: 11:15

Lighting conditions: Cloudy, Very Windy

OS grid reference: 231498, 390682

Viewpoint ground elevation: 169.775m

Camera height above ground level: 1.5m

Camera type: Canon EOS 5D

Camera lens size: 50mm

Aperture: f.11

ISO: 200

Shutter speed: 1/250

Horizontal angle of view: 80°

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5. The dashed dark green line indicates the indicative operational landform mounding.

6. Viewpoint surveyed using GPS unit.

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

								Drawing title ILLUSTRATIVE CONSTRUCTION VISUALISATIONS WNDA DEVELOPMENT VIEWPOINT 7		
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							HORIZON NUCLEAR POWER			
Project							WYLFA NEWYDD PROJECT ENVIRONMENTAL STATEMENT			
							Drawing No. 60PO80AG_DCO_VOL_D_ICV_V07-W			
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EXISTING VIEW



ILLUSTRATIVE CONSTRUCTION VISUALISATION



VIEWPOINT 7

View north-east from William Thomas Monument at Mynydd y Garn

Date of photograph: 16.03.2016

Time of photograph: 11:15

Lighting conditions: Cloudy, Very Windy

OS grid reference: 231498, 390682

Viewpoint ground elevation: 169.775m

Camera height above ground level: 1.5m

Camera type: Canon EOS 5D

Camera lens size: 50mm

Aperture: f.11

ISO: 200

Shutter speed: 1/250

Horizontal angle of view: 80°

Notes

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5. The dashed dark green line indicates the indicative operational landform mounding.

6. Viewpoint surveyed using GPS unit.

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

								Drawing title ILLUSTRATIVE CONSTRUCTION VISUALISATIONS WNDA DEVELOPMENT VIEWPOINT 7		
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							HORIZON NUCLEAR POWER			
Project							WYLFA NEWYDD PROJECT ENVIRONMENTAL STATEMENT			
							Client No. -			
							Drawing No. 60PO80AG_DCO_VOL_D_ICV_V07-R			
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EXISTING VIEW



ILLUSTRATIVE CONSTRUCTION VISUALISATION



VIEWPOINT 9

View east from Wales Coast Path at Carmel Head

Date of photograph: 16.03.2016
Time of photograph: 12:20
Lighting conditions: Cloudy, Windy
OS grid reference: 229820, 392852
Viewpoint ground elevation: 14.847m
Camera height above ground level: 1.5m
Camera type: Canon EOS 5D
Camera lens size: 50mm
Aperture: f.11
ISO: 200
Shutter speed: 1/125
Horizontal angle of view: 80°

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5. The dashed dark green line indicates the indicative operational landform mounding.

6. Viewpoint surveyed using GPS unit.

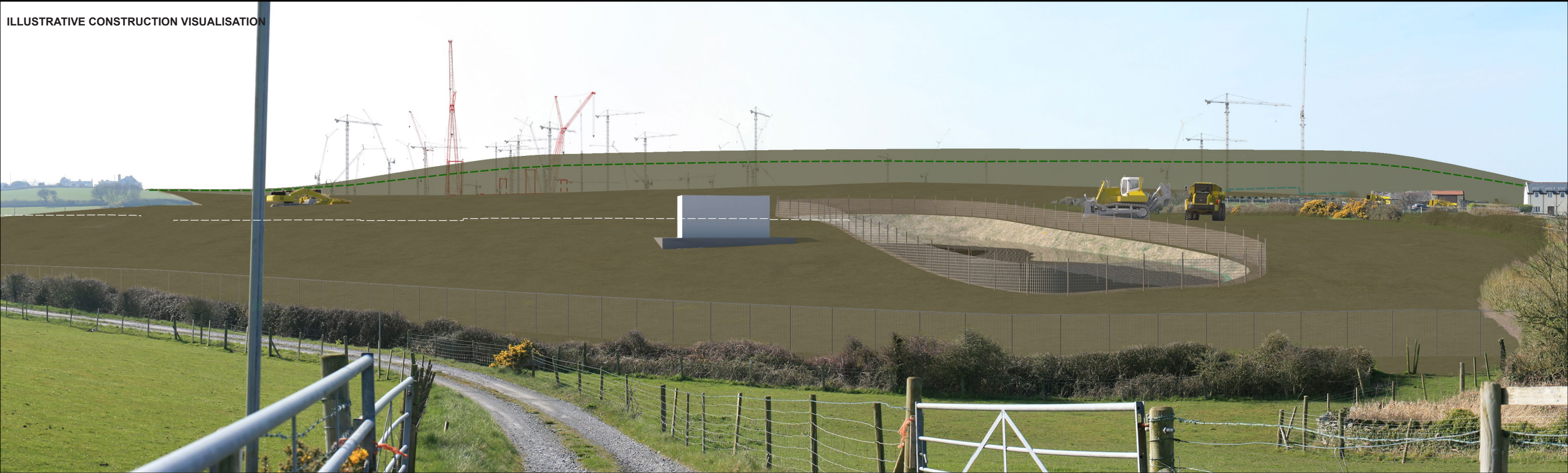
7. Images (as printed on A3 sheet) are to be viewed at approx. 30cm from the eye.

								Drawing title ILLUSTRATIVE CONSTRUCTION VISUALISATIONS WNDA DEVELOPMENT VIEWPOINT 9		
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							HORIZON NUCLEAR POWER			
Project							WYLFA NEWYDD PROJECT ENVIRONMENTAL STATEMENT			
							Drawing No. 60PO80AG_DCO_VOL_D_ICV_V09			
							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

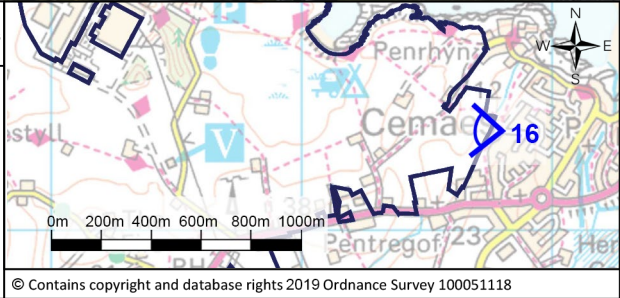


ILLUSTRATIVE CONSTRUCTION VISUALISATION



VIEWPOINT 16
View west from public footpath at western edge of Cemaes

Date of photograph: 27.03.2016
Time of photograph: 13:50
Lighting conditions: Clear, Sunny
OS grid reference: 236749, 393315
Viewpoint ground elevation: 17.276m
Camera height above ground level: 1.5m
Camera type: Canon EOS 5D
Camera lens size: 50mm
Aperture: f.11
ISO: 200
Shutter speed: 1/200
Horizontal angle of view: 80°



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5. The dashed dark green line indicates the indicative operational landform mounding.
6. Viewpoint surveyed using GPS unit.
7. Images (as printed on A3 sheet) are to be viewed at approx. 30cm from the eye.

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

Drawing title			ILLUSTRATIVE CONSTRUCTION VISUALISATIONS WNDA DEVELOPMENT VIEWPOINT 16		
Scale @ A3		NOT TO SCALE		DO NOT SCALE	
Jacobs No.		60PO80AG			
Client No.		-			
Drawing No.		60PO80AG_DCO_VOL_D_ICV_V16-W			
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

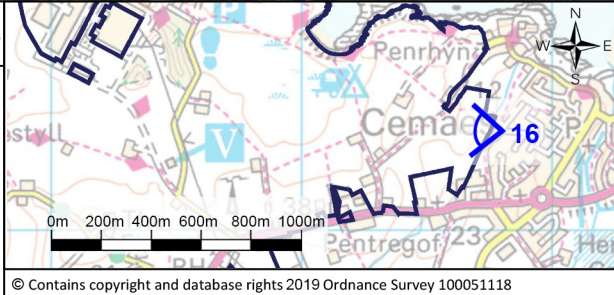


ILLUSTRATIVE CONSTRUCTION VISUALISATION



VIEWPOINT 16
View west from public footpath at western edge of Cemaes

Date of photograph: 27.03.2016
Time of photograph: 13:50
Lighting conditions: Clear, Sunny
OS grid reference: 236749, 393315
Viewpoint ground elevation: 17.276m
Camera height above ground level: 1.5m
Camera type: Canon EOS 5D
Camera lens size: 50mm
Aperture: f.11
ISO: 200
Shutter speed: 1/200
Horizontal angle of view: 80°



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6. Viewpoint surveyed using GPS unit.
7. Images (as printed on A3 sheet) are to be viewed at approx. 30cm from the eye.

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			ILLUSTRATIVE CONSTRUCTION VISUALISATIONS WNDA DEVELOPMENT VIEWPOINT 16		
Scale @ A3		NOT TO SCALE		DO NOT SCALE	
Jacobs No.		60PO80AG			
Client No.		-			
Drawing No.					
60PO80AG_DCO_VOL_D_ICV_V16-R					
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

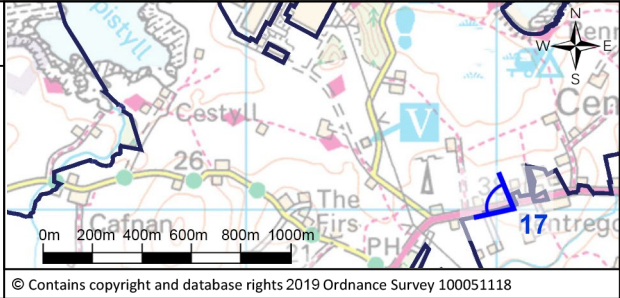


ILLUSTRATIVE CONSTRUCTION VISUALISATION



VIEWPOINT 17
View west from A5025 by Clovelly

Date of photograph: 27.03.2016
Time of photograph: 16:32
Lighting conditions: Haze
OS grid reference: 236088, 393002
Viewpoint ground elevation: 35.820m
Camera height above ground level: 1.5m
Camera type: Canon EOS 5D
Camera lens size: 50mm
Aperture: f.11
ISO: 200
Shutter speed: 1/250
Horizontal angle of view: 80°



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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			ILLUSTRATIVE CONSTRUCTION VISUALISATIONS WNDA DEVELOPMENT VIEWPOINT 17		
Scale @ A3		NOT TO SCALE		DO NOT SCALE	
Jacobs No.		60PO80AG			
Client No.		-			
Drawing No.		60PO80AG_DCO_VOL_D_ICV_V17A-W			
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.					

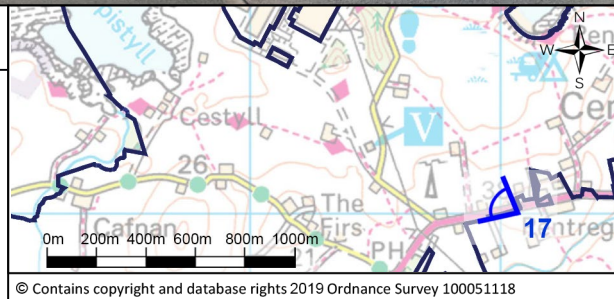
EXISTING VIEW

A wide-angle photograph of a rural road junction. A white van is parked on the right side of the road. In the background, there are rolling green hills, several large electricity pylons, and a few small buildings. The sky is clear and blue. A road sign with the number 40 is visible on the left side of the road. A small sign on the left side of the road reads "300 Lish 300 yds".


ILLUSTRATIVE CONSTRUCTION VISUALISATION

VIEWPOINT 17
View west from A5025 by Clovelly

Date of photograph: **27.03.2016**
Time of photograph: **16:32**
Lighting conditions: **Haze**
OS grid reference: **236088, 393002**
Viewpoint ground elevation: **35.820m**
Camera height above ground level: **1.5m**
Camera type: **Canon EOS 5D**
Camera lens size: **50mm**
Aperture: **f.11**
ISO: **200**
Shutter speed: **1/250**
Horizontal angle of view: **80°**



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							Drawing title ILLUSTRATIVE CONSTRUCTION VISUALISATIONS WNDA DEVELOPMENT VIEWPOINT 17		
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_ICV_V17A-R	
							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 - SUMMER

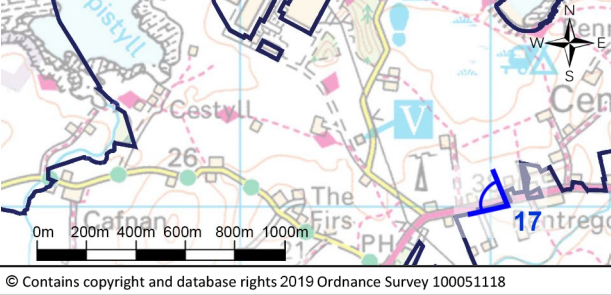


ILLUSTRATIVE CONSTRUCTION VISUALISATION - SUMMER



VIEWPOINT 17
View west from A5025 by Clovelly

Date of photograph: 05.07.2016 (Summer)
Time of photograph: 12.07
Lighting conditions: Good
OS grid reference: 236088, 393002
Viewpoint ground elevation: 35.805m
Camera height above ground level: 1.5m
Camera type: Canon EOS 5D
Camera lens size: 50mm
Aperture: f.9
ISO: 200
Shutter speed: 1/320
Horizontal angle of view: 80°



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 6. Viewpoint surveyed using GPS unit.
 7. Images (as printed on A3 sheet) are to be viewed at approx. 30cm from the eye.

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			ILLUSTRATIVE CONSTRUCTION VISUALISATIONS WNDA DEVELOPMENT VIEWPOINT 17		
Scale @ A3		NOT TO SCALE		DO NOT SCALE	
Jacobs No.		60PO80AG			
Client No.		-			
Drawing No.					
60PO80AG_DCO_VOL_D_ICV_V17B-W					
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EXISTING VIEW - SUMMER

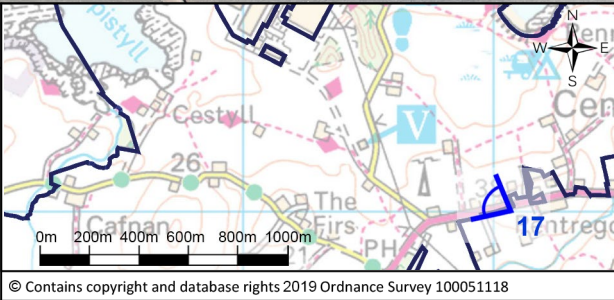


ILLUSTRATIVE CONSTRUCTION VISUALISATION - SUMMER



VIEWPOINT 17
View west from A5025 by Clovelly

Date of photograph: 05.07.2016 (Summer)
Time of photograph: 12.07
Lighting conditions: Good
OS grid reference: 236088, 393002
Viewpoint ground elevation: 35.805m
Camera height above ground level: 1.5m
Camera type: Canon EOS 5D
Camera lens size: 50mm
Aperture: f.9
ISO: 200
Shutter speed: 1/320
Horizontal angle of view: 80°



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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_ICV_V17B-R	
								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

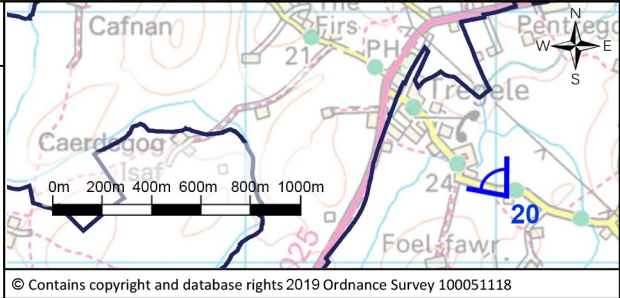


ILLUSTRATIVE CONSTRUCTION VISUALISATION



VIEWPOINT 20
View north-west from minor road approaching Tregle

Date of photograph: 15.03.2016
Time of photograph: 11:46
Lighting conditions: Good, Clear
OS grid reference: 236043, 392267
Viewpoint ground elevation: 28.645m
Camera height above ground level: 1.5m
Camera type: Canon EOS 5D
Camera lens size: 50mm
Aperture: f.11
ISO: 200
Shutter speed: 1/200
Horizontal angle of view: 80°



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 6. Viewpoint surveyed using GPS unit.
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							Drawing title ILLUSTRATIVE CONSTRUCTION VISUALISATIONS WNDA DEVELOPMENT VIEWPOINT 20		
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							Client No.	-	
Project							Drawing No.	60PO80AG_DCO_VOL_D_ICV_V20-W	
							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



ILLUSTRATIVE CONSTRUCTION VISUALISATION



VIEWPOINT 20
View north-west from minor road approaching Tregle

Date of photograph: 15.03.2016
Time of photograph: 11:46
Lighting conditions: Good, Clear
OS grid reference: 236043, 392267
Viewpoint ground elevation: 28.645m
Camera height above ground level: 1.5m
Camera type: Canon EOS 5D
Camera lens size: 50mm
Aperture: f.11
ISO: 200
Shutter speed: 1/200
Horizontal angle of view: 80°

Notes

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

							Drawing title ILLUSTRATIVE CONSTRUCTION VISUALISATIONS WNDA DEVELOPMENT VIEWPOINT 20		
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_ICV_V20-R	
HORIZON NUCLEAR POWER							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.		
WYLFA NEWYDD PROJECT ENVIRONMENTAL STATEMENT									

EXISTING VIEW



ILLUSTRATIVE CONSTRUCTION VISUALISATION



VIEWPOINT 27-1
View east from Wales Coast Path near Cerrig Brith

Date of photograph: 16.03.2016
Time of photograph: 10:05
Lighting conditions: Cloudy
OS grid reference: 234135, 393649
Viewpoint ground elevation: 6.005m
Camera height above ground level: 1.5m
Camera type: Canon EOS 5D
Camera lens size: 50mm
Aperture: f.11
ISO: 200
Shutter speed: 1/640
Horizontal angle of view: 80°

Notes

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3. Further design development would be undertaken post grant of Development Consent Order, including the selection of colour and materials for the Site Campus, and the selection of material finishes for the Marine Off-loading Facility and breakwaters.

4. The dashed lines indicate the maximum parameter envelopes for; buildings (red), marine (yellow), building platform level (grey) and Site Campus accommodation blocks (cyan). The maximum parameter height for the construction landform level in landscape mound locations is indicated with a brown transparent fill.

5. The dashed dark green line indicates the indicative operational landform mounding.

6. Viewpoint surveyed using GPS unit.

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

								Drawing title ILLUSTRATIVE CONSTRUCTION VISUALISATIONS WNDA DEVELOPMENT VIEWPOINT 27-1		
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							HORIZON NUCLEAR POWER			
Project							WYLFA NEWYDD PROJECT ENVIRONMENTAL STATEMENT			
							Drawing No. 60PO80AG_DCO_VOL_D_ICV_V27-1A-W			
							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



ILLUSTRATIVE CONSTRUCTION VISUALISATION



VIEWPOINT 27-2
View east from Wales Coast Path near Cerrig Brith

Date of photograph: 16.03.2016
Time of photograph: 10:05
Lighting conditions: Cloudy
OS grid reference: 234135, 393649
Viewpoint ground elevation: 6.005m
Camera height above ground level: 1.5m
Camera type: Canon EOS 5D
Camera lens size: 50mm
Aperture: f.11
ISO: 200
Shutter speed: 1/160
Horizontal angle of view: 80°

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5. The dashed dark green line indicates the indicative operational landform mounding.
6. Viewpoint surveyed using GPS unit.
7. Images (as printed on A3 sheet) are to be viewed at approx. 30cm from the eye.

								Drawing title ILLUSTRATIVE CONSTRUCTION VISUALISATIONS WNDA DEVELOPMENT VIEWPOINT 27-2		
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							HORIZON NUCLEAR POWER			
Project							WYLFA NEWYDD PROJECT ENVIRONMENTAL STATEMENT			
							Drawing No. 60PO80AG_DCO_VOL_D_ICV_V27-2A-W			
							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

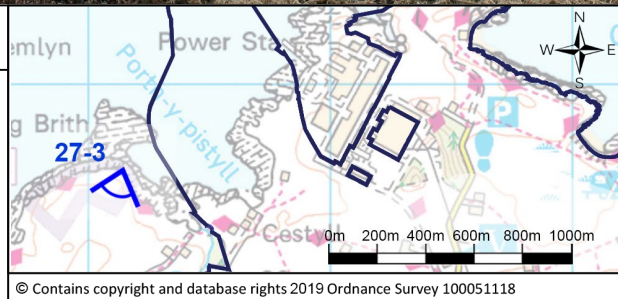
A wide panoramic photograph of a coastal landscape. The foreground is dominated by dense, low-lying vegetation, including dark green shrubs and patches of dry, yellowish-brown grass. In the middle ground, a rocky ridge or hill rises, covered in similar vegetation. The background shows a vast expanse of the ocean under a pale, overcast sky. The overall scene depicts a natural, undeveloped coastal environment.

ILLUSTRATIVE CONSTRUCTION VISUALISATION


A wide panoramic photograph of a rugged, rocky hillside. The terrain is covered in dense, low-lying vegetation, including yellow-flowered shrubs and bare, tangled branches. In the background, a construction crane is visible on the left horizon under a cloudy sky. The overall scene is a natural landscape with some industrial elements.

VIEWPOINT 27-3
View east from Wales Coast Path near Cerrig Brith

Date of photograph: **16.03.2016**
Time of photograph: **10:05**
Lighting conditions: **Cloudy**
OS grid reference: **234135, 393649**
Viewpoint ground elevation: **6.005m**
Camera height above ground level: **1.5m**
Camera type: **Canon EOS 5D**
Camera lens size: **50mm**
Aperture: **f:11**
ISO: **200**
Shutter speed: **1/160**
Horizontal angle of view: **80°**



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6. Viewpoint surveyed using GPS unit.
7. Images (as printed on A3 sheet) are to be viewed at approx. 30cm from the eye.

1	FEB 2019	DCO Submission	HNPWL	HNPWL	HNPWL
Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd
<div> <div>Client</div> <div>  </div> </div>					
<div> <div>Project</div> <div> WYLFA NEWYDD PROJECT ENVIRONMENTAL STATEMENT </div> </div>					

Drawing title ILLUSTRATIVE CONSTRUCTION VISUALISATIONS WNDA DEVELOPMENT VIEWPOINT 27-3		
Scale @ A3	NOT TO SCALE	DO NOT SCALE
Jacobs No.	60PO80AG	
Client No.	-	
Drawing No. 60PO80AG_DCO_VOL_D_ICV_V27-3A-W		
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



ILLUSTRATIVE CONSTRUCTION VISUALISATION



VIEWPOINT 27-1
View east from Wales Coast Path near Cerrig Brith

Date of photograph: 16.03.2016
Time of photograph: 10:05
Lighting conditions: Cloudy
OS grid reference: 234135, 393649
Viewpoint ground elevation: 6.005m
Camera height above ground level: 1.5m
Camera type: Canon EOS 5D
Camera lens size: 50mm
Aperture: f. 11
ISO: 200
Shutter speed: 1/640
Horizontal angle of view: 80°

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5. The dashed dark green line indicates the indicative operational landform mounding.
6. Viewpoint surveyed using GPS unit.
7. Images (as printed on A3 sheet) are to be viewed at approx. 30cm from the eye.

								Drawing title ILLUSTRATIVE CONSTRUCTION VISUALISATIONS WNDA DEVELOPMENT VIEWPOINT 27-1		
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							HORIZON NUCLEAR POWER			
Project							WYLFA NEWYDD PROJECT ENVIRONMENTAL STATEMENT			
							Drawing No. 60PO80AG_DCO_VOL_D_ICV_V27-1A-R			
							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



ILLUSTRATIVE CONSTRUCTION VISUALISATION



VIEWPOINT 27-2
View east from Wales Coast Path near Cerrig Brith

Date of photograph: 16.03.2016
Time of photograph: 9:52
Lighting conditions: Cloudy
OS grid reference: 234135,393648
Viewpoint ground elevation: 6.021m
Camera height above ground level: 1.5m
Camera type: Canon EOS 5D
Camera lens size: 50mm
Aperture: f. 9
ISO: 200
Shutter speed: 1/640
Horizontal angle of view: 80°

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6. Viewpoint surveyed using GPS unit.
7. Images (as printed on A3 sheet) are to be viewed at approx. 30cm from the eye.

								Drawing title ILLUSTRATIVE CONSTRUCTION VISUALISATIONS WNDA DEVELOPMENT VIEWPOINT 27-2		
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							HORIZON NUCLEAR POWER			
Project							WYLFA NEWYDD PROJECT ENVIRONMENTAL STATEMENT			
							Drawing No. 60PO80AG_DCO_VOL_D_ICV_V27-2A-R			
							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



ILLUSTRATIVE CONSTRUCTION VISUALISATION



VIEWPOINT 27-3

View east from Wales Coast Path near Cerrig Brith

Date of photograph: 06.07.2016 (Summer)

Time of photograph: 9:52

Lighting conditions: Cloudy

OS grid reference: 234135,393648

Viewpoint ground elevation: 6.021m

Camera height above ground level: 1.5m

Camera type: Canon EOS 5D

Camera lens size: 50mm

Aperture: f. 9

ISO: 200

Shutter speed: 1/640

Horizontal angle of view: 80°

Notes

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5. The dashed dark green line indicates the indicative operational landform mounding.

6. Viewpoint surveyed using GPS unit.

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

								Drawing title		
1	FEB 2019	DCO Submission	HNPWL	HNPWL	HNPWL	HNPWL	ILLUSTRATIVE CONSTRUCTION VISUALISATIONS WNDA DEVELOPMENT VIEWPOINT 27-3			
Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd	Scale @ A3	NOT TO SCALE	DO NOT SCALE	
Client							Jacobs No.			
Project							Client No.			
							Drawing No.			
							60PO80AG_DCO_VOL_D_ICV_V27-3A-R			
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.			

EXISTING VIEW - SUMMER



ILLUSTRATIVE CONSTRUCTION VISUALISATION - SUMMER



<p>VIEWPOINT 27-1 View east from Wales Coast Path near Cerrig Brith</p> <p>Date of photograph: 06.07.2016 (Summer) Time of photograph: 9:52 Lighting conditions: Cloudy OS grid reference: 234135,393648 Viewpoint ground elevation: 6.021m Camera height above ground level: 1.5m Camera type: Canon EOS 5D Camera lens size: 50mm Aperture: f. 9 ISO: 200 Shutter speed: 1/640 Horizontal angle of view: 80°</p>	<p>© Contains copyright and database rights 2019 Ordnance Survey 100051118</p>	<p>Notes</p> <ol style="list-style-type: none">1. This illustrative construction visualisation is for illustrative purposes only and has been prepared in accordance with the methodology set out in this document.2. The type and positions of cranes and plant illustrated are indicative only and will change as construction progresses.3. Further design development would be undertaken post grant of Development Consent Order, including the selection of colour and materials for the Site Campus, and the selection of material finishes for the Marine Off-loading Facility and breakwaters.4. The dashed lines indicate the maximum parameter envelopes for; buildings (red), marine (yellow), building platform level (grey) and Site Campus accommodation blocks (cyan). The maximum parameter height for the construction landform level in landscape mound locations is indicated with a brown transparent fill.5. The dashed dark green line indicates the indicative operational landform mounding.6. Viewpoint surveyed using GPS unit.7. Images (as printed on A3 sheet) are to be viewed at approx. 30cm from the eye.	<table><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></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>App'd</td></tr><tr><td colspan="3">Client</td><td colspan="4">HORIZON NUCLEAR POWER</td></tr><tr><td colspan="3">Project</td><td colspan="4">WYLFA NEWYDD PROJECT ENVIRONMENTAL STATEMENT</td></tr></table>								1	FEB 2019	DCO Submission	HNPWL	HNPWL	HNPWL	HNPWL	Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	App'd	Client			HORIZON NUCLEAR POWER				Project			WYLFA NEWYDD PROJECT ENVIRONMENTAL STATEMENT				<table><tr><td colspan="3">Drawing title ILLUSTRATIVE CONSTRUCTION VISUALISATIONS WNDA DEVELOPMENT VIEWPOINT 27-1</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" rowspan="3">-</td></tr><tr><td colspan="3">Drawing No. 60PO80AG_DCO_VOL_D_ICV_V27-1B-W</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 ILLUSTRATIVE CONSTRUCTION VISUALISATIONS WNDA DEVELOPMENT VIEWPOINT 27-1			Scale @ A3	NOT TO SCALE	DO NOT SCALE	Jacobs No.	60PO80AG		Client No.	-		Drawing No. 60PO80AG_DCO_VOL_D_ICV_V27-1B-W			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.		
1	FEB 2019	DCO Submission	HNPWL	HNPWL	HNPWL	HNPWL																																																			
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EXISTING VIEW - SUMMER



ILLUSTRATIVE CONSTRUCTION VISUALISATION - SUMMER



VIEWPOINT 27-2
View east from Wales Coast Path near Cerrig Brith

Date of photograph: 06.07.2016 (Summer)
Time of photograph: 9:52
Lighting conditions: Cloudy
OS grid reference: 234135,393648
Viewpoint ground elevation: 6.021m
Camera height above ground level: 1.5m
Camera type: Canon EOS 5D
Camera lens size: 50mm
Aperture: f. 9
ISO: 200
Shutter speed: 1/640
Horizontal angle of view: 80°

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5. The dashed dark green line indicates the indicative operational landform mounding.
6. Viewpoint surveyed using GPS unit.
7. Images (as printed on A3 sheet) are to be viewed at approx. 30cm from the eye.

								Drawing title ILLUSTRATIVE CONSTRUCTION VISUALISATIONS WNDA DEVELOPMENT VIEWPOINT 27-2		
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							HORIZON NUCLEAR POWER			
Project							WYLFA NEWYDD PROJECT ENVIRONMENTAL STATEMENT			
							Drawing No. 60PO80AG_DCO_VOL_D_ICV_V27-2B-W			
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EXISTING VIEW - SUMMER



ILLUSTRATIVE CONSTRUCTION VISUALISATION - SUMMER



VIEWPOINT 27-3
View east from Wales Coast Path near Cerrig Brith

Date of photograph: 06.07.2016 (Summer)
Time of photograph: 9:52
Lighting conditions: Cloudy
OS grid reference: 234135,393648
Viewpoint ground elevation: 6.021m
Camera height above ground level: 1.5m
Camera type: Canon EOS 5D
Camera lens size: 50mm
Aperture: f. 9
ISO: 200
Shutter speed: 1/640
Horizontal angle of view: 80°

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5. The dashed dark green line indicates the indicative operational landform mounding.

6. Viewpoint surveyed using GPS unit.

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

								Drawing title ILLUSTRATIVE CONSTRUCTION VISUALISATIONS WNDA DEVELOPMENT VIEWPOINT 27-3		
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							HORIZON NUCLEAR POWER			
Project							WYLFA NEWYDD PROJECT ENVIRONMENTAL STATEMENT			
							Drawing No. 60PO80AG_DCO_VOL_D_ICV_V27-3B-W			
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EXISTING VIEW - SUMMER



ILLUSTRATIVE CONSTRUCTION VISUALISATION - SUMMER



VIEWPOINT 27-1
View east from Wales Coast Path near Cerrig Brith

Date of photograph: 06.07.2016 (Summer)
Time of photograph: 9:52
Lighting conditions: Cloudy
OS grid reference: 234135,393648
Viewpoint ground elevation: 6.021m
Camera height above ground level: 1.5m
Camera type: Canon EOS 5D
Camera lens size: 50mm
Aperture: f. 9
ISO: 200
Shutter speed: 1/640
Horizontal angle of view: 80°

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

								Drawing title ILLUSTRATIVE CONSTRUCTION VISUALISATIONS WNDA DEVELOPMENT VIEWPOINT 27-1		
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							HORIZON NUCLEAR POWER			
Project							WYLFA NEWYDD PROJECT ENVIRONMENTAL STATEMENT			
							Drawing No. 60PO80AG_DCO_VOL_D_ICV_V27-1B-R			
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EXISTING VIEW - SUMMER



ILLUSTRATIVE CONSTRUCTION VISUALISATION - SUMMER



VIEWPOINT 27-2
View east from Wales Coast Path near Cerrig Brith

Date of photograph: 06.07.2016 (Summer)
Time of photograph: 9:52
Lighting conditions: Cloudy
OS grid reference: 234135,393648
Viewpoint ground elevation: 6.021m
Camera height above ground level: 1.5m
Camera type: Canon EOS 5D
Camera lens size: 50mm
Aperture: f. 9
ISO: 200
Shutter speed: 1/640
Horizontal angle of view: 80°

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								Drawing title ILLUSTRATIVE CONSTRUCTION VISUALISATIONS WNDA DEVELOPMENT VIEWPOINT 27-2		
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							HORIZON NUCLEAR POWER			
Project							WYLFA NEWYDD PROJECT ENVIRONMENTAL STATEMENT			
							Drawing No. 60PO80AG_DCO_VOL_D_ICV_V27-2B-R			
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EXISTING VIEW - SUMMER



ILLUSTRATIVE CONSTRUCTION VISUALISATION - SUMMER



VIEWPOINT 27-3

View east from Wales Coast Path near Cerrig Brith

Date of photograph: 06.07.2016 (Summer)

Time of photograph: 9:52

Lighting conditions: Cloudy

OS grid reference: 234135,393648

Viewpoint ground elevation: 6.021m

Camera height above ground level: 1.5m

Camera type: Canon EOS 5D

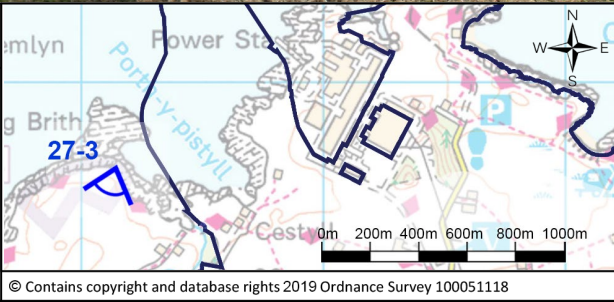
Camera lens size: 50mm

Aperture: f. 9

ISO: 200

Shutter speed: 1/640

Horizontal angle of view: 80°



Notes

1. This illustrative construction visualisation is for illustrative purposes only and has been prepared in accordance with the methodology set out in this document.

2. The type and positions of cranes and plant illustrated are indicative only and will change as construction progresses.

3. Further design development would be undertaken post grant of Development Consent Order, including the selection of colour and materials for the Site Campus, and the selection of material finishes for the Marine Off-loading Facility and breakwaters.

4. The dashed lines indicate the maximum parameter envelopes for; buildings (red), marine (yellow), building platform level (grey) and Site Campus accommodation blocks (cyan). The maximum parameter height for the construction landform level in landscape mound locations is indicated with a green opaque fill.

5. The dashed dark green line indicates the indicative operational landform mounding.

6. Viewpoint surveyed using GPS unit.

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

								Drawing title ILLUSTRATIVE CONSTRUCTION VISUALISATIONS WNDA DEVELOPMENT VIEWPOINT 27-3		
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							HORIZON NUCLEAR POWER			
Project							WYLFA NEWYDD PROJECT ENVIRONMENTAL STATEMENT			

Drawing No.

60PO80AG_DCO_VOL_D_ICV_V27-3B-R

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



ILLUSTRATIVE CONSTRUCTION VISUALISATION



VIEWPOINT 29

View west from Wales Coast Path

Date of photograph: 17.03.2016

Time of photograph: 15:09

Lighting conditions: Sunny, Hazy

OS grid reference: 237928 394785

Viewpoint ground elevation: 47.111m

Camera height above ground level: 1.5m

Camera type: Canon EOS 5D

Camera lens size: 50mm

Aperture: f.11

ISO: 200

Shutter speed: 1/320

Horizontal angle of view: 80°

Notes

1. This illustrative construction visualisation is for illustrative purposes only and has been prepared in accordance with the methodology set out in this document.

2. The type and positions of cranes and plant illustrated are indicative only and will change as construction progresses.

3. Further design development would be undertaken post grant of Development Consent Order, including the selection of colour and materials for the Site Campus, and the selection of material finishes for the Marine Off-loading Facility and breakwaters.

4. The dashed lines indicate the maximum parameter envelopes for; buildings (red), marine (yellow), building platform level (grey) and Site Campus accommodation blocks (cyan). The maximum parameter height for the construction landform level in landscape mound locations is indicated with a brown transparent fill.

5. The dashed dark green line indicates the indicative operational landform mounding.

6. Viewpoint surveyed using GPS unit.

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

								Drawing title ILLUSTRATIVE CONSTRUCTION VISUALISATIONS WNDA DEVELOPMENT VIEWPOINT 29		
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							HORIZON NUCLEAR POWER			
Project							WYLFA NEWYDD PROJECT ENVIRONMENTAL STATEMENT			
							Client No. -			
							Drawing No. 60PO80AG_DCO_VOL_D_ICV_V29-W			
							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



ILLUSTRATIVE CONSTRUCTION VISUALISATION



VIEWPOINT 29

View west from Wales Coast Path

Date of photograph: 17.03.2016

Time of photograph: 15:09

Lighting conditions: Sunny, Hazy

OS grid reference: 237928 394785

Viewpoint ground elevation: 47.111m

Camera height above ground level: 1.5m

Camera type: Canon EOS 5D

Camera lens size: 50mm

Aperture: f.11

ISO: 200

Shutter speed: 1/320

Horizontal angle of view: 80°

Notes

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5. The dashed dark green line indicates the indicative operational landform mounding.

6. Viewpoint surveyed using GPS unit.

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

								Drawing title			ILLUSTRATIVE CONSTRUCTION VISUALISATIONS WNDA DEVELOPMENT VIEWPOINT 29		
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							HORIZON NUCLEAR POWER						
Project							WYLFA NEWYDD PROJECT ENVIRONMENTAL STATEMENT						
							Drawing No.						
							60PO80AG_DCO_VOL_D_ICV_V29-R						
							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.						