

## The Drax Power (Generating Stations) Order

Land at, and in the vicinity of, Drax Power Station, near Selby, North Yorkshire

8.4.1 Revised Viewpoints and Additional Photomontage (Submitted for Deadline 5)



The Planning Act 2008
The Infrastructure Planning (Applications: Prescribed Forms and Procedure)
Regulations 2009 – Regulation 5(2)(a)

## **Drax Power Limited**

**Drax Repower Project** 

Applicant: DRAX POWER LIMITED

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## 1 INTRODUCTION

## 1.1 Purpose of this Document

- 1.1.1. Drax Power Limited ("Drax" or "the Applicant") submitted an Application for a Development Consent Order (DCO) on 29 May 2018, which was accepted for Examination on 26 June 2018. Subsequently, Drax submitted a first iteration (Rev 001) of this document for Deadline 1 of the Examination (Examination Library Reference REP1-009), comprising some retaken photographs (replacing those shown in Chapter 10 of the Environmental Statement submitted with the Application, Examination Library Reference APP-078) and an additional photomontage in response to a request from North Yorkshire County Council ("NYCC").
- 1.1.2. At Deadline 3 Drax submitted a second iteration of this document (Rev 002) (Examination Library Reference REP3-021), which included revisions to the additional photomontage to reflect the correct lighting level based on the field verified existing view (refer to the field verified existing view and field verified revised photomontage in Appendix 1). In addition, Rev 002 contained updated photomontages to reflect the application for a non-material amendment that was submitted at Deadline 3. The overall implications of the non-material changes in terms of the Environmental Statement submitted with the Application are set out in the Assessment of non-material amendments to Proposed Scheme (Examination Library Reference REP3-022) and the changes to the maximum parameters are detailed in Schedule 13 of the Draft Development Consent Order (Examination Library Reference REP3-011); both documents were submitted for Deadline 3 alongside the non-material amendment application.
- 1.1.3. This document (Rev 003) incorporates not only the information contained in Rev 001 and Rev 002, but also includes the assessment that was undertaken and which informed the conclusions reported in the Assessment of non-material amendments to the Proposed Scheme submitted at Deadline 3. It outlines the nature of landscape and visual effects as a consequence of the proposed non-material amendments, key changes and explains why these are not material changes. It focuses on those changes that have the potential to alter the landscape and visual effects relating to:
  - The battery storage facility;
  - The battery storage construction;
  - The above ground installations (AGI); and
  - The power station site parameters.
- 1.1.4. In addition, this document (Rev 003) includes revised photomontages illustrating the latest model and layout plans (and which are also submitted at Deadline 5). This is so that the ExA has before it the layout plans and corresponding photomontages that are consistent with each other and which represent the worst case visually in line with the parameters presented in the draft DCO, Schedule 13.
- 1.1.5. This Rev 003 supersedes Rev 002 of this document. This document has been submitted as part of Examination Deadline 5.



## 2 REVISED VIEWPOINTS AND ADDITIONAL PHOTOMONTAGE

### 2.1 Overview

- 2.1.1. As set out above, following the submission of the Application in May 2018, NYCC requested that some of the photographs (as shown in chapter 10 of the Environmental Statement submitted with the application, Examination Library Reference APP-078) were retaken due to a lack of clarity because of poor weather conditions. A further photomontage was also requested on the basis that most of the photomontages were taken at an oblique angle and this additional photomontage would provide a close-up elevation. The revised viewpoints were taken from the following locations on 1 September 2018:
  - Viewpoint 6: From PRoW along Landing Lane.
  - Viewpoint 7: From public footpath adjacent to Howden Dyke Road, South East of Howden.
  - Viewpoint 8: From PRoW on embankment, west of Hill Street, Airmyn.
- 2.1.2. The new photomontage was taken from:
  - Viewpoint 9: From PRoW close to Drax Village and Read School.
- 2.1.3. This information supplements the Landscape and Visual Impact Assessment (LVIA) in the Environmental Statement.
- 2.1.4. The additional photomontage has now been revised to reflect the correct lighting level based on the field verified existing view (refer to the field verified existing view and field verified revised photomontage in Appendix 1).

## 2.2 Methodology

- 2.2.1. The revised photographs were taken on 1 September 2018 with good weather conditions and visibility. The photographs were taken in accordance with good practice guidelines. Refer to Appendix 10.3 (LVIA Methodology) of the Environmental Statement (Examination Library Reference APP- 119) for further details.
- 2.2.2. A Nikon D3200 SLR Camera with a Nikon DX AF-S NIKKOR 35mm 1:1.8G lens, a Manfrotto 190go tripod and MHXPRO-3W X-PRO 3-way head with a Trimble Juno Series GPS Reader was used to take the photographs and geo-locate the camera position, and these were field verified. Images were photo-stitched to provide contextual views.
- 2.2.3. The location of the revised viewpoints is shown in Appendix 1, Figure 1.1 of this document (Viewpoint Location Plan for Revised Viewpoints and New Photomontage); and the three revised viewpoints presented in Appendix 1, Figure 1.2a to c (Revised Field Verified View).
- 2.2.4. The additional "revised" photomontage is presented in Appendix 1, Figure 1.3a and b (Field Verified Existing View and Photomontage).

## 2.3 Conclusion

2.3.1. Whilst the revised viewpoints and new photomontage provide, respectively, further information on the available views and on the form of the Proposed Scheme, they do not alter



the findings of the Landscape and Visual Impact Assessment (LVIA), or the significance of visual effects as set out in Chapter 10 of the Environmental Statement, Rev.001 and Rev.002 of this document. Consideration of the revised additional photomontage with amended lighting levels likewise does not alter the findings of significance or the conclusions of the LVIA.



# 3 PROPOSED NON-MATERIAL AMENDMENTS TO PROJECT DESCRIPTION AND PARAMETERS OF THE PROPOSED SCHEME

## 3.1 Overview

3.1.1. As set out above, a number of non-material design amendments are proposed to some of the Proposed Scheme's structures in terms of length, width and height, and a non-material amendment is proposed with respect to how the battery storage facility is constructed, as summarised in Table 3-1 below and reflected in the updated draft DCO submitted for Deadline 3 of the Examination (Examination Library Reference REP3-007).

Table 3.1 - Summary of Proposed Non-Material Amendments to the Project Description and Parameters of the Proposed Scheme

| Element                                    | Original Design                  | Proposed Project Description or Parameter Changes |  |
|--|----------------------------------|---|--|
| Turbine Hall (for                          | Maximum length 92 m              | Maximum length 87 m (-5 m)                        |  |
| Unit X and Unit Y)                         | Maximum width 22 m               | Maximum width 23 m (+1m)                          |  |
| .,   | Maximum height 28 m (34 m AOD)   | Maximum height 28 m (34.m AOD) (unchanged))       |  |
| Heat Recovery                              | Maximum length 48 m              | Maximum length 55 m (+7m)                         |  |
| Steam<br>Generator                         | Maximum width 23 m               | Maximum width 29 m (+6m)                          |  |
| (HRSG) (for<br>Unit X and Unit<br>Y)       | Maximum height 38 m (44 m AOD)   | Maximum height 49 m (55 m AOD) (+11m)             |  |
| HRSG Exhaust<br>Stack / Bypass             | Maximum height 120 m (126 m AOD) | Minimum height 122.5 m (128.5 m AOD) (+2.5 m)     |  |
| Stack (for Unit X and Unit Y)              |                                  | Maximum height 123.0 m (129m AOD)                 |  |
| Gas Turbine                                | Maximum length 36 m              | Maximum length 36 m (unchanged)                   |  |
| Transformers<br>(for Unit X and<br>Unit Y) | Maximum width 17 m               | Maximum width 20 m (+3 m)                         |  |
|  | Maximum height 11 m (17 m AOD)   | Maximum height 11 m (17 m AOD) unchanged)         |  |
| Gas Turbine Air                            | Maximum length 16 m              | Maximum length 26 m (+10 m)                       |  |
| Inlet (for Unit X and Unit Y)              | Maximum width 19 m               | Maximum width 27 m (+8 m)                         |  |
| 2  | Maximum height 36 m (42 m AOD)   | Maximum height 35 m (41m AOD) (-1 m)              |  |



| Element   | Original Design                                       | Proposed Project Description or Parameter Changes |  |
|---|---|---|--|
| Power control   | Maximum length 30m                                    | Maximum length 17 m (-13m)                        |  |
| centre (for Unit<br>X and Unit Y)                           | Maximum width 17m                                     | Maximum width 17 m (unchanged)                    |  |
| X and only  | Maximum height 6m (12m AOD)                           | Maximum height 6 m (12 m AOD) (unchanged)         |  |
| Fuel Gas  | Maximum length 36 m                                   | Maximum length 26 m (-10m)                        |  |
| Station (for Unit X and Unit Y)                             | Maximum width 25 m                                    | Maximum width 19 m (-9 m)                         |  |
| , and one .,  | Maximum height 3 m (9 m AOD)                          | Maximum height 7 m (13 m AOD) (+4 m)              |  |
| Main Pipe Rack  | Maximum length 11 m                                   | Maximum length 600 m for Unit X                   |  |
| (for Unit X and<br>Unit Y)                                  | Maximum width 11 m                                    | and 1,100 m for Unit Y                            |  |
| J 1 )   | Maximum height 19 m (25 m                             | Maximum width 12 m                                |  |
|   | AOD)  | Maximum height 25 m (31m AOD)(+6m)                |  |
| Gas Insulated   | Maximum length 36 m                                   | Maximum length 18 m (-18 m)                       |  |
| Switchgear<br>Banking                                       | Maximum width 16 m                                    | Maximum width 12 m (-4 m)                         |  |
| Building (for<br>Unit X and Unit<br>Y)                      | Maximum height 10 m (16 m AOD)                        | Maximum height 11 m (17m AOD) (+1 m)              |  |
| Control Room  | No parameters given in                                | Maximum length 26 m                               |  |
| Building for Gas<br>Insulated<br>Switchgear (for<br>Unit X) | Schedule 13 of the DCO, but parameters assumed in the | Maximum width 12 m                                |  |
|   | original Environmental Statement                      | Maximum height 11 m (17 m AOD)                    |  |

Note: The figures above are "rounded up" to the maximum figure for the draft DCO

3.1.2. As outlined in Section 1, the original photomontages were revised to reflect these non-material amendments to the Proposed Scheme design and submitted as part Deadline 3 (refer to Rev 002 Revised Viewpoints and Additional Photomontage (Examination Library Reference REP3-021)). The photomontages have been revised again following receipt of the latest layout model reflecting the latest indicative layouts and elevations and are presented in Appendix 2. No further changes to parameters are proposed. Figures followed by the suffix "A" represent the existing field verified view, "B" the field verified photomontage of the submitted Proposed Scheme and "C" the field verified photomontages of the revised Proposed Scheme. Figure 1.4 viewpoint location plan shows the location of the field verified views taken for the photomontages whilst Figures 1.5 A, B and C to Figure 1.10 A, B and C illustrate the existing view and photomontages outlined above.



3.1.3. The non-material design amendments have resulted in a slight change to the indicative site layouts and consequently the revised photomontages (Figures 1.5 to 1.10C). The Two Unit Option Indicative Plant Layout (Applicant's document reference 2.5A), an updated version of which is submitted at Deadline 5 has been used as the basis for the revised photomontages.



## 4 ASSESSMENT

## 4.1 Introduction

- 4.1.1. An assessment was undertaken of the proposed changes outlined in Section 3. The assessment considered the potential changes to effects within a 3 km radius of the Proposed Scheme. This radius was agreed with the Local Planning Authorities (NYCC and SDC) to be the limit of the area within which potential effects would be more pronounced on the understanding that effects diminish with distance (Examination Library Reference: REP1-006 Statement of Common Ground between Drax Power Limited and North Yorkshire County Council and Selby District Council Rev 001 (Draft) submitted for Deadline 1).
- 4.1.2. The assessment considered Stage 3 Operation of Unit X and Unit Y on the basis that all Units are complete and therefore the worst case scenario. The proposed changes to parameters would not change the effects of Stage 2: Operation of Unit X and Construction of Unit Y, which would be directly comparable to the assessment in the ES. If there were to be any differences in effects, it would be in the built form of Unit X and Unit Y, with Stage 3 being the worst case.
- 4.1.3. It is considered that the effects associated with construction and decommissioning would remain the same as the original application and that there would be no change in residual effects from the original application.
- 4.1.4. The battery storage construction would allow for the construction of the battery storage facility and the structure built to enclose or protect it in two stages. It is considered that given the other construction activities which would take place during Stage 1 and Stage 2, the presence of continued construction activities associated with the battery storage facility (which would form part of Stage 2) would result in an imperceptible change in effect and would thus not alter its significance as set out in the Environmental Statement. Previously a single building would have been constructed in Stage 1, meaning the land use would have changed from a mix of planting, ditches and areas of hard standing to built development in the first Stage of construction. Under the proposed amendment, the land for the Stage 2 battery facility would be a mix of semi improved grassland and scrub between Stage 1 and Stage 2. However, this land area is within the confines of the Existing Power Station Complex and as such given the fact the site is a working power station, and together with on-going construction work, the change in the construction of the battery storage facility would not change the landscape and visual conclusions of the Environmental Statement.
- 4.1.5. The methodology used to assess the effects was consistent with the method summarised in Environmental Statement Chapter 10 Landscape and Visual Amenity and Appendix 10.3 LVIA Methodology (Examination Library Reference APP-078 and APP-119 respectively).
- 4.1.6. The following paragraphs summarise the proposed changes to the submitted Proposed Scheme with the potential to alter the effect on the landscape and visual resource.
- 4.1.7. **Battery Storage Facility:** The battery storage facility would be constructed using battery storage shipping containers. The containers would be positioned adjacent to one another minimising any gaps in between and surrounded by a structure erected as screening to create the appearance of a single structure. This would maintain uniformity and avoid visual clutter. The indicative colour of the facility would remain unchanged, grey (BS4800 02-A-03) and



would be subject to the approval of SDC in accordance with a requirement of the Draft DCO. It is considered that whilst a "building" would no longer be constructed, the screen/shield would not materially alter the external appearance of the facility in terms of size (the parameters have not changed), colour and cladding. As such, there would be no change in landscape and visual effects from the original application.

- 4.1.8. Above Ground Installations (AGI): The parameters of the AGI would remain unchanged however due to the iterative design process, the design now includes a 7 m buffer to the edge of Dickon Field Drain, a culvert and a proposed extension to the access track to enable the landowner to access land to the south. This design has enabled further planting to be introduced in the form of scrub, hedgerows and species rich grassland in addition to the coppice woodland on the periphery of the AGI as indicated in Figure 6.7.10 Compensation Area Development Parcel J and K within the Outline Landscape and Biodiversity Strategy (Examination Library Reference REP2-026). It is considered that there would be no change in effect because of the changes to the design. Whilst additional planting would be introduced, gaps in planting would be generated elsewhere to accommodate the culvert and easements associated with the gas pipelines for Drax and National Grid. Therefore, it is considered that the revisions to the AGI layout are neutral.
- 4.1.9. **Power Station Site Parameters**: The parameters for the power station structures have changed due to the iterative design process. The key structures which have the potential to alter the visual composition of the Proposed Scheme include:
  - HRSG Exhaust / Bypass Stacks The stacks associated with Units X and Y would increase in height by up to 3 m. The stacks however would be seen in context with the existing cooling towers and the differential between the height of the existing cooling towers and the revised stack heights would remain at 6 m. This has resulted from the provision of new information on the existing site topography which has allowed for a more refined height of the existing cooling towers above ordnance datum (AOD) and above ground level (AGL) to be determined.
  - Heat Recovery Steam Generators (HRSGs) The HRSGs which wrap around the main stacks for both Unit X and Y would increase in height by 11 m.
- 4.1.10. The above structures are considered in further detail as part of the assessment.
- 4.1.11. Other structures which would be at a lower elevation include:
  - Gas Turbine Air Inlet The Gas Turbine Air Inlet would extend by 10m in length and 8 m in width
  - Main Pipe Rack Changes to the main pipe rack would result in an increase in height by 6 m. (The measurement of the length of the pipe was incorrect in original application and has subsequently been revised).
  - Fuel Gas Station The fuel gas station has resulted in an increase of 4 m in height with remaining parameters (width and length) reduced.
  - Gas Insulated Switchgear Banking Building Changes to this structure would result in an increase of 1 m in height whilst the width and length of the structure would reduce.
  - Power Control Centre Amendments to the Power Control Centre would result in a reduction in length of 13 m.



- 4.1.12. The structures in 4.1.11, where even visible, would be seen at a low elevation, against a backdrop of the Existing Drax Power Station Complex and partially screened by existing vegetation. Accordingly, the proposed changes are not considered to have any effect on the conclusions in the Environmental Statement and, as such, were not considered in the more detailed assessment as set out below.
- 4.1.13. The Assessment should be read in conjunction with the revised photomontages in Appendix 2, covering viewpoints 3, 5, 6, 9, 13 and 15 (Figure 1.5C to 1.10C).

## 4.2 Assessment of Landscape Effects

- 4.2.1. Key significant landscape effects associated with the original application related to LCT 23 Levels Farmland, LCT 24 River Floodplains, LCT 4 River Corridors and in particularly LCA 4A Derwent Valley, 4B River Ouse Corridor and 4D River Aire Corridor. Equally there would be significant adverse effects on the Lower Derwent Important Landscape Area (ILA) and local landscape character. The nature of effects associated with the original application is summarised in Table 4.1 below as well as the conclusions arising from this assessment of proposed changes.
- 4.2.2. Power Station Site Parameters: The assessment of effects on the landscape resource considers that whilst the sensitivity of the resource would remain unchanged (categorised as medium for LCTs / LCAs / local landscape character and high for the Lower Derwent ILA) the proposed parameter changes have the potential to result in a very slight change in the magnitude of change. This change, however, would not alter from medium, meaning that the significance of effect reported in the Environmental Statement remains unchanged.
- 4.2.3. It is considered that given the oblique angle from which the stacks would be viewed, and on the basis that a difference in height of 6 m would be maintained between the existing cooling towers and the proposed stacks, an increase in the height of the stacks would be barely perceptible. In terms of the HRSGs it is considered that there is the potential for a change; an increase in the mass of structures at a higher elevation has the potential to result in visual coalescence and clutter.
- 4.2.4. The consequence of these changes is insufficient to "tip" the balance of effects on specific landscape resources from either moderate or moderate major significance (as per the effects reported in the Proposed Scheme) to moderate- major and major effects.

Table 4.1 - Summary of Landscape Effects within a 3 km radius

| Landscape Character, Designations and Local Landscape Character |  | Stage 3 as the original application | Stage 3 with proposed non-material amendments | Residual Effects<br>(all remain<br>unchanged) |
|---|--|-------------------------------------|---|---|
| LCT 23<br>Levels<br>Farmland                                    |  | Moderate<br>adverse                 | Moderate adverse                              | Moderate<br>adverse (year 0<br>and year 15)   |
| LCT 24 River<br>Floodplain                                      |  | Moderate<br>adverse                 | Moderate adverse                              | Moderate<br>adverse (year 0<br>and year 15)   |



| Landscape Character, Designations and Local Landscape Character |                                  | Stage 3 as the original application | Stage 3 with proposed non-material amendments | Residual Effects<br>(all remain<br>unchanged)                 |
|---|----------------------------------|-------------------------------------|---|---|
| LCT 4 River<br>Corridors  | LCA<br>Derwent<br>Valley         | Moderate<br>adverse                 | Moderate adverse                              | Moderate<br>adverse (year 0<br>and year 15)                   |
|   | LCA 4B<br>Rover Ouse<br>Corridor | Moderate<br>adverse                 | Moderate adverse                              | Moderate<br>adverse (year 0<br>and year 15)                   |
|   | LCA 4D<br>River Aire             | Moderate<br>adverse                 | Moderate adverse                              | Moderate<br>adverse (year 0<br>and year 15)                   |
| Lower<br>Derwent ILA  |                                  | Moderate to major adverse           | Moderate to major adverse                     | Moderate to major adverse (year 0 and 15)                     |
| Local<br>landscape<br>character                                 |                                  | Moderate<br>adverse                 | Moderate adverse                              | Moderate<br>adverse (year 0)<br>Minor beneficial<br>(year 15) |

### 4.3 Assessment of Visual Effects

- 4.3.1. **Power Station Parameters:** As set out above, this assessment focusses on the changes to the key structures which would alter the visual composition of the Proposed Scheme, as described at paragraph 4.1.9, the overall stack height and the changes to the HRSGs.
- 4.3.2. Given the oblique angle from which the stacks would be viewed, and that the height difference between the existing cooling towers and the proposed stacks would remain at 6 m (as previously assessed), it is considered that the increase in the height of the stacks would be barely perceptible. In terms of the HRSGs it is considered that there is the potential for a perceptible change; an increase in the mass of structures at a higher elevation has the potential to result in slightly greater visual coalescence and clutter. Appendix 2, Viewpoint 3 (Photomontage 1.5C) demonstrates that from the north east the HRSGs would sit in context with the Existing Drax Power Station Complex, whilst from the south east, Viewpoint 9 (Photomontage 1.8C) the HRSGs associated with Unit Y would "appear" to extend the visual footprint of the Proposed Scheme due to an increase in their height and views of the sky foreshortened.
- 4.3.3. Whilst these changes have the potential to slightly increase the magnitude of change, this slight increase is not sufficient to change the category of magnitude and thus the findings of significance any receptor as set out in the Environmental Statement.
- 4.3.4. This assessment therefore concludes that the effects on specific visual receptors arising from the proposed amendments to the parameters remain the same as those found in the Environmental Statement submitted with the Application.



Table 4.2 Summary of Visual Effects within a 3 km radius

|  | 1                              | 1  | 1   |  |
|--|--------------------------------|--|---|--|
| Visual<br>Receptors                            |                                | Stage 3 as submitted                           | Stage 3 with proposed non-material amendments | Residual Effects<br>(all remain<br>unchanged)  |
| Residents                                      | Within 1<br>km radius          | Major and<br>Moderate –<br>Major adverse       | Major and<br>Moderate – major<br>adverse      | Year 0: Major and<br>Moderate – major<br>adverse<br>Year 15: Major,<br>Moderate – major<br>and minor -<br>moderate adverse |
|  | Between 1<br>to 3km<br>radius  | Moderate –<br>major adverse                    | Moderate – major<br>adverse                   | Year 0: Moderate-<br>major adverse<br>Year 15:<br>Moderate-major<br>adverse  |
| Recreational<br>Users (TPT and<br>NCN)         | Within 1<br>km radius          | Moderate –<br>major adverse                    | Moderate – major<br>adverse                   | Year 0: Moderate-<br>major adverse<br>Year 15:<br>Moderate-major<br>adverse  |
|  | Between 1<br>to 3 km<br>radius | Moderate –<br>major adverse                    | Moderate – major<br>adverse                   | Year 0: Moderate-<br>major adverse<br>Year 15:<br>Moderate-major<br>adverse  |
| Recreational users (PRoW and other facilities) | Within 1<br>km radius          | Moderate -<br>major and<br>moderate<br>adverse | Moderate - major<br>and moderate<br>adverse   | Year 0: Moderate  – major adverse and moderate adverse Y15: Moderate- major, moderate and minor adverse                    |
|  | Between 1<br>to 3 km<br>radius | Moderate-<br>major adverse                     | Moderate -major adverse                       | Year 0: Moderate - major adverse Year 15: Moderate and minor adverse   |
| Users of local road network                    | Within 1<br>km radius          | Moderate –<br>major and<br>moderate<br>adverse | Moderate – major<br>and moderate<br>adverse   | Year 0: Moderate  – major and moderate adverse Year 15 Moderate  – major, moderate and minor adverse                       |
|  | Between 1<br>to 3 km<br>radius | Moderate<br>adverse                            | Moderate adverse                              | Year 0: Moderate adverse   |



| Visual<br>Receptors                                   |                       | Stage 3 as submitted | Stage 3 with proposed non-material amendments | Residual Effects<br>(all remain<br>unchanged) |
|---|-----------------------|----------------------|---|---|
|   |                       |                      |   | Year 15:<br>Moderate and<br>minor adverse     |
| Users of places of worship and educational facilities | Within 1<br>km radius | Moderate<br>adverse  | Moderate adverse                              | Moderate adverse<br>(year 0 and year<br>15)   |

## 4.4 Conclusion

- 4.4.1. In terms of landscape and visual impacts, the key areas of change relate to the height of the HRSGs and HRSG Exhaust Stacks / Bypass Stacks which would be visually prominent and noticeable above surrounding vegetation and structures forming part of the Existing Drax Power Station Complex. Other design changes, as discussed previously are not considered to be important to the Landscape and Visual Amenity assessment since structures are at a low level, partially screened by surrounding vegetation and would be "read" as part of the industrial development, as illustrated by the field verified revised photomontages for Viewpoint 3 and 9 (Figure 1.5C and 1.8C respectively).
- 4.4.2. The degree of significance of effects is a continuum, from negligible to major significance. For the purposes of the environmental assessment this is divided into distinct steps or levels. It is considered that whilst the effects of the proposed non-material amendments have the potential to slightly increase the magnitude of change, this is not sufficient to reach a "tipping" point, changing the category of significance of effects. Therefore, in terms of both landscape and visual effects there would be no change in the significance of effects as originally reported in the Environmental Statement.
- 4.4.3. The non-material amendments are not sufficient to change the level of effect that is judged to arise. As stated in Chapter 10 Landscape and Visual Amenity of the Environmental Statement submitted with the Application (Examination Library Reference APP-078) at paragraph 10.4.55: "The gradation of magnitude of change and level of effect used in the assessment represents a continuum, the assessor uses professional judgment when gauging the level of effect and determining whether or not an effect should be considered significant".
- 4.4.4. Landscape and visual effects relate to the aesthetic and perceptual qualities of the Proposed Scheme against the Existing Drax Power Station Complex.
- 4.4.5. The stacks, which would increase in height by up to 3 m, would continue to protrude above the existing cooling towers and a difference in height of 6 m maintained between the existing cooling towers and the proposed stacks. The HRSG (which wraps around the main stacks for both Unit X and Y) would increase in height by 11 m, but this still only results in a very slight increase in the overall mass of structures at a higher elevation as can be seen in the photomontages in Appendix 2. The slight increase in massing of structures at a greater height

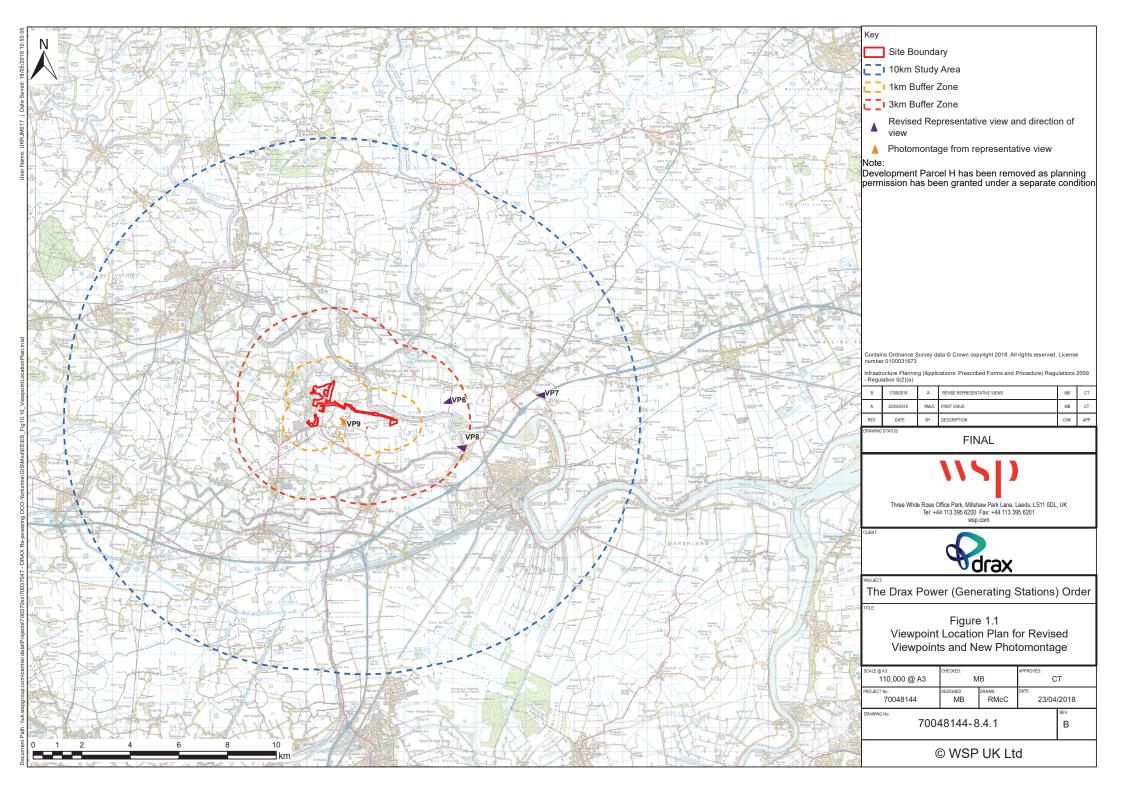


- has the potential to increase visual coalescence and clutter at a higher elevation, but this change, illustrated in the photomontages in Appendix 2, is not considered to be significant.
- 4.4.6. It is considered that whilst the footprint relating to the revised Proposed Scheme would slightly alter compared to the submitted Proposed Scheme (albeit the revised buildings and structures remain within the limits of deviation shown on the Works Plans as submitted with the Application), there would be no further loss of local landscape features.
- 4.4.7. The proposed non-material amendments to the Proposed Scheme do not alter the findings of level of significance of effect in landscape and visual terms.



## APPENDIX 1: VIEWPOINT LOCATION PLAN, VIEWPOINTS AND PHOTOMONTAGE







Representative View and Direction of View
Site boundary





 OS Grid Ref :
 471920, 427637

 Direction of view :
 South West

 Ground elevation :
 5m AOD

 Time taken :
 14:47pm

 Date taken :
 01/09/2018

 Site distance :
 2500m

Camera: Nikon D3200 with a fixed 35mm lens Sensor Size: Digital SLR with1.5 cropfactor

35mm equivalent focal length : 52.5mm

Horizontal field of view : 45.22 degrees

Camera height : 1.6m

When printed at A3 and viewed at a comfortable arm's length (Approx 500mm), this printed image is representative of our detailed central vision

Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009 – Regulation 5 (2)(a)

THE DRAX POWER (GENERATING STATIONS) ORDER

LANDSCAPE AND VISUAL IMPACT ASSESSMENT

VIEW 6: VIEW FROM PRoW ALONG LANDING LANE

FIGURE 1.2A REVISED FIELD VERIFIED VIEW







Representative View and Direction of View
Site boundary

Viewpoint Location

FINE NOTIVE WS PGROUP COMICENTRAL DATAIPROJECTS/700370X7700370X7 V7 DRAX RE-POWERING DCO-YORKSHIREIDRAX DCOUG EANOB LANDSCAPE AND VISUALIPHOTOMONTAGESIDRAX VIEWPOINT FIGURES FOLDER!





 OS Grid Ref :
 475854, 427395

 Direction of view :
 West

 Ground elevation :
 5m AOD

 Time taken :
 5:22pm

 Date taken :
 01/09/2018

 Site distance :
 7500m

Camera: Nikon D3200 with a fixed 35mm lens Sensor Size: Digital SLR with1.5 cropfactor

35mm equivalent focal length: 52.5mm
Horizontal field of view: 45.22 degrees
Camera height: 1.6m

When printed at A3 and viewed at a comfortable arm's length (Approx 500mm), this printed image is representative of our detailed central vision

Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009 - Regulation 5 (2)(a)

THE DRAX POWER (GENERATING STATIONS) ORDER

LANDSCAPE AND VISUAL IMPACT ASSESSMENT

VIEW 7: VIEW FROM PUBLIC FOOTPATH ADJACENT TO HOWDEN DYKE ROAD, SOUTH EAST OF HOWDEN

FIGURE 1.2B REVISED FIELD VERIFIED VIEW







Representative View and Direction of View
Site boundary

Viewpoint Location





 OS Grid Ref :
 472451, 425162

 Direction of view :
 West / North West

 Ground elevation :
 5m AOD

 Time taken :
 15:48pm

 Date taken :
 01/09/2018

 Site distance :
 2500m

Camera: Nikon D3200 with a fixed 35mm lens Sensor Size: Digital SLR with1.5 cropfactor

35mm equivalent focal length : 52.5mm

Horizontal field of view : 45.22 degrees

Camera height : 1.6m

When printed at A3 and viewed at a comfortable arm's length (Approx 500mm), this printed image is representative of our detailed central vision

Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009 - Regulation 5 (2)(a)

THE DRAX POWER (GENERATING STATIONS) ORDER

LANDSCAPE AND VISUAL IMPACT ASSESSMENT

VIEW 8: VIEW FROM PROW ON EMBANKMENT, WEST OF HILL STREET, AIRMYN

FIGURE 1.2C REVISED FIELD VERIFIED VIEW













467483, 426620 OS Grid Ref: Direction of view : South Easterly 17.63m AOD Ground elevation: 16:28pm Time taken : 01/09/2018 Date taken : 1119m

Site distance: Camera: Nikon D3200 with a fixed 35mm lens

Digital SLR with1.5 cropfactor Sensor Size :

52.5mm 35mm equivalent focal length: 45.22 degrees Horizontal field of view: 1.6m

When printed at A3 and viewed at a comfortable arm's length (Approx 500mm), this printed image is representative of our detailed central vision

Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009 – Regulation 5 (2)(a)

THE DRAX POWER (GENERATING STATIONS) ORDER

LANDSCAPE AND VISUAL IMPACT ASSESSMENT

VIEW 9: VIEW FROM PRoW CLOSE TO DRAX VILLAGE AND READ SCHOOL

FIGURE 1.3A FIELD VERIFIED EXISTING VIEW







Viewpoint Location





OS Grid Ref: 467483, 426620 South Easterly Direction of view : Ground elevation: 17.63m AOD Time taken : 16:28pm 01/09/2018 Date taken : 1119m

Site distance : Camera:

Nikon D3200 with a fixed 35mm lens Sensor Size: Digital SLR with 1.5 cropfactor

35mm equivalent focal length : 52.5mm Horizontal field of view 45.22 degrees Camera height : 1.6m

When printed at A3 and viewed at a comfortable arm's length (Approx 500mm), this printed image is representative of our detailed central vision

Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009 - Regulation 5 (2)(a)

THE DRAX POWER (GENERATING STATIONS) ORDER

LANDSCAPE AND VISUAL IMPACT ASSESSMENT

VIEW 9: VIEW FROM PRoW CLOSE TO DRAX VILLAGE AND READ SCHOOL

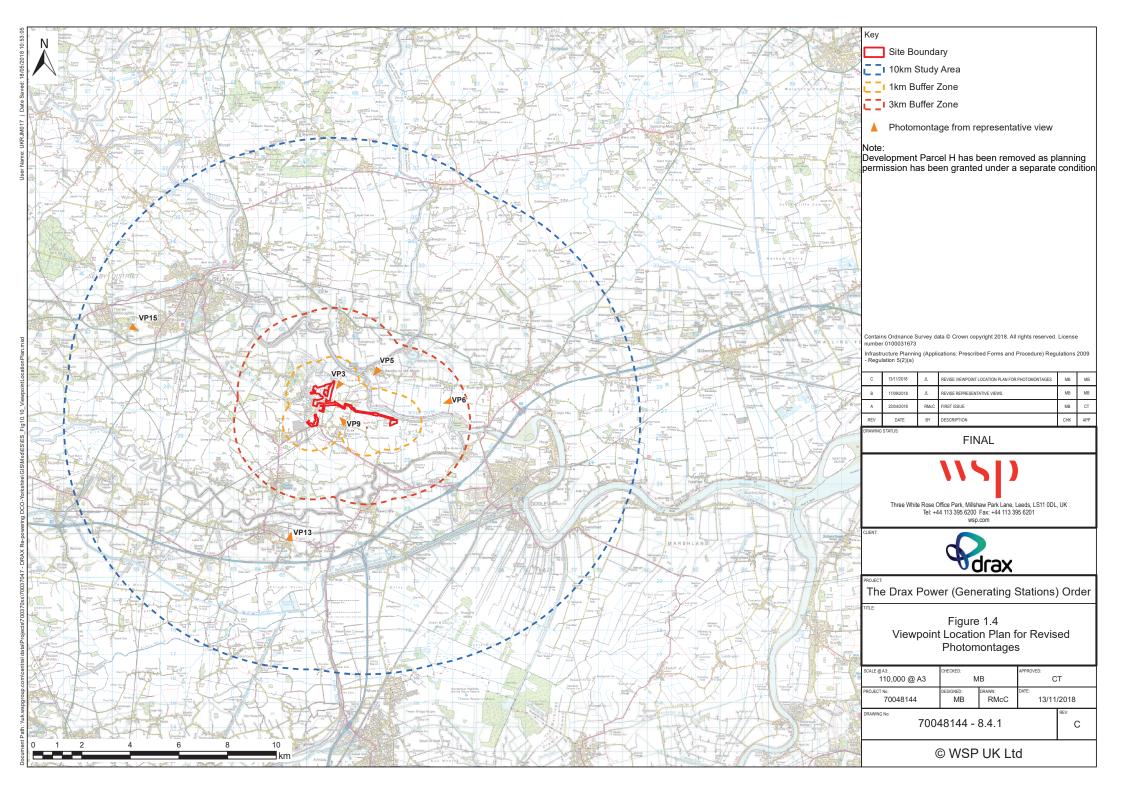
FIGURE 1.3B FIELD VERIFIED PHOTOMONTAGE





# APPENDIX 2: VIEWPOINT LOCATION PLAN, VIEWPOINTS, PHOTOMONTAGES AND REVISED PHOTOMONTAGES







OS Grid Ref : 467436, 428143

Direction of view : South Westerly

Ground elevation : 3.12m AOD

Time taken : 14:18pm

Date taken : 13/12/2017

Site distance : 1050m

Camera: Nikon D3200 with a fixed 35mm lens
Sensor Size: Digital SLR with1.5 cropfactor

35mm equivalent focal length: 52.5mm

Horizontal field of view: 36.66 degrees

Camera height: 1.6m

When printed at A3 and viewed at a comfortable arm's length (Approx 500mm), this printed image is representative of our detailed central vision. Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009 – Regulation 5 (2)(a)

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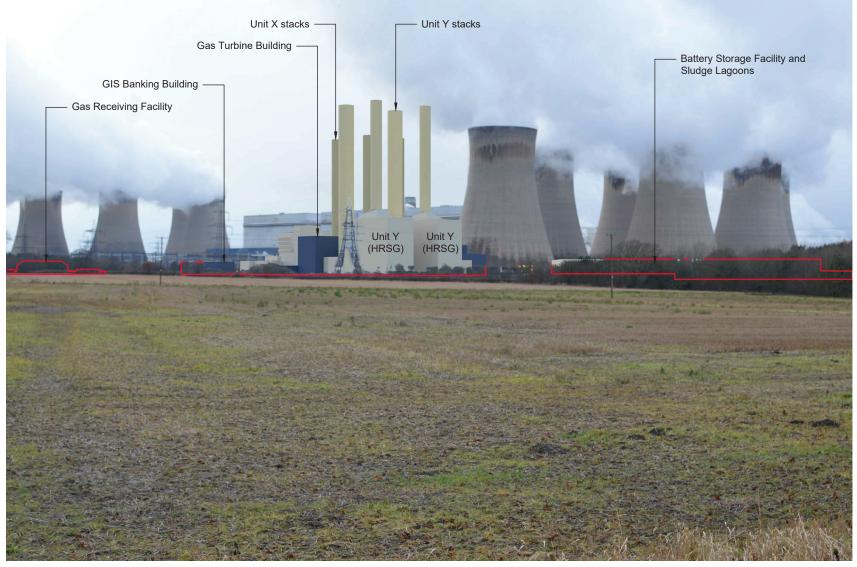
LANDSCAPE AND VISUAL IMPACT ASSESSMENT

VIEW 3: VIEW FROM PEAR TREE AVENUE CLOSE TO PRoW

FIGURE: 1.5A FIELD VERIFIED EXISTING VIEW







OS Grid Ref : 467436, 428143 Direction of view South Westerly Ground elevation 3.12m AOD Time taken : 14:18pm 13/12/2017 Date taken : Site distance :

Nikon D3200 with a fixed 35mm lens Camera: Digital SLR with1.5 cropfactor Sensor Size :

35mm equivalent focal length 52.5mm Horizontal field of view : 36.66 degrees Camera height :

When printed at A3 and viewed at a comfortable arm's length (Approx 500mm), this printed image is representative of our detailed central vision. Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009 - Regulation 5 (2)(a)

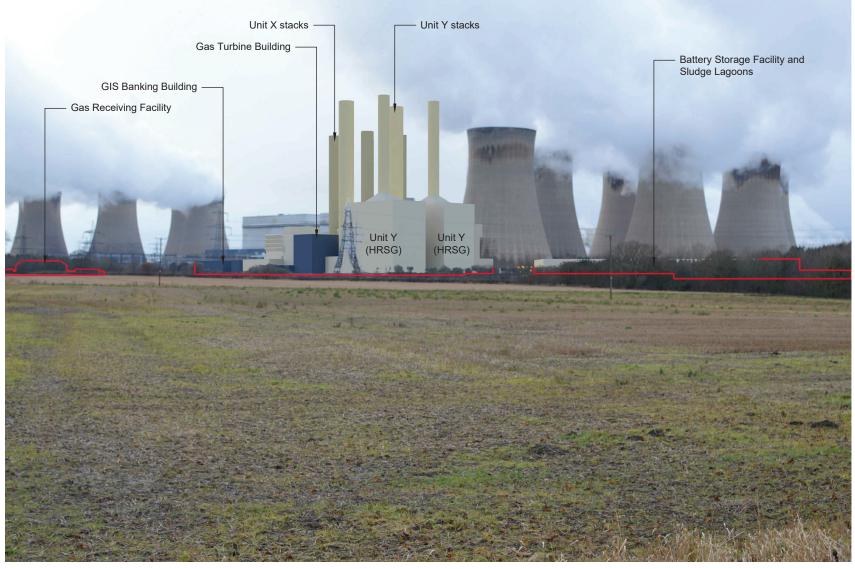


THE DRAX POWER (GENERATING STATIONS) ORDER

VIEW 3: VIEW FROM PEAR TREE AVENUE CLOSE TO PRoW

LANDSCAPE AND VISUAL IMPACT ASSESSMENT

FIGURE: 1.5B FIELD VERIFIED PHOTOMONTAGE



OS Grid Ref : 467436, 428143 Direction of view South Westerly Ground elevation 3.12m AOD Time taken : 14:18pm 13/12/2017 Date taken : Site distance :

Nikon D3200 with a fixed 35mm lens Camera: Digital SLR with1.5 cropfactor Sensor Size :

35mm equivalent focal length: 52.5mm Horizontal field of view : 36.66 degrees Camera height :

When printed at A3 and viewed at a comfortable arm's length (Approx 500mm), this printed image is representative of our detailed central vision. Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009 - Regulation 5 (2)(a)



THE DRAX POWER (GENERATING STATIONS) ORDER

VIEW 3: VIEW FROM PEAR TREE AVENUE CLOSE TO PRoW

FIGURE: 1.5C FIELD VERIFIED REVISED PHOTOMONTAGE

LANDSCAPE AND VISUAL IMPACT ASSESSMENT



 OS Grid Ref :
 468648, 428731

 Direction of view :
 South Westerly

 Ground elevation :
 5.155m AOD

 Time taken :
 14:29pm

 Date taken :
 14/12/2017

 Site distance :
 2375m

Camera: Nikon D3200 with a fixed 35mm lens
Sensor Size: Digital SLR with1.5 cropfactor

35mm equivalent focal length: 52.5mm
Horizontal field of view: 36.66 degrees
Camera height: 1.6m

When printed at A3 and viewed at a comfortable arm's length (Approx 500mm), this printed image is representative of our detailed central vision.

Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009 – Regulation 5 (2)(a)

THE DRAX POWER (GENERATING STATIONS) ORDER

LANDSCAPE AND VISUAL IMPACT ASSESSMENT

VIEW 5: VIEW FROM BARMBY ON THE MARSH

FIGURE: 1.6A FIELD VERIFIED EXISTING VIEW







OS Grid Ref : 468648, 428731 Direction of view : South Westerly Ground elevation 5.155m AOD Time taken : 14:29pm Date taken : 14/12/2017 2375m Site distance :

Nikon D3200 with a fixed 35mm lens Digital SLR with 1.5 cropfactor Sensor Size :

35mm equivalent focal length: 52.5mm Horizontal field of view : 36.66 degrees Camera height : 1.6m

When printed at A3 and viewed at a comfortable arm's length (Approx 500mm), this printed image is representative of our detailed central vision. Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009 – Regulation 5 (2)(a)

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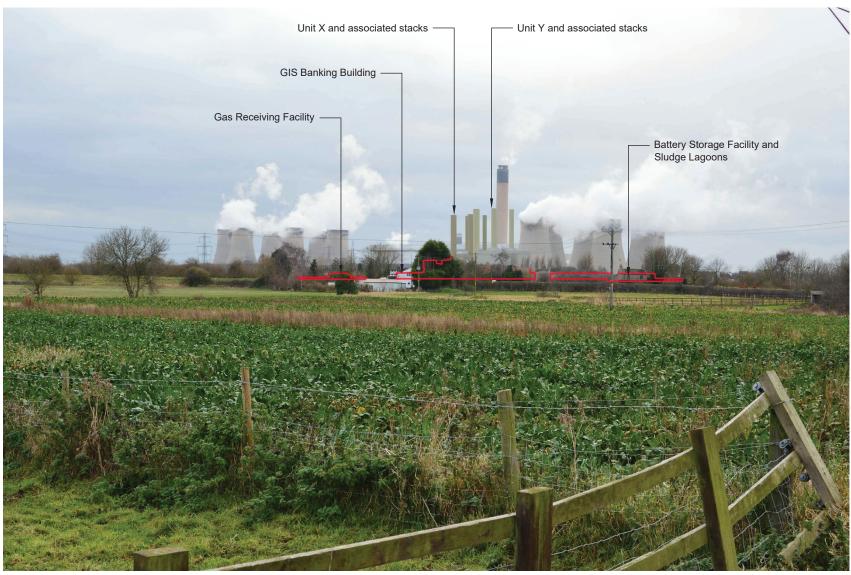
LANDSCAPE AND VISUAL IMPACT ASSESSMENT

VIEW 5: VIEW FROM BARMBY ON THE MARSH

FIGURE: 1.6B FIELD VERIFIED PHOTOMONTAGE







 OS Grid Ref :
 468648, 428731

 Direction of view :
 South Westerly

 Ground elevation :
 5.155m AOD

 Time taken :
 14:29pm

 Date taken :
 14/12/2017

 Site distance :
 2375m

Camera: Nikon D3200 with a fixed 35mm lens
Sensor Size: Digital SLR with1.5 cropfactor

35mm equivalent focal length : 52.5mm

Horizontal field of view : 36.66 degrees

Camera height : 1.6m

When printed at A3 and viewed at a comfortable arm's length (Approx 500mm), this printed image is representative of our detailed central vision.

Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009 – Regulation 5 (2)(a)

THE DRAX POWER (GENERATING STATIONS) ORDER

LANDSCAPE AND VISUAL IMPACT ASSESSMENT

VIEW 5: VIEW FROM BARMBY ON THE MARSH

FIGURE: 1.6C FIELD VERIFIED REVISED PHOTOMONTAGE







OS Grid Ref : 471920, 427637
Direction of view : Westerty
Ground elevation : 4.675m AOD
Time taken : 14:15pm
Date taken : 14/12/2017
Site distance : 5280m

Camera : Nikon D3200 with a fixed 35mm lens
Sensor Size : Digital SLR with1.5 cropfactor

35mm equivalent focal length : 52.5mm

Horizontal field of view : 36.66 degrees

Camera height : 1.6m

When printed at A3 and viewed at a comfortable arm's length (Approx 500mm), this printed image is representative of our detailed central vision. Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009 – Regulation 5 (2)(a)

THE DRAX POWER (GENERATING STATIONS) ORDER

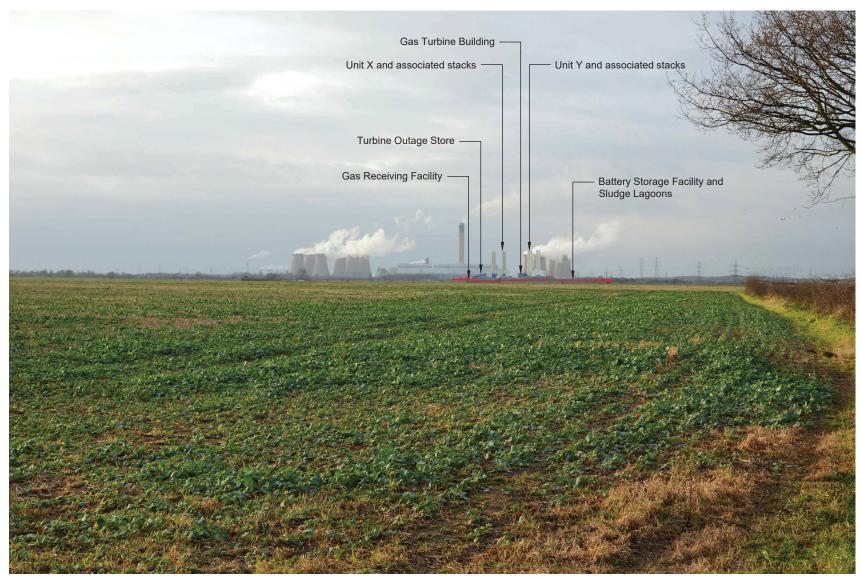
LANDSCAPE AND VISUAL IMPACT ASSESSMENT

VIEW 6: VIEW FROM PRoW ALONG LANDING LANE

FIGURE: 1.7A FIELD VERIFIED EXISTING VIEW







 OS Grid Ref :
 471920, 427637

 Direction of view :
 Westerty

 Ground elevation :
 4.675m AOD

 Time taken :
 14:15pm

 Date taken :
 14/12/2017

 Site distance :
 5280m

Camera: Nikon D3200 with a fixed 35mm lens
Sensor Size: Digital SLR with1.5 cropfactor

35mm equivalent focal length: 52.5mm

Horizontal field of view: 36.66 degrees

Camera height: 1.6m

When printed at A3 and viewed at a comfortable arm's length (Approx 500mm), this printed image is representative of our detailed central vision.

Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009 – Regulation 5 (2)(a)

THE DRAX POWER (GENERATING STATIONS) ORDER

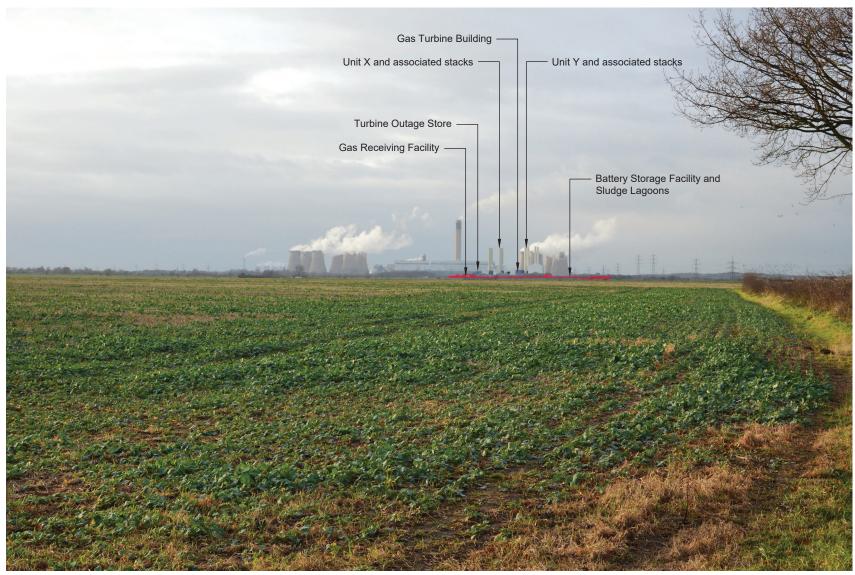
LANDSCAPE AND VISUAL IMPACT ASSESSMENT

VIEW 6: VIEW FROM PRoW ALONG LANDING LANE

FIGURE: 1.7B FIELD VERIFIED PHOTOMONTAGE







 OS Grid Ref :
 471920, 427637

 Direction of view :
 Westerty

 Ground elevation :
 4.675m AOD

 Time taken :
 14:15pm

 Date taken :
 14/12/2017

 Site distance :
 5280m

Camera: Nikon D3200 with a fixed 35mm lens
Sensor Size: Digital SLR with1.5 cropfactor

35mm equivalent focal length : 52.5mm

Horizontal field of view : 36.66 degrees

Camera height : 1.6m

When printed at A3 and viewed at a comfortable arm's length (Approx 500mm), this printed image is representative of our detailed central vision.

Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009 – Regulation 5 (2)(a)

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LANDSCAPE AND VISUAL IMPACT ASSESSMENT

VIEW 6: VIEW FROM PRoW ALONG LANDING LANE

FIGURE: 1.7C FIELD VERIFIED REVISED PHOTOMONTAGE







OS Grid Ref : 467483, 426620
Direction of view : South Easterly
Ground elevation : 17.63m AOD
Time taken : 16:28pm
Date taken : 01/09/2018
Site distance : 1119m

Camera: Nikon D3200 with a fixed 35mm lens
Sensor Size: Digital SLR with1.5 cropfactor

35mm equivalent focal length: 52.5mm

Horizontal field of view: 36.66 degrees

Camera height: 1.6m

When printed at A3 and viewed at a comfortable arm's length (Approx 500mm), this printed image is representative of our detailed central vision.

Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009 – Regulation 5 (2)(a)

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LANDSCAPE AND VISUAL IMPACT ASSESSMENT

VIEW 9: VIEW FROM PRoW CLOSE TO DRAX VILLAGE AND READ SCHOOL

FIGURE: 1.8A FIELD VERIFIED EXISTING VIEW







OS Grid Ref : 467483, 426620
Direction of view : South Easterly
Ground elevation : 17.63m AOD
Time taken : 16:28pm
Date taken : 01/09/2018
Site distance : 1119m

Camera : Nikon D3200 with a fixed 35mm lens
Sensor Size : Digital SLR with1.5 cropfactor

35mm equivalent focal length: 52.5mm
Horizontal field of view: 36.66 degrees
Camera height: 1.6m

When printed at A3 and viewed at a comfortable arm's length (Approx 500mm), this printed image is representative of our detailed central vision.

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LANDSCAPE AND VISUAL IMPACT ASSESSMENT

VIEW 9: VIEW FROM PRoW CLOSE TO DRAX VILLAGE AND READ SCHOOL

FIGURE: 1.8B FIELD VERIFIED PHOTOMONTAGE







OS Grid Ref : 467483, 426620
Direction of view : South Easterly
Ground elevation : 17.63m AOD
Time taken : 16:28pm
Date taken : 01/09/2018
Site distance : 1119m

Camera : Nikon D3200 with a fixed 35mm lens
Sensor Size : Digital SLR with1.5 cropfactor

35mm equivalent focal length: 52.5mm

Horizontal field of view: 36.66 degrees

Camera height: 1.6m

When printed at A3 and viewed at a comfortable arm's length (Approx 500mm), this printed image is representative of our detailed central vision. Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009 – Regulation 5 (2)(a)

THE DRAX POWER (GENERATING STATIONS) ORDER

LANDSCAPE AND VISUAL IMPACT ASSESSMENT

VIEW 9: VIEW FROM PRoW CLOSE TO DRAX VILLAGE AND READ SCHOOL

FIGURE: 1.8C FIELD VERIFIED REVISED PHOTOMONTAGE







OS Grid Ref : 465286, 421712
Direction of view : North Easterly
Ground elevation : 8.922m AOD
Time taken : 11:55am
Date taken : 13/12/2017
Site distance : 5935m

Camera: Nikon D3200 with a fixed 35mm lens
Sensor Size: Digital SLR with1.5 cropfactor

35mm equivalent focal length: 52.5mm

Horizontal field of view: 36.66 degrees

Camera height: 1.6m

When printed at A3 and viewed at a comfortable arm's length (Approx 500mm), this printed image is representative of our detailed central vision.

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THE DRAX POWER (GENERATING STATIONS) ORDER

LANDSCAPE AND VISUAL IMPACT ASSESSMENT

VIEW 13: VIEW FROM PRoW ALONG FISH BALK LANE

FIGURE: 1.9A FIELD VERIFIED EXISTING VIEW







OS Grid Ref : 465286, 421712
Direction of view : North Easterly
Ground elevation : 8.922m AOD
Time taken : 11:55am
Date taken : 13/12/2017
Site distance : 5935m

Camera: Nikon D3200 with a fixed 35mm lens
Sensor Size: Digital SLR with1.5 cropfactor

35mm equivalent focal length: 52.5mm

Horizontal field of view: 36.66 degrees

Camera height: 1.6m

When printed at A3 and viewed at a comfortable arm's length (Approx 500mm), this printed image is representative of our detailed central vision.

Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009 – Regulation 5 (2)(a)

THE DRAX POWER (GENERATING STATIONS) ORDER

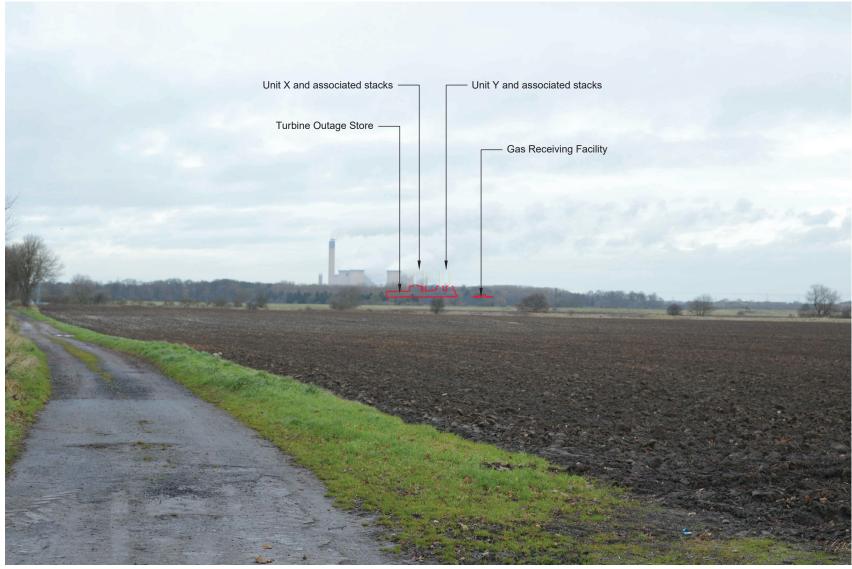
LANDSCAPE AND VISUAL IMPACT ASSESSMENT

VIEW 13: VIEW FROM PRoW ALONG FISH BALK LANE

FIGURE: 1.9B FIELD VERIFIED PHOTOMONTAGE







OS Grid Ref : 465286, 421712
Direction of view : North Easterly
Ground elevation : 8,922m AOD
Time taken : 11:55am
Date taken : 13/12/2017
Site distance : 5935m

Camera: Nikon D3200 with a fixed 35mm lens
Sensor Size: Digital SLR with1.5 cropfactor

35mm equivalent focal length: 52.5mm

Horizontal field of view: 36.66 degrees

Camera height: 1.6m

When printed at A3 and viewed at a comfortable arm's length (Approx 500mm), this printed image is representative of our detailed central vision.

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LANDSCAPE AND VISUAL IMPACT ASSESSMENT

VIEW 13: VIEW FROM PRoW ALONG FISH BALK LANE

FIGURE: 1.9C FIELD VERIFIED REVISED PHOTOMONTAGE







OS Grid Ref : 458801, 430586
Direction of view : South Easterly
Ground elevation : 15.582m AOD
Time taken : 10.45am
Date taken : 14/12/2017
Site distance : 8475m

Camera: Nikon D3200 with a fixed 35mm lens
Sensor Size: Digital SLR with1.5 cropfactor

35mm equivalent focal length: 52.5mm

Horizontal field of view: 36.66 degrees

Camera height: 1.6m

When printed at A3 and viewed at a comfortable arm's length (Approx 500mm), this printed image is representative of our detailed central vision.

Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009 – Regulation 5 (2)(a)

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LANDSCAPE AND VISUAL IMPACT ASSESSMENT

VIEW 15: VIEW FROM BRAYTON BARFF COUNTRY PARK

FIGURE: 1.10A FIELD VERIFIED EXISTING VIEW







 OS Grid Ref :
 458801, 430586

 Direction of view :
 South Easterly

 Ground elevation :
 15.582m AOD

 Time taken :
 10:45am

 Date taken :
 14/12/2017

 Site distance :
 8475m

Camera: Nikon D3200 with a fixed 35mm lens
Sensor Size: Digital SLR with1.5 cropfactor

35mm equivalent focal length: 52.5mm

Horizontal field of view: 36.66 degrees

Camera height: 1.6m

When printed at A3 and viewed at a comfortable arm's length (Approx 500mm), this printed image is representative of our detailed central vision.

Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009 – Regulation 5 (2)(a)

THE DRAX POWER (GENERATING STATIONS) ORDER

LANDSCAPE AND VISUAL IMPACT ASSESSMENT

VIEW 15: VIEW FROM BRAYTON BARFF COUNTRY PARK

FIGURE: 1.10B FIELD VERIFIED PHOTOMONTAGE







 OS Grid Ref :
 458801, 430586

 Direction of view :
 South Easterly

 Ground elevation :
 15.582m AOD

 Time taken :
 10.45am

 Date taken :
 14/12/2017

 Site distance :
 8475m

Camera: Nikon D3200 with a fixed 35mm lens
Sensor Size: Digital SLR with1.5 cropfactor

35mm equivalent focal length : 52.5mm

Horizontal field of view : 36.66 degrees

Camera height : 1.6m

When printed at A3 and viewed at a comfortable arm's length (Approx 500mm), this printed image is representative of our detailed central vision.

Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009 – Regulation 5 (2)(a)

THE DRAX POWER (GENERATING STATIONS) ORDER

LANDSCAPE AND VISUAL IMPACT ASSESSMENT

VIEW 15: VIEW FROM BRAYTON BARFF COUNTRY PARK

FIGURE: 1.10C FIELD VERIFIED REVISED PHOTOMONTAGE





