

YG-DCO-093

Yorkshire Green Energy Enablement (GREEN) Project

Volume 8

**Document 8.4.2 Applicant's Response to OFH1 and ISH1 Hearing
Action Points**

**Final Issue A
April 2023**

Planning Inspectorate Reference: EN020024

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

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Version History

Document	Version	Status	Description / Changes
05/04/2023	A	Final	First Issue

1. About this document

1. Introduction

- 1.1.1. This document provides National Grid Electricity Transmission Plc's (National Grid) (the Applicant) response to Action Points addressed to the Applicant arising from Open Floor Hearing (OFH) 1 [EV-004a] held on Wednesday 21 March and Issue Specific Hearing (ISH) 1 [EV-003a] held on Thursday 22 March 2023, in respect of the Yorkshire Green Energy Enablement Project (Yorkshire GREEN) (the Project).
- 1.1.2. Responses to actions addressed to the Applicant are provided in **sections 2 and 3** below.

2. The Applicant’s Response to OFH1 Action Points

Table 2.1 – Response to OFH1 Action Points

Action No.	ExA description	Party	Deadline	Response
1	Applicant to incorporate within an updated version of the Public Rights of Way Management Plan [APP-100] maps to indicate the location of bridleways that may be affected by the construction of the Proposed Development.	The Applicant	D2	National Grid is currently updating the Access, Rights of Way and Public Rights of Navigation Plan (Document 2.7.1-2.7.6) [APP-026-031] and will submit an update of these to the examination as requested at Deadline 2.
2	Provide a written summary of your comments made at Open Floor Hearing 1.	Speakers at OFH 1	D1	Please see Applicant's Written Summary of Oral Representations made at Open Floor Hearing 1 (Document 8.4.1.1) . National Grid has also set out a detailed response to comments made by other parties to the hearing in Applicant's Comments on Open Floor Hearings (Document 8.4.3) .

3. The Applicant’s Response to ISH1 Action Points

Table 3.1 – Response to ISH1 Action Points

Action No.	ExA description	Party	Deadline	Response
1	Provide a list of the in-line tension pylons	The Applicant	D1	National Grid has prepared a schedule of all tension pylons and indicates in a column those that are in-line tension pylons, which is available to view at Appendix A of this document: Tension Pylon and Conductor Pulling Position Schedule.
2	Review the wording in the dDCO of the work under Work 8(e) to better clarify the proposed work.	The Applicant	D1	National Grid proposes that the description of Work No. 8(e) be updated in the draft Development Consent Order (DCO) to be submitted at Deadline 3. This wording will change from: <i>"(e) the dismantling and removal of existing pylon XD001T, a single circuit span between XD001 and XC481, and associated foundations;"</i> To: <i>"(e) the dismantling and removal of existing pylon XD001T and its associated foundations, and the removal of a single circuit of redundant conductors between XD001 and XC481;"</i>
3	Provide a diagram which indicates the Proposed Development which brings together the key information from Access plans, Works plans and Project Description plans	The Applicant	D2	National Grid is currently preparing the requested diagram with a view to submitting this as requested at Deadline 2.

Action No.	ExA description	Party	Deadline	Response												
	for Work No. 8 in the Tadcaster cable sealing end compound (CSEC) area.															
4	Applicant to provide a list of key references for documents and plans in regard to Mr Waite on behalf of Mr Ingham's area of interest.	The Applicant	D1	<p>An email will be sent to Mr Waite (on behalf of Mr Ingham), providing the information below:</p> <table border="1"> <thead> <tr> <th>Document Title</th> <th>Description</th> <th>PINS Reference and Link</th> </tr> </thead> <tbody> <tr> <td>Volume 4, Document 4.3 Book of Reference</td> <td>The book of Reference provides a list of all land-holders who's land may be affected by the Project. Mr Ingham's land is referred to within Part 1 and Part 2 of the document.</td> <td>[APP-071]</td> </tr> <tr> <td>Volume 4, Document 2.5.4(B) Land Plan Section D</td> <td>Shows the rights required over land as well as whether works are temporary or permanent. Sheet 1 of 2 is relevant to Mr. Ingham's land.</td> <td>[AS-008]</td> </tr> <tr> <td>Volume 2, Document 2.6.4</td> <td>Shows the type of work that will be</td> <td>[APP-023]</td> </tr> </tbody> </table>	Document Title	Description	PINS Reference and Link	Volume 4, Document 4.3 Book of Reference	The book of Reference provides a list of all land-holders who's land may be affected by the Project. Mr Ingham's land is referred to within Part 1 and Part 2 of the document.	[APP-071]	Volume 4, Document 2.5.4(B) Land Plan Section D	Shows the rights required over land as well as whether works are temporary or permanent. Sheet 1 of 2 is relevant to Mr. Ingham's land.	[AS-008]	Volume 2, Document 2.6.4	Shows the type of work that will be	[APP-023]
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Volume 4, Document 4.3 Book of Reference	The book of Reference provides a list of all land-holders who's land may be affected by the Project. Mr Ingham's land is referred to within Part 1 and Part 2 of the document.	[APP-071]														
Volume 4, Document 2.5.4(B) Land Plan Section D	Shows the rights required over land as well as whether works are temporary or permanent. Sheet 1 of 2 is relevant to Mr. Ingham's land.	[AS-008]														
Volume 2, Document 2.6.4	Shows the type of work that will be	[APP-023]														

Action No.	ExA description	Party	Deadline	Response
				Works Plan Section D carried out on the land during construction and operation of the Project. Sheet 1 of 2 is relevant to Mr. Ingham's land.
				Volume 5, Document 5.4.3(B) Chapter 3 Environmental Statement (ES) Description of the Project Figures, Figure 3.4, Section D and Figure 3.11 Shows the existing and proposed infrastructure over Mr. Ingham's land. Figure 3.11 shows the Outline Landscape Mitigation Strategy at Tadcaster.
				Volume 7, Document 7.1 Planning Statement Describes the relevant planning policy in relation to the Project and demonstrates how the approach taken to developing the Project, complies with relevant policy.
				Volume 7, Document 7.8 Corridor and Preliminary Provides the outcome of the routeing and siting

Action No.	ExA description	Party	Deadline	Response
				<p>Routeing and Siting Study 2021</p> <p>study carried out as part of the Project.</p> <p>Section 5 covers the Tadcaster area. This should be read alongside sections 2 (approach) and 3.3 (the study area).</p>
				<p>Volume 5, Document 5.1 ES Non-Technical Summary</p> <p>This provides a non-technical summary of the Project, including a summary of the route selection and alternatives process, what is being proposed, a summary of the environmental assessments, and a summary of cumulative impacts.</p> <p>[APP-072]</p>
				<p>Volume 5, Document 5.2.2 ES Chapter 2 Project Need and Alternatives</p> <p>Describes the need for the Project and the alternatives considered.</p> <p>Key sections relating to the Tadcaster area include 2.6.14-2.6.23; and 2.8.24-</p> <p>[APP-074]</p>

Action No.	ExA description	Party	Deadline	Response
				<p>2.8.33. Earlier chapters set out relevant policy, guidance and the approach taken.</p> <p>Volume 7, Document 7.4 Updated Need Case</p> <p>Applicant's response to Representation by Mr Waite on behalf of Mr Ingham.</p>
				<p>Describes the need for the Project. [APP-205]</p> <p>Relevant Representation. National Grid's response to these will be provided at Deadline 1.</p> <p>Applicant's response to Relevant Representation submitted at Deadline 1 (Document 8.3)</p>
5	Submit a project description clarification note bringing together in writing the matters covered orally under Items 3.1-3.4.	The Applicant	D1	National Grid has prepared a Project Description Clarification Note at Appendix B of this document to provide further information covered in items 3.1-3.4 of the ISH.
6	Provide a post hearing note to update the indicative construction programme and the Gantt	The Applicant	D1	National Grid has prepared a Post Hearing Note at Appendix C of this document to provide further clarification on this matter.

Action No.	ExA description	Party	Deadline	Response
	charts to cover the queries raised to align with each other.			It is envisaged, for example as a result of responding to the Examining Authority written questions, that further updates to the indicative construction programme may be required. Updates will be provided at subsequent deadlines in an appropriate format, such as an ES Errata document or Addendum, depending on the updates required.
7	Ensure that all 'riders' that are contained in the Environmental Statement (ES) are also reflected in the Addendum Landscape and Visual Impacts Assessment (LVIA) document for the travellers' site at the junction of the A1(M) and A63.	The Applicant	D1	<p>Environmental Statement Addendum (Document 5.2.20), submitted at Deadline 1, cross-refers the reader of that Document (paragraph 1.1.4) to the relevant information in ES Chapter 6: Landscape and Visual (Document 5.2.6) [APP-078].</p> <p>Paragraph 1.1.4 of Document 5.2.20 also clarifies that the Addendum has been undertaken in accordance with the methodology used for the wider landscape and visual assessment contained in ES Chapter 6: Landscape and Visual (Document 5.2.6) [APP-078].</p>
8	Check that the definition of "maintain" covers all that is required for landscape maintenance.	The Applicant	D3	National Grid is considering the definition of "maintain" and will provide an update on this as requested at Deadline 3.
9	Undertake a thorough audit of the dDCO and Explanatory Memorandum (EM) to separate the works to be undertaken and benefits of the Order for Northern Power Grid (Yorkshire) plc and Northern	The Applicant	D3	National Grid is currently auditing the draft DCO and Explanatory memorandum to separate the works undertaken and benefits of the Order for the two entities referred to and will provide a further update as requested at Deadline 3.

Action No.	ExA description	Party	Deadline	Response																																							
	Powergrid (Northeast) plc, including articles 2, 6, 7, and the Protective Provisions.																																										
10	Table and map to be provided to clarify the extent of the different Northern Power Grid (NPG) interests: NPG (Northeast) plc and NPG (Yorkshire) plc	Northern Power Grid (Yorkshire) plc and Northern Powergrid (Northeast) plc	D1	<p>National Grid understands that the below table is an accurate reflection of the demarcation of works for each of the Northern Power Grid entities:</p> <table border="1"> <thead> <tr> <th>Work Nos.</th> <th>Work and Land Plan section and sheet ref.</th> <th>NPG entity</th> </tr> </thead> <tbody> <tr> <td>U1</td> <td>Work Plan Section B, Sheet 1</td> <td>Northeast</td> </tr> <tr> <td>U2</td> <td>Work Plan Section B, Sheet 1& 2</td> <td>Northeast</td> </tr> <tr> <td>U3</td> <td>Work Plan Section B, Sheet 2</td> <td>Northeast</td> </tr> <tr> <td>U4</td> <td>Work Plan Section B, Sheet 3</td> <td>Northeast</td> </tr> <tr> <td>U5</td> <td>Work Plan Section B, Sheet 3 & 4</td> <td>Northeast</td> </tr> <tr> <td>U6</td> <td>Work Plan Section B Sheet 5</td> <td>Northeast</td> </tr> <tr> <td>U7</td> <td>Work Plan Section C, Sheet 9</td> <td>Yorkshire</td> </tr> <tr> <td>U8</td> <td>Work Plan Section C, Sheet 9</td> <td>Yorkshire</td> </tr> <tr> <td>U9</td> <td>Work Plan Section D, Sheet 1</td> <td>Yorkshire</td> </tr> <tr> <td>U11</td> <td>Work Plan Section E, Sheet 2</td> <td>Yorkshire</td> </tr> <tr> <td>U12</td> <td>Work Plan Section E, Sheet 3</td> <td>Yorkshire</td> </tr> <tr> <td>U13</td> <td>Work Plan Section E, Sheet 3</td> <td>Yorkshire</td> </tr> </tbody> </table>	Work Nos.	Work and Land Plan section and sheet ref.	NPG entity	U1	Work Plan Section B, Sheet 1	Northeast	U2	Work Plan Section B, Sheet 1& 2	Northeast	U3	Work Plan Section B, Sheet 2	Northeast	U4	Work Plan Section B, Sheet 3	Northeast	U5	Work Plan Section B, Sheet 3 & 4	Northeast	U6	Work Plan Section B Sheet 5	Northeast	U7	Work Plan Section C, Sheet 9	Yorkshire	U8	Work Plan Section C, Sheet 9	Yorkshire	U9	Work Plan Section D, Sheet 1	Yorkshire	U11	Work Plan Section E, Sheet 2	Yorkshire	U12	Work Plan Section E, Sheet 3	Yorkshire	U13	Work Plan Section E, Sheet 3	Yorkshire
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				<table border="1"> <tr> <td>U14</td> <td>Work Plan Section E, Sheet 5</td> <td>Yorkshire</td> </tr> <tr> <td>U15</td> <td>Work Plan Section E, Sheet 6</td> <td>Yorkshire</td> </tr> </table>	U14	Work Plan Section E, Sheet 5	Yorkshire	U15	Work Plan Section E, Sheet 6	Yorkshire
U14	Work Plan Section E, Sheet 5	Yorkshire								
U15	Work Plan Section E, Sheet 6	Yorkshire								
11	Consider providing definitions of the following in the dDCO: 'cable sealing end compound', 'supporting structure' and 'construction activities'.	The Applicant	D3	National Grid is currently considering whether it is appropriate to provide the definitions referred to in the draft DCO and a further update will be provided as requested at Deadline 3.						
12	Remove word 'commence' from article 26.	The Applicant	D3	National Grid will update Article 26 accordingly in the draft DCO to be submitted at Deadline 3.						
13	Consider the best way of presenting non-linear Limits of Deviation (LoD) together with LoD for the linear parts of the Proposed Development in one place.	The Applicant	D2	National Grid has updated the Works Plan to include the limits of deviation for the non-linear works, this relates to works in Sections B and D. However, due to this amendment all Sections of the Works Plan have been updated to account for a change in the legend. The updated plans have been submitted at Deadline 1, Documents 2.6.1(B) – 2.6.6(B) . This has been submitted in advance of the requested deadline.						
14	Provide clarity to the controls for height as they relate to vertical limits for LoD and the Parameter Plans.	The Applicant	D3	National Grid is considering how further clarity can be provided on the controls for height contained in the Limits of Deviation and Parameter Plans. A further update will be provided as requested at Deadline 3 as requested.						
15	Clarify what assumptions have been made in the ES about the maximum	The Applicant	D1	The Limits of Deviation (LoD) are described in paragraphs 3.3.3 to 3.3.6 of ES Chapter 3 Description of the Project (Document 5.2.3) [APP-075] . As set out in paragraph 3.3.5 no vertical LoD are						

Action No.	ExA description	Party	Deadline	Response
	depth of all underground activities and the relevant LoD.			<p>proposed in relation to below ground works such as underground cabling. For the purposes of the assessment the maximum depth of excavation for open trench cabling is assumed to be up to 2m and this assumption has been used in the assessment of effects in relation to below ground archaeology, geology and groundwater and agricultural land and soils (ES Volume 5, Chapter 7: Historic Environment, Document 5.2.7 [APP-079], ES Chapter 10: Geology and Hydrogeology, Document 5.2.10 [APP-082] and Chapter 11 Agriculture and soils, Document 5.2.11 [APP-083]).</p> <p>With regards to potentially deeper excavations, which could result in impacts on groundwater, the assessment has assumed depths of less than 4m for substations, approximately 3.4m depth for excavation for pylon construction and 2m depth for Cable Sealing End Compound excavation (Appendix 10B Assessment of Physical Effects on Ground Water (Focus Areas) (Document 5.3.10B) [APP-140]). The deep groundwater, which is within bedrock Principal Aquifers, is well below the excavation depths assumed (see paragraphs 2.2.2, 3.2.1 and 4.3.4 of Appendix 10B Assessment of Physical Effects on Ground Water (Focus Areas) (Document 5.3.10B) [APP-140]). With regards to Horizontal Directional Drilling (HDD) required at Tadcaster no specific depth of cable is assumed. However as outlined in paragraph 10.9.60 of ES Chapter 10: Geology and Hydrogeology (Document 5.2.10) [APP-082] the HDD methodology will be designed to take into account the geology to ensure that potential effects on groundwater (for example inadvertent release of drilling fluids) are avoided. Such measures will be secured via Appendix 3B Code of Construction Practice (Document 5.3.3B) [APP-095] which will be secured through Requirement 5 of the Draft Development Consent Order (Document 3.1(B)) [AS-011].</p>

Action No.	ExA description	Party	Deadline	Response
16	Drawing Numbers for the Parameter Plans to be specified in article 5 of the dDCO.	The Applicant	D3	National Grid is currently considering the best way to specify drawing numbers for the Parameter Plans in article 5 of the DCO. A further update will be provided as requested at Deadline 3.
17	Update the Parameter Plans to annotate the NPG transformer compound.	The Applicant	D2	National Grid is currently working on an update to the Parameter Plans to annotate the NPG transformer compound. This will be submitted as requested at Deadline 2.
18	Applicant to consider adding the Environmental Statement to the list of documents to be certified under article 48.	The Applicant	D3	National Grid is considering whether to add the Environmental Statement to the list of documents to be certified at Article 48. A further update will be provided as requested at Deadline 3.
19	Consider providing the certified outline landscape mitigation plans in standalone certified document.	The Applicant	D3	National Grid is considering the request to provide the certified outline landscape mitigation plans in standalone certified document. A further update will be provided as requested at Deadline 3.
20	Update the Explanatory Memorandum to explain why no separate consent is being sought in respect of works affecting scheduled monuments with reference to Ancient Monuments and Archaeological Areas Act 1979.	The Applicant	D3	National Grid is currently updating the Explanatory Memorandum to explain why no separate consent is being sought in respect of works affecting scheduled monuments with reference to Ancient Monuments and Archaeological Areas Act 1979. An updated version of the Explanatory Memorandum will be provided at Deadline 3.

Action No.	ExA description	Party	Deadline	Response
21	Provide evidence that Historic England is content with the proposed approach in relation to the above.	The Applicant	D2	National Grid agreed with Historic England that it would be appropriate to seek DCO powers to authorise access works at Lead (Scheduled Monument 1020326, Medieval manorial complex, garden and water management features, St Mary's Chapel, and a linear earthwork forming part of the Aberford Dyke system) for construction where adherence to the methods statement for access previously agreed with Historic England was conditioned (Post-PEI consultation call between National Grid and Historic England 1 February 2022). National Grid subsequently advised Historic England that they intended to use DCO powers to authorise maintenance access, again in line with the agreed methods statement (email from National Grid to Historic England). Historic England noted agreement with this approach (response from Historic England 10 May 2022). The agreed Methods Statement was submitted to the examination as Appendix 7G of the Environmental Statement (Document 5.3.7G) [APP-122] . These agreements, and details of correspondence are captured in the Statement of Common Ground - Historic England (Document 8.5.8) to be submitted at Deadline 1.
22	Update the Code of Construction Practice (CoCP) to correct error in cross referencing and clarify project commitments in relation to the mitigation of effects on the scheduled monuments	The Applicant	D2	These amendments are clarified in the ES Errata Document (Document 5.2.19) submitted at Deadline 1 and will be included in an updated Code of Construction Practice to be submitted at Deadline 2.
23	Define 'night time' in the context of overnight	The Applicant	D2	National Grid is currently considering defining 'night time' in the context of overnight closures to the River Ouse within the Public

Action No.	ExA description	Party	Deadline	Response
	closures to the River Ouse in [APP-100].			Rights of Way Management Plan (Document 5.3.3G) [APP-100]. A further update will be provided at Deadline 2.
24	Provide a written list and justification of the Associated Development sought in sections (a) to (u) of Schedule 1. Consider the consolidation of sections (c) and (t) and any other areas of simplification or precision.	The Applicant	D1	<p>Schedule 1 of the draft Development Consent Order (Document 3.1(B)) [AS-011] (DCO) sets out a list of all of the other works that will be required to complete the project, but are not all shown on the works plans, which only relate to the main linear and non-linear works. All of the work elements set out in (a) – (u) are needed to safely construct the proposed development.</p> <p>A short explanation of why Points (a) – (u) are included, and how this will be used for the Project, is set out in Appendix D below.</p> <p>As was stated during the hearing, National Grid proposes to consolidate limb (c) and (t) into one and this update will be included within the draft DCO to be submitted at Deadline 3.</p>
25	Consider the wording of Schedule 3 Requirement 1(1)(n) in regard to pre-commencement works and the activities which do not fall within paragraphs (a) to (m).	The Applicant and Local Authorities	D1	<p>National Grid has considered the wording of limb (n) in the definition of pre-commencement works following points raised by the ExA and City of York Council during the hearing and proposes to remove this wording from the definition in the next iteration of the draft DCO to be submitted at Deadline 3.</p> <p>National Grid does not consider that the caveat of 'not likely to have significant effects on the environment' should apply to the activities listed in (a) through to (m). Some of these activities may give rise to likely significant effects but, to the extent that they do, these effects have been assessed and will be mitigated through the certified plans secured by Requirement 5, such as the Code of Construction Practice (Document 5.3.3B) [APP-095].</p>

Action No.	ExA description	Party	Deadline	Response
26	Submit a framework document/ template to indicate how a staging plan might be structured.	The Applicant	D1	National Grid has prepared an example template to indicate how a written scheme of stages might be structured, which is available to view at Appendix E of this document: Template Structure of a Written Scheme of Stages – For Information.
27	Add an implementation clause into Requirement 4 (Stages of authorised development).	The Applicant	D3	National Grid is updating the wording of Requirement 4 and this clause will be included within the DCO submitted at Deadline 3.
28	Produce a one page 'plan of plans' that explains the relationship between the various management plans.	The Applicant	D1	A ' Plan of Plans to the Application ' document has been submitted to the Examination at Deadline 1 (Document 8.4.4).
29	Submit final agreed versions of Protective Provisions by Deadline 5.	The Applicant and all relevant statutory undertakers	D5	National Grid is currently progressing protective provisions with all relevant parties. Updates will be provided throughout the examination with the aim of finalising the agreed form of these provisions by Deadline 5. An update on the status of side agreements and protective provisions can be found within the Applicant's planning obligations and commercial side agreements tracking list (Document 8.8) .
30	Northern Powergrid to confirm which is the 132kV substation referred to in its relevant representation.	Northern Power Grid (Yorkshire) plc and Northern Powergrid	D1	This action is not for National Grid.

Action No.	ExA description	Party	Deadline	Response
		(Northeast) plc		
31	Provide an update on progress on Planning Performance Agreements.	The Applicant	D2	An update will be provided on the progress of Planning Performance Agreements as requested at Deadline 2.

Appendix A ISH1 Action Point 1: Tension Pylon and Conductor Pulling Position Schedule

Yorkshire Green Energy Enablement Project						Drawn:	TF	Drawing Number:	YG-DCO-094-A
Tension Pylon Schedule with Proposed Conductor Pulling Positions						Checked:	SF	Revision:	A
						Approved:	EMD	Date	05/04/2023
New and Reconstructed Overhead Line									
<u>Route Name</u>	<u>Voltage</u>	<u>Structure Number</u>	<u>Proposed Pulling Position</u>	<u>Inline Tension</u>	<u>Project Section</u>	<u>Work. No</u>	<u>DCO Document Title</u>	<u>Sheet Number</u>	<u>Latest PINS Document Reference</u>
YR	400kV	YR001A	No	No	A	No. 1	2.6.1 Works Plan Section A	1	APP-020
YR	400kV	YR002	No	No	A	No. 1	2.6.1 Works Plan Section A	1	APP-020
YR	400kV	YR036	Yes	Yes	B	No. 2	2.6.2 Works Plan Section B	1	APP-021
YR	400kV	YR040	No	No	B	No. 2	2.6.2 Works Plan Section B	1	APP-021
2TW	400kV	2TW169	Yes	No	B	No. 2	2.6.2 Works Plan Section B	1	APP-021
2TW	400kV	2TW168	No	No	B	No. 2	2.6.2 Works Plan Section B	1	APP-021
YN	400kV	YN001	Yes	No	B	No. 2	2.6.2 Works Plan Section B	1	APP-021
YN	400kV	YN004	Yes	No	B	No. 3	2.6.2 Works Plan Section B	1	APP-021
YN	400kV	YN005	Yes	No	B	No. 3	2.6.2 Works Plan Section B	2	APP-021
YN	400kV	YN008	Yes	No	B	No. 3	2.6.2 Works Plan Section B	2	APP-021
SP	275kV	SP003	Yes	No	B	No. 5	2.6.2 Works Plan Section B	2	APP-021
SP	275kV	SP004	Yes	No	B	No. 5	2.6.2 Works Plan Section B	3	APP-021
SP	275kV	SP006	Yes	No	B	No. 5	2.6.2 Works Plan Section B	3	APP-021
SP	275kV	SP007	Yes	No	B	No. 5	2.6.2 Works Plan Section B	3	APP-021
XC	275kV	XC416	Yes	No	B	No. 6	2.6.2 Works Plan Section B	2	APP-021
XC	275kV	XC417	No	Yes	B	No. 6	2.6.2 Works Plan Section B	2	APP-021
XC	275kV	XC419	Yes	No	B	No. 6	2.6.2 Works Plan Section B	3	APP-021
XC	275kV	XC422	Yes	No	B	No. 6	2.6.2 Works Plan Section B	4	APP-021
XC	275kV	XC425	Yes	No	B	No. 6	2.6.2 Works Plan Section B	5	APP-021
XC	275kV	XC429	Yes	No	B	No. 6	2.6.2 Works Plan Section B	5	APP-021
XC	275kV	XC435	Yes	Yes	C	No. 7	2.6.3 Works Plan Section C	2	APP-022
XC	275kV	XC438	Yes	No	C	No. 7	2.6.3 Works Plan Section C	2	APP-022
XC	275kV	XC446	Yes	No	C	No. 7	2.6.3 Works Plan Section C	3	APP-022
XC	275kV	XC451	Yes	Yes	C	No. 7	2.6.3 Works Plan Section C	4	APP-022
XC	275kV	XC460	Yes	No	C	No. 7	2.6.3 Works Plan Section C	6	APP-022
XC	275kV	XC473	Yes	Yes	C	No. 7	2.6.3 Works Plan Section C	8	APP-022
XC	275kV	XC475	Yes	No	C	No. 7	2.6.3 Works Plan Section C	9	APP-022
XC	275kV	XC481	Yes	No	D	No. 8	2.6.4 Works Plan Section D	1	APP-023

Yorkshire Green Energy Enablement Project							Drawn:	TF	Drawing Number:	YG-DCO-094-A
Tension Pylon Schedule with Proposed Conductor Pulling Positions							Checked:	SF	Revision:	A
							Approved:	EMD	Date	05/04/2023
New and Reconstructed Overhead Line										
<u>Route Name</u>	<u>Voltage</u>	<u>Structure Number</u>	<u>Proposed Pulling Position</u>	<u>Inline Tension</u>	<u>Project Section</u>	<u>Work. No</u>	<u>DCO Document Title</u>	<u>Sheet Number</u>	<u>Latest PINS Document Reference</u>	
XC	275kV	XC486	Yes	No	E	No. 9	2.6.5 Works Plan Section E	1	APP-024	
XC	275kV	XC494	Yes	No	E	No. 9	2.6.5 Works Plan Section E	2	APP-024	
XC	275kV	XC505	Yes	No	E	No. 9	2.6.5 Works Plan Section E	4	APP-024	
XC	275kV	XC511	Yes	Yes	E	No. 9	2.6.5 Works Plan Section E	5	APP-024	
XC	275kV	XC514	No	Yes	E	No. 9	2.6.5 Works Plan Section E	6	APP-024	
XC	275kV	XC517	Yes	No	E	No. 9	2.6.5 Works Plan Section E	6	APP-024	
XC	275kV	XC521	Yes	No	E	No. 10	2.6.5 Works Plan Section E	7	APP-024	
XC	275kV	XC522	Yes	No	F	No. 10	2.6.6 Works Plan Section F	1	APP-025	
XC	275kV	XC523	Yes	No	F	No. 10	2.6.6 Works Plan Section F	1	APP-025	
XC	275kV	XC524	Yes	No	F	No. 10	2.6.6 Works Plan Section F	1	APP-025	
XC	275kV	XC526	Yes	No	F	No. 10	2.6.6 Works Plan Section F	1	APP-025	
Temporary and Dismantling Overhead Line										
XD	275kV	XD001	No	No	D	No. 8	2.6.4 Works Plan Section D	2	APP-023	
XD	275kV	XD007	No	No	D	No. 8	2.6.4 Works Plan Section D	2	APP-023	
4YS	400kV	4YS029	No	No	F	No. 11	2.6.6 Works Plan Section F	1	APP-025	
4ZZ	400kV	4ZZ001A	No	No	F	No. 11	2.6.6 Works Plan Section F	1	APP-025	
Temporary and Dismantling Overhead Line										
YR	400kV	YR039T	No	No	B	No. 2	2.6.2 Works Plan Section B	1	APP-021	
XCP	275kV	XCP001	No	Yes	B	No. 6	2.6.2 Works Plan Section B	5	APP-021	
XCP	275kV	XCP004	No	No	B	No. 6	2.6.2 Works Plan Section B	5	APP-021	
XCP	275kV	XCP004T	Yes	No	B	No. 6	2.6.2 Works Plan Section B	5	APP-021	
XCP	275kV	XCP006BT	Yes	No	B	No. 6	2.6.2 Works Plan Section B	4	APP-021	
XC	275kV	XC428T	No	No	B	No. 6	2.6.2 Works Plan Section B	5	APP-021	
XC	275kV	XC430T	No	No	B	No. 6	2.6.2 Works Plan Section B	5	APP-021	
XC	275kV	XC522T	No	No	F	No. 10	2.6.6 Works Plan Section F	1	APP-025	
XC	275kV	XC523T	No	No	F	No. 10	2.6.6 Works Plan Section F	1	APP-025	
XC	275kV	XC525T	No	No	F	No. 10	2.6.6 Works Plan Section F	1	APP-025	
XC	275kV	XC550	Yes	No	F	No. 10	2.6.6 Works Plan Section F	1	APP-025	
XC	275kV	XC551	Yes	No	F	No. 10	2.6.6 Works Plan Section F	1	APP-025	

Appendix B ISH1 Action Point 4: Project Description Clarification Note

YG-DCO-093-B

Yorkshire Green Energy Enablement (GREEN) Project

Volume 8

Document 8.4.2 Appendix B: Project Description Clarification Note

**Final Issue A
April 2023**

Planning Inspectorate Reference: EN020024

Infrastructure Planning (Applications, Prescribed Forms and Procedure)
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Version History

Document	Version	Status	Description / Changes
05/04/2023	A	Final	First Issue

1. Introduction

1.1 Purpose of the document

1.1.1 The project description clarification note has been produced in response to action point 5 from the Issues Specific Hearing 1 held on Thursday the 23rd of March, and provides further written clarification in addition to the oral evidence given at the hearing and is provided for the following agenda items:

- 3.1 Overall scope of the Proposed Development;
- 3.2 The scope of Work No. 6, southeast of Moor Monkton;
- 3.3 The scope of Work No. 8, southwest of Tadcaster; and
- 3.4 The scope of Work No. 10, southwest of Lumby.

2. Project Description Clarification

Table 2.1 – Additional clarification for agenda item 3.1 overall scope of the Proposed Development

Agenda Item	Response	References to application documents
Why the works at Osbaldwick Substation are necessary	<p>Currently there are two circuits running between Osbaldwick and Norton, a two ended circuit (2TW / YR). As part of the Yorkshire Green works, a double tee is being created off the existing YR route to Overton, resulting in two three-ended circuits, between Osbaldwick, Overton and Norton. Both of these three-ended circuits will have banked transformers at the Overton end and therefore there is a risk of ferroresonance, which is a temporary over voltage condition where there is an increase in current which can burn out and damage substation equipment.</p> <p>To protect against the risk of ferroresonance, the Yorkshire Green project requires the installation of substation equipment and switchgear (such as a circuit breaker) at Osbaldwick on one of the circuits (the other circuit already has one existing) to be able to break the circuit and avoid damage in the substation. Further information can be found in paragraph 3.4.1 of ES Chapter 3 Description of the Project, (Document 5.2.3) [APP-075] and Schedule 1 of the draft Development Consent Order (Document 3.1(B)) [AS-011].</p>	Works Plan Section A (Document 2.6.1) [APP-020].
The nature of the works that would be included in existing overhead lines (OHL) to be reconducted, in OHLs	<p>Reconductoring: Overhead line reconductoring works comprise the replacement of the existing conductor system with a new conductor system so that the overhead line meets the rating requirement of the project. The Yorkshire GREEN project needs to increase the capacity of the existing overhead line, and increase the rating to allow more power to</p>	Glossary (Document 1.4) [APP-004].

<p>to be modified, and in OHLs to be reconfigured</p>	<p>be transferred. The new conductor system proposed can achieve a higher rating than the existing conductor system that cannot achieve the rating required.</p> <p>A conductor is a material that allows electricity to flow through it. These are the wires or cables for overhead lines and underground cables, Glossary (Document 1.4) [APP-004]. The replacement conductors will look the same as on the existing overhead lines, except there will be an additional wire per pylon arm (see ES Chapter 3 Description of the Project Figure 3.14 (Document 5.2.3) [APP-075]).</p> <p>In addition, the earthwire, insulators and fittings are also to be replaced with new equipment.</p> <p>On the YR section, this will be a like-for-like replacement of a twin conductor system, whereas for the XC route this will be a single conductor system replaced with a twin conductor system (ES Chapter 3 Description of the Project, Figure 3.14 (Document 5.2.3) [APP-075]).</p> <p>Reconductoring is covered in Schedule 1 (authorised development) of the draft DCO Document 3.1(B) [AS-011] and the Works Plan under the following works:</p> <ul style="list-style-type: none"> • Work No.2 = reconductoring of the 2TW/YR 400kV OHL (Works Plan (Document 2.6.2) [APP-021], Section B, Sheet 1) • Work No.6 = reconductoring some of the XC OHL (Works Plan (Document 2.6.2) [APP-021], Section B, Sheet 5) • Work No.7 = reconductor XC OHL (Work Plan (Document 2.6.3) [APP-022], Section C, Sheet 1 to Sheet 9) • Work No.8 = reconductor XC OHL (Works Plan (Document 2.6.4) [APP-023], Section D, Sheet 1) • Work No.9 = reconductor XC OHL (Works Plan (Document 2.6.5) [APP-024], Section E, Sheet 1 to Sheet 7) <p>Reconductoring works typical take up to 4 gangs, with 4-8 workers per gang, and approximately 10 days to pull a typical section (tension to tension pylon).</p>	<p>Non-Technical Summary (Document 5.1) [APP-072].</p> <p>ES Chapter 3 Description of the Project (Document 5.2.3) [APP-075].</p> <p>Works Plan (Documents 2.6.2, 2.6.3, 2.6.4 and 2.6.5) [APP-021, APP-022, APP-023 and APP-024].</p> <p>Draft Development Consent Order (Document 3.1(B)) [AS-011].</p>
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In some instances, there may be a requirement to replace or strengthen steelwork, and repair or strengthen foundations, but this is captured under 'Pylon Modification' referred to below.

Modification:

Overhead line modification works do not comprise the replacement of a conductor system, but instead allow for works to be carried out on the existing conductor system that is being retained. For example, the existing XD 275kV conductors will be temporarily used as part of the proposed temporary diversion before the conductors are returned back to the existing structures. This may result in changes to the sag, tension and regulation of the conductor for the length of the XD OHL, therefore, re-tensioning works (using winches to pull the conductors to the correct tension) may be required to optimize and set the line to achieve statutory clearances. OHL modification works is independent of pylon modification works which is detailed below.

Modification is covered in Schedule 1 (authorised development) of the DCO (and the Works Plan) under the following works:

- Work No.8 = modify XD OHL (**Works Plan (Document 2.6.4) [APP-023], Section D, Sheet 1**).

Pylon modification works typically will take place with a gang of 4-5 workers, over a period of approximately a week per pylon.

Reconfiguration:

Overhead line reconfiguration is also commonly referred to as overhead line realignment (**ES Chapter 3 Description of the Project (Document 5.2.3) [APP-075]**) throughout the Application documentation.

Reconfiguration, or realignment, comprises a section of existing overhead line that is dismantled and rebuilt, along either the same, or similar alignment to the overhead line to be dismantled.

	<p>An example is shown on Works Plan Section B (Document 2.6.2) [APP-021], Sheet 5 (Work No. 6), where a section of the existing line is dismantled, a short section of new overhead line built on the same alignment, but then a new section deviates slightly from the existing alignment to connect back to the existing XC overhead line. Another example is shown on Works Plan Section F (Document 2.6.6) [APP-025], Sheet 1 (Work No. 10) where a section of the existing XC 275kV OHL at Monk Fryston is being reconfigured (realigned) to connect the overhead line into the proposed new Monk Fryston Substation, which comprises a short section of new pylons and conductors, and removal of the existing pylons and conductors.</p> <p>Reconfiguration is covered in Schedule 1 of the draft Development Consent Order (Document 3.1(B)) [AS-011], (and Works Plan) under the following works:</p> <ul style="list-style-type: none"> • Work No.6 = reconfigure XC OHL (Works Plan (Document 2.6.2) [APP-021], Sheet 5). • Work No.10 = reconfigure XC OHL (Works Plan (Document 2.6.6), [APP-025], Sheet 1). • Work No.11 = reconfigure 4YS OHL (Works Plan (Document 2.6.6), [APP-025], Sheet 1). 	
<p>The nature of works that would be included in lattice pylon modification</p>	<p>Pylon Modification Pylon modification refers to works that will be undertaken to an existing pylon.</p> <p>Pylon modification works are required on the Project where there is an interaction with the existing overhead lines, primarily in relation to the reconductoring of the XC overhead line.</p> <p>Pylon modification relates to works only to a pylon, whereas OHL modification relates only to works on the conductor system, not the pylon.</p> <p>The existing XC overhead line is being reconductored from a single to a twin conductor system, which is also larger and heavier than the existing conductors. Due to this, existing pylons require some works so that they can accommodate the new twin conductor system.</p>	<p>Works Plans Section B (Document 2.6.2) [APP-021].</p> <p>Draft Development Consent Order (Document 3.1(B)), AS-011).</p>

	<p>Pylon modification works cover the following items:</p> <ul style="list-style-type: none"> • Replacement of existing conductor attachment fittings at the end of each pylon crossarm to facilitate the use of a twin conductor system on a route previously designed for a single conductor system. • Replacement of existing steelwork bars (that make up the pylon) with stronger bars, and/or adding smaller bracing bars to reinforce existing steelwork, on parts of the pylons that were identified as ‘over utilised’ during analysis due to the larger and heavier twin conductor systems. Any damaged bars identified in a condition assessment that may be replaced would also be included. This is referred to as pylon strengthening. • Strengthening or repairs of existing pylons foundations to facilitate the larger and heavier conductor system. In addition, foundation modifications also comprise repair/upgrades to existing foundations that were identified as damaged through intrusive ground investigations. <p>Pylon Modification works are covered under the following Work Numbers in Schedule 1 of the draft Development Consent Order (Document 3.1(B)) [AS-011], and sections of the Works Plans:</p> <ul style="list-style-type: none"> • Work No.2 = reconductoring 2TW/YR OHL (Works Plan (Document 2.6.2), [APP-021], Section B, Sheet 1). • Work No.5 = modify existing pylons (SP007) (Works Plan (Document 2.6.2), [APP-021], Section B, Sheet 2 and Sheet 3). • Work No.6 = reconductoring XC 275kV OHL (Works Plan (Document 2.6.2), [APP-021], Section B, Sheet 5) • Work No.7 = reconductoring XC 275kV OHL (Works Plan (Document 2.6.3), [APP-022], Section C, Sheet to Sheet 9). • Work No.8 = reconductoring XC 275kV OHL (Works Plan (Document 2.6.4), [APP-023], Sheet 1). • Work No.9 = reconductoring XC 275kV OHL (Works Plan (Document 2.6.4), [APP-023], Sheet 1, and Works Plan (Document 2.6.5), [APP-024], Sheet 1 to Sheet 7). 	
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	<ul style="list-style-type: none"> • Work No.10 = reconductoring XC 275kV OHL (Works Plan (Document 2.6.6), [APP-025], Sheet 1). • Work No.11 = reconfiguration of 4YS OHL (Works Plan (Document 2.6.6), [APP-025], Sheet 1). 	
<p>Reasons for Order limit variations in width (other than for access and undergrounding) along linear sections.</p>	<p>The main reason for variation in the width of the Order Limits along linear aspects of the Project is due to the Limits of Deviation (LoD) required for different elements of the new linear works, and a working area applied to existing infrastructure to be modified, reconducted or dismantled.</p> <p>For new overhead lines, and temporary overhead lines, lateral LoD have been accounted for, 50m either side of the new overhead line centreline, to incorporate a proportionate degree of flexibility into the Project to deal with unforeseen ground conditions, or archaeological finds (e.g. Works Plan Section B (Document 2.6.2) [APP-021] Sheet 1). Lateral limits for linear works are included in Article 5(1)(a) of the Draft Development Consent Order (Document 3.1(B)) [AS-011] and shown on the Works Plan.</p> <p>For existing overhead lines that are being modified; reconductoring; or overhead lines to be dismantled, no LoD have been included, as these are existing built pylons that are not moving as part of the project, so do not require flexibility. However, in order to undertake the works, a working area of 25m either side of the existing overhead line centre line has been included to allow for the modification, reconductoring or dismantling works (e.g. Works Plan Section C (Document 2.6.3) [APP-022] Sheet 1 to Sheet 9).</p> <p>Other variations in widths are associated with pylon working areas (Works Plan Section C (Document 2.6.3) [APP-022] Sheet 2), crossing protection areas for protection of assets such as roads and railways (Works Plan Section B (Document 2.6.2) [APP-021] Sheet 4), and conductor pulling positions which are located at tension pylon sites (including angle and in-line tension pylons) for conductor stringing works (Works Plan Section B (Document 2.6.2) [APP-021] Sheet 3).</p>	

	<p>There are some instances across the route where the working areas and pulling positions have been amended to avoid impact on local constraints which mean the Order limits are not a uniform shape, such as the pulling position on SP006, which was amended to avoid impacts on Hurns Gutter (Works Plan Section B (Document 2.6.2) [APP-021] Sheet 3).</p> <p>For other specific constraints the limits of deviation have been restricted such as between pylons XC426 and XC427 to avoid any impact on a veteran tree (Works Plan Section B (Document 2.6.2) [APP-021] Sheet 5), and reduced on the temporary alignment at Pollums House Farm to avoid oversailing of the property curtilage (Works Plan Section F (Document 2.6.6) [APP-025]).</p>	
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Table 2.2 – Additional clarification for agenda item 3.2 the scope of Work No. 6, southeast of Moor Monkton

Agenda Item	Response	References to application documents
<p>What the works comprise in the area</p>	<p>Work No. 6, southeast of Moor Monkton, is described in detail in ES Chapter 3 Description of the Project (Document 5.2.3 [APP-075]).</p> <p>Sheets 4 and 5 of the Works Plan Section B (Document 2.6.2) [APP-021] shows the following works:</p> <ul style="list-style-type: none"> • New section of overhead line connecting into the existing overhead line at XC422 (Work No. 6). • Reconfiguration / realignment of the existing overhead line from XC422 to XC429 (Work No. 6). • Temporary section over overhead line between XC421 and XCP003 and XC428T to XC430 (Work No. 6). • Dismantling of sections of the existing overhead line from SP007 to XC429T (Works No.6), including removal of pylons XCP013 to XC429T (15 pylons overall). <p>This area of works covers the realignment and reconfiguration of the existing overhead line. This is required because the existing pylons are not capable of carrying the new twin conductor system (the steelwork is over-utilised and cannot carry the additional load of the new twin conductor system). The reconfiguration maintains the same alignment (with slightly different pylon locations), as the existing alignment from XC422 to XC425, but then deviates to the south to XC429, reducing the overall number of pylons.</p> <p>In order to construct the pylons on the same alignment, temporary overhead lines are needed to take a circuit of the existing overhead line so electrical supplies can be maintained throughout construction.</p>	<p>Works Plan Section B (Document 2.6.2) [APP-021].</p> <p>ES Chapter 3 Description of the Project (Document 5.2.3) [APP-075].</p>

	<p>The section of existing overhead line between XC422 and SP007 will then be dismantled because it is no longer required as the XC line will be realigned into the new Overton substation. The section of existing line between XC425 and XC429T is also dismantled as it will then be redundant due to the XC reconfiguration.</p> <p>Some existing overhead Distribution Network Operator (DNO) Northern Powergrid (Yorkshire) and Northern Powergrid (Northeast) 11kV and 33kV assets in this area are being undergrounded to allow construction of the proposed works in this area.</p>	
<p>The reasons behind the project design in this area</p>	<p>As the existing pylons on the overhead line are not able to carry the new conductor, due to the existing pylon steelwork, and some foundations being over utilised (not strong enough) to carry the additional weight and loading of the new twin conductor system, there is a need to replace all of the existing pylons between XC422 (from which the overhead line runs to Overton Substation) to XC429. The initial design considerations were to reconfigure the existing overhead line where possible, maintaining the same alignment, but new pylons are required in slightly different positions to the existing pylon locations to avoid conflicting with existing foundations, and to mitigate construction programme implications, with new foundations able to be constructed whilst the existing pylon remains.</p> <p>The design in this area sought to minimise the number of structures, both new and temporary.</p> <p>Through the design process the new design was realigned to the south of the existing overhead line (between XC425 and XC429) as this resulted in a reduction of a pylon and moved the alignment further away from the village of Moor Monkton. The design also allowed the removal of a large section of overhead line north of Overton between XC422 and SP007 because of the XC line realignment into the substation.</p>	<p>Works Plans Section B (Document 2.6.2) [APP-021].</p> <p>ES Chapter 2 Project Need and Alternatives (Document 5.2.2) [APP-074].</p>
<p>The likely sequence of construction activities</p>	<p>ES Chapter 3 Description of the Project (Document 5.2.3) [APP-075] provides an indicative construction programme at Table 3.2. The full detailed construction programme would be developed in line with the programme in the ES by the Main Works Contractor once appointed.</p>	<p>Works Plans Section B (Document 2.6.2) [APP-021]. Sheets 4 and 5.</p>

	<p>An indication of the likely sequence of construction activities is set out below, but the actual sequence followed will be subject to the detailed programme developed by the Main Works Contractor.</p> <p>The first element of works will take place at locations where crane access is required and is to create and install bellmouths and access tracks to the pylon sites.</p> <p>This will include vegetation management, site preparation, installation of stone access tracks to new pylons, and trackmatting to existing pylons and installing gates/fences. There will also be works to underground the third party 11kV and 33kV overhead lines. Foundations and working areas (which allow a safe, stable working area for cranes), for new pylons will be installed. Pylon foundations and the type of foundation will be determined by the Main Works Contractor during detailed design, with different foundation types assessed in ES Chapter 3 Description of the Project Paragraph 3.6.35 (Document 5.2.3) [APP-075]. However, a typical foundation will likely be dug, and cast for each pylon leg, allowing time for the curing of concrete before backfilling. Only the small upper cap of concrete and steel leg members protruding out of the ground will be visible once completed.</p> <p>At pylon XC430T (Moor Monkton), the temporary pylon is then erected, with works taken to swing the circuit onto the new temporary alignment so that works can be undertaken on the existing line, including the construction of new pylons.</p> <p>New pylons that can be erected offline, on a new alignment to the existing overhead line (not underneath the existing line) will be erected, including the temporary pylons. Works on the same alignment to the existing overhead line cannot be undertaken until a temporary diversion is in place to maintain supplies and there is an outage on the remaining existing circuit so works can be undertaken safely.</p> <p>Once the temporary pylons are erected, one circuit will be moved across onto this alignment so that works can be undertaken on the existing overhead line.</p> <p>Following the construction of the new section of pylons, they will be strung with new conductors and connected to the existing XC line at XC429 and run up to Overton substation. The offline sections that do not require outages would be installed first,</p>	<p>ES Chapter 3 Description of the Project (Document 5.2.3) [APP-075].</p>
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	<p>followed by sections that need existing overhead line outages to be completed, and these would be installed when an outage is scheduled.</p> <p>Once existing redundant pylons are dismantled, foundations will be dug down to 1.5m, cut off, waste removed for recycling and excavations backfilled.</p> <p>Once all of the construction works have finished, the last activities are removing the working area, access track and bellmouths and reinstating the land to its pre-construction condition, as well as undertaking any replacement planting.</p>	
<p>The likely timescale of construction activities</p>	<p>An indication of the likely timescales of construction activities is set out below, but the final timescales would be subject to the detailed programme developed by the Main Works Contractor.</p> <p>The works in this section would be likely to commence in the summer of 2024 and be completed by November 2026. At that time the works in this section would be energised. Following the completion of the construction works, land re-instatement and replacement mitigation planting would take place through 2027 as secured by Requirement 8 and 9 of the draft Development Consent Order (Document 3.1(B)), [AS-011].</p> <p>In 2024, first the bellmouth and access works would be undertaken, with a typical bellmouth taking around 12 days to complete and stone access track laid at a rate of around 50m per day.</p> <p>The foundation works would be undertaken in 2024, typically taking between 13 and 28 days to construct with a further 28 days for curing of concrete.</p> <p>By the end 2024, the enabling works are expected to be installed and foundation works complete.</p> <p>In 2025, working areas for pylons would be installed, typically taking around 7 days, and works undertaken to erect new pylons, with steel work assembly taking typically up</p>	<p>Works Plans Section B (Document 2.6.2) [APP-021]. Sheet 4 and 5.</p> <p>Draft Development Consent Order (Document 3.1(B)) [AS-011].</p>

	<p>to 26 days for a large tension pylon, and 12 days for a suspension pylon, and 3 to 5 days to erect.</p> <p>The temporary pylons and diversions, and new offline pylons towards Overton Substation would be expected to be built, strung and energised by the end of 2025. A typical section of overhead line between tension pylons will take around 10 days to complete.</p> <p>By the end of 2025, the temporary diversions are expected to be built, strung and energised and some new pylons constructed. In 2026 the online new pylons and pylons realigned towards the village of Moor Monkton would be expected to be built and strung with new conductors. The temporary overhead lines, and existing XCP pylons would be dismantled.</p> <p>By the end of 2026 the new pylons would be erected, strung and energised and the existing XCP sections dismantled.</p> <p>In 2027, remedial works, including removal of temporary bellmouths and access and any land reinstatement / replacement mitigation planting and would take place.</p>	
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Table 2.3 – Additional clarification for agenda item 3.3 the scope of Work No. 8, southwest of Tadcaster

Agenda Item	Response	References to application documents
<p>What the works comprise in this area</p>	<p>Work No. 8, southwest of Tadcaster, is described in detail in ES Chapter 3 Description of the Project (Document 5.2.3) [APP-075].</p> <p>Sheet 1 and 2 of the Works Plan Section D (Document 2.6.4) [APP-023] show the following works:</p> <ul style="list-style-type: none"> • Strengthen XC481 and install extended crossarms. • Reconductoring of the XC overhead line including pylon strengthening and foundation works. • Installation of a new XD001 pylon and downloads. • Modification of XD overhead line from XC481 to XD007. • Temporary section of overhead line between XC481 and XD003. • Construction of Tadcaster West and Tadcaster East Cable sealing end compounds (CSECs). • Installation of underground cable between the CSECs. • Undergrounding and diversion of third-party assets. • Installation of a temporary construction compound. • Temporary stone and trackmatting access tracks, and creation of a working area. <p>This area of work primarily covers the construction of the two new CSECs, and section of underground cable. The CSECs are to be constructed in proximity to XD001, and to enclose XC481. The underground cable has been assumed and assessed in the ES to have an installation method as a horizontal directional drill (HDD), however the final installation technique is to be confirmed when the contractor is appointed and through further discussions with Northern Gas Networks. HDD has currently been assumed as the installation method due to the need to cross the high-pressure gas pipeline, that currently runs past XC481. It may be possible to utilise other installation methods,</p>	<p>Works Plan Section D (Document 2.6.4) [APP-023].</p> <p>ES Chapter 3 Description of the Project (Document 5.2.3) [APP-075].</p> <p>Construction Plans (Document 2.16 APP-065) – Illustrative UGC HDD cross-section (PS-5-01)</p>

	<p>however this will require the detailed design and construction methodology to be discussed with Northern Gas Networks.</p> <p>To facilitate Tadcaster East CSEC, a medium pressure gas pipeline needs to be diverted in the area (Works No. U10).</p> <p>Reconductoring of the XC overhead line is shown from XC479 to XC485 changing from a single to twin conductor system and strengthening several existing pylons to accommodate the new system.</p> <p>A replacement pylon is required at XD001 to facilitate the connection to the new Tadcaster West CSEC, and because this is on the same alignment as the existing overhead line, a temporary diversion to the north is needed, maintaining the supply while XD001 is erected and the existing XD001T is dismantled.</p> <p>Works in the area also comprise of the undergrounding of a 33kV overhead line to avoid interacting with the temporary diversion (Works No. U9).</p> <p>A temporary construction compound is located in the area to service the CSEC, underground cable and overhead line works.</p> <p>The works will include the installation of a permanent access road to both Tadcaster West and Tadcaster East CSECs.</p>	
<p>The reasons behind the project design in this area</p>	<p>The Project requires the creation of a second circuit connecting into Knaresborough to balance power flows. To do this, a tee off is needed from the XC line, to connect into the XD overhead line.</p> <p>In terms of the choice of site location for the permanent infrastructure, this is heavily influenced by the location of existing infrastructure, and National Grid's preference to utilise existing infrastructure where possible, as set out in Section 5.2.6 of the Planning Statement (Document 7.1) [APP-202]. This is in accordance with National Grid's obligations to develop transmission networks in an efficient, co-ordinated, and economical way.</p>	<p>Works Plan Section D (Document 2.6.4) [APP-023].</p> <p>Planning Statement (Document 7.1) [APP-202].</p> <p>Corridor and Preliminary Routing</p>

	<p>As detailed in the Corridor and Preliminary Routing and Siting Study (CPRSS) (Document 7.8) [APP-209] two new CSECs were required in this location, one on the existing XD overhead line, and one on the existing XC overhead line. The CSECs needed to be in proximity to the existing overhead lines and junction, to limit the extent of underground cables required.</p> <p>At the CPRSS stage, ten siting areas were considered for the two new CSECs: 3 on the XC overhead line, and 7 on the XD overhead line (Figure 5.1 of the CPRSS (Document 7.8) [APP-209]). The CPRSS includes an options appraisal of all siting areas, considering environmental, socio-economic, technical, and cost considerations (see section 5 of the CPRSS (Document 7.8) [APP-209]).</p> <p>From an engineering perspective, siting area XC1 and XD1 were preferred as they would limit the length of underground cabling required between the two CSECs. In addition, XC1 would allow the re-use of an existing pylon (XC481), which was preferable to a new pylon. The limited cable length in turn would limit potential impacts associated with the loss of vegetation, such as impacts on biodiversity and landscape and visual receptors. The two sites also benefit from good access (see paragraphs 7.1.4 and 5.3 of the CPRSS (Document 7.8) [APP-209]).</p> <p>The design for Tadcaster East CSEC has been developed through the project as further design work, and information became available. At statutory consultation a CSEC was shown set off from pylon XC481.</p> <p>Further design, survey work, and topographical data allowed a more detail assessment to be undertaken on the CSEC position. There are a number of space constraints in the area, including:</p> <ul style="list-style-type: none"> • The area needed to divert the medium pressure gas pipeline; • The topography and sloping bank towards the A64 and highway boundary; • The requirement for changing the phasing (the position the conductors come into the CSEC) to reduce EMF; and • The proximity of the telecoms mast. 	<p>and Siting Study (CPRSS) (Document 7.8) [APP-209].</p> <p>Consultation Report (Document 6.1) [APP-195].</p>
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	<p>Due to these constraints, there was a need to move the CSEC close to XC481. This was required to reduce the amount of earth works due to the sloping topography to the highway, to give a suitable corridor for the diversion of the gas pipeline, and to achieve optimal phase clearances.</p> <p>To move the CSEC closer to the pylon and achieve the required electrical clearances, the solution needed to utilise anchor blocks (concrete blocks in the ground that the downleads connect to, which can be located much closer to the pylon as the downleads can come down more vertically) rather than a gantry solution.</p> <p>As the electrical downleads come down more vertically and closer to pylon XC481, there was a need to include pylon XC481 within the CSEC fence line. Having the CSEC fence line between the CSEC and pylon would have led to insufficient space for maintenance of equipment and clearance infringements to the electrical equipment should any vehicles travel along the existing track currently around the pylon. Therefore, XC481 needed to be included within the fenced area for safety reasons. This formed the basis of a Targeted Consultation with affected parties as detailed in paragraphs 8.2.28-8.2.30 of the Consultation Report (Document 6.1) [APP-195].</p>	
<p>The likely sequence of construction activities</p>	<p>ES Chapter 3 Description of the Project (Document 5.2.3) [APP-075] provides an indicative construction programme in Table 3.2. The full detailed construction programme would be developed in line with the programme in the ES by the Main Works Contractor once appointed. An indication of the likely sequence of construction activities is set out below, but this would be subject to the detailed programme developed by the Main Works Contractor.</p> <p>The first element of the works would be for the third-party assets to be undergrounded and diverted, including the 33kV overhead line and the medium gas pipe division. This will avoid these assets conflicting with the work areas needed for the Project. Following these third-party works, at locations where access is required for large items of plant such as cranes, bellmouths and access tracks would be installed, for example, to the pylon sites.</p>	<p>Works Plan Section D (Document 2.6.4) [APP-023].</p> <p>ES Chapter 3 Description of the Project (Document 5.2.3 APP-075)</p>

This would include vegetation management, site preparation, installation of stone access tracks to new pylons, and trackmatting to existing pylons and installing gates/fences. The construction compound would also be installed at this time, to provide laydown areas and welfare facilities.

Following this, foundations and working areas (which allow a safe, stable working area for cranes), for new pylon XD001 would be installed. Pylon foundations and type of foundation would be determined by the Main Works Contractor during detailed design, with different foundation types assessed in **paragraph 3.6.35 of ES Chapter 3 Description of the Project (Document 5.2.3) [APP-075]**. A typical foundation would likely be dug, and cast one leg at a time, allowing time for the curing of concrete before backfilling. Only the small upper cap of concrete and steel leg members protruding out of the ground would be visible once completed.

Two temporary structures would then be erected, with works taken to swing the circuit onto the new temporary alignment so that works can be undertaken on the existing line, including the construction of new pylon XD001.

New build pylon XD001 would be erected and existing pylon XD001T dismantled. The temporary structures would then be removed, and the overhead line strung over the new tower (XD001).

Once the existing pylon (XD001T) is dismantled, foundations would be dug down to 1.5m, depending on land usage, foundations cut, waste material removed for recycling and excavations backfilled.

During the same period, XC481 would be strengthened with extended crossarms installed, and the existing XC overhead line circuits would be reconductored. Scaffold would be erected for these works to protect the road crossings.

The cable sealing end compounds would also be constructed, and underground cable works between the two CSECs undertaken. CSEC works would start with building a stone platform and a new access road intended for both temporary and permanent access, whilst erecting the permanent security fence. Following this, the foundations

	<p>would be excavated and poured, before erecting the steel structures and electrical equipment.</p> <p>The final elements would be to connect the overhead line to the CSEC gantry and to finish installation of the permanent access roads to the cable sealing end compounds. Once all of the construction works have finished, the last activities would be to remove the working area, temporary access track and bellmouths and re-instate the land to its pre-construction condition, as well as undertake replacement mitigation planting and landscaping.</p>	
<p>The likely timescale of construction activities</p>	<p>An indication of the likely timescale of construction activities is set out below, but the final timescales would be subject to the detailed programme developed by the Main Works Contractor.</p> <p>The works in this section would be likely to commence in the summer of 2024 and be completed by August 2027. At that time the works in this section would be energised. Following the completion of the construction works, land re-instatement and replacement planting would take place through the rest of 2027 and 2028.</p> <p>In 2024, the third-party works (comprising of undergrounding of a 33kV overhead line, and medium pressure gas diversion, Works No. U9 and U10) would be completed. The bellmouth and access works would be undertaken with a typical bellmouth taking around 12 days to complete, and stone access track laid at a rate of around 50m per day. The construction compound would be installed, taking around 80 days to construct.</p> <p>The foundation works would be undertaken towards the end of 2024, with typically between 13 and 28 days to construct with a further 28 days for curing of the concrete.</p> <p>By the end 2024, enabling works are expected to be complete and foundation works complete. The construction compound would have been constructed.</p> <p>In 2025, two temporary structures would be constructed, and the temporary alignment completed between pylons XC481 and XD003. Working area for pylon XD001 would be installed, typically taking around 7 days, works to erect the new pylon would be</p>	<p>Works Plan Section D (Document 2.6.4) [APP-023].</p> <p>ES Chapter 3 Description of the Project (Document 5.2.3) [APP-075].</p>

	<p>undertaken, with steelwork assembly taking typically around 23 days for a tension pylon and 3 to 5 days to erect. The existing XD001T would then be dismantled (ES chapter 3, Description of the Project (Document 5.2.3) [APP-075]). The overhead line would then be moved back from the temporary alignment to the XD overhead line and the temporary structures dismantled. Reconductoring works would then take place on the XC overhead line. Construction works would start on the cable sealing ends in 2025.</p> <p>By the end of 2025 works on the XD overhead line would be complete, and the CSECs would have started construction.</p> <p>In 2026, the CSECs would continue to be constructed over a period of approximately 1 year), with works likely to be completed by the end of 2026. Starting towards the end of 2026, the preparation works for the installation of the cable would begin (taking approximately 3-4 months to complete).</p> <p>By the end of 2026, the CSECs would be completed and works started on installing the underground cabling.</p> <p>In 2027, the underground cable would be installed and connected to the CSECs. The final elements to be completed by the end of August would be to connect the overhead lines to the CSECs for energisation.</p> <p>In 2027, and 2028, the completion of the permeant access roads to the CSECs, remedial works, including removal of compounds, temporary bellmouths and access and any land reinstatement / planting would take place alongside essential mitigation.</p>	
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Table 2.4 – Additional clarification for agenda item 3.4 the scope of Work No. 10, southwest of Lumby

Agenda Item	Response	References to application documents
<p>What the works comprise in the area between pylon XC521 and pylon XC525T</p>	<p>Work No. 10, southwest of Lumby are described in detail in ES Chapter 3 Description of the Project (Document 5.2.3) [APP-075].</p> <p>Sheet 1 of the Works Plan Section F (Document 2.6.6) [APP-025] shows the following works:</p> <ul style="list-style-type: none"> • A reconfiguration / realignment of the XC overhead line from XC521 to XC527/528 (Work No. 10), connecting into the new Monk Fryston substation (Work No.11). • A temporary overhead line from XC522T to XC525T (Work No.10). • Dismantling of existing section of XC overhead line from XC521 to XC525T and MF-L & R (existing gantries) (Work No.10). • Temporary construction compounds Work No. 10 and Work No. 11. <p>This area of works covers the realignment of the existing XC overhead line, currently terminating into the existing Monk Fryston 275kV substation, into the new Monk Fryston 400kV substation.</p> <p>The works would re-utilise XC521, however due to the new twin conductor system, pylon XC522 and pylon XC523 would be over utilised and therefore need to be replaced. As the connection point for the XC overhead line has moved from the existing 275kV Monk Fryston Substation to the new 400kV Monk Fryston Substation, the XC overhead line would be realigned to terminate in the new substation.</p> <p>In order to construct the pylons on the same or similar alignment, temporary overhead lines would be needed to take a circuit of the existing overhead line so electrical supplies can be maintained throughout construction.</p>	<p>Works Plan Section F (Document 2.6.6) [APP-025].</p> <p>ES chapter 3 Description of the Project (Document 5.2.3) [APP-075].</p>

	The existing redundant XC overhead line would then be dismantled as it would no longer be required.	
The reasons behind the project design in this area	<p>Due to the increased rating requirement of the Project, the XC overhead line connection into the existing 275kV substation would no longer be feasible, as the 275kV substation equipment is not rated high enough or capable to accommodate the increased overhead line rating.</p> <p>Due to this, the XC line would need to be relocated to connect into the new Monk Fryston Substation. The design sought to re-use existing infrastructure where possible and would re-use pylon XC521. The design also sought to keep the location of new pylons as close as possible to the existing pylons and alignments. For example, pylon XC523 has been positioned as close to the boundary of the field as possible. The increased distance to the new Monk Fryston Substation meant that an additional pylon was needed.</p> <p>Consideration has been given to keeping the temporary alignment as close to the existing XC alignment as safely possible, to try to maximise the distance between the overhead line and residential properties. The temporary overhead line has been designed to minimise the amount of additional structures needed, by re-utilising some of the existing XC pylons (such as XC522T and XC525T) in the temporary arrangement.</p>	<p>Works Plan Section F (Document 2.6.6) [APP-025].</p> <p>ES chapter 3 Description of the Project (Document 5.2.3) [APP-075].</p>
The likely sequence of construction activities	<p>ES Chapter 3 Description of the Project (Document 5.2.3) [APP-075] provides an indicative construction programme. The full detailed construction programme would be developed in line with the programme in the ES by the Main Works Contractor once appointed.</p> <p>An indication of the likely sequence of construction activities is set out below, but this would be subject to the detailed programme developed by the Main Works Contractor. The first element of works would take place at locations where crane access is required, where bellmouths and access tracks to the pylon sites would be installed. Temporary construction compounds would also be built.</p>	<p>Works Plan Section F(Document 2.6.6) [APP-025].</p> <p>ES Chapter 3 Description of the Project (Document 5.2.3) [APP-075].</p>

	<p>This would include vegetation management, site preparation, installation of stone access tracks to new pylons, and trackmatting to existing pylons and installing gates/fences.</p> <p>Following this, foundations and working areas (which allow a safe, stable working area for cranes), for new pylons would be installed. Pylon foundations and type of foundation would be determined by the Main Works Contractor during detailed design, with different foundation types assessed in paragraph 3.6.35 of ES Chapter 3 Description of the Project (Document 5.2.3) [APP-075]. A typical foundation would likely be dug, and cast one at a time, allowing time for the curing of concrete before backfilling. Only the small upper cap of concrete and steel leg members protruding out of the ground would be visible once completed. Stoned working areas would be created once the foundations are in place, for a safe area for cranes to work.</p> <p>Temporary pylons XC550 and XC551 would then be erected, with works taken to swing the circuit onto the new temporary alignment so that works could be undertaken on the existing line, including the construction of new pylons.</p> <p>Following this, new XC pylons would be erected, and existing pylons dismantled. Foundations would be removed to a depth of 1.5m.</p> <p>The temporary pylons would then be dismantled and staged over multiple outages the OHL would be strung through the new pylons and into the new Monk Fryston substation bay.</p> <p>Existing terminal pylon XC525T would then be dismantled.</p> <p>Once all of the construction works have finished, the last activities would be removing working areas, temporary access track and bellmouths and re-instating the land to its pre-construction condition, as well as undertaking any replacement planting.</p>	
The likely timescales of construction activities	An indication of the likely timescales of construction activities is set out below. However, the final timescales would be subject to the detailed programme developed by the Main Works Contractor.	Works Plan Section F

	<p>The works in this section are likely to commence in the summer of 2024 and would be completed in August 2027. At that time the works in this section would be energised. Following the completion of the construction works, land re-instatement and replacement planting would take place through the rest of 2027 and 2028.</p> <p>From 2024, through to 2027 the substation at Monk Fryston would be constructed.</p> <p>The construction compound and access works would be completed first, followed by civil works starting in 2024. In 2025, civil works would continue including works for the SGT bunds. SGTs would be delivered in 2025 and electrical installation would then commence. Construction works would continue through 2027 when the overhead line circuits would be brought into the new substation, followed by landscaping and mitigation planting.</p> <p>In 2024, the bellmouth and access works would be undertaken first, with a typical bellmouth taking around 12 days to complete, and stone access track laid at a rate of around 50m per day. The construction compounds would be constructed taking around 80 days.</p> <p>By the end of 2024, the access works and the construction compound would be completed.</p> <p>In 2025 the foundation works would be undertaken, typically taking between 13 and 28 days to construct with a further 28 days for curing of concrete.</p> <p>Following the foundation work, working areas for pylons would be installed, typically taking around 7 days, and works to erect temporary pylons undertaken, with steel work assembly taking typically up to 26 days for a large tension pylon, and 12 days for a suspension pylon, and 3 to 5 days to erect.</p> <p>By the end of 2025 the temporary pylons would be installed.</p> <p>In 2026, the temporary alignment would be strung, allowing the construction of the new XC pylons, and dismantling of some of the existing redundant XC pylons (excluding</p>	<p>(Document 2.6.6) [APP-025].</p> <p>ES Chapter 3 Description of the Project (Document 5.2.3) [APP-075].</p>
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	<p>pylon XC525T as this would still be needed to connect into the existing Monk Fryston Substation). The XC alignment would connect into the existing Monk Fryston 275kV Substation.</p> <p>By the end of 2026, the new pylons would be constructed, and the majority of the existing redundant XC pylons dismantled, with the XC line still connecting into the new existing Monk Fryston Substation.</p> <p>In 2027, following completion of relevant works at the Monk Fryston 400kV Substation, the XC overhead line would be connected into the new Monk Fryston 400kV Substation and the XC525T terminal pylon dismantled.</p> <p>In the remaining months of 2027 and in 2028, remedial works, including removal of temporary bellmouths and access and any land reinstatement / replacement mitigation planting and landscaping would take place. Construction compounds would then be removed.</p>	
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**Appendix C
Note**

ISH1 Action Point 6: Post Hearing

YG-DCO-093-C

Yorkshire Green Energy Enablement (GREEN) Project

Volume 8

Document 8.4.2 Appendix C: Post Hearing Note

**Final Issue A
April 2023**

Planning Inspectorate Reference: EN020024

Infrastructure Planning (Applications, Prescribed Forms and Procedure)
Regulations 2009 Regulation 5(2)(q)

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	Appendix A Updated Indicative Construction Programme	
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Version History

Date	Version	Status	Description / Changes
05/04/2023	A	Final	First Issue

Introduction

1.1 The Applicants Response to ISH1 Action Points: Action 6

- 1.1.1 Action 6 of the Issue Specific Hearing 1 was to “*provide a post hearing note to update the indicative construction programme and the Gantt charts to cover the queries raised to align with each other.*”
- 1.1.2 This note sets out a further explanation and the associated key relating to the Indicative Construction Programme (provided as **Table 3.2 of ES Chapter 3: Description of the Project (Document 5.2.3, [APP-075])**) an updated version of which is provided within Appendix A to this note. Cross reference is provided to the descriptions provided in ES Chapter 3 Description of the Project as well as Figures 2.1 to 2.4 (Gantt charts) contained in **Appendix 14B: Construction Plant and Activity Assumptions (Document 5.3.14B, [APP-150])** to provide clarity as to the works that would take place under different phases of the indicative construction programme.
- 1.1.3 The detailed construction programme will be developed once the Main Works Contractor(s) have been appointed. Therefore the Indicative Construction Programme (provided as Table 3.2 of **ES Chapter 3: Description of the Project (Document 5.2.3, [APP-075])**) sets out a high-level programme to which the assessments in the ES have been made from.

Action 6

- 2.1.1 The Indicative Construction Programme (provided as **Table 3.2 of ES Chapter 3: Description of the Project (Document 5.2.3, [APP-075])**) has been updated to include a new phase for Overton Substation (Cycle Route Alternative Creation) and for advanced planting at Monk Fryston and Overton Substations and is provided in Appendix A to this note. It should be noted that works in respect of permanent earth landscaping mounds are identified as construction activity (blue in key).
- 2.1.2 Table 2.1 below provides further clarification on the indicative construction phases, including the additional phases added into the Indicative Construction Programme to further clarify the phases of construction assessed in the ES, and describes the type of activities which would take place during these phases, including a key to the construction programme. This should be read in conjunction with the updated Indicative Construction Programme provided in Appendix A to this note.
- 2.1.3 The Gantt charts (**Figures 2.1 to 2.4, ES Appendix 14B Construction Plant and Activity Assumptions, Document 5.3.14B, [APP-151]**) were prepared for the specific purpose of undertaking construction noise modelling and assessment. The charts were developed to identify a reasonable worst-case in terms of the assessment of construction noise and are presented in **Document 5.3.14B, [APP-151]** to provide evidence of how the approach to the construction noise assessment was developed. The charts should not be interpreted as the construction programme for the purposes of the Project and do not include all activities covered by the Indicative Construction Programme. Therefore no update to the Gantt charts is provided as part of this note.
- 2.1.4 In addition to the information provided below in Table 2.1 and the updated Indicative Construction Programme (provided in Appendix A to this note) a number of environmental measures would be implemented prior to site set up and enabling works, defined as “pre-commencement works” in Schedule 1(3) of the draft Development Consent Order (**Document 3.1(B), [AS-011]**). These are therefore not classed as construction works and are not included in the Indicative Construction Programme. These would comprise works such as biodiversity surveys, ground investigation ,and archaeological investigation and mitigation works as set out in the Archaeological Written Scheme of Investigation (refer to **Appendix 3B Code of Construction Practice, Document 5.3.3B, [APP-095]**, **Appendix 3C Archaeological Written Scheme of Investigation, Document 5.3.3C, [APP-096]**, **Appendix 3D Biodiversity Mitigation Strategy, Document 5.3.3D, [APP-097]**, **Appendix 3H Noise and Vibration Management Plan, Document 5.3.3H, [APP-101]**).

Table 2.1 – Activities during construction phasing

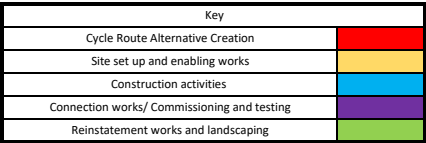
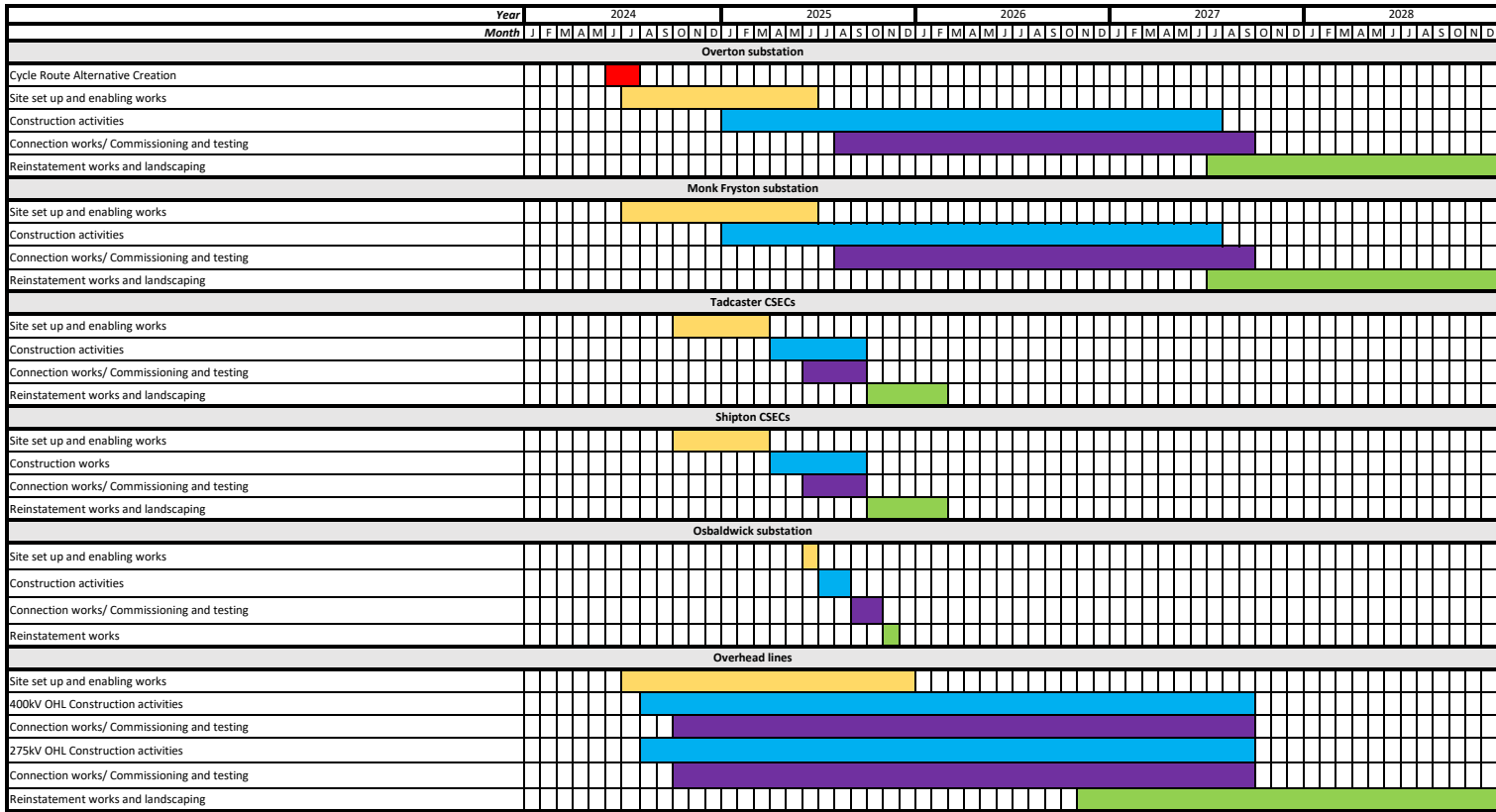
Key	Stage	Activities	Where described in the ES
	Cycle Route Alternative Creation	Creation of alternative route to National Cycle Route 65	Section 4, Appendix 3G Public Rights of Way Management Plan, Document 5.3.3G, [APP-100] Included in the updated Indicative Construction Programme provided in Appendix A of this note.
	Site set up and enabling works	Site enablement measures including implementation of access routes, construction of bellmouths and establishment of temporary construction compounds, implementation of working areas, scaffolding, culvert crossings and temporary bridges and diversion of third-party utilities	Paragraphs 3.6.6 to 3.6.9, 3.6.20, 3.6.22 to 3.6.34, ES Chapter 3: Description of the Project (Document 5.2.3, [APP-075]) . Figures 2.1 to 2.4, Appendix 14B: Construction Plant and Activity Assumptions (Document 5.3.14B, [APP-150])
	Site set up and enabling works	Implementation of a number of embedded environmental measures such as soil management measures, installation of acoustic screening where required, signage and/or temporary public right of way (PRoW) diversions where needed, temporary earth bunds or fencing on the perimeter of compounds and substations to minimise visual impact.	Appendix 3B Code of Construction Practice, Document 5.3.3B, [APP-095]
	Construction activities	Construction of new pylons, refurbishment and reconductoring works at existing pylons, removal of existing pylons, installation of temporary overhead line diversions (construction activities for the 400kV and 275kV overhead lines). Construction of Cable Sealing End Compounds (CSECs), including the installation of foundations for electrical equipment and installation of CSEC underground cables (construction activities at Tadcaster and Shipton CSECs). Installation of foundations for electrical equipment, construction of control	Paragraphs 3.6.35 to 3.6.38, ES Chapter 3: Description of the Project (Document 5.2.3, [APP-075]) . Figures 2.1 to 2.4, Appendix 14B: Construction Plant and Activity Assumptions (Document 5.3.14B, [APP-150])

Key	Stage	Activities	Where described in the ES
		<p>buildings and delivery of the Super Grid Transformers (SGT) (construction activities at Overton and Monk Fryston Substations)</p> <p>Works to existing equipment (construction activities at Osbaldwick Substation).</p>	
	Construction activities	<p>Implementation of permanent earth mounds would be created in the vicinity of the Overton and Monk Fryston substations. The mounding would be formed from the soils excavated from the foundations for the substations. These activities would be dependent on the construction works at the substations as some of the layout of the landscape mitigation mounds would overlap with construction working areas and would need construction works to be completed before the landscape mounding could be implemented. The formation of permanent earth mounds would take place at the earliest opportunity in areas that would not be affected by construction works.</p>	<p>Measure LV03, Appendix 3B Code of Construction Practice, Document 5.3.3B, [APP-095]</p> <p>Outline Landscape Mitigation Strategy, Chapter 3: Description of the Project, Document 5.2.3, [APP-075].</p> <p>Figure 3.10: Outline Landscape Strategy (Overton Substation) and Figure 3.12 Outline Landscape Strategy (Overton Substation), Document 5.4.3, [APP-164].</p>
	Connection works/ Commissioning and testing	<p>Installation and commissioning of SGTs at substations, commissioning cables at CSECs, testing of new overhead lines.</p>	<p>Paragraph 3.6.50 and 3.6.58, ES Chapter 3: Description of the Project (Document 5.2.3, [APP-075]).</p> <p>Figures 2.1 to 2.4, Appendix 14B: Construction Plant and Activity Assumptions (Document 5.3.14B, [APP-150])</p>
	Advanced Planting	<p>Advanced woodland planting of the proposed landscaping mounds to the west and northeast of Overton Substation and on landscape mounds to east and southeast of Monk Fryston Substation (to take place between November 2026 to March 2027).</p>	<p>Measure LV03, Appendix 3B Code of Construction Practice, Document 5.3.3B, [APP-095]</p> <p>Outline Landscape Mitigation Strategy, Chapter 3: Description of the Project, Document 5.2.3, [APP-075].</p> <p>Target note 5 (Woodland planting on earthworks to west and northeast of substation) Figure 3.10:</p>

Key	Stage	Activities	Where described in the ES
			<p>Outline Landscape Strategy (Overton Substation) and Target note 2 (Woodland planting on earthworks to east and southeast of substation), Figure 3.12 Outline Landscape Strategy (Overton Substation), Document 5.4.3, [APP-164].</p>
	Reinstatement works and landscaping	<p>Removal of temporary access, culverts, temporary bridges, scaffolding, working areas, temporary construction compounds and reinstatement of ground conditions and soil restoration. Tree and hedgerow replacement planting and any planting forming part of the Outline Landscape Mitigation Strategy which would need to be implemented following construction and reinstatement works. Note this is described as 'landscaping' in Appendix 14B.</p>	<p>Paragraphs 3.6.59 to 3.6.61 and Outline Landscape Mitigation Strategy, ES Chapter 3: Description of the Project (Document 5.2.3, [APP-075]).</p> <p>Outline Landscape Mitigation Strategy Figures; Document 5.4.3, [APP-164].</p> <p>Arboricultural Impact Assessment, ES Appendix 3I, Document 5.3.3I, APP-102 to APP104</p> <p>Figures 2.1 to 2.4, Appendix 14B: Construction Plant and Activity Assumptions (Document 5.3.14B, [APP-150])</p>

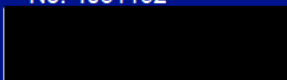
Appendix A Programme

Updated Indicative Construction



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Appendix D ISH1 Action Point 24: Justification of the Associated Development sought in sections (a) to (u) of Schedule 1

A short explanation of why Points (a) – (u) are included within Schedule 1 of the DCO, and how this will be used for the Project, is set out in the table below.

Letter	Associated Development Description	Justification
a	ramps, means of access, footpaths, cycleways, bridleways and trackways	This will occur across the Project. For example, it is required for creating access tracks as a means to access the work sites.
b	embankments, bridges, aprons, abutments, foundations, retaining walls, drainage, wing walls, headwalls, culverts and fencing including stock-proof fencing	These activities are used across the Project. For example, there are bridges across Water Framework Directive (WFD) rivers; foundations are needed for all pylons; culverts where accesses cross drainage ditches; and fencing would be needed for all access and working areas where required to prevent livestock encroaching.
c	works to alter the position of apparatus, including mains, sewers, drains, conductors and cables	Required for protecting and relocating services (including the Yorkshire Water diversion), including those that may be in bellmouths. Where new bellmouths are required existing services may need to be lowered, or re-routed to avoid damage by the Project.
d	works to alter the course of, or otherwise interfere with a watercourse, drainage works, attenuation ponds, and culverts	Existing culverts have been identified across the route, and works are needed to ensure they are safe for construction vehicles. Existing land drainage is required to be modified and amended where it interacts with the Project.
e	landscaping and other works to mitigate any adverse effects of construction, maintenance, operation or use, together with means of access	Required as part of the landscaping strategy at the two substations and Tadcaster Cable Sealing End Compound's (CSEC) including access to the mitigation area for implementation and maintenance.
f	tree, hedgerow and vegetation planting and maintenance works	This covers essential landscape mitigation planting as well as replacement planting.
g	works for the benefit or protection of the environment	This covers any environmental works needed as specified within the Code of Construction Practice (Document 5.3.3B) [APP-095], Embedded Measures

Letter	Associated Development Description	Justification
		Schedule (Document 5.3.3A) [APP-094] and all other management plans covered under Requirement 5 of the draft DCO.
h	works for the benefit or protection of land, structures, apparatus or equipment affected by the authorised development (including earthing and works for monitoring)	Covers protection of third party assets by installing earthing works, such as BT equipment or the east coast main line. This also covers installing protection at the kiosk at SP007.
i	works required for the strengthening, improvement, maintenance, or reconstruction of any streets	Required to widen the roads at Overton Road and Corban Lane for deliveries to site.
j	works to streets and any alteration, removal or installation of street furniture, traffic signage and signals, and road lining, including where required to facilitate the construction of temporary accesses	Works to allow for deliveries of equipment, including Abnormal Indivisible Loads (AIL), including temporary street furniture removal, and changing of street lamps at the A63 roundabout.
k	site preparation works, site clearance (including scaffolding, fencing, vegetation removal, demolition of existing buildings or structures and the creation of alternative footpaths, cycleways, bridleways and trackways)	To prepare the site for the Project, fencing off the works, scaffolding over roads and railways, and provision of an alternative cycle path is required. Also, this would allow for the removal of anything which is built underneath the existing line between now and starting on site.
l	earthworks (including soil stripping and storage, site levelling, ground improvement, berms and bunding)	To cover all civil works needed on the Project, such as ground raising at Overton Substation, cut and fill at Monk Fryston Substation.
m	works within temporary construction compounds, comprising temporary laydown, assembly and storage areas, temporary offices, security cabins, temporary vehicle parking, construction fencing, gates and hoarding, perimeter enclosure, security fencing, construction related buildings, welfare facilities, construction and security lighting and haulage roads, provision of services, generators, lighting, waste management facilities, drainage works, attenuation ponds, access roads, wheel cleaning facilities, biosecurity measures, fencing and hoarding	Allow creation of the seven temporary construction compounds, and all works required at those sites to facilitate the Project.

Letter	Associated Development Description	Justification
n	works within cable sealing end compounds and substations, comprising the installation of switchgear, above and below ground services, troughs and cables, perimeter fencing, gates and hoarding, drainage systems, attenuation ponds, pollution control, generators, earthing and protection control systems, supervisory control and data acquisition communications, lighting, waste management facilities, drainage works, attenuation ponds, access roads, wheel cleaning facilities, biosecurity measures, parking areas	All works needed to construct the cable sealing end compounds.
o	works to allow for the provision of services, including power supplies, electric vehicle charging points and communication equipment	To provide supporting infrastructure at temporary compounds (Overton and Monk Fryston) and permanent substations for provision of water, electric connections etc..
p	installation of wires, cables, ducts, pipes and conductors including establishment of winching points	Covers works required to install new conductors on new overhead lines, and reconductor existing overhead lines as well as the installation of underground cables.
q	the changing of name plates	As pylon numbers are changed, name plates are needed to ensure the correct pylon number is shown at all times on the relevant pylon.
r	such other works, including scaffolding and crossing protection, working areas, and works of demolition (which includes but is not limited to demolition of residential properties), as may be necessary or expedient for the purposes of or in connection with the construction of the authorised development and which do not give rise to any materially different environmental effects from those assessed in the Environmental Statement	Covering scaffold protection over rivers, road and rail. Provision of pylon working areas. Demolition works to cover anything that is constructed between now and starting works on site, or throughout the construction of the proposed development that mean the development would not be able to be constructed without the demolition of the building.
s	the construction and installation of permanent vehicle access roads, gates and fencing, hardstanding, and drainage	Required at all permanent sites such as at Overton Substation and the CSEC's.

Letter	Associated Development Description	Justification
t	works to place, alter, divert, relocate, protect, remove or maintain the position of apparatus (including statutory undertakers' apparatus), services, plant and other equipment in, under or above a street, or in other land, including mains, sewers, drains, pipes, lights, cables, fencing and other boundary treatments	This is to cover the third party diversions not specifically identified as "U" work No's in Schedule 1, and would include works in the street that may need diverting where the road is widened at Overton Road.
u	such other works as may be necessary or expedient for the purposes of or in connection with the construction, installation, operation or maintenance of the authorised development and which do not give rise to any materially different environmental effects from those assessed in the Environmental Statement	To deal with unforeseen circumstances during construction.

Appendix E ISH1 Action Point 26: Template Structure of a Written Scheme of Stages – For Information

YG-DCO-093-E

Yorkshire Green Energy Enablement (GREEN) Project

Volume 8

**Document 8.4.2 Appendix E: Template Structure of a Written Scheme
of Stages – For Information**

**Final Issue A
April 2023**

Planning Inspectorate Reference: EN020024

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

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FOR INFORMATION

nationalgrid

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Appendix B	Overview plan of stages
Appendix C	Requirements Matrix

Version History

Document	Version	Status	Description / Changes
05/04/2023	A	Final	First Issue

List of Acronyms

[To be included as applicable to this document]

FOR INFORMATION

Introduction

1.1 This document

- 1.1.1 This document comprises the written scheme setting out the stages of the authorised development for the Yorkshire Green Energy Enablement (GREEN) Project (referred to as the Project or Yorkshire GREEN).
- 1.1.2 A Written scheme of stages is required by Schedule 3, Requirement 4(1) of The National Grid (Yorkshire Green Energy Enablement Project) Development Consent Order 202[*] ('the DCO').
- 1.1.3 Requirement 4 of the DCO is as follows:
- (1) The authorised development may not commence until a written scheme setting out the stages of the authorised development has been submitted to the relevant planning authority, which scheme may subsequently be amended from time to time as notified to the relevant planning authority.*
- [To be updated as per the final wording of Requirement 4]*
- 1.1.4 This document has been submitted to Leeds City Council, City of York Council and North Yorkshire Council as the relevant planning authorities for the Project.

1.2 Overview of the Project

- 1.2.1 The Project is sited within Yorkshire, with the most northerly components located approximately 1.5km north-east of the village of Shipton and approximately 10km northwest of York city centre. The most southerly components are at the existing Monk Fryston Substation, located to the east of the A1 and immediately south of the A63.
- 1.2.2 The Project will comprise both new infrastructure and works to existing transmission infrastructure and facilities. The Project is divided into six sections for ease of reference:
- Section A (Osbalwick Substation): Minor works at the existing Osbalwick Substation comprising the installation of a new circuit breaker and isolator along with associated cabling, removal and replacement of one gantry and works to one existing pylon. All substation works would be within existing operational land.
 - Section B (North west of York Area): Works would comprise:
 - reconductoring of 2.4km of the 400kV Norton to Osbalwick (2TW/YR) overhead line and replacement of one pylon on this overhead line;
 - the new 400kV YN overhead line (2.8km), north of the proposed Overton Substation;
 - the new Shipton North and South 400kV cable sealing end compounds (CSECs) and 230m of cabling to facilitate the connection of the new YN 400kV overhead line with the existing Norton to Osbalwick YR overhead line;

- a new substation (Overton 400kV/275kV Substation5) approximately 1km south of Shipton by Beningbrough;
- two new sections of 275kV overhead line which would connect into Overton Substation from the south (the 2.1km XC overhead line to the south-west and the 1.5km SP overhead line to the south-east);
- works to 5km of the existing XCP Poppleton to Monk Fryston overhead line between Moor Monkton in the west and Skelton in the east comprising a mixture of decommissioning, replacement and realignment. To the south and south-east of Moor Monkton the existing overhead line would be realigned up to 230m south from the current overhead line and the closest pylon to Moor Monkton (340m south-east) would be permanently removed. A 2.35km section of this existing overhead line permanently removed between the East Coast Mainline (ECML) Railway and Woodhouse Farm to the north of Overton.
- Section C (Moor Monkton to Tadcaster): Works proposed to the existing 275kV Poppleton to Monk Fryston (XC) overhead line north of Tadcaster (Section D) include replacing existing overhead line conductors, replacement of pylon fittings, strengthening of steelwork and works to pylon foundations.
- Section D (Tadcaster Area): Two new CSECs (Tadcaster East and West 275kV CSECs) would be installed approximately 3km south-west of Tadcaster and northeast of the A64/A659 junction where two existing overhead lines meet. One pylon on the existing 275kV Tadcaster Tee to Knaresborough (XD/PHG) overhead line would be replaced.
- Section E (Tadcaster to Monk Fryston): Works proposed to the existing 275kV Poppleton to Monk Fryston (XC) overhead line south of Tadcaster (Section D)) include replacing existing overhead line conductors, replacement of pylon fittings, strengthening of steelwork and works to pylon foundations.

1.2.3 Section F (Monk Fryston Area): A new substation would be constructed to the east of the existing Monk Fryston Substation which is located approximately 2km southwest of the village of Monk Fryston and located off Rawfield Lane, south of the A63. A 1.45km section of the 275kV Poppleton to Monk Fryston (XC/XCP) overhead line to the west of the existing Monk Fryston Substation and south of Pollums House Farm would be realigned to connect to the proposed Monk Fryston Substation. East of the existing Monk Fryston Substation the existing 4YS 400kV Monk Fryston to Eggborough overhead line, which currently connects to the existing substation, would be reconfigured to connect to the proposed Monk Fryston Substation.

Scheme Setting Out the Stages of the Authorised Development

2.1 Stages of the authorised development

2.1.1 The Project has been divided into **X** stages of authorised development, as well as ‘sub-stages’ (if required). The following provides the outline of the stages and sub-stages identified:

- Stage **X** – *[Insert Stage Title] – [This text would be included for each stage and a list provided below]*

2.1.2 The stages of the authorised development have been determined by a consideration of the construction activities required to be completed, the construction methodology, geographical location of works, the programme for delivery and sequencing of works.

2.1.3 A detailed explanation of the construction activities associated with each stage is provided in Sections **X – X** of this document.

2.2 Outline Programme

2.2.1 An outline programme detailing the stages of the authorised development is provided in **Appendix A**. An overview plan of all stages is provided as part of **Appendix B**. The overview of the programme for each Stage is provided below:

Stage X – *[Insert Stage Title]*

2.2.2 Stage **X** –will commence in Quarter **X** (**QX**) 20**2X** and will be completed in **QX** 20**2X**.

2.2.3 *[This text would be included for each stage and a list provided below]*

2.3 Deliverables for each Stage

2.3.1 Please see **Appendix C** for a matrix which identifies the likely relevant Requirements per stage of the authorised development. The final list of documents to be submitted to discharge relevant Requirements applicable to each stage cannot be confirmed until the contractor undertaking that work has been appointed. This will be discussed with the relevant planning authority in advance of commencing the discharge of Requirements for each stage of the authorised development as detailed in this document.

Detailed Overview of Stage X – [Insert Title of Stage]

3.1 Stage X area

- 3.1.1 Stage X relates to works at
- 3.1.2 Stage X will commence in QX 202X and will be completed in QX 202X.
- 3.1.3 The extent of Stage X is shown in relation to other stages in the overview plan of stages in **Appendix B**.

3.2 Relevant planning authorities affected by Stage X

- 3.2.1 *[List of relevant planning authorities affected by Stage X]*

3.3 Stage X description

- 3.3.1 *[Insert Stage Description]*

Temporary Works

- 3.3.2 *[Insert description of temporary works associated with this Stage]*

Main Works

- 3.3.3 *[Insert description of main works associated with this Stage]*

Landscaping/Replacement Planting

- 3.3.4 *[Insert overview of landscaping and replacement planting associated with this Stage]*

[The structure and text shown above would be followed for each stage, with each stage being set out in a new section of the document]

Implementation

4.1 The written scheme of stages in implementation of the Project

- 4.1.1 Updates to the stage scheme may be required from time to time for example following appointment of contractors to deliver stages of the Project.
- 4.1.2 Should the content of this scheme need to be updated, an updated version of this document will be notified to all the relevant planning authorities.

Appendix A Outline programme detailing the stages of the authorised development

[This Appendix will provide an outline programme in the form of a Gantt chart listing the stages against the years of the construction when works would take place by quarter (linked to Section 2.2 above)]

FOR INFORMATION

Appendix B Overview plan of stages

[This Appendix will provide a plan illustrating the extent of the stage and in relation to the other stages identified in this written scheme of stages]

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Appendix C Requirements Matrix

[This Appendix will provide a matrix which identifies the likely relevant Requirements (as per Schedule 3 of the DCO (as made)) against the stages proposed in this written scheme of stages (linked to Section 2.3 above)]

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