

HPC COMPANY DOCUMENT

HINKLEY POINT C MATERIAL CHANGE APPLICATION PEIR Figures - Volume 2

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Landscape and Visual

Figure 6.1 Zone of Theoretical Visibility Bare Earth

Figure 6.2 Zone of Theoretical Visibility Elevation Model

Figure 6.3 Proposed Changes On-Site at Hinkley Point C Viewpoint 13 Type 1 Visualisation

Figure 6.4 Proposed Changes On-Site at Hinkley Point C Viewpoint 19 Type 1 Visualisation

Figure 6.5 Proposed Changes On-Site at Hinkley Point C Viewpoint 28 Type 1 Visualisation

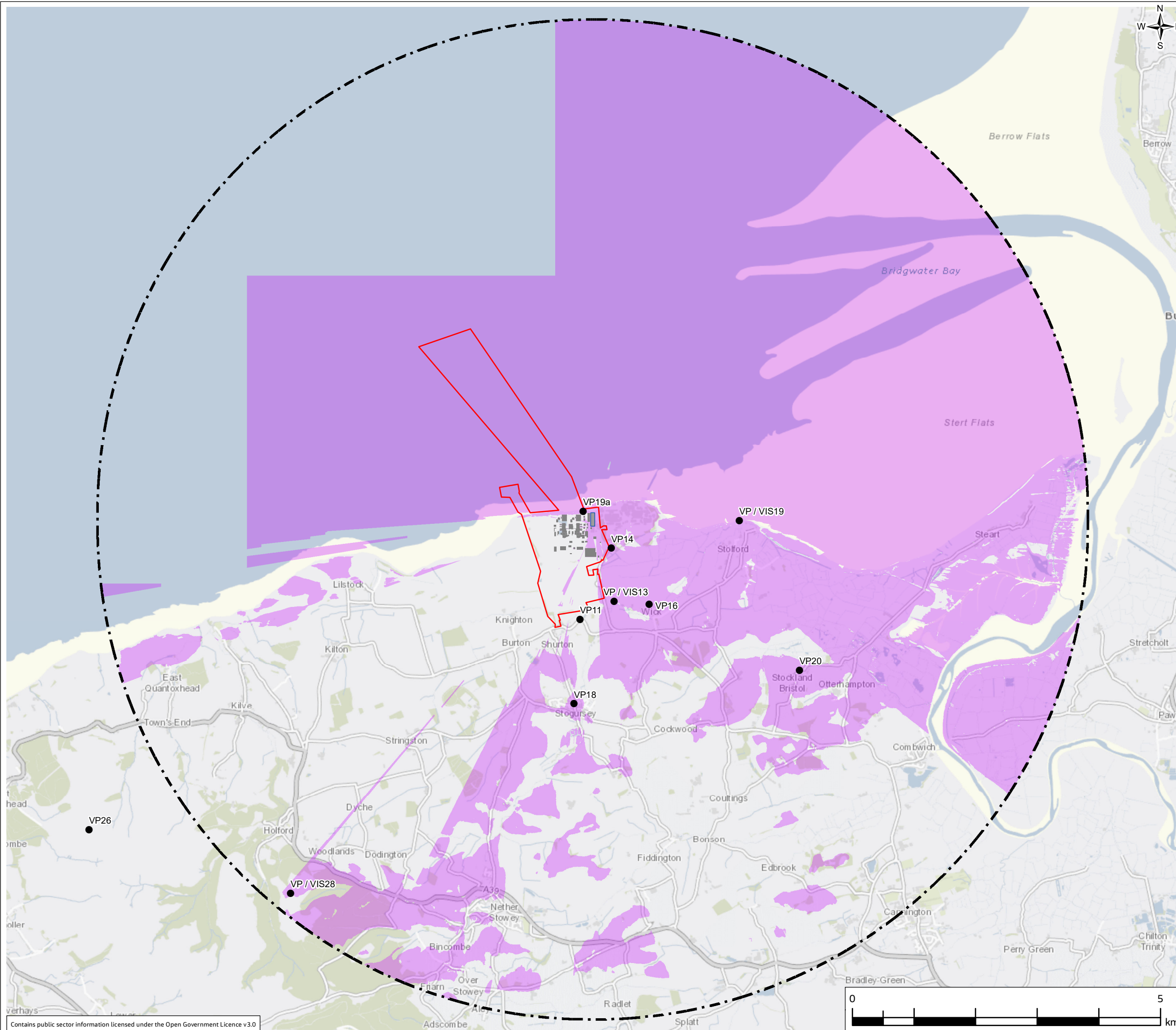
FIGURE 6.1

Legend

- Viewpoints / Visualisation Locations
- ⊖ 8km Study Area
- Interim Spent Fuel Store (ISFS)
- Hinkley Point C Development Site Boundary
- Zone of Theoretical Visibility (ZTV) for the Interim Spent Fuel Store (ISFS) - Bare Earth Model

Notes:

1. This figure shows the ISFS ZTV and representative viewpoint locations and visualisation locations.
2. The ZTV illustrates the extent to which the ISFS is theoretically visible from within the surrounding landscape. It is based on existing terrain (i.e. 'bare earth') and does not take account of potential screening by intervening vegetation.
3. A ZTV has not been developed for the Equipment Storage Building and Meteorological Mast as their zone of influence is much smaller and not likely to extend beyond the zone of influence of the ISFS. Therefore, the ZTV for the ISFS is representative of the potential visibility for all buildings included in the PEIR assessment.
4. The ZTV has been modelled using digital software (ArcGIS) and a OS Terrain5 Digital Terrain Model
5. The ZTV has been modelled to include the consented Nuclear Island and Conventional Island as these structures are likely to substantially screen the ISFS from some locations.
6. Theoretical visibility is based on the full extents and height of the extended ISFS building (229m (length) x 73m (width) x 30m (height) modelled at each of the four corners



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Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd

Jacobs

Churchill House, Churchill Way, Cardiff CF10 2HH
www.jacobs.com

Client

Project
HINKLEY POINT C MATERIAL CHANGE APPLICATION

Drawing Title
**ZONE OF THEORETICAL VISIBILITY
BARE EARTH**

Drawing Status
FOR CONSULTATION

Scale @ A3
1:60,000
DO NOT SCALE

Jacobs No.
HTSANP11

Drawing No.
HTSANP11_LVIA_6-1_ZTV_TerrainModel

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FIGURE 6.2

Legend

- Viewpoint / Visualisation Locations
- ⊖ 8km Study Area
- Interim Spent Fuel Store (ISFS)
- Hinkley Point C Development Site Boundary
- Zone of Theoretical Visibility (ZTV) for the Interim Spent Fuel Store (ISFS) - Elevation Model

Notes:

1. This figure shows the ISFS ZTV and representative viewpoint locations and visualisation locations.
2. The ZTV illustrates the extent to which the ISFS is theoretically visible from within the surrounding landscape. It is based on existing terrain and includes significant woodland and tree belts from National Forest Inventory and shows potential screening.
3. A ZTV has not been developed for the Equipment Storage Building and Meteorological Mast as their zone of influence is much smaller and not likely to extend beyond the zone of influence of the ISFS. Therefore, the ZTV for the ISFS is representative of the potential visibility for all buildings included in the PEIR assessment.
4. The ZTV has been modelled using digital software (ArcGIS) and a OS Terrain5 Digital Terrain Model
5. The ZTV has been modelled to include the consented Nuclear Island and Conventional Island as these structures are likely to substantially screen the ISFS from some locations.
6. Theoretical visibility is based on the full extents and height of the extended ISFS building (229m (length) x 73m (width) x 30m (height) modelled at each of the four corners

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Jacobs

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www.jacobs.com

Client

Project
HINKLEY POINT C MATERIAL CHANGE APPLICATION

Drawing Title
**ZONE OF THEORETICAL VISIBILITY
ELEVATION MODEL**

Drawing Status
FOR CONSULTATION

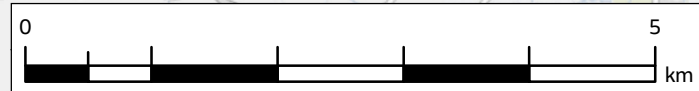
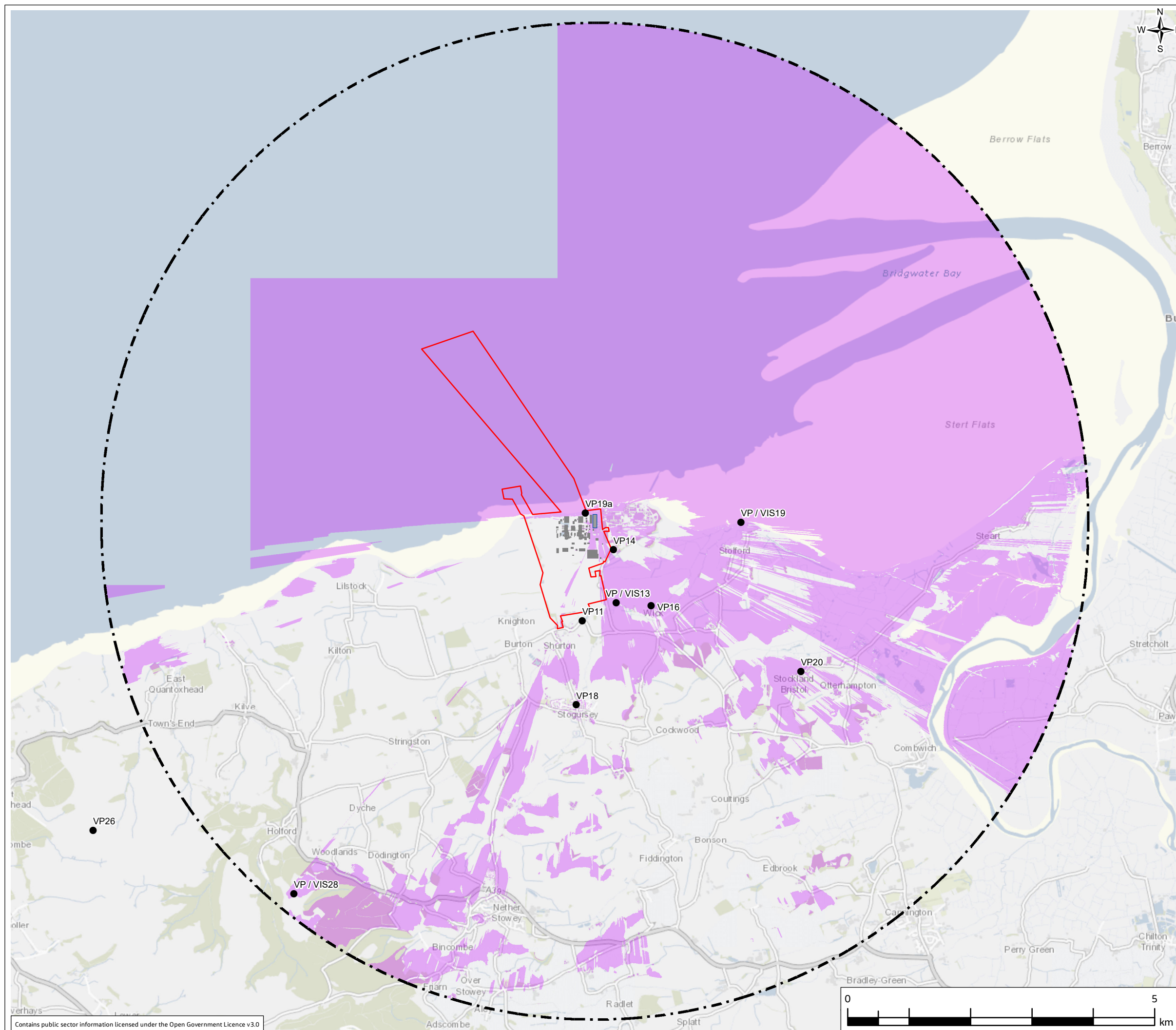
Scale @ A3
1:60,000 **DO NOT SCALE**

Jacobs No.
HTSANP11

Client No.

Drawing No.
HTSANP11_LVIA_6-2_ZTV_ElevationModel

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PROPOSED CHANGES ON-SITE TYPE 1 VISUALISATION



FIGURE 6.3

VIEWPOINT 13:

Date of photograph: 01/03/2011
 Time of photograph: 16:55
 Lighting conditions: Cloudy
 OS grid reference: 320955,144715
 Viewpoint ground elevation: 16.093m
 Camera height above ground level: 1.7m
 Camera type: ARCA SWISS F-COMPACT 6x9
 Camera lens size: 35mm SCHNEIDER APO DIGITAL

LEGEND:

- Interim Spent Fuel Store (ISFS)**
 - visible
 - - - - not visible
- ISFS Equipment Store**
 - visible
 - - - - not visible
- Meteorological Mast**
 - visible
 - - - - not visible

NOTES:

- 1) Refer to Preliminary Environmental Information Report Figures 6.1 Zone of Theoretical Visibility Bare Earth and 6.2 Zone of Theoretical Visibility Elevation Model for viewpoint locations.
- 2) Refer to Preliminary Environmental Information Report Appendix A - Type1 Visualisation Technical Methodology for more details on visualisation production.
- 3) Baseline imagery (90° horizontal field of view crop) extracted from Hinkley Point C Project Environmental Statement Vol. 2 Chapter 22 - Figure 22.37b - Principal Viewpoint 28 Full Scale VVI (Sept 2011).
- 4) If using this visualisation to judge scale, view at A1 sheet size. The A1 sheet should be viewed centrally at a comfortable arm's length.
- 5) If using this visualisation for landscape context, the figure may be viewed at A3 sheet size.
- 6) If viewing these figures online, images will be low-resolution and therefore should only be used for information purposes.
- 7) High resolution versions of the figures can be obtained from NNB Generation Company (HPC) Limited on request if required.
- 8) Printing guidelines: High quality colour printer with margins set to 3mm to top and bottom of A3 paper.

Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Apprv'd
0	NOV 23	FINAL ISSUE	JP	RL	IB	LW



HINKLEY POINT C
 MATERIAL CHANGE APPLICATION

Drawing title PROPOSED CHANGES ON-SITE AT HINKLEY POINT C VIEWPOINT 13 TYPE 1 VISUALISATION		
Drawing status FINAL		
Scale	N/A @ A1	DO NOT SCALE
Project No.	HTSANP11	Rev
Client No.		0
Drawing number		HTSANP11_LVIA_6-3_VIS_VP13



PROPOSED CHANGES ON-SITE TYPE 1 VISUALISATION



FIGURE 6.4

VIEWPOINT 19

Date of photograph: 08/03/2011
 Time of photograph: 12:00
 Lighting conditions: Sunny
 OS grid reference: 322940,145987
 Viewpoint ground elevation: 8.81m
 Camera height above ground level: 1.7m
 Camera type: ARCA SWISS F-COMPACT 6x9
 Camera lens size: 35mm SCHNEIDER APO DIGITAL

LEGEND:

- Interim Spent Fuel Store (ISFS) visible
- Interim Spent Fuel Store (ISFS) not visible
- ISFS Equipment Store visible
- ISFS Equipment Store not visible
- Meteorological Mast visible
- Meteorological Mast not visible

NOTES:

- 1) Refer to Preliminary Environmental Information Report Figures 6.1 Zone of Theoretical Visibility Bare Earth and 6.2 Zone of Theoretical Visibility Elevation Model for viewpoint locations.
- 2) Refer to Preliminary Environmental Information Report Appendix A - Type 1 Visualisation Technical Methodology for more details on visualisation production.
- 3) Refer to Preliminary Environmental Information Report Appendix A - Type 1 Visualisation Technical Methodology for more details on visualisation production.
- 4) Baseline imagery (90° horizontal field of view crop) extracted from Hinkley Point C Project Environmental Statement Vol. 2 Chapter 22 - Figure 22.37b - Principal Viewpoint 28 Full Scale VVI (Sept 2011).
- 5) If using this visualisation to judge scale, view at A1 sheet size. The A1 sheet should be viewed centrally at a comfortable arm's length.
- 6) If using this visualisation for landscape context, the figure may be viewed at A3 sheet size.
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HINKLEY POINT C
 MATERIAL CHANGE APPLICATION

Drawing title		PROPOSED CHANGES ON-SITE AT HINKLEY POINT C VIEWPOINT 19 TYPE 1 VISUALISATION	
Drawing status		FINAL	
Scale	N/A @ A1	DO NOT SCALE	
Project No.	HTSANP11	Rev	0
Client No.		Drawing number	
		HTSANP11_LVIA_6-4_VIS_VP19	

90° EXTRACT FROM 2011 DCO VISUALISATION



PROPOSED CHANGES ON-SITE TYPE 1 VISUALISATION

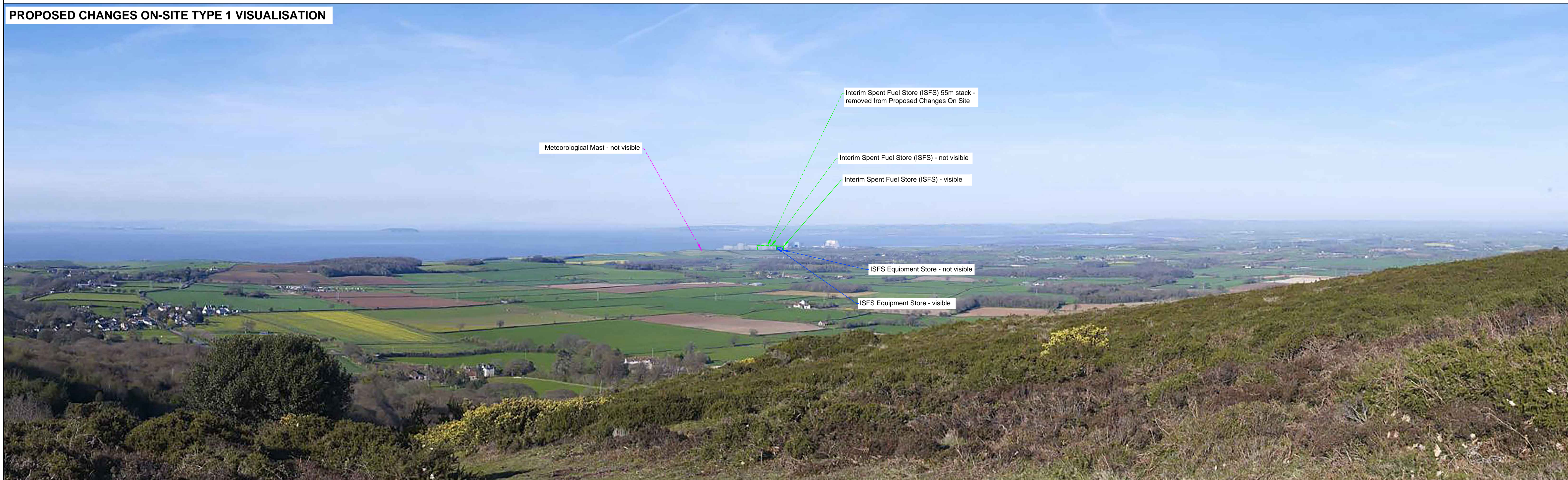


FIGURE 6.5

VIEWPOINT 28

Date of photograph: 06/04/2011
 Time of photograph: 17:30
 Lighting conditions: Sunny
 OS grid reference: 315651,140079
 Viewpoint ground elevation: 239.508m
 Camera height above ground level: 1.7m
 Camera type: ARCA SWISS F-COMPACT 6x9
 Camera lens size: 35mm SCHNEIDER APO DIGITAL

LEGEND:

——	Interim Spent Fuel Store (ISFS)
——	visible
- - - -	not visible
——	ISFS Equipment Store
——	visible
- - - -	not visible
——	Meteorological Mast
——	visible
- - - -	not visible

NOTES:

- 1) Refer to Preliminary Environmental Information Report Figures 6.1 Zone of Theoretical Visibility Bare Earth and 6.2 Zone of Theoretical Visibility Elevation Model for viewpoint locations.
- 2) Refer to Preliminary Environmental Information Report Appendix A - Type 1 Visualisation Technical Methodology for more details on visualisation production.
- 3) Refer to Preliminary Environmental Information Report Appendix A - Type 1 Visualisation Technical Methodology for more details on visualisation production.
- 4) Baseline imagery (90° horizontal field of view crop) extracted from Hinkley Point C Project Environmental Statement Vol. 2 Chapter 22 - Figure 22.37b - Principal Viewpoint 28 Full Scale VVI (Sept 2011).
- 5) If using this visualisation to judge scale, view at A1 sheet size. The A1 sheet should be viewed centrally at a comfortable arm's length.
- 6) If using this visualisation for landscape context, the figure may be viewed at A3 sheet size.
- 7) If viewing these figures online, images will be low-resolution and therefore should only be used for information purposes.
- 8) High resolution versions of the figures can be obtained from NNB Generation Company (HPC) Limited on request if required.
- 9) Printing guidelines: High quality colour printer with margins set to 3mm to top and bottom of A3 paper.

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HINKLEY POINT C
 MATERIAL CHANGE APPLICATION

Drawing title PROPOSED CHANGES ON-SITE AT HINKLEY POINT C VIEWPOINT 28 TYPE 1 VISUALISATION		
Drawing status FINAL		
Scale	N/A @ A1	DO NOT SCALE
Project No.	HTSANP11	Rev
Client No.		0
Drawing number HTSANP11_LVIA_6-5_VIS_VP28		