The Great Grid Upgrade

North Humber to High Marnham

NHHM-AEC-CNS-REP-0134

North Humber to High Marnham

Volume 7: Other Documents

Document 7.3 Register of Environmental Actions and Commitments

Final Issue A

October 2026

Planning Inspectorate Reference: EN020034

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

nationalgrid

Contents

1.	**Introduction**	**1**
1.1	Overview	1
1.2	Purpose and Structure of the Document	2
1.3	Pre-commencement Works	2
1.4	Guide to the REAC Table	2
1.5	Embedded Design Measures	3

Table 1.1 – Guide to the REAC table 3
Table 1.2 – Register of Environmental Actions and Commitments 5

References 65

1. Introduction

1.1 Overview

1.1.1 National Grid Electricity Transmission plc (National Grid) owns and maintains the national high voltage electricity transmission network throughout England and Wales.

1.1.2 The transmission network connects the power from where it is generated to the regional distribution network operators who then supply businesses and homes.

1.1.3 National Grid holds the Transmission Licence for England and Wales, and its statutory duty is to develop and maintain an efficient, coordinated and economical system of electricity transmission and to facilitate competition in the generation and supply of electricity, as set out in the Electricity Act 1989 (HM Government, 1989).

1.1.4 National Grid has developed plans for the North Humber to High Marnham Project (the Project). The Project would support the UK government's net zero target through the connection of new low carbon energy generation and by reinforcing the transmission network.

1.1.5 The Project would establish a new 400 kilovolt (kV) transmission connection approximately 90 kilometres (km) in length between a new substation to be built in the vicinity of Birkhill Wood, located to the north of Hull near Creyke Beck in the East Riding of Yorkshire, and a new substation at High Marnham in Nottinghamshire.

1.1.6 The reinforcement is needed because the existing transmission network, even with current upgrading, will not have sufficient capacity for the new renewable energy (a substantial proportion of which would be generated by offshore wind) that is expected to connect to the network over the next 10 years and beyond. Completion of the Project, together with other new reinforcements across the country, will meet this future energy transmission demand across the UK.

1.1.7 The Project is a Nationally Significant Infrastructure Project (NSIP), and National Grid is seeking development consent under the Planning Act 2008 (HM Government, 2008). NSIPs require a type of planning permission known as a Development Consent Order (DCO). Instead of applying to the local authority for planning permission, the developer must apply to the Secretary of State via the Planning Inspectorate for a DCO.

1.1.8 National Grid has submitted an application for development consent to the Planning Inspectorate for the Project. The Examining Authority (consisting of one or more examining inspectors), after a period of public examination, will make its recommendation to the Secretary of State for Energy Security and Net Zero, who in turn will decide on whether development consent should be granted.

1.1.9 The Project has been identified as being critical to delivering a network which supports the clean power pathways for 2030 delivery.

1.2 Purpose and Structure of the Document

1.2.1 This Register of Environmental Actions and Commitments (REAC) has been produced to record all commitments made by National Grid during the iterative development of the design of the Project. It includes the following:

- **Embedded measures** – comprise measures that have sought to avoid an impact and are intrinsic to and built into the design. They include, for example, routeing the proposed overhead line in close parallel, and where practicable in synchronisation with existing transmission lines to reduce the spread of effects in the landscape as far as possible, inclusion of clear span bridges for the temporary crossings of certain watercourses, utilising existing field boundary gaps for accesses and the inclusion of environmental commitments to protect and retain certain features within the Order Limits.
- **Control and management measures** – comprise management activities, control measures and techniques that would be implemented during construction of the Project to limit impacts. They include adherence to good site practices and achieving legal compliance such as the management of materials and controlled substances and the appropriate storage and profiling of soils.
- **Additional mitigation measures** – comprise measures over and above any embedded and control and management measures, for which the Environmental Impact Assessment has identified a requirement to avoid or further reduce significant environmental effects.

1.2.2 At the end of construction, the Final Code of Construction Practice (CoCP) (prepared in substantial accordance with **Application Document 7.2 Outline Code of Construction Practice**) and **Application Document 7.3 Register of Environmental Actions and Commitments**, will be passed to National Grid and to the bodies responsible for the future maintenance and operation of the Project.

1.3 Pre-commencement Works

1.3.1 All pre commencement operations must be carried out in accordance with this document unless otherwise agreed with the relevant planning authority and implement all applicable environmental commitments and monitoring requirements identified in **Application Document 7.3 Register of Environmental Actions and Commitments**.

1.4 Guide to the REAC Table

1.4.1 Table 1.1 provides a guide to the REAC table providing an explanation of the information that is presented in each of the columns.

1.4.2 The REAC table does not define general legislative requirements. In addition to compliance with the measures in these tables, all activities are required to comply with applicable legislation.

Table 1.1 – Guide to the REAC table

Column	Explanation
Type	Details the category of commitment: • EM – Embedded measures; • CMM – Control and management measures; and • AM – Additional measures.
Commitment reference	A unique identifier defined within the REAC table to enable simple reference to individual measures. Identifiers include a reference to the anticipated environmental topic for which they relate to, except for design and overarching general measures which are marked as 'DE' and 'GG' respectively. Design and overarching general measures can be applicable across a range of environmental topics and Project activities.
Commitment	These are the measures required to avoid, reduce and manage environmental effects resulting from the construction, operation and maintenance phases of the Project.
Monitoring	Where a commitment's monitoring requirements have been referenced as N/A, the monitoring of such commitments/ activities will be captured by the Main Works Contractor(s) standard best practice, guidance, and legislative compliance for the applicable construction works activity. For commitments where monitoring is required, this is then also summarised in this column.
Project phase	The phase of the Project that the commitment will be implemented in. Where necessary, multiple phases have been listed for measures that relate to each, for example electric and magnetic field (EMF) compliance for both construction and maintenance phases.
Relevant aspect/topic	An identifier which is directly relevant to the action or commitment, for example a source such as a mitigation reference in the ES.
Commitment securing mechanism	The way in which assurance is provided that **Application Document 3.1 Draft Development Consent Order** has the correct powers to mandate all referenced commitments/measures.
Associated supporting documentation	The source or supporting documents within the application for development consent where additional information can be found on the commitment being made.

1.5 Embedded Design Measures

1.5.1 In accordance with the mitigation hierarchy the Project has been designed to avoid or reduce impacts to sensitive receptors wherever possible.

1.5.2 The following embedded design measures have been applied during the evolution of the Project design. As these measures are inherent in the design, they do not form commitments as they are already controlled by the fixed elements of the application for development consent but are included here for context in the application of the mitigation hierarchy.

- EDM01- Sensitive routeing and siting was undertaken to develop the proposed overhead line alignment and draft Order Limits. The routeing and siting avoids and reduces, as far as practicable, impacts on identified receptors, in line with the Overarching National Policy Statement for Energy (EN-1) (Department for Energy Security and Net Zero, 2025) and National Policy Statement for Electricity Networks Infrastructure (EN-5) (Department for Energy Security and Net Zero, 2025) as well as the Holford Rules (Holford, 1959).
- EDM02 - Where possible, the proposed overhead line has been designed to be parallel to or close parallel with the existing overhead lines. Route Sections where close parallel and pylon synchronicity has been achieved, considering constraints present along the existing overhead lines as well as technical complexity, include:
  - Sections within Route Sections A and B to reduce effects on the Yorkshire Wolds Important Landscape Area and potential effects of collision risk, habitat loss and disturbance of interest features of the Humber Estuary Special Protection Area (SPA) and Ramsar site; and
  - Route Section D to reduce effects on the Isle of Axholme Area of Special Historic Landscape Interest.
- EDM03 - Where the proposed overhead line is in parallel or close parallel with existing overhead lines the design has sought to synchronise the pylons as far as possible taking account of all other technical, environmental and lands constraints.
- EDM04 - The Project has been designed to use existing watercourse crossing points as far as practicable to minimise the introduction of new crossings and associated impacts.
- EDM05 - The design includes strategically located and optimised construction access tracks along the Project alignment to reduce the impact on the local highway network. This includes the inclusion of largely continuous construction access tracks, breaking only as a result of major roads, railways, areas of environmental constraints and/ or major watercourses.
- EDM06 - Construction effects have been designed out/ minimised as far as practicable through, for example, minimising land-take/habitat loss and locating construction access tracks and temporary construction compounds/ material storage areas outside of ecologically sensitive sites/ habitats (such as statutory and non-statutory designated sites, priority habitats and wetlands).

Table 1.2 – Register of Environmental Actions and Commitments

Type	Commitment reference	Commitment	Monitoring	Project Phase	Relevant Aspect Topic	Commitment Securing Mechanism	Associated Supporting Documentation
Design							
EM	DE1	The Project will be delivered and operated in compliance with all relevant legislation, consents and permits.	N/A	All phases	General	Requirement 5	**Application Document 6.2 Environmental Statement Chapter 2 Legislation and Policy Context**
EM	DE2	The Project's detailed design will be compliant with the guidelines and policies relating to electric and magnetic fields (EMF) stated in the National Policy Statement for Electricity Networks Infrastructure (EN-5) (Department for Energy Security and Net Zero, 2025), including the International Commission on Non-Ionizing Radiation Protection (ICNIRP) guidelines (ICNIRP, 1998).	N/A	All phases	General	Requirement 5	**Application Document 7.11 Electric and Magnetic Field Compliance Report**
EM	DE3	The Project will seek to retain the pylon positions as shown on **Application Document 2.4 Works Plans** unless following detailed design there are engineering, safety, environmental or other reasons to move a pylon within the Limits of Deviation.	N/A	Prior to construction	Landscape, Visual and Ornithology	Requirement 5	**Application Document 6.6 Environmental Statement Chapter 6 Landscape** **Application Document 6.7 Environmental Statement Chapter 7 Visual** **Application Document 6.9 Environmental Statement Chapter 9 Ornithology** **Application Document 6.10 Environmental Statement Chapter 10 Cultural Heritage**
EM	DE4	The Project will use lattice pylon as the most appropriate pylon type, to keep a consistent appearance with the existing NGET 400KV overhead line assets that the proposed new overhead line alignment interacts with the existing landscape.	N/A	Prior to construction	Landscape and Visual	Requirement 5	**Application Document 6.4 Environmental Statement Chapter 4 Description of the Project**
EM	DE5	To reduce potential for audible noise and tones to occur from all types of fittings, the pylon fittings, such as insulators, dampers, spacers and clamps, will be designed and procured in accordance with a series of National Grid Technical Specifications and must be type registered (rigorously tested) to ensure the fittings conform to the specifications.	N/A	Construction, Operation and Maintenance	Noise and Vibration	Requirement 5	**Application Document 6.7 Environmental Statement Chapter 7 Visual** **Application Document 6.16 Environmental Statement Chapter 16 Noise and Vibrations**
EM	DE6	The Project will use existing watercourse crossing points as far as practicable to minimise the introduction of new crossings and associated impacts.	N/A	Prior to construction	General	Requirement 5	**Application Document 6.4 Environmental Statement Chapter 4 Description of the Project**
EM	DE7	Large or sensitive watercourses, for example those designated as main rivers, and those with Water Framework Directive (WFD) status, will be crossed by the construction access track using temporary clear span bridges (or suitably assessed and approved alternatives).	N/A	Prior to construction	Ecology	Requirement 5	**Application Document 6.8 Environmental Statement Chapter 8 Ecology** **Application Document 6.4.A2 Environmental Statement Appendix 4.2 Indicative Bridge and Culvert Schedule**.

Type	Commitment reference	Commitment	Monitoring	Project Phase	Relevant Aspect Topic	Commitment Securing Mechanism	Associated Supporting Documentation
EM	DE8	The Project will install clear span bridges, or suitably assessed and approved alternatives, in all locations where pre-construction surveys identify the presence of water voles. The span length will be such that it avoids impacts to the banks, including the marginal and bankside vegetation (with the exception of trees and hedgerows) 5 m from the tops of the watercourse banks. Works to manage tree stems and canopies and hedgerows to facilitate bridge works may be undertaken within 5 m from the tops of the watercourse banks, but no root removal or ground disturbance will be permitted. All works to manage vegetation would be undertaken under the overseen of a ECoW.	N/A	Prior to construction and during construction	Ecology	Requirement 5	**Application Document 6.8 Environmental Statement Chapter 8 Ecology**
EM	DE9	Soffit heights at clear span crossings would be set on a site-specific basis, following more detailed survey and design work by the appointed Main Works Contractor(s). On watercourses with a high or good WFD status for invertebrates, soffits will be set as high as is practicable above the Q95 water level, accounting for site-specific constraints and to reduce impacts to ecology. Watercourses without those designations or sensitivities would be crossed by suitable means, with crossings designed to ensure continued flow conveyance and to prevent any barrier effects to aquatic ecology.	N/A	Prior to construction	Ecology	Requirement 5	**Application Document 6.11 Environmental Statement Chapter 11 Water Environment**
EM	DE10	Clearly demarcated, dedicated access routes will be provided during construction.	N/A	Prior to and during construction	Ecology	Requirement 5	**Application Document 6.8 Environmental Statement Chapter 8 Ecology**
EM	DE11	The Project will be designed to comply with design safety standards including National Electricity Transmission System Security and Quality of Supply Standard (NETS SQSS) and the suite of National Grid policies and processes which contain details on design standards required to be met when designing, constructing, and operating its projects.	N/A	Prior to construction	General	Requirement 5	N/A
EM	DE12	The conductor bundle for the proposed overhead line will be Triple Araucaria (700 mm² All Aluminium Alloy Conductor (AAAC)) or alternative technology that performs to the same or better standard in relation to noise on standard lattice pylons. Flexibility on conductor type is required at the River Ouse crossing between proposed pylons 4AF76 and 4AF80 as further work would be required during detailed design to confirm the conductor type for this section. The conductor bundle for the proposed replacement and re-alignment of a section of the existing 400 kV	N/A	Design	General	Requirement 5	**Application Document 6.16 Environmental Statement Chapter 16 Noise and Vibration**

Type	Commitment reference	Commitment	Monitoring	Project Phase	Relevant Aspect Topic	Commitment Securing Mechanism	Associated Supporting Documentation
		ZDA overhead line route between Ealand and west of Keadby will be Twin Rubus (500 mm² AAAC), or alternative technology that performs to the same or better standard in relation to noise on standard lattice pylons.					
EM	DE13	The Project has committed to siting specific pylons and/ or restricting the movement of specific pylons or infrastructure along the longitudinal Limits of Deviation (LoD). These include: • Pylon 4ZQ74 (see H07); and • Pylon 4AF41 (see H07).	N/A	Prior to construction	General	Requirement 5	**Application Document 6.10 Environmental Statement Chapter 10 Cultural Heritage**
EM	DE14	All known veteran trees within, and which have canopy overhanging, the Order Limits will be retained with the exception of T4 Common Oak – *Quercus robur* which can not be retained if the flexibility afforded by the Limits of Deviation were to be used. The locations of veteran trees are shown within Appendix D of **Application Document 7.14 Arboricultural Impact Assessment**.	N/A	Construction, operation and maintenance	Arboriculture	Requirement 5	**Application Document 7.14 Arboricultural Impact Assessment** **Application Document 7.8 Outline Landscape and Ecology Management Plan**
EM	DE15	No tree pruning and or coppicing (inclusive of works within the Root Protection Areas) will occur on the following trees. • T112 native Black Poplar – Populus nigra; and • T113 native Black Poplar – Populus nigra. Whilst located outside the Order Limits, these trees, by virtue of proximity, may overhang or grow beneath the ground into the land within the Order Limits. The locations of these trees are shown within **Application Document 7.14 Arboricultural Impact Assessment**.	N/A	All phases	Arboriculture	Requirement 5	**Application Document 7.14 Arboricultural Impact Assessment**
EM	DE16	All trees within the Functionally Linked Land mitigation area as shown on **Application Document 6.4.F1 Figure 4.1 Proposed Project Design** will be retained.	N/A	Construction	Arboriculture	Requirement 5	**Application Document 7.14 Arboricultural Impact Assessment**
EM	DE17	To avoid affecting habitat within the Humber Estuary Ramsar, Site of Special Scientific Interest (SSSI), Special Area of Conservation (SAC), and Special Protection Area (SPA) designated sites, the following three trees (Hawthorn - *Crataegus monogyna*) would be retained due to being located on the boundary (and therefore roots and canopy being within the designated site): • Category B tree (T85); • Category B tree (T86); and • (Category C tree (not numbered).	N/A	Prior to and during construction	Arboriculture	Requirement 5	**Application Document 7.14 Arboricultural Impact Assessment**

Type	Commitment reference	Commitment	Monitoring	Project Phase	Relevant Aspect Topic	Commitment Securing Mechanism	Associated Supporting Documentation
		A further Category C tree (Hawthorn) is located within the boundary of the above sites and would also be retained. The locations of these trees are shown within **Application Document 7.14 Arboricultural Impact Assessment**, noting that Category C trees are not numbered.					
EM	DE18	Temporary infrastructure such as construction compounds, lay down areas (as well as areas where impermeable material will be installed or where heavy equipment would be used) and construction access tracks would be drained using sustainable drainage systems (SuDS) techniques that are suitable for local ground conditions and topography and which are designed to accommodate a 1 in 10-year (10% Annual Exceedance Probability) event, plus a 40% allowance for climate change resilience. These areas will be reinstated after completion of the temporary works, as agreed with the landowner.	N/A	Construction	Water Environment	Requirement 5	**Application Document 6.11 Environmental Statement Chapter 11 Water Environment**
EM	DE19	Pylons will be situated a minimum of 16 m from the top of bank of any designated main river and a minimum of 3.5 m from the top of bank of any ordinary watercourses.	N/A	Prior to and during construction	Water Environment	Requirement 5	**Application Document 6.11 Environmental Statement Chapter 11 Water Environment**
EM	DE20	No permanent infrastructure will be constructed within the boundary of Melwood Local Geological Site (LGS) as shown on **Application Document 6.12.F3 Environmental Statement Figure 12.3 - Geologically Designated Sites**.	N/A	Construction	Geology and Hydrogeology	Requirement 5	**Application Document 6.12 Environmental Statement Chapter 12 Geology and Hydrogeology**
EM	DE21	The Project will explore the use of and utilise temporary materials from other construction projects where economically feasible and appropriate to do so.	N/A	Prior to and during construction	General	Requirement 5	**Application Document 6.19 Environmental Statement Chapter 19 Climate Change**
General							
EM	GG01	The final versions of the outline environmental management plans will be submitted for approval in accordance with the relevant Requirement (construction management plans) within **Application Document 3.1 Draft Development Consent Order** prior to commencement of development and will reflect the final construction methodologies produced by the Main Works Contractor(s). The following will be produced prior to construction: • Code of Construction Practice (CoCP); • Construction Traffic Management Plan (CTMP); • Soil Management Plan;	N/A	All phases	General	Requirement 4 Requirement 5	**Application Document 7.2 Outline Code of Construction Practice** **Application Document 7.4 Outline Construction Traffic Management Plan** **Application Document 7.5 Outline Soil Management Plan** **Application Document 7.6 Outline Public Rights of Way Management Plan** **Application Document 7.7 Outline Noise and Vibration Management Plan** **Application Document 7.8 Outline Landscape and Ecology Management Plan**

Type	Commitment reference	Commitment	Monitoring	Project Phase	Relevant Aspect Topic	Commitment Securing Mechanism	Associated Supporting Documentation
		• Public Rights of Way Management Plan; • Noise and Vibration Management Plan; • Landscape and Ecology Management Plan; • Archaeological Written Scheme of Investigation; and • Cultural Heritage Management Plan. • Framework Construction Surface Water Management Plan (CSWMP) All construction works will be undertaken in general accordance with these plans and all referenced subordinate plans.					**Application Document 7.9 Outline Archaeological Written Scheme of Investigation** **Application Document 7.10 Outline Cultural Heritage Management Plan**
CMM	GG02	The Mains Works Contractor(s) will undertake site inspections to check conformance to the measures set out within each of the management plans and their subordinate plans as set out within GG01.	N/A	All phases	General	Requirement 5	**Application Document 7.2 Outline Code of Construction Practice**
CMM	GG03	A number of roles and their respective responsibilities are listed within **Application Document 7.2 Outline Code of Construction Practice**. Suitability qualified personnel will be appointed to undertake these roles for the duration of the construction phase.	N/A	Construction, operation and maintenance	General	Requirement 5	**Application Document 7.2 Outline Code of Construction Practice**
CMM	GG04	Construction workers will undergo training to increase their awareness of environmental issues as applicable to their role on the Project as set out within **Application Document 7.2 Outline Code of Construction Practice**.	N/A	Prior to and during construction	General	Requirement 5	**Application Document 7.2 Outline Code of Construction Practice**
CMM	GG05	A record of condition (held within an Aftercare Management Plan will be produced by the Main Works Contractors(s)). It will cover the working area(s) that may be affected by the construction activities prior to the works commencing. These surveys will identify and record the condition of features such as trees, woodland, hedgerows, walls and fences, and will comprise of photographic, descriptive, and locational baseline evidence/ information. Records will be available for comparison. The land will be reinstated to a condition no worse than shown on the record of condition (or as agreed with the relevant landowner). Exceptions to re-instatement will be replacing mature vegetation and replanting directly beneath the proposed overhead line where it may cause operational safety concerns.	Pre-condition and reinstatement surveys	Prior to construction	General	Requirement 5	**Application Document 7.8 Outline Landscape and Ecology Management Plan**
EM	GG06	Land used temporarily will be reinstated to its pre-construction condition and use (or as agreed with the relevant landowner). Hedgerows, fences, and walls (including associated earthworks and boundary	Pre-condition and reinstatement surveys.	Prior to and during construction	General	Requirement 5	**Application Document 7.8 Outline Landscape and Ecology Management Plan**

Type	Commitment reference	Commitment	Monitoring	Project Phase	Relevant Aspect Topic	Commitment Securing Mechanism	Associated Supporting Documentation
		features) will be reinstated to a similar style and quality to those that were removed, unless otherwise agreed.					
CMM	GG07	Where sensitive features are to be retained within the Order Limits, an appropriate protective area will be established using appropriate demarcation and signage will be inspected, repaired and replaced as necessary.	Demarcation and signage of protective areas will be inspected weekly for the duration of the construction activity that the protective area is associated with.	Prior to and during construction	General	Requirement 5	**Application Document 7.8 Outline Landscape and Ecology Management Plan**
EM	GG08	All structures will be fitted with danger warning plates in accordance with The Electricity Safety, Quality and Continuity Regulations 2002, at intervals of not more than 6 m along all faces immediately above the anti-climbing device. A minimum of one plate per face will be fitted.	N/A	Construction	General	Requirement 5	N/A
Construction site set up							
CMM	GG09	As per **Application Document 7.2 Outline Code of Construction Practice**, contact details for the Project will be displayed at a safe and accessible point in close proximity the entrance to all compounds.	N/A	Construction	General	Requirement 5	**Application Document 7.2 Outline Code of Construction Practice**
CMM	GG10	As far as reasonably practicable and safe to do so, any activity carried out or equipment located within a construction compound that may produce dust, noise, vibration and lighting emissions, will be located away from sensitive receptors such as residential properties or designated ecological sites.	N/A	Construction	General	Requirement 5	**Application Document 7.2 Outline Code of Construction Practice**
CMM	GG11	Appropriate site layout and housekeeping measures will be implemented by the Main Works Contractor(s) at all construction sites. This will include but not be limited to: • Inspecting and collecting any waste or litter found on-site; • Locating or designing site offices and welfare facilities to limit the overlooking of residential properties; • Locating designated smoking/ vaping areas to avoid nuisance to neighbours; • Managing staff/vehicles entering or leaving site, especially at the beginning and end of the working day; and	N/A	Construction	General	Requirement 5	**Application Document 7.2 Outline Code of Construction Practice**

Type	Commitment reference	Commitment	Monitoring	Project Phase	Relevant Aspect Topic	Commitment Securing Mechanism	Associated Supporting Documentation
		• Managing potential off-site contractor and visitor parking.					
CMM	GG12	Vehicles and vessels will be correctly maintained and operated in accordance with manufacturer's recommendations and in a responsible manner. The operators of plant and vehicles will be required to switch off their engines when not in use and when it is safe to do so. Electric or other low carbon plant and equipment will be used where available and where practicable.	N/A	Construction	General	Requirement 5	**Application Document 7.2 Outline Code of Construction Practice**
CMM	GG13	Materials and equipment will not be moved or handled unnecessarily. When loading and unloading materials from vehicles, including excavated materials, drop heights will be limited, where practicable.	N/A	Construction	Noise and Vibration	Requirement 5	**Application Document 6.16 Environmental Statement Chapter 16 Noise and Vibration**
CMM	GG14	The storage of topsoil or other soft building materials within the Order Limits will be made inaccessible to badgers (e.g. through fencing to ground-level). All mounds within 30 m of works will require regular checks for the presence of protected species.	Regular visual checks of stored topsoil or other soft building materials	Prior to and during construction	Ecology	Requirement 5	**Application Document 6.8 Environmental Statement Chapter 8 Ecology**
CMM	GG15	Fuels, oils and chemicals will be stored responsibly, away from sensitive water receptors. Where practicable, they will be stored >15 m from watercourses, ponds and groundwater dependent terrestrial ecosystems. Where it is not practicable to maintain a >15 m distance, additional measures will be identified by the Main Works Contractor(s) These measures may include double bunded bowsers.	N/A	All phases	General	Requirement 5	**Application Document 6.8 Environmental Statement Chapter 8 Ecology** **Application Document 6.11 Environmental Statement Chapter 11 Water Environment** **Application Document 6.12 Environmental Statement Chapter 12 Geology and Hydrogeology**
CMM	GG16	All refuelling, soiling and greasing of construction plant and equipment will take place above drip trays and also away from drains as far as is reasonably practicable. Vehicles and plant will not be left unattended during refuelling. Appropriate spill kits will be made easily accessible for these activities.	N/A	All phases	General	Requirement 5	**Application Document 6.8 Environmental Statement Chapter 8 Ecology** **Application Document 6.11 Environmental Statement Chapter 11 Water Environment** **Application Document 6.12 Environmental Statement Chapter 12 Geology and Hydrogeology**
CMM	GG17	Potential hazardous materials used during construction will be safely and securely stored including use of secondary containment where appropriate.	N/A	All phases	General	Requirement 5	**Application Document 6.8 Environmental Statement Chapter 8 Ecology** **Application Document 6.11 Environmental Statement Chapter 11 Water Environment** **Application Document 6.12 Environmental Statement Chapter 12 Geology and Hydrogeology**
CMM	GG18	Stored flammable liquids such as diesel will be protected either by double walled tanks or stored in a	N/A	All phases	General	Requirement 5	**Application Document 6.8 Environmental Statement Chapter 8 Ecology**

Type	Commitment reference	Commitment	Monitoring	Project Phase	Relevant Aspect Topic	Commitment Securing Mechanism	Associated Supporting Documentation
		bunded area with a capacity of 110% of the maximum stored volume. Spill kits will be located nearby.					**Application Document 6.11 Environmental Statement Chapter 11 Water Environment** **Application Document 6.12 Environmental Statement Chapter 12 Geology and Hydrogeology**
CMM	GG19	Runoff across the site will be controlled through a variety of methods including header drains, buffer zones around watercourses, on-site ditches, silt traps and bunding. There will be no intentional discharge of site runoff to ditches, watercourses, drains (including highway drainage systems), or sewers without appropriate treatment and agreement of the appropriate authority. All practicable steps will be put in place to prevent pollution of watercourses. In the case of an emergency, protocols will be followed as per an Emergency Response Plan to be produced by the Mains Work Contractor(s) in accordance with commitment GG25.	N/A	Prior to and during Construction	General	Requirement 5	**Application Document 6.11 Environmental Statement Chapter 11 Water Environment**
CMM	GG20	Wheel washing facilities will be provided at each compound and intermittently along construction access tracks. Road sweepers will be deployed on public roads where necessary to prevent excessive dust or mud deposits. Dry sweeping of large areas will be avoided.	N/A	All phases	General	Requirement 5	**Application Document 6.11 Environmental Statement Chapter 11 Water Environment** **Application Document 6.15 Environmental Statement Chapter 15 Air Quality** **Application Document 7.4 Outline Construction Traffic Management Plan**
CMM	GG21	Earthworks and stockpiled soil will be protected by covering, seeding or using water suppression.	N/A	All phases	General	Requirement 5	**Application Document 6.13 Environmental Statement Chapter 13 Agriculture and Soils** **Application Document 6.15 Environmental Statement Chapter 15 Air Quality**
CMM	GG22	Bonfires and the burning of waste material will be prohibited.	N/A	All phases	General	Requirement 5	**Application Document 6.15 Environmental Statement Chapter 15 Air Quality**
CMM	GG23	Construction lighting will be of the lowest luminosity necessary to perform each task safely. It will be designed, positioned and directed to reduce the intrusion into adjacent properties, moored boats on canals, and protected species and habitats including designated sites. Lighting used for construction will be switched off when not in use and positioned to minimise spill onto adjacent land or retained vegetation. All lighting will also be designed following Guidance Note 08/23 Bats and Artificial Lighting (Institution of Lighting Professionals and Bat Conservation Trust, 2023) and Guidance Note 01/21 The Reduction of Obtrusive Light (Institution of Lighting Professionals, 2021).	N/A	Construction and maintenance	General	Requirement 5	**Application Document 6.6 Environmental Statement Chapter 6 Landscape** **Application Document 6.7 Environmental Statement Chapter 7 Visual** **Application Document 6.8 Environmental Statement Chapter 8 Ecology** **Application Document 6.9 Environmental Statement Chapter 9 Ornithology**

Type	Commitment reference	Commitment	Monitoring	Project Phase	Relevant Aspect Topic	Commitment Securing Mechanism	Associated Supporting Documentation
CMM	GG24	A Site Waste Management Plan (SWMP) will be developed prior to construction. The SWMP will include but not be limited to: • Waste forecasts; • How waste will be reduced, re-used, managed and disposed of in accordance with the waste hierarchy; • Identification of recovery routes; and • Actual waste figures once work has begun. Consideration will be given to the guidance in The Definition of Waste: Development Industry Code of Practice (DoWCoP) (CL:AIRE, 2011). Dedicated waste management areas will be designed to sufficiently accommodate the types and volumes of waste produced and to reduce the environmental risk of storing waste on-site (covered, secured and away from drainage).	N/A	Prior to and during construction	General	Requirement 5	**Application Document 7.2 Outline Code of Construction Practice**
CMM	GG25	An Emergency Response Plan will be developed by the Mains Work Contractor(s) for the construction phase which will outline procedures to be implemented and to be followed in case of unplanned events, including but not limited to site flooding and pollution incidents.	N/A	Prior to construction	General	Requirement 5	**Application Document 6.11 Environmental Statement Chapter 11 Water Environment** **Application Document 7.2 Outline Code of Construction Practice**
CMM	GG26	Where necessary, stone pads will be installed in areas where heavy equipment, such as cranes and piling rigs, are to be used. The stone pads will provide stable working areas and will reduce disturbance to the ground. The stone pad area will be stripped of the topsoil, which will be stored and reinstated in accordance with the soil management measures set out in **Application Document 7.5 Outline Soil Management Plan**. Other soil stabilisation techniques will be considered where appropriate.	N/A	Construction	General	Requirement 5	**Application Document 6.13 Environmental Statement Chapter 13 Agriculture and Soils** **Application Document 7.5 Outline Soil Management Plan**
CMM	GG27	Working areas will be appropriately demarcated. The type of demarcation to be installed will depend on the area to be managed and will take into consideration the level of security required in relation to the surrounding land and public access, rural or urban environment and arable or stock farming. For some locations the demarcation used may also serve to provide acoustic and visual screening of the work sites and reduce the potential for disturbance of users in the surrounding areas. Any demarcated area will be regularly inspected and maintained and removed as part of demobilisation unless otherwise specified.	All demarcated areas will be checked intermittently and prior to any construction activity that is associated with the need for the demarcated area.	Construction	General	Requirement 5	**Application Document 6.6 Environmental Statement Chapter 6 Landscape** **Application Document 6.8 Environmental Statement Chapter 8 Ecology** **Application Document 7.14 Arboricultural Impact Assessment** **Application Document 6.16 Environmental Statement Chapter 16 Noise and Vibration**

Type	Commitment reference	Commitment	Monitoring	Project Phase	Relevant Aspect Topic	Commitment Securing Mechanism	Associated Supporting Documentation
CMM	GG28	Members of the community and local businesses will be kept informed regularly of the works through active community liaison. This will include notification of noisy activities, heavy traffic periods and start and end dates of key phasing. A free telephone Project helpline and website will be provided which members of the public can use to raise any concerns or complaints about the Project. All construction-related queries will be logged by National Grid in a complaint register, together with a record of the responses given and actions taken.	N/A	Prior to and during construction	General	Requirement 5	**Application Document 6.17 Environmental Statement Chapter 17 Socio-economics, Recreation and Tourism** **Application Document 6.18 Environmental Statement Chapter 18 Health and Wellbeing**
CMM	GG29	Following the erection of any scaffolding structures, anti-climbing devices will be fitted as soon as reasonably practicable. No scaffolding will be left unattended without an anti-climbing device fitted.	N/A	Prior to and during construction	General	Requirement 5	N/A
Site restoration							
CMM	GG30	The construction work area will be reinstated to pre-existing conditions as far as reasonably practical in line with a Soil Management Plan and the Department for Environment, Food and Rural Affairs (Defra) Code of Construction Practice for the Sustainable Use of Soils on Construction Sites (Defra, 2009). This will include a commitment to develop and comply with the measures set out within an Aftercare Management Plan (including the aftercare period) prior to the completion of construction.	Pre-condition and reinstatement surveys	Construction, operation and maintenance	General	Requirement 5	**Application Document 6.13 Environmental Statement Chapter 13 Agriculture and Soils** **Application Document 7.5 Outline Soil Management Plan**
Landscape and Visual							
CMM	LV01	The Main Works Contractor(s) will retain vegetation where practicable. Where vegetation is lost and trees cannot be replaced in situ due to the restrictions associated with operational safety, replacement vegetation will be planted as close by as practicable and will complement the landscape character and be sympathetic to the local habitat type in order to provide a high biodiversity value.	N/A	All phases	Landscape and Visual	Requirement 5	**Application Document 7.8 Outline Landscape and Ecology Management Plan** **Application Document 6.6 Environmental Statement Chapter 6 Landscape**
CMM	LV02	The Main Works Contractor(s) will apply the relevant protective principles as set out in British Standard (BS) 5837:2012: Trees in relation to design, demolition and construction (British Standards Institution, 2012). All works to trees will follow guidance in BS 3998:2010: Tree work – Recommendations (British Standards Institution, 2010). Tree work to veteran trees and those under Tree Preservation Orders will be undertaken by a suitably qualified arboriculturist and supervised by the Arboricultural Clerk of Works (ArbCoW).	N/A	Construction	Landscape and Visual	Requirement 5	**Application Document 7.8 Outline Landscape and Ecology Management Plan** **Application Document 6.6 Environmental Statement Chapter 6 Landscape** **Application Document 7.14 Arboricultural Impact Assessment**

Type	Commitment reference	Commitment	Monitoring	Project Phase	Relevant Aspect Topic	Commitment Securing Mechanism	Associated Supporting Documentation
CMM	LV03	A five-year aftercare period will be established for all reinstatement and mitigation planting.	Regular site inspections of all reinstatement and mitigation planting will occur for the 5-year aftercare period.	Prior to construction, during construction, operation and maintenance	Landscape and Visual and ecology	Requirement 5 Requirement 8	**Application Document 7.8 Outline Landscape and Ecology Management Plan**
AM	LV04	Planting and seeding operations will be undertaken during an appropriate planting/seeding season, and where planting is in locations not affected by other construction activities, planting will be undertaken at the earliest opportunity.	N/A	Construction, operation and maintenance	Landscape and Visual and ecology	Requirement 5	**Application Document 6.6 Environmental Statement Chapter 6 Landscape** **Application Document 6.7 Environmental Statement Chapter 7 Visual** **Application Document 7.8 Outline Landscape and Ecology Management Plan**
Arboriculture							
CMM	ARB01	All construction, operation and maintenance works will be undertaken in accordance with the approaches and measures set out within **Application Document 7.8 Outline Landscape and Ecology Management Plan**.	N/A	Construction, operation and maintenance	Landscape and Visual	Requirement 5	**Application Document 7.8 Outline Landscape and Ecology Management Plan** **Application Document 7.14 Arboricultural Impact Assessment**
CMM	ARB02	The Mains Works Contractor(s) will, where necessary, produce and comply with a site-specific Arboricultural Method Statement (AMS) including a Tree Protection Plan. The site-specific AMS will detail specified methodologies to limit, mitigate or manage the impact on trees.	N/A	Prior to and during construction	Arboriculture	Requirement 5	**Application Document 7.8 Outline Landscape and Ecology Management Plan**
CMM	ARB03	The Project, and specific construction tasks, will take a hierarchical approach to trees, aiming to retain as many trees as practicable in the first instance by applying Engineering Recommendation G136 Vegetation Management Near Electricity Equipment – Principles of Good Practice (Energy Networks Association, 2020), and avoiding total loss of habitat where practicable (i.e. by pruning, pollarding or coppicing rather than complete tree removal).	N/A	All phases	Arboriculture	Requirement 5	**Application Document 6.8 Environmental Statement Chapter 8 Ecology** **Application Document 7.14 Arboricultural Impact Assessment**
CMM	ARB04	Following detailed design and prior to construction (of relevant parts of the Project), relevant surveys will be undertaken of arboricultural features that may be impacted or need to be removed to ensure any tree/hedgerow removal is reduced as far as practicable.	N/A	Prior to construction	General	Requirement 5	**Application Document 7.8 Outline Landscape and Ecology Management Plan** **Application Document 7.14 Arboricultural Impact Assessment**
CMM	ARB05	Prior to commencement of construction activities, a review of all Tree Preservation Order (TPO) records within the Arboricultural Study Area will be conducted.	N/A	Prior to construction	Arboriculture	Requirement 5	**Application Document 7.14 Arboricultural Impact Assessment**

Type	Commitment reference	Commitment	Monitoring	Project Phase	Relevant Aspect Topic	Commitment Securing Mechanism	Associated Supporting Documentation
CMM	ARB06	Construction exclusion zones (CEZ) will be established, which will encompass Root Protection Areas and be shown on a Tree Protection Plan to be produced prior to start of construction. CEZs are to be implemented for the duration of construction and will be demarcated by tree protection fencing. Where access only is required, temporary ground protection measures would be installed to prevent soil compaction and root damage. Where works within a CEZ are required, supervision of the works will be undertaken by an ArbCoW and any additional recommendations followed.	N/A	Prior to construction	Arboriculture	Requirement 5	**Application Document 7.14 Arboricultural Impact Assessment**
AM	ARB07	Any bespoke mitigation measures in relation to trees will be specified following detailed design by the Main Works Contractor(s). These may include one or a combination of the following: • Design refinements to avoid or reduce encroachment, micro-siting, working from track side, hand digging; • 'No dig' solutions such as cellular confinement systems (CCS), ground protection, and protective fencing; and • Use of plant or equipment with low ground pressure such as wide-tracked vehicles. During construction, where works within a Root Protection Area are required, these will be captured within an Arboricultural Method Statement (AMS) (including a Tree Protection Plan) with supervision of the works to be conducted by an ArbCoW and any additional mitigation measures followed.	N/A	Prior to and during construction	Arboriculture	Requirement 5	**Application Document 7.14 Arboricultural Impact Assessment**
CMM	ARB08	Where pruning to the crown or roots is necessary (such as where tree pruning is required to achieve electrical safety clearances), this will be undertaken in accordance with BS 3998:2010 (British Standards Institution, 2010).	N/A	All phases	Arboriculture	Requirement 5	**Application Document 6.8 Environmental Statement Chapter 8 Ecology** **Application Document 7.14 Arboricultural Impact Assessment**
CMM	ARB09	Prior to construction near trees, requirements for facilitation pruning to avoid injurious contact are to be determined with arboricultural supervision by the ArbCoW.	N/A	Prior to and during Construction	Arboriculture	Requirement 5	**Application Document 7.14 Arboricultural Impact Assessment**
CMM	ARB10	Where practical, stockpiles, material storage, vehicle tracking, and soil bunds will be located away from trees and hedgerows. This is to ensure no damage occurs to these features and that works remain outside of the root protection area of the features. Works that cannot be undertaken without entering into a Root Protection Area will be addressed within a site-specific Arboricultural Method Statement (AMS).	N/A	Construction	General	Requirement 5	**Application Document 7.8 Outline Landscape and Ecology Management Plan** **Application Document 7.14 Arboricultural Impact Assessment**

Type	Commitment reference	Commitment	Monitoring	Project Phase	Relevant Aspect Topic	Commitment Securing Mechanism	Associated Supporting Documentation
CMM	ARB11	To minimise as far as practicable, the impacts to designated ancient woodlands will be protected throughout the works, with a minimum exclusion zone of 15 m offset from the edge of the ancient woodland. (**Application Document 2.9 Habitats of Protected Species and Important Habitats**). For any necessary works within the Root Protection Areas, an ArbCoW will be consulted to agree the working method if breaking ground is required and to remove compaction risks.	N/A	Construction and maintenance	Arboriculture, Ecology	Requirement 5	**Application Document 6.8 Environmental Statement Chapter 8 Ecology** **Application Document 2.9 Habitats of Protected Species and Important Habitats**
CMM	ARB12	In order to construct the Project, including to provide the necessary electrical clearances required to construct and maintain a safe and reliable power grid, under the supervision of the ArbCoW for the Project the following veteran trees can be managed in the following ways: • T12 Ash – *Fraxinus excelsior* (canopy reduction of up to 6 m in targeted areas to a suitable growing union to achieve required canopy clearance from the proposed overhead line. Any thinning or branch removal within the remaining canopy would be specifically agreed with the ArbCoW in advance of any works being undertaken); • T13 Ash – *Fraxinus excelsior* (canopy reduction of up to 6 m in targeted areas to a suitable growing union to achieve required canopy clearance from the proposed overhead line. Any thinning or branch removal within the remaining canopy would be specifically agreed with the ArbCoW in advance of any works being undertaken); • T36 White Willow – *Salix alba* (pollard to a height of 2 m for clearance for the proposed overhead line and scaffolding); • T49 Crack Willow - *Salix fragilis* (targeted canopy reduction on north-western side of canopy above Norfolk Bank Lane. Temporary highway widening intersects with the Root Protection Area (RPA). Options for no-dig construction methods, such as cellular confinement systems to be explored during detailed design and implemented where practicable. The Project recognises that the highway widening will result in disturbance within the RPA of T49. Following construction, remediation measures may include, but are not limited to, reinstatement of original soils, decompaction, soil aeration, and addition of soil amelioration products, for example seaweed extracts and mulching. • T67 – Crack Willow - *Salix fragilis* (targeted canopy reduction on western side of canopy above Tongue	N/A	Construction, operation and maintenance	Arboriculture	Requirement 5	**Application Document 7.14 Arboricultural Impact Assessment**

Type	Commitment reference	Commitment	Monitoring	Project Phase	Relevant Aspect Topic	Commitment Securing Mechanism	Associated Supporting Documentation
		Lane. Temporary highway widening intersects with the RPA. Options for no-dig construction methods, such as cellular confinement systems to be explored during detailed design and implemented where practicable. The Project recognises that the highway widening will result in disturbance within the RPA of T67. Following construction, remediation measures may include, but are not limited to, reinstatement of original soils, decompaction, soil aeration, and addition of soil amelioration products, for example seaweed extracts and mulching); • T77 Common Oak – *Quercus robur* (should the flexibility afforded by the LoD be used, height reduction of approximately 3 m from growing tips to suitable growing union, rebalance canopy by removing approximately 3 m of the lateral spread of the northern canopy to suitable growing unions to create a rounded, more balanced canopy); • T83 Common Oak – *Quercus robur* (should the flexibility afforded by the LoD be used for the temporary construction access, RPA protection and potentially targeted crown pruning may be required. All works to be specifically agreed with the ArbCoW in advance of any works being undertaken. Options for No-dig construction methods, such as cellular confinement systems to be explored during detailed design and implemented where practicable. Following construction, remediation measures may include but are not limited to reinstatement of original soils, decompaction, soil aeration, and addition of soil amelioration products for example seaweed extracts and mulching); • T90 Crack Willow - *Salix fragilis* (should the flexibility afforded by the LoD be used, coppice stems to a height of 2 m from ground level); • T130 White Willow - *Salix alba* (should the flexibility afforded by the LoD be used, height reduction of up to 3 m from the growing tips to a suitable union. For RPA protection, options for No-dig construction methods, such as cellular confinement systems to be explored during detailed design and implemented where practicable. Following construction, remediation measures may include but are not limited to reinstatement of original soils, decompaction, soil aeration, and addition of soil amelioration products for example seaweed extracts and mulching);					

Type	Commitment reference	Commitment	Monitoring	Project Phase	Relevant Aspect Topic	Commitment Securing Mechanism	Associated Supporting Documentation
		• T144 White Willow – *Salix alba* (should the flexibility afforded by the LoD be used), prune limbs on the eastern side of the canopy to achieve a minimum clearance of 3 m. All cuts to be made to suitable growing unions. If pollarding is required, pollard to existing pollard points (approximately 3 m); • T157 White Willow – *Salix alba* (coppice stems to a height of 2 m from ground level); • T214 Crack Willow – *Salix fragilis* (pollard to a height of 2 m from ground level for clearance for the proposed overhead line and scaffolding. Bellmouth 111 intersects with the RPA. Options for no-dig construction methods, such as cellular confinement systems to be explored during detailed design and implemented where practicable. The Project recognises that the proposed bellmouth 111 will result in disturbance within the RPA of T214. Following construction, remediation measures may include but are not limited to reinstatement of original soils, decompaction, soil aeration, and addition of soil amelioration products for example seaweed extracts and mulching); • T215 Crack Willow – *Salix fragilis* (pollard to a height of 2 m from ground level for clearance for the proposed overhead line and scaffolding. Bellmouth 111 intersects with the RPA. No-dig construction methods, such as cellular confinement systems to be explored during detailed design and implemented where practicable. The Project recognises that the proposed bellmouth 111 will result in disturbance within the RPA of T215. Following construction, remediation measures may include but are not limited to reinstatement of original soils, decompaction, soil aeration, and addition of soil amelioration products for example seaweed extracts and mulching); • T216 White Willow – *Salix alba* (pollard to a height of 2 m from ground level for clearance for scaffolding. Bellmouth 111 intersects with the Root Protection Area. No-dig construction methods, such as cellular confinement systems to be explored during detailed design and implemented where practicable. The Project recognises that the Proposed bellmouth 111 will result in disturbance within the RPA of T216. Following construction, remediation measures may include but are not limited to reinstatement of original soils, decompaction, soil aeration, and addition of					

Type	Commitment reference	Commitment	Monitoring	Project Phase	Relevant Aspect Topic	Commitment Securing Mechanism	Associated Supporting Documentation
		soil amelioration products for example seaweed extracts and mulching.); • T219 White willow – *Salix alba* (pollard to a height of 10 m from ground level); • T240 White Willow – *Salix alba* (should the flexibility afforded by the LoD be used, pollard to a height of 2 m from ground level, stringing position to be micro-sited to avoid impacts); • T245 White willow – *Salix alba* (should the flexibility afforded by the LoD be used for the proposed overhead lines, pollard to a height of 11 m from ground level. If the flexibility afforded by the LoD brings pylon working area into the RPA, RPA protection options for No-dig construction methods, such as cellular confinement systems to be explored during detailed design and implemented where practicable. Following construction, remediation measures may include, but are not limited to, reinstatement of original soils, decompaction, soil aeration, and addition of soil amelioration products, such as, seaweed extracts and mulching); • T246 White willow – *Salix alba* (pollard to a height of 2 m from ground level); • T252 White Willow – *Salix alba* (should the flexibility afforded by the LoD be used, pollard to a height of 3 m from ground level, or as required to achieve suitable clearance); and • G41 Crack Willow – *Salix fragilis* (targeted canopy clearance pruning on western side of canopy. Coppice stems to a height of 2 m from ground level). The locations of these veteran trees are shown within **Application Document 7.14 Arboricultural Impact Assessment**.					
CMM	ARB13	The canopies of two veteran trees T44 and T46, both White willow – *Salix alba*) are currently managed by the local authority due to their proximity to the highway. Depending on their current management cycle and the Project's requirements, additional/interim canopy management may be required to be undertaken by the Project to avoid accidental damage by traffic. Should this be required all works will be agreed in advance with the ArbCoW and would be akin to the degree of management currently undertaken. The locations of these veteran trees are shown within **Application Document 7.14 Arboricultural Impact Assessment**.	N/A	Construction, operation and maintenance	Arboriculture	Requirement 5	**Application Document 7.14 Arboricultural Impact Assessment**

Type	Commitment reference	Commitment	Monitoring	Project Phase	Relevant Aspect Topic	Commitment Securing Mechanism	Associated Supporting Documentation
CMM	ARB14	Following completion of construction in an area surrounding the Root Protection Area of a retained veteran tree, remediation should be agreed with the relevant Local Planning Authority (LPA) and the Arboricultural Clerk of Works (ACoW). If required remediation should be undertaken with ACoW supervision. Remediation works may include, but are not limited to: • Mulching the trees rooting area; • Soil decompaction, using an airspade or similar; • Soil improvement additives; • Halo pruning of competing vegetation; • Remediation pruning, such as phased retrenchment pruning; • Establishment of a permanent exclusion zone through the installation of fencing or dead hedging to prevent soil compaction or disturbance; • Land management changes, such as the creation of permanent agricultural headlands; • Companion/shelter planting with suitable species, potentially trees raised from local veteran tree provenance; and • Habitat creation using wildlife boxes, erection of deadwood and other measures.	N/A	Operation and maintenance	Arboriculture	Requirement 5	**Application Document 7.14 Arboricultural Impact Assessment**
AM	ARB15	To assess and ensure the effectiveness of remediation works to veteran trees, a monitoring programme will be agreed with Natural England and relevant Local Planning Authorities and adopted by National Grid. Due to the ecological significance of veteran trees, the monitoring programme will cover a 30-year period.	Monitoring of veteran trees to ensure no deterioration of irreplaceable habitat	Operation and maintenance	Arboriculture	Requirement 5	**Application Document 7.14 Arboricultural Impact Assessment**
AM	ARB16	To construct a safe and reliable power grid, it may become necessary, following the detailed design of the Project, for the following veteran tree to be removed (by use of the Limits of Deviation): • T4 Common Oak – *Quercus robur*. All brash, timber and material from the tree removed will be retained on-site in brash/wood piles as close to the original location of the felled tree as possible.	N/A.	Construction	Arboriculture	Requirement 5	**Application Document 7.14 Arboricultural Impact Assessment** **Application Document 7.8 Outline Landscape and Ecology Management Plan**
AM	ARB17	A replanting ratio of 30:1 for the loss of T4 has been agreed with Natural England and East Riding of Yorkshire Council. Planting at this ratio will be undertaken adjacent to Socken Wood in the location identified on **Application Document 6.4.F1 Environmental Statement Figure 4.1 Proposed Project Design**.	N/A.	Construction	Arboriculture	Requirement 5	**Application Document 7.14 Arboricultural Impact Assessment** **Application Document 7.8 Outline Landscape and Ecology Management Plan**

Type	Commitment reference	Commitment	Monitoring	Project Phase	Relevant Aspect Topic	Commitment Securing Mechanism	Associated Supporting Documentation
		The location of the planting and further information is presented within the **Application Document 7.8 Outline Landscape and Ecology Management Plan** and **Application Document 7.14 Arboricultural Impact Assessment**.					
EM	ARB18	National Grid has committed to a 3:1 replacement for individual trees and individual trees within small groups. The Project will prioritise (where possible and practicable) the replanting for individual trees and small groups of individual trees within the Order Limits.	N/A	Construction	Arboriculture	Requirement 5	**Application Document 7.14 Arboricultural Impact Assessment** **Application Document 7.8 Outline Landscape and Ecology Management Plan**
Ecology							
CMM	E01	The Main Works Contractor(s) will comply with relevant protected species legislation. Appropriate licences will be obtained where necessary from Natural England for all works affecting protected species as identified in the ES and through pre-construction surveys. All applicable works will be undertaken in accordance with the relevant requirements and conditions set out in those licences.	Relevant protected species licence	All phases	Ecology	Requirement 5	**Application Document 6.8 Environmental Statement Chapter 8 Ecology**
CMM	E02	Where notable species have been identified or where there is potential for them to be present at the time of construction, and effects cannot be avoided through design, Reasonable Avoidance Measures and/or Precautionary Working Methods, will also be developed and implemented and overseen by an ECoW, along with appropriate training for the Main Works Contractor(s) on working in proximity to notable species and or habitat.	N/A	Prior to and during construction	Ecology	Requirement 5	**Application Document 6.8 Environmental Statement Chapter 8 Ecology**
CMM	E03	Where there will be a risk of animal entrapment, a means of escape will be provided for all excavations left open overnight. In the unlikely event that a trapped animal is encountered, the ECoW (or suitable alternative such as the named ecologist on a species licence for the Project) will be contacted immediately for further advice.	All trenches or pits will be inspected each morning prior to continuing to work in that location, to ensure no badgers (or other animals) have become trapped overnight.	Construction	Ecology	Requirement 5	**Application Document 6.8 Environmental Statement Chapter 8 Ecology**
CMM	E04	Excluding those surrounding excavations and topsoil, temporary construction fences will retain a gap beneath to allow badgers to pass through, avoiding severance of commuting routes to foraging or watering areas.	N/A	Prior to and during construction	Ecology	Requirement 5	**Application Document 6.8 Environmental Statement Chapter 8 Ecology**

Type	Commitment reference	Commitment	Monitoring	Project Phase	Relevant Aspect Topic	Commitment Securing Mechanism	Associated Supporting Documentation
CMM	E05	To control the spread of invasive non-native species (INNS) of plants, in accordance with the Wildlife and Countryside Act 1981 (HM Government, 1981), any plant or machinery that has been used in areas infested with INNS (both terrestrial and aquatic), such as Japanese knotweed (*Reynoutria japonica*) and Himalayan balsam (*Impatiens glandulifera*), will be thoroughly cleaned. Water used to clean vehicles will be controlled to prevent the spread of the plant (through seeds, rhizomes or fragments for example).	N/A	Construction	Ecology	Requirement 5	**Application Document 6.8 Environmental Statement Chapter 8 Ecology**
CMM	E06	Appropriate exclusion zones will be demarcated and enforced around areas of INNS (informed by an up-to-date site walkover) to avoid spread or propagation (through seeds, rhizomes, or fragments, etc.). An Invasive and Non-Native Species Management Plan will be produced pre-construction and complied with at the applicable phase, to detail required eradication methods (where necessary) for INNS present on-site and biosecurity controls to prevent spread.	N/A	Prior to and during Construction	Ecology	Requirement 5	**Application Document 6.8 Environmental Statement Chapter 8 Ecology**
CMM	E07	All habitats suitable for common reptiles (e.g. grass snake (*Natrix helvetica*), common lizard (*Zootoca vivipara*), slow worm (*Anguis fragilis*), and adder (*Vipera berus*) will be subject to two-stage habitat manipulation that will take place between mid-March and mid-October. Replacement hibernacula and refugia will be provided where possible using logs from trees removed.	N/A	Prior to and during construction All phases	Ecology	Requirement 5	**Application Document 6.8 Environmental Statement Chapter 8 Ecology** **Application Document 7.8 Outline Landscape Environment Management Plan**
AM	E08	Alternative roost structures (bat boxes) will be provided (with landowner consent) on suitable retained trees within the Order Limits or areas outside of the Order Limits as agreed with landowners.	N/A	Prior to and during construction	Ecology	Requirement 5	**Application Document 6.9 Environmental Statement Chapter 9 Ornithology**
CMM	E09	Any tree that requires management and/or removal will be subject to a pre-works re-assessment by a suitably experienced and licensed ecologist, to check that the baseline conditions have not changed. Where the removal/ reduction of a tree categorised as Preliminary Roost Assessment Follow-up Survey –PRF-I (potential roost features suitable for an individual or small number of bats) or Preliminary Roost Assessment Follow-up Survey – PRF-M (potential roost features suitable for multiple bats or larger roosts) cannot be avoided, and the presence of a bat roost has not been confirmed through survey, the tree will be soft felled/pruned under an ecological watching brief. The ecologist present will be registered to use the Level 2 Natural England Bat Survey Class Licence and will carry out a pre-construction check to confirm roost absence. In addition to the PRF-M trees, all PRF-I trees that have not	N/A	All phases	Ecology	Requirement 5	**Application Document 6.8 Environmental Statement Chapter 8 Ecology**

Type	Commitment reference	Commitment	Monitoring	Project Phase	Relevant Aspect Topic	Commitment Securing Mechanism	Associated Supporting Documentation
		previously been subject to an aerial inspection will be assessed at height by an ecologist registered to use the Level 2 Natural England Bat Survey Class Licence where possible to do so. Trees not safe to climb may require dusk surveys as an alternative method. All trees with confirmed bat roosts that cannot be retained would be felled under a granted Bat Mitigation Licence from Natural England and would be subject to stated mitigation and procedures detailed within the licence.					
CMM	E10	***Minimising loss*** Where the works require the removal of sections of hedgerow, the gap will be no greater than the width required to facilitate safe construction. Hedgerows and trees will be retained beneath conductors where practicable on a like for like basis or improved. ***Dead hedging*** Where hedgerow removals are necessary, 'dead hedging' will be used (where appropriate and safe to do so) in the interim periods to retain connectivity during construction. This will be required across gates of access tracks (including to the side of bellmouths, whilst maintaining safe visibility), overhead line stringing. In particular through the hazel dormouse licence area by Treswell Wood. Dead hedging can comprise vegetation arisings or artificial provision, such as willow screening panels or Heras fencing covered in camouflage netting. Sections of hedgerow that require temporary removal to facilitate construction of the Project will be reinstated post construction to the same (or improved) condition. For example, species-poor gappy hedgerows would be replaced with intact species-rich hedgerows where practicable. ***Retaining existing hedgerows*** Hedgerows will be retained unless sections require removal for construction access tracks, bellmouths and visibility splays. Working areas will retain a 5 m buffer where possible. Any hedgerow clearance required to facilitate construction activities will be undertaken in the same calendar year as the planned construction activities where practicable. Third party works will endeavour to use trenchless crossing methods for utility diversions beneath the hedgerow instead of open cutting, in particular within the hazel dormouse licence area, and in compliance with the dormouse Mitigation Licence from Natural England.	N/A	Construction	Ecology	Requirement 5	**Application Document 6.8 Environmental Statement Chapter 8 Ecology**

Type	Commitment reference	Commitment	Monitoring	Project Phase	Relevant Aspect Topic	Commitment Securing Mechanism	Associated Supporting Documentation
CMM	E11	Where there are existing ponds (as shown on Ordnance Survey mapping) within the Order Limits, with the exception of PO15 in Route Section A, these will not be impacted as part of the works. A 10 m buffer will also be applied where practicable, where not practicable any works within 10 m of a pond will be undertaken under the supervision of an ECoW, and would need to be in compliance with the relevant GCN Licence Natural England for that section of the Project.	N/A	Construction	Ecology	Requirement 5	**Application Document 6.8 Environmental Statement Chapter 8 Ecology**
CMM	E12	Stand-off buffers to all watercourses of 10 m will be maintained where practicable, where not practicable including at a new or modified crossing point, or where third party undergrounding works are necessary any works within 10 m of a watercourse will be undertaken under the supervision of an ECoW and would need to be in compliance with relevant protected species Licences from Natural England.	N/A	Construction	Ecology	Requirement 5	**Application Document 6.8 Environmental Statement Chapter 8 Ecology**
CMM	E13	Where a water crossing is not a bridge structure, a method statement will be developed and complied with to ensure works within watercourse crossings include suitable measures to allow the passage of otters, water vole and fish throughout construction (i.e., during fluctuating water levels).	N/A	Prior to and during construction	Ecology	Requirement 5	**Application Document 6.8 Environmental Statement Chapter 8 Ecology**
CMM	E14	Where works require dewatering of surface waterbodies known to contain fish, fish will be removed and or relocated (which will require appropriate permits such as an FR2 licence from the Environment Agency).	N/A	Prior to construction	Ecology	Requirement 5	**Application Document 6.8 Environmental Statement Chapter 8 Ecology**
CMM	E15	Where any in-channel works are required on a watercourse, works will be completed outside of the fish spawning season (16 March to 16 June inclusive) and fish migratory seasons (species-specific, dependent on the waterbody) subject to likely fish presence, as confirmed through pre-construction fish surveys.	N/A	Construction	Ecology	Requirement 5	**Application Document 6.8 Environmental Statement Chapter 8 Ecology**
CMM	E16	In the event that pumping of water is required, the intake will be fitted with a mesh screen to prevent the entrapment of elvers in compliance with The Eels (England and Wales) Regulations 2009 (HM Government, 2009).	N/A	Construction	Ecology	Requirement 5	**Application Document 6.8 Environmental Statement Chapter 8 Ecology**
CMM	E17	Pre-commencement and pre-construction surveys (to identify any changes to the baseline) and a tree survey (to British Standard (BS) 5837:2012 (British Standards Institution, 2012)) will be undertaken to inform the locations of environmental construction exclusion zones (CEZs). The location of specific protective measures	N/A	Prior to and during construction and operation	Ecology	Requirement 5	**Application Document 3.1 Draft Development Consent Order** **Application Document 6.8 Environmental Statement Chapter 8 Ecology**

Type	Commitment reference	Commitment	Monitoring	Project Phase	Relevant Aspect Topic	Commitment Securing Mechanism	Associated Supporting Documentation
		(i.e., fencing and signage) around the CEZs will be set out in the site specific AMS. Reinstatement Planting Plan, secured by the relevant Requirement in Schedule 2 of **Application Document 3.1 Draft Development Consent Order**, will define detailing habitat reinstatement and creation measures.					
CMM	E18	Wherever practicable, habitat connectivity will be retained by using existing access routes, reducing working widths through existing habitats, and maintaining connectivity through green and blue corridors such as hedgerows and watercourses.	N/A	All phases	Ecology	Requirement 5	**Application Document 6.8 Environmental Statement Chapter 8 Ecology**
CMM	E19	Natural England has agreed to the use of a District Level Licence (DLL) approach to mitigate effects on great crested newt (*Triturus cristatus*) within East Yorkshire and North Lincolnshire. Implementation of the DLL will be conducted and overseen by Natural England. A Mitigation Licence from Natural England will be applied for and adhered to for works within Nottinghamshire.	N/A	All phases	Ecology	Requirement 5	**Application Document 6.8 Environmental Statement Chapter 8 Ecology**
AM	E20	The Project is committed to adopting a sustainable approach to development by proactively exploring measures to ensure that the Project leaves the environment in a better condition than it was before development (including but not limited to delivering 10% Biodiversity Net Gain (BNG) with environmental and societal benefits). The Project will seek to provide strategic habitat enhancement and creation, aiming to identify and implement opportunities to improve habitat quality and connectivity and align with national nature recovery objectives and projects. Such measures may include specific habitat creation and enhancement measures and additional receptor-specific measures such as the creation of habitat piles and installation of bird and bat boxes.	N/A	Operation and maintenance	Ecology	Requirement 5	**Application Document 6.8 Environmental Statement Chapter 8 Ecology**
EM	E21	In any location where a bridge and/or other construction works encroach into the 5 m watercourse buffer where the presence of water vole has been confirmed, the Project will provide appropriate habitat enhancement in proximity and in advance of the installation of those works, in accordance with the applicable licence from Natural England.	N/A	Construction	Ecology	Requirement 5	**Application Document 6.8 Environmental Statement Chapter 8 Ecology**
CMM	E22	Construction exclusion zones (CEZs) will be established prior to construction to define working areas and ensure protection of retained habitats throughout the Project. Where practicable, no construction works (temporary or	N/A	Prior to and during construction	Ecology	Requirement 5	**Application Document 6.8 Environmental Statement Chapter 8 Ecology** **Application Document 7.14 Arboricultural Impact Assessment**

Type	Commitment reference	Commitment	Monitoring	Project Phase	Relevant Aspect Topic	Commitment Securing Mechanism	Associated Supporting Documentation
		permanent) will occur within the following environmental buffers: • 10 m of a woodland block (or as detailed in the **Application Document 7.14 Arboricultural Impact Assessment**); • 15 m of designated ancient and other woodland recorded by the Project as having characteristics of ancient woodland; • 5 m of a hedgerow, plus Root Protection Areas (RPAs) for retained trees within the hedgerow; • 10 m of a pond (holding water); • 5 m of the top of a ditch; • 10 m of an ordinary watercourse; and • 16 m of a main river. Where CEZs cannot be established, any works within buffers will be discussed with the applicable Clerk of Works prior to the works commencing and appropriate mitigation will be implemented.					
EM	E23	No vegetation clearance or canopy reduction will occur within Crowle Borrow Pits Site of Special Scientific Interest (SSSI).	N/A	Operation and maintenance	Ecology	Requirement 5	**Application Document 6.8 Environmental Statement Chapter 8 Ecology**
CMM	E24	Vegetation clearance will be required to facilitate temporary visibility splays. Any clearance will not be beyond that which is necessary for road user safety. Vegetation will be reinstated post construction as per the Reinstatement Planting Plan, which is secured by the applicable Requirement of Schedule 2 within **Application Document 3.1 Draft Development Consent Order**.	N/A	Construction and operation	Ecology	Requirement 5 Requirement 9	**Application Document 6.8 Environmental Statement Chapter 8 Ecology**
CMM	E25	**Jillywood Lane - woodland recorded by the Project as having characteristics of Ancient Woodland.** Any future detailed design will take into consideration the extent of the linear woodland and its associated buffer to reduce potential impacts as far as practicable. All affected trees will be soft felled. Any trees removed within the area of linear woodland will not be removed to below ground level and not grubbed out to reduce the impact to soil and ground flora. Any wood chipping will be done outside of the woodland and removed, to protect the ground flora.	N/A	Construction	Ecology	Requirement 5	**Application Document 6.8 Environmental Statement Chapter 8 Ecology**
CMM	E26	**Brantingham Dale and Brantingham Dale SSSI** Works within Brantingham Dale and all Brantingham woodland areas will restrict tree loss to only those essential for the proposed overhead line clearance, and	N/A	Prior to and during construction	Ecology	Requirement 5	**Application Document 6.8 Environmental Statement Chapter 8 Ecology**

Type	Commitment reference	Commitment	Monitoring	Project Phase	Relevant Aspect Topic	Commitment Securing Mechanism	Associated Supporting Documentation
		essential working areas such as pylon working areas where pylons are unavoidably located within the woodland. All affected trees in Brantingham Dale will be soft felled. Where trees are coppiced and/or felled to facilitate the construction of the Project, sufficient trees (quantity agreed with the ArbCOW and ECoW) will be placed within the woodland and/or mitigation planting areas in locations agreed with the ECoW in the form of log piles (and not wood chips). For those not used for log piles, these will not be left as woodchip within the woodlands. Any trees removed within the area of yellow bird's nest or SSSI will not be removed to below ground level and not grubbed out to reduce the impact to soil and ground flora, including yellow bird's nest and the calcareous grassland within the SSSI. No other access during construction will be taken for works through the woodlands to protect ground flora and retained trees.					
CMM	E27	**Socken Wood - woodland recorded by the Project as having characteristics of Ancient Woodland** Works within Socken Wood will restrict tree loss to only those essential for the proposed overhead line clearance. All affected trees in Socken Wood will be soft felled. Where trees are coppiced and/ or felled to facilitate the construction of the Project, sufficient trees (quantity agreed with ArbCoW and ECoW) will be placed within the woodland and/or mitigation planting areas in locations agreed with the ECoW in the form of log piles (and not wood chips). For those not used for log piles, these will not be left as woodchip within the woodlands. Any trees removed within the area identified by the Project as Woodland with Characteristics of potential Ancient Woodland will not be removed to below ground level and not grubbed out to reduce the impact to soil and ground flora. No other access will be taken for works through the woodlands to protect ground flora and retained trees.	N/A	Prior to and during construction	Ecology	Requirement 5	**Application Document 6.8 Environmental Statement Chapter 8 Ecology**
CMM	E28	**Triangle area of trees at Brantingham off Ellerker Road - woodland recorded by the Project as having characteristics of Ancient Woodland** Any future detailed design will take into consideration the extent of the woodland block and its associated buffer to reduce potential impacts as far as practicable.	N/A	Prior to and during construction	Ecology	Requirement 5	**Application Document 6.8 Environmental Statement Chapter 8 Ecology**

Type	Commitment reference	Commitment	Monitoring	Project Phase	Relevant Aspect Topic	Commitment Securing Mechanism	Associated Supporting Documentation
		All affected trees will be soft felled. Any trees removed within the area of woodland will not be removed to below ground level and not grubbed out to reduce the impact to soil and ground flora. Any wood chipping will be done outside of the woodland and removed, to protect the ground flora.					
CMM	E29	**Caddow Wood (Southern Assarts) Local Wildlife Site** Stringing activities will maintain a 15 m buffer to eastern boundary of the woodland.	N/A	Prior to and during construction	Ecology	Requirement 5	**Application Document 6.8 Environmental Statement Chapter 8 Ecology**
CMM	E30	**Dixon Wood - woodland recorded by the Project as having characteristics of Ancient Woodland** Any future detailed design will take into consideration the extent of the woodland block and its associated buffer to reduce potential impacts as far as practicable. Any trees affected that overhang the Order Limits from the area of woodland will be managed as little as practicable. and avoiding impacts to soil and ground flora. No trees will be removed. Any wood chipping will be done outside of the woodland and removed, to protect the ground flora.	N/A	Prior to and during construction	Ecology	Requirement 5	**Application Document 6.8 Environmental Statement Chapter 8 Ecology**
CMM	E31	**South of Dog Horse Plantation - woodland recorded by the Project as having characteristics of Ancient Woodland** Any future detailed design will take into consideration the extent of the woodland block and its associated buffer to reduce potential impacts as far as practicable. Works will comprise minor trimming of overhanging canopy if essential for the third party works access (NPG-24). No works will be undertaken within the woodland. Any branches removed will be chipped outside of the woodland and removed, to protect the ground flora.	N/A	Prior to and during construction	Ecology	Requirement 5	**Application Document 6.8 Environmental Statement Chapter 8 Ecology**
CMM	E32	**Wood Farm - woodland recorded by the Project as having characteristics of Ancient Woodland** Works within the Wood will restrict tree loss to only those essential for the proposed overhead line clearance and associated construction road access and third party works. All affected trees will be soft felled. Any trees removed within the area identified by the Project as Woodland with Characteristics of Ancient Woodland will not be removed to below ground level and not grubbed out to reduce the impact to soil and ground flora. Any wood	N/A	Prior to and during construction	Ecology	Requirement 5	**Application Document 6.8 Environmental Statement Chapter 8 Ecology**

Type	Commitment reference	Commitment	Monitoring	Project Phase	Relevant Aspect Topic	Commitment Securing Mechanism	Associated Supporting Documentation
		chipping will be done outside of the woodland and removed, to protect the ground flora.					
CMM	E33	**Saundby Park Wood - woodland recorded by the Project as having characteristics of Ancient Woodland** Works will be restricted to minor trimming of overhanging canopy of the existing track if essential for the third party works access (NGED-06). No works will be undertaken within the woodland. Any branches removed will be chipped outside of the woodland and removed, to protect the ground flora.	N/A	Prior to and during construction	Ecology	Requirement 5	**Application Document 6.8 Environmental Statement Chapter 8 Ecology**
CMM	E34	**Pigeon Field - woodland recorded by the Project as having characteristics of Ancient Woodland** Any future detailed design will take into consideration the extent of the woodland block and its associated buffer to reduce potential impacts as far as practicable. All affected trees will be soft felled. Any trees removed within the area of woodland will not be removed to below ground level and not grubbed out to reduce the impact to soil and ground flora.	N/A	Prior to and during construction	Ecology	Requirement 5	**Application Document 6.8 Environmental Statement Chapter 8 Ecology**
CMM	E35	Calcareous grasslands will be avoided as far as practicable. Should access be required across calcareous grassland, any topsoil and subsoil stripped will be kept separate from surrounding habitats and reinstated on completion. During storage of the topsoil, it will be protected from damage and pollution, and reinstated as soon as practicable. If reseeding is required to secure the topsoil during storage, an appropriate seed mix for calcareous grassland will be used. The topsoil will be reinstated in accordance with the **Application Document 7.8 Outline Landscape and Ecology Management Plan**.	N/A	Construction	Ecology	Requirement 5	**Application Document 2.9 Habitats of Protected Species and Important Habitats** **Application Document 7.8 Environmental Statement Chapter 8 Ecology**
CMM	E36	Vegetation clearance and management (scrub, hedgerows, trees) within the hazel dormouse licence area will be restricted to minimal temporary required for construction related activities, by width and by height. Retaining managed but still above ground hedgerows beneath overhead lines and in stringing areas, will continue to provide habitat and connectivity and reduce required mitigation to replace it during construction. All personnel working in suitable hazel dormouse habitat will receive training and site briefings to raise awareness of hazel dormouse, their legal protection, and the mitigation measures to be implemented.	N/A	Construction	Ecology	Requirement 5	**Application Document 6.8 Environmental Statement Chapter 8 Ecology**

Type	Commitment reference	Commitment	Monitoring	Project Phase	Relevant Aspect Topic	Commitment Securing Mechanism	Associated Supporting Documentation
CMM	E37	Vegetation clearance within suitable dormouse habitat will follow a two-stage clearance method designed to minimise the risk of disturbance or mortality. This will comprise: • Initial reduction of woody vegetation to just above ground level during the Winter period; and • Subsequent removal of ground vegetation, stools and roots during the Spring period. These works will be overseen by a suitably experienced ecologist named or accredited on the hazel dormouse mitigation licence. Where appropriate and safe to do so, dead hedging (or other suitable alternatives) will be considered and installed until the removed hedging can be reinstated. All works will be conducted in compliance with the dormouse Mitigation Licence from Natural England.	N/A	Construction	Ecology	Requirement 5	**Application Document 6.8 Environmental Statement Chapter 8 Ecology**
CMM	E38	To satisfy Natural England licensing requirements, for construction activities within the hazel dormouse licence area, vegetation removal must be limited to only that essential for the Project such as the width of the actual construction access track (e.g. <5 m) and no wider through hedgerows. The construction access road should be reduced down from the wider working width of the construction access track (e.g. 12 m) to <5 m where it passes through hazel dormouse habitat.	N/A	Prior to and during construction	Ecology	Requirement 5	**Application Document 6.8 Environmental Statement Chapter 8 Ecology**
AM	E39	All reinstated hedgerows and woodlands in the hazel dormouse licence area will include hazel (*Corylus avellana*) and Midland hawthorn (*Crataegus laevigata*) in the species mix.	N/A	Construction and operation	Ecology	Requirement 5	**Application Document 6.8 Environmental Statement Chapter 8 Ecology**
CMM	E40	Pre-construction badger surveys will be undertaken to identify the current status of setts to inform a Natural England licence. A 30 m buffer will be applied to all active badger setts identified to avoid disturbance or closure unless secured under a licence and appropriately mitigated. The application of these buffers will be implemented through: • The definition of construction working areas and exclusion zones within the Order Limits; • Pre-construction ecological checks and marking out of protection zones; • The use of protective fencing or other demarcation where required; and • Environmental management measures.	N/A	Prior to and during construction	Ecology	Requirement 5	**Application Document 6.8 Environmental Statement Chapter 8 Ecology**

Type	Commitment reference	Commitment	Monitoring	Project Phase	Relevant Aspect Topic	Commitment Securing Mechanism	Associated Supporting Documentation
		All works will be overseen by an ECoW or named or accredited ecologist on the badger licence for the Project. Further mitigation requirements for badger are set out in **Application Document 6.8.A5 Appendix 8.5 Badger Report (Confidential).**					
CMM	E41	Pre-construction otter surveys will be undertaken to identify the current status of potential holts and resting sites, and to identify any new ones, should they be present. Survey results will inform a Natural England licence should one be required. A 30 m buffer will be applied to avoid disturbance or destruction unless secured under a licence and appropriately managed. Where a 30 m buffer cannot be applied but the location will not be directly affected, temporary acoustic and visual barriers will be used to reduce disturbance as far as practicable. All works will be overseen by an ECoW or named or accredited ecologist on the otter licence for the Project.	N/A	Construction	Ecology	Requirement 5	**Application Document 6.8 Environmental Statement Chapter 8 Ecology**
CMM	E42	In locations where construction access tracks require the temporary removal of hedgerows, to minimise the loss of habitat, where feasible and safe to do so, these works will be pinched and a reduced swathe of vegetation removed.	N/A	Construction	Ecology	Requirement 5	**Application Document 6.8 Environmental Statement Chapter 8 Ecology**
CMM	E43	For hedgerows under the proposed overhead line, there will be short-term temporary coppicing to facilitate the stringing of the conductors. In these small sections, hedgerows will be cut to stump and will be allowed to grow back on completion of stringing works.	N/A	Construction	Ecology	Requirement 5	**Application Document 2.13 Trees and Important Hedgerows to be Removed or Managed Plans** **Application Document 6.8 Environmental Statement Chapter 8 Ecology**
CMM	E44	To reduce habitat disturbance and loss, the Indicative Crossing Protection measures to cross the Network Rail testing track between proposed pylons 4AF255 and 4AF256 will be constructed only if deemed necessary and in the interest of operational safety for Network Rail users.	N/A	Construction	Ecology	Requirement 5	**Application Document 6.8 Environmental Statement Chapter 8 Ecology**
CMM	E45	Vegetation within Local Wildlife Sites (LWS) will be avoided as far as is practicable. Where vegetation loss cannot be avoided within these sites, the works will be undertaken and overseen by an ECoW. The following LWS have vegetation loss and management marked within the LWS boundary: • Jillywood Lane LWS; • Brantingham Dale Historic LWS; • Stainforth and Keadby Canal Corridor LWS;	N/A	Construction	Ecology	Requirement 5	**Application Document 2.9 Habitats of Protected Species and Important Habitats** **Application Document 2.13 Trees and Important Hedgerows to be Removed or Managed Plans** **Application Document 6.8 Environmental Statement Chapter 8 Ecology**

Type	Commitment reference	Commitment	Monitoring	Project Phase	Relevant Aspect Topic	Commitment Securing Mechanism	Associated Supporting Documentation
		• North Engine Drain, Belton LWS; • River Torne LWS; • South Engine Drain, Belton LWS; • Folly Drain North LWS; • South Moor Covert and Fishpond Plantation LWS; • Warping Drain Corridor LWS; • Retford Gate Green Lane LWS; • Hatfield Waste Drain LWS; and • Dolegate Road, East Drayton Candidate LWS.					
CMM	E46	For construction works associated with existing pylon 4AF39, a reduced pylon working area will be used to reduce impacts on the wooded boundary and pond PO15A. If necessary, any felling, coppicing and removal of trees will be undertaken under the supervision of the ArbCoW for the Project.	N/A	Prior to and during construction	Ecology	Requirement 5	**Application Document 2.4 Works Plans** **Application Document 6.8 Environmental Statement Chapter 8 Ecology**
CMM	E47	To protect ground flora that supports the presence of yellow bird's-nest (*Monotropa hypopitys*), exclusion zones will be identified by the ECoW and demarcated for all construction works within Brantingham Dale Wood between proposed pylons 4ZQ78 and 4ZQ76. No works will be undertaken within these exclusion zones unless an ECoW is present.	N/A	Prior to and during construction	Ecology	Requirement 5	**Application Document 6.8 Environmental Statement Chapter 8 Ecology**
AM	E48	General mitigation measures to protect the plant species yellow bird's-nest focuses on keeping soils undisturbed for at least 100 m from populations to protect fungal mycorrhiza. However, this will be unavoidable where works are required in and close to areas where this plant has been recorded (see **Application Document 6.8.A4 Botanical Report Figure 8.4.1 Yellow Bird's Nest Survey Results** for location). Where destruction or disturbance of this plant is unavoidable, individual plants will be transplanted elsewhere within the area of Brantingham Dale woodland that lies within the Order Limits (although only if absolutely necessary, as the success rate is considered low due to it being an epiparasitic plant with very specific requirements). If there is no alternative and transplanting is the only remaining option, the following will be adhered to. • Move a whole soil block: If unavoidable (e.g. emergency works), take a large intact block of soil (including leaf litter and fungal network) around the	N/A	Prior to and during construction	Ecology	Requirement 5	**Application Document 6.8 Environmental Statement Chapter 8 Ecology** **Application Document 7.8 Outline Landscape and Ecology Management Plan**

Type	Commitment reference	Commitment	Monitoring	Project Phase	Relevant Aspect Topic	Commitment Securing Mechanism	Associated Supporting Documentation
		plant of at least 30–50 cm radius and the full depth of root zone. First, water to dampen the soil. • Keep orientation and shade: Maintain original orientation and canopy conditions. • Immediate replanting: Minimise time out of soil. Dig a hole in the new location that is twice as wide and the same depth as the yellow bird's-nest's root ball. This will provide ample space for roots to spread and establish. • Watering: Thoroughly water immediately after planting to settle the soil around the roots. Continue to water until the ground is saturated. • Expert oversight: Engage a mycorrhizal specialist and Ecological Clerk of Works.					
EM	E49	The Chesterfield Canal Site of Special Scientific Interest (SSSI) will be crossed using a clear span bridge or other suitably assessed alternative. The scaffolding either side of the SSSI will be set back from the boundary of the SSSI to retain bankside vegetation. Hedgerows and a tree (T170) within the SSSI will be managed to reduced height only and not removed.	N/A	Prior to and during construction	Ecology	Requirement 5	**Application Document 6.8 Environmental Statement Chapter 8 Ecology**
CMM	E50	No works will take place inside the Root Protection Areas associated with the trees along the eastern boundary of Caddow Wood (Southern Assarts) Local Wildlife Site.	N/A	Construction	Ecology	Requirement 5	**Application Document 6.8 Environmental Statement Chapter 8 Ecology**
CMM	E51	Stringing activities and construction access route will maintain the 15 m buffer to Tongs and Dogholes Woods Local Wildlife Site and Tongs Wood designated ancient woodland.	N/A	Construction	Ecology	Requirement 5	**Application Document 6.8 Environmental Statement Chapter 8 Ecology**
CMM	E52	Where bluebells and other notable plants are located within woodlands, the measure to protect the ground flora will also protect these species (except for yellow bird's nest) with the exception of where woodland is permanently lost and grubbed out. Pre-construction checks including by the ECoW will identify any locations where transplanting of each plant or removal of turfs to an unaffected and suitable part of the remaining woodland within the Order Limits is possible. This will also be undertaken in non woodland habitats where avoidance is not possible. Where appropriate (May to June), bluebell seeds may also be collected to aid re-establishment in suitable locations.	N/A	Construction	Ecology	Requirement 5	**Application Document 2.9 Habitats of Protected Species and Important Habitats** **Application Document 7.8 Environmental Statement Chapter 8 Ecology**
CMM	E53	No works are to be undertaken within Treswell Wood Site of Special Scientific Interest.	N/A	Construction	Ecology	Requirement 5	**Application Document 7.8 Environmental Statement Chapter 8 Ecology**

Type	Commitment reference	Commitment	Monitoring	Project Phase	Relevant Aspect Topic	Commitment Securing Mechanism	Associated Supporting Documentation
CMM	E54	The proposed construction and maintenance access routes through the lowland dry acid grassland and open mosaic habitat (to the west of Keadby Power Station) will follow existing visible vehicular tracks. The potential for loss or damage to the acid grassland and open mosaic habitat during construction will be further reduced through the use of suitable temporary trackway/ matting, where determined to be required by the ECoW. Matting/ trackway will be removed upon completion of the construction works activities.	N/A	Construction and maintenance	Ecology	Requirement 5	**Application Document 7.8 Environmental Statement Chapter 8 Ecology**
Ornithology							
CMM	ON01	All semi-natural vegetation will be retained as far as is reasonably practicable. This will be extended to include any feature that could support nesting birds such as existing infrastructure such as buildings, walls or any other structure with a ledge or cavity suitable for nesting birds. Where these measures are not reasonably practicable and works need to be carried out during the bird breeding season, all affected areas will be checked by the ECoW for evidence of nesting birds 24 hours (as standard) prior to all vegetation removal works taking place. There may be some instances where 24 hours is not practical, therefore a maximum period of 48 hours is permitted. In such cases, vegetation removal will be overseen by the ECoW (or a suitably experienced taxon specialist supporting the ECoW if required). If any active bird nests are discovered, these will be given a minimum standoff of 5 m (this may increase depending on species, proposed works and location) where no potentially disturbing works will take place until the young have fledged and the nest is vacated. A second nesting bird check would then be undertaken to ensure the tree or vegetation does not contain any further active nests prior to felling or removal works taking place.	N/A	All phases	Ornithology	Requirement 5	**Application Document 6.9 Environmental Statement Chapter 9 Ornithology**
CMM	ON02	Pre-works checks for nesting birds listed in Schedule 1 of the Wildlife and Countryside Act 1981 (HM Government, 1981) will be carried out prior to site clearance or construction works within a 500 m radius of mature trees and existing pylons, and a 200 m radius from nest boxes, buildings, ground vegetation, reedbeds, scrub, aquatic habitat and trees with potential to support nesting birds. The ECoW will apply pre-construction measures on a case-by-case basis, as required.	N/A	Prior to construction	Ornithology	Requirement 5	**Application Document 6.9 Environmental Statement Chapter 9 Ornithology**

Type	Commitment reference	Commitment	Monitoring	Project Phase	Relevant Aspect Topic	Commitment Securing Mechanism	Associated Supporting Documentation
CMM	ON03	Habitat checks for nesting barn owl, where required, will be carried out by an ornithologist in possession of an appropriate class licence issued by Natural England. This will be carried out in the Winter prior to the commencement of the relevant works to determine occupation of the site such that any locations occupied in Winter will be assumed to be potential nest sites during the period of Spring – Autumn, when most breeding takes place by this species. Known barn owl nest sites (as identified in **Application Document 6.9.A4 Appendix 9.4 Confidential Ornithology Baseline Report**) or any other sites with the potential to support breeding barn owls within 175 m of the pylon working areas, stringing locations, site compounds, or construction access tracks will be soft blocked prior to works once it has been established that they are not occupied. For each soft blocked site, an alternative nest box will be erected in a location that is not vulnerable to disturbance from the proposed works. Soft blocking will be removed upon completion of the works. Any barn owl nest sites identified during pre-construction surveys or within **Application Document 6.9.A4 Appendix 9.4 Confidential Ornithology Baseline Report** that will require permanent removal to facilitate construction will be replaced on a like for like basis by erecting additional barn owl boxes either on unaffected trees, on poles, or in suitable farm buildings with the agreement of all relevant landowners. Advance consultation will be made with any conservation or monitoring organisations prior to the removal of any existing barn owl boxes that are monitored or managed by a third-party organisation such as (but not necessarily limited to (a local barn owl group, the Barn Owl trust (BOT) or the Wildlife Conservation partnership (WCP)). Replacement boxes will be placed, under advisement of the ECoW or a specialist advising the ECoW, in suitable locations that will not be disturbed by construction activity.	N/A	Prior to construction	Ornithology	Requirement 5	**Application Document 6.9 Environmental Statement Chapter 9 Ornithology**
CMM	ON04	For works within 10 m of the Market Weighton Canal, pre-construction surveys will be undertaken to identify kingfisher nest holes as a minimum within the Order Limits where these cross the watercourse, and whether they are occupied. All works that involve the use of plant, vehicles or the installation of heavy structures close to (within 10 m of)	N/A	Prior to and during construction	Ornithology	Requirement 5	**Application Document 6.9 Environmental Statement Chapter 9 Ornithology**

Type	Commitment reference	Commitment	Monitoring	Project Phase	Relevant Aspect Topic	Commitment Securing Mechanism	Associated Supporting Documentation
		the top of the bank can lead to destruction of the nest chamber below with a risk of mortality of live birds, which would be an offence under the Wildlife and Countryside Act. If potential nest holes are identified, all works will be prohibited within 10 m from the bank of the Market Weighton Canal, and if breeding activity is identified, all works at this location will be undertaken outside of the kingfisher breeding season (March to August inclusive).					
CMM	ON05	Pre-construction surveys for nesting kingfisher will be undertaken along: • North Soak Drain; • South Soak Drain; • South Engine Drain; • Market Weighton Canal; and • The River Idle.	N/A	Prior to and during construction	Ornithology	Requirement 5	**Application Document 6.9 Environmental Statement Chapter 9 Ornithology**
AM	ON06	In the event that kingfisher is identified to be nesting within 100 m of any construction access track or construction related activities adjacent to those drains listed in ON05, visual and acoustic screens will be installed along the adjacent banks (as per agreement with the ECoW), to prevent disturbance from works activities and construction traffic.	N/A	Construction	Ornithology	Requirement 5	**Application Document 6.9 Environmental Statement Chapter 9 Ornithology**
AM	ON07	In the event that pre-construction surveys identify the presence of kingfisher along the following drains: • North Soak Drain; • South Soak Drain; and/or • South Engine Drain (north and south banks). To avoid the disturbance of kingfisher habitat, any scaffolding structure within 10 m will be constructed in a way that does not break ground.	N/A	Prior to and during construction	Ornithology	Requirement 5	**Application Document 6.9 Environmental Statement Chapter 9 Ornithology**
CMM	ON08	Screening of the construction access track and scaffold on south bank of River Idle will be installed to protect nesting kingfisher, should pre-construction surveys identify these measures as necessary to prevent disturbance of occupied nests. Screening type will be discussed with the ECoW.	N/A	Prior to and during construction	Ornithology	Requirement 5	**Application Document 6.9 Environmental Statement Chapter 9 Ornithology**
AM	ON09	Bird diverters will be installed on the following sections of overhead line to minimise the potential risk of collision mortality for qualifying species of the Humber Estuary SSSI/Ramsar/SPA and the River Idle Washlands SSSI:	N/A	Operation	Ornithology	Requirement 5	**Application Document 6.9 Environmental Statement Chapter 9 Ornithology**

Type	Commitment reference	Commitment	Monitoring	Project Phase	Relevant Aspect Topic	Commitment Securing Mechanism	Associated Supporting Documentation
		• Between pylons 4AF62 and 4AF70 adjacent to Broomfleet Tileworks; • Between pylons 4AF77 and 4AF96 that cross the River Ouse; and • Between pylons 4AF171 and 4AF180 between the River Idle and the Chesterfield Canal.					
AM	ON10	To reduce the magnitude and spatial extent of noise and visual disturbance in key areas visual/noise fencing/acoustic barriers will be installed around all relevant construction activities to be determined by the ECoW, at the following locations during key sensitivity periods, prior to the onset of any construction activities at ground level (including site clearance and preparation of working areas as well as the works themselves): • within 500 m of the Humber Estuary SPA/Ramsar site boundary (pylons 4AF76 – 4AF80); • where works pass the southern edge of Broomfleet Tileworks, as far as Staddlethorpe Broad Lane (pylons 4AF62 – 4AF70); and • west of Garthorpe (pylons 4AF83 – 4AF86); • between Garthorpe and Luddington (4AF91 – 4AF95); and • any further locations to be confirmed by the ECoW as required during construction and/or through pre-construction surveys. Outside of the Humber Estuary SPA/Ramsar site boundary, the locations listed above are those where baseline surveys identified qualifying species occurring at levels of over one percent of the designated site qualifying population. Additional locations as required in the final bullet above would be determined by the presence of qualifying species only within 500 m of locations where their numbers reach this population threshold. The fencing will be in use for the duration of the seasonal presence of the affected qualifying species of the Humber Estuary SPA and Ramsar Site. In all cases, the fencing should be used between and including the last two weeks in September and the end of the first week of April.	Requirements for acoustic fencing to be monitored during construction by the ECoW and/or their appointed specialist.	Construction	Ornithology	Requirement 5	**Application Document 6.9 Environmental Statement Chapter 9 Ornithology**
CMM	ON11	Ground conditions permitting, non-percussive piling techniques (e.g., augered piling) should be used wherever piling operations are required, as these are associated with much lower noise profiles.	N/A	Construction	Ecology and Ornithology	Requirement 5	**Application Document 6.8 Environmental Statement Chapter 8 Ecology** **Application Document 6.9 Environmental Statement Chapter 9 Ornithology**

Type	Commitment reference	Commitment	Monitoring	Project Phase	Relevant Aspect Topic	Commitment Securing Mechanism	Associated Supporting Documentation
CMM	ON12	In all cases where piling or other noisy operations are required, soft startup of plant should be implemented such that noise levels build gently rather than suddenly. This will be particularly important where percussive piling cannot be avoided and would involve progressively building the piling impact force to the level required rather than starting at the maximum impact force required to complete the works. This will make some allowance for birds and other protected species that are present in the vicinity of the works to adjust to the noise generated during construction.	N/A	Construction	Ecology and Ornithology	Requirement 5	**Application Document 6.8 Environmental Statement Chapter 8 Ecology** **Application Document 6.9 Environmental Statement Chapter 9 Ornithology**
CMM	ON13	If impact piling is needed for the construction of the four pylon foundations closest to the River Ouse (4AF76 – 4AF79 inclusive), dampening of the hammer or reducing the velocity with which this operates will be adopted to reduce the peak noise emissions from piling activities.	N/A	Construction	Ornithology	Requirement 5	**Application Document 6.9 Environmental Statement Chapter 9 Ornithology**
CMM	ON14	Any construction activities occurring at height (e.g., erection of pylons, stringing of conductors and works at the River Ouse crossing) that cannot realistically be mitigated will take place where practicable outside the most sensitive periods for qualifying features. A twelve week window for this activity has been identified between the beginning of August and the End of October, which avoids the breeding period for nesting peregrine on a nearby pylon, the peak numbers of Humber Estuary qualifying species that occur within 500m of the River Ouse crossing and the onset of inclement Winter conditions when any disturbance of foraging birds would have a greater adverse effect on foraging rates and species survival.	N/A	Construction	Ornithology	Requirement 5	**Application Document 6.9 Environmental Statement Chapter 9 Ornithology**
AM	ON15	Alternative foraging habitat within arable farmland has been provided in Route Section B as illustrated on **Application Document 6.4.F1 Figure 4.1 Proposed Project Design**. This land has been provided for use by pink-footed goose, golden plover, lapwing and curlew and has been secured exclusively for the creation and management of this supporting habitat, covering 46ha of farmland under an adequate, guaranteed inter-annual cropping regime. The habitat has been provided within the geographic range currently utilised by the Humber Estuary SPA/Ramsar site qualifying species to ensure that birds will use this new foraging resource. Since the Project will be constructed in phases (with different areas of potential functionally linked land being subject to disturbance at different points in time), this	Habitat use to be monitored during construction and at intervals during the operational phase	Prior to construction and operation	Ornithology	Requirement 5	**Application Document 6.9 Environmental Statement Chapter 9 Ornithology**

Type	Commitment reference	Commitment	Monitoring	Project Phase	Relevant Aspect Topic	Commitment Securing Mechanism	Associated Supporting Documentation
		supporting habitat would be made available over the entire construction phase of the Project. and, as a maximum, for the lifetime of the Project to account for any potential loss of foraging habitat associated with displacement of birds from the immediate surrounds of the proposed overhead line during operation.					
Cultural Heritage							
CMM	H01	A suitably qualified Archaeological Clerk of Works (ACoW) will be appointed to oversee the delivery of all necessary further archaeological evaluation and mitigation measures. Some archaeological works, comprising further archaeological evaluation and detailed archaeological excavation, will be carried out prior to the commencement of relevant construction works and will be secured through an Archaeological Written Scheme of Investigation which will be substantially in accordance with **Application Document 7.9 Outline Archaeological Written Scheme of Investigation** and subsequent site-specific written schemes of investigation. Archaeological works and management measures during the construction, operation and maintenance phases will be secured through **the** Cultural Heritage Management Plan **which will be based substantially in accordance with Application Document 7.10 Outline Cultural Heritage Management Plan**.	N/A	Prior to construction	Cultural Heritage	Requirement 5	**Application Document 7.9 Outline Archaeological Written Scheme of Investigation** **Application Document 7.10 Outline Cultural Heritage Management Plan**
CMM	H02	Prior to construction activities commencing in any part of the Order Limits, the ACoW will verify that necessary archaeological works, if applicable for that construction area, have been completed and signed off by the relevant local authority Archaeological Advisor. Areas within the Order Limits that require a level of pre-construction archaeological work are detailed in the drawings that accompany **Application Document 7.9 Outline Archaeological Written Scheme of Investigation**.	N/A	Prior to and during construction	Cultural Heritage	Requirement 5	**Application Document 6.10 Environmental Statement Chapter 10 Cultural Heritage** **Application Document 7.9 Outline Archaeological Written Scheme of Investigation** **Application Document 7.10 Outline Cultural Heritage Management Plan**
CMM	H03	Where practicable, elements within the historic landscape such as vegetation and hedgerows will be retained. Historic landscape features, such as ditches and hedgerows, that may experience partial loss will be reinstated to a similar style and quality to that which was removed. This measure is referenced in commitment GG06.	N/A	All phases	Cultural Heritage	Requirement 5	**Application Document 6.10 Environmental Statement Chapter 10 Cultural Heritage** **Application Document 7.8 Outline Landscape and Ecology Management Plan**
CMM	H04	Further archaeological evaluation may be carried out prior to the commencement of construction activities as a result of detailed design changes. This may result in the need for further archaeological mitigation measures	N/A	Prior to and during construction	Cultural Heritage	Requirement 5	**Application Document 6.10 Environmental Statement Chapter 10 Cultural Heritage** **Application Document 7.9 Outline Archaeological Written Scheme of Investigation**

Type	Commitment reference	Commitment	Monitoring	Project Phase	Relevant Aspect Topic	Commitment Securing Mechanism	Associated Supporting Documentation
		such as detailed archaeological excavation and the preservation of archaeological remains. All further archaeological work will be managed by the ACoW in line a Cultural Heritage Management Plan and Archaeological Written Scheme of Investigation. Both of which will be drafted in substantial accordance with **Application Document 7.10 Outline Cultural Heritage Management Plan** and **Application Document 7.9 Outline Archaeological Written Scheme of Investigation**.					**Application Document 7.10 Outline Cultural Heritage Management Plan**
CMM	H05	A protocol for managing unexpected archaeological discoveries during the construction stage is detailed in **Application Document 7.10 Outline Cultural Heritage Management Plan** and will be managed by the ACoW in compliance with the procedures detailed in a Cultural Heritage Management Plan which will be based upon **Application Document 7.10 Outline Cultural Heritage Management Plan**, which comprise protection and preservation measures, and/or appropriate archaeological recording.	N/A	All phases	Cultural Heritage	Requirement 5	**Application Document 6.10 Environmental Statement Chapter 10 Cultural Heritage** **Application Document 7.10 Outline Cultural Heritage Management Plan**
CMM	H06	It will be the responsibility of the ACoW to ensure that areas marked for the preservation of archaeological remains, as detailed in a Cultural Heritage Management Plan which will be based upon **Application Document 7.10 Outline Cultural Heritage Management Plan**, will be protected throughout the works. During construction works in proximity to a preservation area, an exclusion zone of 10 m from the edge of the preservation area will be maintained where practicable, to ensure no impacts occur as a result of construction works.	N/A	Construction	Cultural Heritage	Requirement 5	**Application Document 7.10 Outline Cultural Heritage Management Plan**
CMM	H07	Refurbishment works, and specifically the stringing of conductors in the preservation of archaeological remains area at Ellerker (as referenced in **Application Document 7.10 Outline Cultural Heritage Management Plan**), will be undertaken in line with the following protection measures in addition to the soil management measures within the Soil Management Plan which must be substantially in accordance with **Application Document 7.5 Outline Soil Management Plan**: • The preservation of archaeological remains area plus a 10 m buffer will be demarcated. • Interlocking track mats will be used to protect archaeological remains from damage caused by wheel rutting.	N/A	Construction and Maintenance	Cultural Heritage	Requirement 5	**Application Document 7.5 Outline Soil Management Plan** **Application Document 7.10 Outline Cultural Heritage Management Plan**

Type	Commitment reference	Commitment	Monitoring	Project Phase	Relevant Aspect Topic	Commitment Securing Mechanism	Associated Supporting Documentation
		• Regardless of the proposed track mats, works will not be carried out during periods of prolonged rainfall that result in waterlogged conditions within the field. There will be no traffic movement over unprotected topsoil or over wet soils, unless in exceptional circumstances (such as to allow access by emergency services). Trafficking over unprotected topsoil may be permissible where there is a clear plan in place to limit compaction and rutting.					
CMM	H08	For the third-party access track to NPG-017 as shown on **Application Document 6.4.F4 Figure 4.4 Third Party Works** within the boundary of the Scheduled Monument Hall Garth Moated site (NHLE 1013190), no breaking of topsoil and/ or below ground disturbance will occur for the duration of the works. Track matting or a similar protected surface will be laid to allow for the movement of construction vehicles to and from the works area.	N/A	Construction	Cultural Heritage	Requirement 5	**Application Document 7.10 Outline Cultural Heritage Management Plan**
Water Environment							
CMM	W01	All qualifying works within and in proximity to main rivers and flood defences will be undertaken in accordance with a method approved under environmental permits issued under the Environmental Permitting (England and Wales) Regulations 2016 (HM Government, 2016).	N/A	Construction	Water Environment	Requirement 5	**Application Document 3.1 Draft Development Consent Order** **Application Document 6.11 Environmental Statement Chapter 11 Water Environment**
CMM	W02	For open cut watercourse crossings and installation of vehicle crossing points, good practice measures will include, but not be limited to, the following where practicable: • Reducing the working width for open cut crossings of a main river or ordinary watercourse whilst still providing safe working and reinstating the riparian and natural bed of the watercourse (where practical), using the material removed when appropriate on completion of the work and compacting as necessary; • Installation of a pollution boom downstream of open cut works; • The use and maintenance of temporary lagoons, tanks, bunds, silt fences or silt screens as required; • Having spill kits and straw bales readily available at all crossing points for downstream emergency use in the event of a pollution incident; • The use of all static plant such as pumps in appropriately sized spill trays;	N/A	Construction	Water Environment	Requirement 5	**Application Document 6.8 Environmental Statement Chapter 8 Ecology** **Application Document 6.11 Environmental Statement Chapter 11 Water Environment**

Type	Commitment reference	Commitment	Monitoring	Project Phase	Relevant Aspect Topic	Commitment Securing Mechanism	Associated Supporting Documentation
		• Preventing refuelling of any plant or vehicle within 15 m of a watercourse; • Preventing storing of soil stockpiles within 15 m of a main river; • Inspecting all plant prior to work adjacent to watercourses for leaks of fuel or hydraulic fluids; and Reinstating the riparian vegetation and natural bed of the watercourse, using appropriately sized material of similar composition to that removed. As far as practicable, gravel will be retained in-channel. Reinstated material will aim to closely match what is removed, particularly gravel, at between 15 and 40 mm in size to ensure suitability for fish spawning.					
CMM	W03	Riverbank and in-channel vegetation will be retained where not directly affected by installation works. Culverts in waterbodies will either preserve the natural bed or be box culverts with inverts sunk a minimum of 300 mm below the hard bed of the watercourse with natural/existing bed material placed across the inside of the culvert to existing bed level. New culverts will be as short as practicable and sized to avoid narrowing of natural channel widths. Culverts will be sized to convey flows generated by upstream catchments to maintain the current land drainage regime. Downstream flows would be maintained during culvert installation.	N/A	Construction	Water Environment	Requirement 5	**Application Document 6.11 Environmental Statement Chapter 11 Water Environment**
CMM	W04	Where watercourses are to be crossed by construction traffic, measures to be applied include the use of temporary culverts or temporary clear span bridges (or suitably assessed and approved alternatives). Once the culvert is installed, the area above the temporary culvert will be backfilled and construction mats or stone placed over the backfilled area to permit the passage of plant, equipment, materials and people. Where used, temporary bridges will be designed specifically to consider the span length and the weight and size of plant and equipment that will cross the bridge.	N/A	Construction	Water Environment	Requirement 5	**Application Document 6.11 Environmental Statement Chapter 11 Water Environment**
CMM	W05	Where new or additional surfacing is required on any construction access tracks and compound areas, these will be permeable surfaces where ground conditions allow. The Project will incorporate appropriate surface water drainage measures into the final design for any access tracks so that they do not lead to a significant increase in flood risk. Construction access tracks will be removed at the end of the construction phase, and the ground surface will be reinstated to pre-Project levels.	N/A	Construction	Water Environment	Requirement 5	**Application Document 6.11 Environmental Statement Chapter 11 Water Environment** **Application Document 7.13 Flood Risk Assessment**

Type	Commitment reference	Commitment	Monitoring	Project Phase	Relevant Aspect Topic	Commitment Securing Mechanism	Associated Supporting Documentation
CMM	W06	The contractor(s) will subscribe to the Environment Agency's flood warning e-service, which provides advance notification of potential local flooding events, and subscribe to the Met Office's Weather Warnings email alerts system and any other relevant flood warning information. The Main Works Contractor(s) will implement and comply with a Flood Warning and Evacuation Plan based upon Appendix A Outline Flood Warning and Evacuation Plan within **Application Document 7.2 Outline Code of Construction Practice**, which will include appropriate evacuation procedures should a flood occur or be forecast.	N/A	Construction	Water Environment	Requirement 5	**Application Document 6.11 Environmental Statement Chapter 11 Water Environment** **Application Document 7.2 Outline CoCP** **Application Document 7.13 Flood Risk Assessment**
CMM	W07	Active private water supplies will be identified with landowners. Where a potential risk is identified to the private water supply from the works, appropriate mitigation measures will be implemented during construction. In the subsequent unlikely event that a landowner or tenant reports the works have affected their private water supply, an initial response will be provided within 24 hours and the cause of the issue will be investigated. Where the works are shown to be the cause of the issue, National Grid will agree with the landowner a remediation strategy, which may include providing an alternative water supply, if appropriate.	N/A	Construction	Water Environment	Requirement 5	**Application Document 6.11 Environmental Statement Chapter 11 Water Environment**
CMM	W08	In the event of a spill during construction, a response would be triggered in accordance with approved site procedures. In the unlikely event of a spill not being suitably contained on-site and reaching a water source that supports abstraction for private water supply, when detriment to a water supply is proven as part of the incident investigation, an alternative supply will be provided until the contamination is suitably remediated.	N/A	Construction	Water Environment	Requirement 5	**Application Document 6.11 Environmental Statement Chapter 11 Water Environment**
CMM	W09	Severance of existing land drainage routes, including agricultural field drainage systems, would be managed during construction through provision of temporary alternative drainage routes. Any affected drainage systems would be reinstated or replaced to ensure their existing function is maintained.	N/A	Prior to and during construction	Water Environment	Requirement 5	**Application Document 6.11 Environmental Statement Chapter 11 Water Environment**
CMM	W10	The temporary access tracks will cross flood defences. The crossing designs would avoid impacts on the defence foundations, and construction works would be undertaken using methods that limit ground movement/settlement to reduce the potential to compromise the condition and stability of the defence. In line with the requirements of the Environment Agency, should the potential for an impact to the flood	The requirement for any such monitoring will be agreed with the Environment Agency as part	Construction	Water Environment	Requirement 5	**Application Document 6.11 Environmental Statement Chapter 11 Water Environment** **Application Document 7.13 Flood Risk Assessment**

Type	Commitment reference	Commitment	Monitoring	Project Phase	Relevant Aspect Topic	Commitment Securing Mechanism	Associated Supporting Documentation
		defences be identified at the detailed design stage, then the flood defence would be monitored to establish a pre-construction baseline and for a period after completion of works to construct the crossings to enable detection of any effects on the structural integrity/condition of the assets during construction of the Project.	of the application for a Flood Risk Activity Permit.				
CMM	W11	Where construction activities take place in Flood Zone 3, temporary construction compounds, laydown areas and other work sites will be laid out in accordance with the sequential approach and incorporate flood resilience measures where necessary. Land raising for construction of temporary access routes would be avoided and materials storage areas would be located outside of fluvial floodplains, where practicable. Where this cannot be avoided, access routes and material stores would be designed and placed to avoid forming barriers to floodplain flows.	N/A	Construction	Water Environment	Requirement 5	**Application Document 6.11 Environmental Statement Chapter 11 Water Environment** **Application Document 7.13 Flood Risk Assessment**
CMM	W12	Where construction activities take place within surface water flood zones, including statutory undertaker works, prior to works commencing appropriate site drainage will be put in place to reduce the risk of standing water and avoid substantial delays to the construction programme, as well as to prevent off-site increases in surface water flood risk.	N/A	Construction	Water Environment	Requirement 5	**Application Document 6.11 Environmental Statement Chapter 11 Water Environment** **Application Document 7.13 Flood Risk Assessment**
CMM	W13	Where construction access tracks cross watercourses and key overland flow routes, the construction access track will include flood mitigation/drainage to allow for the flow of water during flood events up to and including the 1% Annual Exceedance Probability event (i.e., ducting). The design of the construction access tracks themselves will include some resilience to flooding, for example incorporating suitable geo-textiles to stabilise the road surfacing. Suitable materials would be used to surface the haul roads. In some cases, bespoke construction methodologies may be used based on site constraints and ground conditions.	N/A	Construction	Water Environment	Requirement 5	**Application Document 6.11 Environmental Statement Chapter 11 Water Environment** **Application Document 7.13 Flood Risk Assessment**
EM	W14	Drainage outfalls proposed will comprise only a small diameter (less than 300 mm) pipe and a small outfall structure set into the bank of the watercourse. A wide swathe is included within the Order Limits to allow flexibility to aid the selection of an outfall location and pipe alignment that is technically feasible and one that minimises effects through vegetation loss.	N/A	Construction	Water Environment	Requirement 5	**Application Document 6.11 Environmental Statement Chapter 11 Water Environment**
EM	W15	The water supply needs of the Project during construction will be sourced either from mains water supply or, in remote locations where this option may not	N/A	Construction	Water Environment	Requirement 5	**Application Document 6.11 Environmental Statement Chapter 11 Water Environment**

Type	Commitment reference	Commitment	Monitoring	Project Phase	Relevant Aspect Topic	Commitment Securing Mechanism	Associated Supporting Documentation
		be available, water will be tankered in. Water use will be monitored and reported and measures to encourage efficient water use will be put in place. Grey water generated from welfare facilities will be discharged to the public sewer or, where this is not practicable, collected and tankered off-site to a licensed disposal facility. Collaboration with Yorkshire Water, Severn Trent and Anglian Water would be continued throughout the detailed design process regarding water supply. Further information would be shared with Anglian Water as required when available.					
CMM	W16	For any dewatering of excavations, any water removed would be discharged as close to the excavations and as soon as practicable.	N/A	All phases	Water Environment	Requirement 5	**Application Document 6.11 Environmental Statement Chapter 11 Water Environment**
CMM	W17	Once the Project has been constructed, the working areas will be removed. Any stripped topsoil will be reinstated, and the site will be returned to its former use, subject to any planting restrictions or agreements with landowners. Temporary culverts (associated with the construction access tracks) will only be retained by exception, e.g. if the new temporary structure has replaced an existing one in poor repair. When these locations are confirmed, crossings would be designed to reflect their permanence, e.g. culvert sizing to accommodate climate change allowance. Replacement drainage schemes will be installed where appropriate. A specialised drainage contractor(s) will review the drainage designs and the relevant Lead Local Flood Authority (LLFA) will be consulted on proposals (where it is not simply a replacement of the existing drainage run). The specialist contractor(s) will provide advice to National Grid and the Main Works Contractor(s) during all relevant construction and reinstatement activities. Permanent records of the land drainage locations will be made and passed to the landowners/ occupiers.	N/A	Construction, operation and maintenance	Water Environment	Requirement 5	**Application Document 6.11 Environmental Statement Chapter 11 Water Environment**
AM	W18	For events up to and including the 1% Annual Exceedance Probability flood event plus climate change, where pylons would be located in Flood Zone 3 associated with fluvial floodplains, compensatory storage within the Order Limits will be provided for loss of floodplain storage (as shown on **Application Document 6.4.F1 Environmental Statement Figure 4.1 Proposed Project Design**).	N/A	All phases	Water Environment	Requirement 5	**Application Document 6.11 Environmental Statement Chapter 11 Water Environment** **Application Document 7.13 Flood Risk Assessment**
CMM	W19	The following water efficiency measures will be adopted throughout the construction phase:	N/A	Prior to and during construction	Water Environment	Requirement 5	**Application Document 6.11 Environmental Statement Chapter 11 Water Environment**

Type	Commitment reference	Commitment	Monitoring	Project Phase	Relevant Aspect Topic	Commitment Securing Mechanism	Associated Supporting Documentation
		• Educating the workforce on the importance of saving water to help maximise the benefits of any practical measures that are put in place, e.g. via toolbox talks, appointing a champion; • The main works compounds may include grey water harvesting for use in toilet flushing, reducing the water consumption associated with this domestic usage; • Installing water meters to monitor how much water is being used; • Using leak detection systems (where possible) or undertaking regular inspections to detect leaks; • Using water-saving devices such as aerated taps and waterless urinals in construction site offices/welfare facilities; • Using hoses with triggers to prevent water wastage; • Implementing water conservation measures at construction compounds, which may include water from attenuation basins being pumped into a bowser and used to damp down haul roads, soil stockpiles and site compounds to prevent the generation of dust; and Considering the Water Management Hierarchy when making construction decisions, prioritise eliminating the use of water (e.g. alternative for wheel washing) and attempting to reduce disposal as much as possible.					
CMM	W20	The Mains Works Contractor(s) will develop and comply with a Construction Surface Water Management Plan (CSWMP) in accordance with **Application Document 7.13 Flood Risk Assessment Appendix B Framework Construction Surface Water Management Plan**. This will set out measures to manage surface water runoff during construction.	N/A	Prior to and during construction	Water Environment	Requirement 5	**Application Document 6.11 Environmental Statement Chapter 11 Water Environment** **Application Document 7.13 Flood Risk Assessment**
CMM	W21	Where existing culverts are to be modified, riverbank and in-channel vegetation will be retained where not directly affected by the works. Culverts in waterbodies will either preserve the natural bed or be box culverts with inverts sunk a minimum of 300 mm below the hard bed of the watercourse with natural/existing bed material placed across the inside of the culvert to existing bed level.	N/A	Construction	Water Environment	Requirement 5	**Application Document 6.11 Environmental Statement Chapter 11 Water Environment** **Application Document 7.13 Flood Risk Assessment**
Geology and Hydrogeology							

Type	Commitment reference	Commitment	Monitoring	Project Phase	Relevant Aspect Topic	Commitment Securing Mechanism	Associated Supporting Documentation
CMM	GH01	Intrusive ground investigations and assessment will be undertaken prior to construction, including the measurement and monitoring of groundwater levels, geotechnical and geoenvironmental sampling and testing as appropriate. The information will inform geoenvironmental assessment, where required, and appropriate geotechnical design in relation to the site/structure specific ground conditions, identified by the intrusive ground investigation including ground instability/adverse ground conditions/ground gas etc. Therefore, any risks from these hazards would be considered within the engineering design of the new infrastructure in accordance with good practice.	N/A	Prior to construction	Geology and Hydrogeology	Requirement 5	**Application Document 6.12 Environmental Statement Chapter 12 Geology and Hydrogeology**
CMM	GH02	Where specific sites within the Order Limits have been assessed in the ES as presenting a Moderate or above risk to sensitive receptors, these sites will be individually investigated and assessed in accordance with Land Contamination Risk Management (LCRM) prior to construction. This will inform the assessment of the risks to receptors, and good practice measures and working methods to control those risks will be developed. The results will be discussed, and the nature and scope of any mitigation or remediation will be agreed with the Environment Agency and LPA (as appropriate). Where sites have been identified within the Order Limits as having a moderate (or above) potential for generating contamination (and not also a moderate or above risk to receptors, for example due to limited or no interaction with the Project), these sites will be reviewed against the final detailed design. Where the final detailed design and proposed construction activities do not interact with these sites, no further assessment will be required. However, where there is potential for any interaction of the final design or proposed construction activities with these sites, each site will be individually investigated and assessed to determine any mitigation or remediation measures required. The nature and scope of any mitigation or remediation will be agreed with the Environment Agency and local authority (as appropriate). If a site to be investigated is identified as a historical landfill, then prior discussions will be held with the Environment Agency to determine any assessments required to be undertaken before any intrusive ground investigations commence.	N/A	Prior to and during construction	Geology and Hydrogeology	Requirement 5	**Application Document 6.12 Environmental Statement Chapter 12 Geology and Hydrogeology**

Type	Commitment reference	Commitment	Monitoring	Project Phase	Relevant Aspect Topic	Commitment Securing Mechanism	Associated Supporting Documentation
CMM	GH03	A protocol for dealing with any unexpected contamination will be developed and complied with by the Main Works Contractor(s). The protocol will include, as a minimum: • Details of a watching brief and toolbox talks to be implemented throughout the construction phase; • Details regarding how any affected area will be delineated, protected, investigated and assessed; • The qualifications and competencies of the person appointed to oversee the works; • The preparation of a method statement for how the contamination will be dealt with or remediated (as appropriate); • An escalation policy describing when and how any notifications and approvals will be agreed with the local planning authority; and • Details of verification procedures for any mitigation or remediation works demonstrating compliance with the method statement.	Watching Brief (details to be developed by the Main Works Contractor(s))	Prior to and during construction	Geology and Hydrogeology	Requirement 5	**Application Document 6.12 Environmental Statement Chapter 12 Geology and Hydrogeology**
CMM	GH04	Construction and maintenance workers will be trained appropriately in the handling and use of potentially hazardous substances and the associated risks.	N/A	All phases	Geology and Hydrogeology	Requirement 5	**Application Document 6.12 Environmental Statement Chapter 12 Geology and Hydrogeology**
CMM	GH05	Appropriate occupational health and safety measures will be used, e.g. Personal Protective Equipment (PPE), and statutory health and safety compliance (e.g., compliance with The Confined Spaces Regulations 1997 (HM Government, 1997) in relation to ground gas from working in confined spaces/trenches) to minimise the risks associated with anticipated/unexpected contamination. This will be based on risk assessment informed by site-specific information.	N/A	All phases	Geology and Hydrogeology	Requirement 5	**Application Document 6.12 Environmental Statement Chapter 12 Geology and Hydrogeology**
CMM	GH06	Earthworks or materials movement (including any re-use of materials) will be controlled under appropriate Environmental Permits, exemptions or CL:AIRE The Definition of Waste: Development Industry Code of Practice (CL:AIRE, 2011).	N/A	All phases	Geology and Hydrogeology	Requirement 5	**Application Document 6.12 Environmental Statement Chapter 12 Geology and Hydrogeology**
CMM	GH07	Construction methods, such as appropriate piling techniques (if required) will be selected to minimise the risk of mixing of aquifer bodies through the creation of new pathways. This includes the provision of a foundation works risk assessment undertaken by the Main Works Contractor(s), in areas where the use of piled foundations is proposed and at trenchless crossings for modifications to third party services. This would be undertaken once detailed design has been	N/A	Prior to and during construction	Geology and Hydrogeology	Requirement 5	**Application Document 6.12 Environmental Statement Chapter 12 Geology and Hydrogeology**

Type	Commitment reference	Commitment	Monitoring	Project Phase	Relevant Aspect Topic	Commitment Securing Mechanism	Associated Supporting Documentation
		undertaken and in accordance with the CL:AIRE guidance Piling and Penetrative Ground Improvement Methods on Land Affected by Contamination: Guidance on Pollution Prevention (CL:AIRE, 2025).					
CMM	GH08	All use and storage of chemicals and fuels are to be undertaken in accordance with Environment Agency guidance and The Control of Pollution (Oil Storage) (England) Regulations 2001 (HM Government, 2001). The use and storage of chemicals and fuels will also be controlled and monitored under the CoCP which will include, for example, procedures for good general construction site practices, environmental and waste management procedures, regular vehicle checks, use of spill kits, correct waste storage and disposal, use of oil-water separators as necessary (for example, for drainage from refuelling areas), collection of process water from the washout/cleaning of ready-mix concrete vehicles and equipment for treatment/disposal.	N/A	All phases	Geology and Hydrogeology	Requirement 5	**Application Document 6.12 Environmental Statement Chapter 12 Geology and Hydrogeology** **Application Document 7.2 Outline Code of Construction Practice**
CMM	GH09	Any temporary dewatering activities during construction will be undertaken in accordance with Environment Agency guidance (including appropriate assessment undertaken as required by the guidance) and, if required, an Abstraction Licence and Environmental Permit (for the discharge) will be obtained and the works will be limited to the depth and time required to facilitate construction activities.	N/A	Construction	Geology and Hydrogeology	Requirement 5	**Application Document 6.12 Environmental Statement Chapter 12 Geology and Hydrogeology**
CMM	GH10	In any areas of trenchless crossings, and where otherwise identified within the ES, a hydrogeological risk assessment (including groundwater heat pollution where appropriate) will be undertaken to assess the specific risks to groundwater and groundwater receptors at those locations and identify any additional mitigation or remediation that may be required. The nature and scope of any mitigation or remediation will be agreed with the Environment Agency and other relevant stakeholders, as appropriate.	N/A	Prior to construction	Geology and Hydrogeology	Requirement 5	**Application Document 6.12 Environmental Statement Chapter 12 Geology and Hydrogeology**
CMM	GH11	Where horizontal directional drilling is proposed, a drilling fluid breakout plan will be developed and complied with by the Main Works Contractor(s). This will be informed by suitable ground investigation and will include: • Detailed and appropriate design of all trenchless crossings including demonstration of a suitable drilling profile and depth to mitigate the risk of breakout;	Annular pressure monitoring. Regular walkovers of the drill path to check for visible evidence of breakouts.	Prior to and during construction	Geology and Hydrogeology	Requirement 5	**Application Document 6.12 Environmental Statement Chapter 12 Geology and Hydrogeology**

Type	Commitment reference	Commitment	Monitoring	Project Phase	Relevant Aspect Topic	Commitment Securing Mechanism	Associated Supporting Documentation
		• Description of drilling procedure and demonstration of suitability, including removal of borehole cuttings during drilling; • Annular pressure monitoring; • Regular walkovers of the drill path to check for visible evidence of breakouts; • Measures to limit the volume of the drilling fluid loss; • Measures to contain the lost drilling fluid; • Measures to remove the lost drilling fluid; • Measures to seal the area of the breakout; and • Measures to provide any remediation, if necessary.					
CMM	GH12	Restrictions will be applied for any work within Groundwater Source Protection Zones (SPZ) 1 and, where possible, SPZ 2 as agreed with the Environment Agency. Restrictions will include: • Pre-commencement and pre-restoration site condition (contamination) assessments to be completed. • Fuel storage to be above ground and bunded. • Refuelling to be undertaken in a designated area, following standard good practice, utilising spill/drip trays. • Wheel wash will be a fully contained system with no water discharge on-site. • There will be no discharge of site runoff or drainage either to ground or to local watercourses. All site runoff and drainage will be removed from site. • Washout/cleaning of ready-mix concrete vehicles and equipment will be sited outside SPZ 1 and where practicable outside SPZ 2 designations. Application of salt grit (for example, to prevent access tracks freezing) to comply with recommended rates in CIRIA C648 (CIRIA, 2006) with control of runoff during any application in SPZs.	N/A	Construction	Geology and Hydrogeology	Requirement 5	**Application Document 6.12 Environmental Statement Chapter 12 Geology and Hydrogeology**
EM	GH13	No pylons will be placed or significant (>600mm) ground disturbance/ excavations undertaken within the following historical landfills: • 4AF20 + 4AF21 – Willerby Restoration, Permitted – Little Weighton Cutting Landfill; • 4AF28 + 4AF29 – Historical Landfill – Raywell Road; and • ZDA123 + ZDA125 – Keadby Power Station. No pylons will be placed within the following historical landfill; and where practicable no other overhead line (e.g. wooden poles) will be placed within the landfill unless subject to intrusive ground investigation and	N/A	Construction	Geology and Hydrogeology	Requirement 5	**Application Document 6.12 Environmental Statement Chapter 12 Geology and Hydrogeology**

Type	Commitment reference	Commitment	Monitoring	Project Phase	Relevant Aspect Topic	Commitment Securing Mechanism	Associated Supporting Documentation
		assessment, and agreement with the Environment Agency: • Land adjacent to former A63 Ellerker – Brough Road (land north of Whin Moor Lane).					
Agriculture and Soils							
CMM	AS01	Where land is being returned to agricultural use, the appropriate soil conditions (for example through the replacement of stripped layers and the removal of any compaction) will be recreated. This will be achieved to a depth of 1.2 m (or the maximum natural soil depth if this is shallower).	N/A	Construction	Agriculture and Soils	Requirement 5	**Application Document 6.13 Environmental Statement Chapter 13 Agriculture and Soils**
CMM	AS02	Access to and from residential, commercial, community and agricultural land uses will be maintained where practicable and possible during the construction period or as agreed through the landowner discussions. This may require signed diversions or temporary restrictions to access. The means of access to affected properties, facilities and land parcels will be communicated to affected parties at the start of the Project, with any changes communicated in advance of the change being implemented. Where field-to-field access points require alteration as a result of construction, alternative field access will be provided in consultation with the landowner/ occupier.	N/A	Construction	Agriculture and Soils	Requirement 5	**Application Document 6.13 Environmental Statement Chapter 13 Agriculture and Soils** **Application Document 7.4 Outline Construction Traffic Management Plan**
CMM	AS03	Existing water supplies for livestock will be identified pre-construction. Where supplies will be lost or access compromised by construction works, temporary alternative supplies will be provided. Water supplies will be reinstated following construction.	N/A	Prior to construction	Agriculture and Soils	Requirement 5	**Application Document 6.13 Environmental Statement Chapter 13 Agriculture and Soils**
CMM	AS04	Consultation with affected landowners will be carried out to investigate the current extent of land drainage. A scheme of pre-construction land drainage will be designed with the intent of maintaining the efficiency of the existing land drainage system and to assist in maintaining the integrity of the working area during construction. The Project may include a system of 'cut-off' drains which feed into a new header drain and the Project will also take into account surface water runoff measures. The Main Works Contractor(s) will ensure any land drains within the Order Limits, affected as a result of the Project are reinstated to their former functional condition, where agreed with the landowner. Any installed pre-construction land drainage to replace existing land drains affected by permanent infrastructure, as well as any drainage improvements resulting from the Project, would be retained.	N/A	Prior to construction	Agriculture and Soils	Requirement 5	**Application Document 6.13 Environmental Statement Chapter 13 Agriculture and Soils**

Type	Commitment reference	Commitment	Monitoring	Project Phase	Relevant Aspect Topic	Commitment Securing Mechanism	Associated Supporting Documentation
CMM	AS05	Should animal bones be discovered during construction, which may indicate a potential burial site, works will cease, and advice will be sought from the Animal Health Regional Office on how to proceed, relevant to the origin and age of the materials found.	N/A	Construction	Agriculture and Soils	Requirement 5	**Application Document 6.13 Environmental Statement Chapter 13 Agriculture and Soils**
CMM	AS06	All movement of plant and vehicles between fields will cease in the event of a notification by the Department for Environment, Food and Rural Affairs (Defra) of a disease outbreak in the vicinity of the site that requires the cessation of activities. Advice will be sought from Defra in order to develop suitable working methods required to reduce the biosecurity risk associated with the continuation of works.	N/A	Construction	Agriculture and Soils	Requirement 5	**Application Document 6.13 Environmental Statement Chapter 13 Agriculture and Soils**
CMM	AS07	Clay bungs or other vertical barriers will be constructed within trench excavations where deemed necessary by a technical specialist advisor to prevent the creation of preferential drainage pathways.	N/A	Construction	Agriculture and Soils	Requirement 5	**Application Document 6.13 Environmental Statement Chapter 13 Agriculture and Soils**
CMM	AS08	Should peat deposits or peaty soils be identified, impacts to these areas would be avoided, where practicable.	N/A	Prior to and during construction	Agriculture and Soils	Requirement 5	**Application Document 6.13 Environmental Statement Chapter 13 Agriculture and Soils** **Application Document 7.5 Outline Soil Management Plan**
CMM	AS09	Appropriate technology/material will be installed in areas where heavy equipment, such as cranes and piling rigs, are to be used to provide stable working areas and reduce disturbance to the ground.	N/A	Construction	Agriculture and Soils	Requirement 5	**Application Document 6.13 Environmental Statement Chapter 13 Agriculture and Soils** **Application Document 7.5 Outline Soil Management Plan**
CMM	AS10	To reduce the potential for a reduction in the depth of soil profiles under agricultural use and potential effects on ALC grades, third party works that involve open cut trenching for cabling have predominantly been aligned with boundary features and field margins with only limited locations lying within fields.	N/A	Prior to and during construction	Agriculture and Soils	Requirement 5	**Application Document 6.13 Environmental Statement Chapter 13 Agriculture and Soils** **Application Document 7.5 Outline Soil Management Plan**
Traffic and Transport							
CMM	TT01	All construction HGVs will adhere to the designated construction routes (Preliminary Access Routes (PARs)) to and from the site. As noted within **Application Document 7.4 Outline Construction Traffic Management Plan**.	N/A	Construction	Traffic and Transport	Requirement 5	**Application Document 6.14 Environmental Statement Chapter 14 Traffic and Transport** **Application Document 7.4 Outline Construction Traffic Management Plan**
CMM	TT02	Emergency access protocols will be put in place and complied with. These will be identified within the site health and safety procedures.	N/A	Prior to and during construction	Traffic and Transport	Requirement 5	**Application Document 6.14 Environmental Statement Chapter 14 Traffic and Transport** **Application Document 7.4 Outline Construction Traffic Management Plan**
CMM	TT03	The Main Works Contractor(s) will seek to ensure no debris deposits onto the public road occur due to	N/A	Construction	Traffic and Transport	Requirement 5	**Application Document 6.14 Environmental Statement Chapter 14 Traffic and Transport**

Type	Commitment reference	Commitment	Monitoring	Project Phase	Relevant Aspect Topic	Commitment Securing Mechanism	Associated Supporting Documentation
		construction traffic and that cleaning facilities are available where required. These will involve wheel washers for vehicles leaving the compound site(s) and road sweepers being deployed if necessary.					**Application Document 7.4 Outline Construction Traffic Management Plan**
CMM	TT04	Appropriate road signs warning motorists of the site access/egress and of construction HGVs turning in and out of the site will be provided and installed.	N/A	Construction	Traffic and Transport	Requirement 5	**Application Document 6.14 Environmental Statement Chapter 14 Traffic and Transport** **Application Document 7.4 Outline Construction Traffic Management Plan**
CMM	TT05	Provision of appropriate road markings and signs will be in place to warn the public of increased traffic movements to and from the site during construction.	N/A	Construction	Traffic and Transport	Requirement 5	**Application Document 6.14 Environmental Statement Chapter 14 Traffic and Transport** **Application Document 7.4 Outline Construction Traffic Management Plan**
CMM	TT06	Site inductions will cover traffic safety, highlighting the need to pay special attention to vulnerable road users.	N/A	Construction	Traffic and Transport	Requirement 5	**Application Document 6.14 Environmental Statement Chapter 14 Traffic and Transport** **Application Document 7.4 Outline Construction Traffic Management Plan**
CMM	TT07	The Main Works Contractor(s) will prepare a Driver Information Pack prior to construction commencing covering a variety of topics and providing information on the requirements of working on the Project, to form part of the CTMP.	N/A	Prior to construction	Traffic and Transport	Requirement 5	**Application Document 6.14 Environmental Statement Chapter 14 Traffic and Transport** **Application Document 7.4 Outline Construction Traffic Management Plan**
CMM	TT08	Depending on the type and size of the equipment, a range of the following measures for abnormal loads will be implemented (where appropriate and necessary) to minimise disruption and risks to other road users: • Marker boards; • Escort vehicles; • Police escort; • Appropriate notice; • Speed restriction; and • Additional lights.	N/A	All phases	Traffic and Transport	Requirement 5	**Application Document 6.14 Environmental Statement Chapter 14 Traffic and Transport** **Application Document 7.4 Outline Construction Traffic Management Plan** **Application Document 7.15 Transport Assessment**
CMM	TT09	Where practicable, temporary traffic management measures (including single lane running, temporary traffic signals or stop/go working) will be used to avoid the need for road closures. Where appropriate and subject to agreement with the relevant local authority, works may be undertaken outside of peak traffic periods, including overnight or outside standard business hours, to reduce disruption to road users and affected receptors.	NA	Construction	Traffic and Transport / Socio economics	Requirement 5	**Application Document 6.14 Environmental Statement Chapter 14 Traffic and Transport** **Application Document 7.4 Outline Construction Traffic Management Plan** **Application Document 7.15 Transport Assessment**
CMM	TT10	Where road closures are required for safe construction, the extent and duration of such closures will be	NA	Construction	Traffic and Transport /	Requirement 5	**Application Document 6.14 Environmental Statement Chapter 14 Traffic and Transport**

Type	Commitment reference	Commitment	Monitoring	Project Phase	Relevant Aspect Topic	Commitment Securing Mechanism	Associated Supporting Documentation
		minimised. Where reasonably practicable, suitable diversion routes will be provided. This may include programming works outside of peak hours or normal business hours, including overnight working where appropriate and agreed with the relevant local authority.			Socio economics		**Application Document 7.4 Outline Construction Traffic Management Plan** **Application Document 7.15 Transport Assessment**
CMM	TT11	In circumstances where diversion routes are not reasonably practicable, including on single-access or no-through roads, access will be managed through controlled access arrangements. These may include temporary time-restricted closures, escorted access, or pre-arranged access periods and agreed with the relevant local highway authority.	NA	Construction	Traffic and Transport / Socio economics	Requirement 5	**Application Document 6.14 Environmental Statement Chapter 14 Traffic and Transport** **Application Document 7.4 Outline Construction Traffic Management Plan** **Application Document 7.15 Transport Assessment**
CMM	TT12	Where controlled access arrangements would result in unacceptable disruption, particularly for residential occupiers, businesses or agricultural operations, further/enhanced mitigation measures will be developed in consultation with affected parties. These may include alternative access provision, changes to construction programming or working methodologies, or other bespoke arrangements.	NA	Construction	Traffic and Transport / Socio economics	Requirement 5	**Application Document 6.14 Environmental Statement Chapter 14 Traffic and Transport** **Application Document 7.4 Outline Construction Traffic Management Plan** **Application Document 7.15 Transport Assessment**
CMM	TT13	All parties affected by road closures will be informed of access arrangements in advance of works commencing and will be provided with advance notice of any changes to access restrictions. Emergency and pedestrian access will be maintained at all times.	NA	Construction	Traffic and Transport / Socio economics	Requirement 5	**Application Document 6.14 Environmental Statement Chapter 14 Traffic and Transport** **Application Document 7.4 Outline Construction Traffic Management Plan** **Application Document 7.15 Transport Assessment**
Air Quality							
CMM	AQ01	<u>Communications</u> A stakeholder communications plan that includes community engagement will be developed and implemented before construction work commences. Contact details for the Project will be displayed at the entrance to the main construction compounds. This will include an emergency telephone number. A free telephone helpline and website will be provided for the Project. This will be maintained and managed by the National Grid community relations team. The Project helpline and website information will be visible on boards placed in appropriate locations where they will be visible to the public.	N/A	Construction	Air Quality	Requirement 5	**Application Document 6.15 Environmental Statement Chapter 15 Air Quality**
CMM	AQ02	<u>Dust Management</u> The Main Works Contractor(s) will develop and comply with a Dust Management Plan (DMP), which may	N/A	Prior to and during construction	Air Quality	Requirement 5	**Application Document 6.15 Environmental Statement Chapter 15 Air Quality**

Type	Commitment reference	Commitment	Monitoring	Project Phase	Relevant Aspect Topic	Commitment Securing Mechanism	Associated Supporting Documentation
		include measures to control other air emissions, and will be implemented prior to construction.					
CMM	AQ03	Site Management All dust and air quality complaints will be recorded and their cause(s) identified. Appropriate measures to reduce emissions will be implemented in a timely manner, and these measures will be recorded. The complaints log will be made available to the local authority on request. Any exceptional incidents that cause dust and/ or air emissions, either on- or off-site, and the action taken to resolve the situation will be recorded in the logbook. Regular liaison meetings with other high risk construction sites within 500 m of the Order Limits will be held to ensure plans are coordinated and dust and particulate matter emissions are minimised. Off-site transport and delivery activities using shared sections of the Strategic Road Network and local road network will be considered to understand potential interactions and minimise associated dust and particulate matter emissions.	N/A	Construction	Air Quality	Requirement 5	**Application Document 6.15 Environmental Statement Chapter 15 Air Quality**
CMM	AQ04	Monitoring Daily on-site and off-site inspections will be undertaken, where receptors (including roads) are nearby, to monitor dust, record inspection results. The information collected from these inspections will be compiled within a log, which will be made available to the local authority on request. This will include regular dust soiling checks of surfaces such as street furniture, cars, and windowsills within 100 m of the site boundary, with cleaning to be provided if necessary. The inspection log will be made available to the local authority on request. There will be an increase in frequency of site inspections by the person accountable for air quality and dust issues on-site when activities with a high potential to produce dust are being carried out and during prolonged dry or windy conditions. Dust deposition, dust flux, or real-time PM_{10} continuous monitoring locations will be discussed with the local authority, if required. Where possible, baseline monitoring will commence at least three months before work commences on-site or, if it is a large site, before work on a phase commences.	See Column 'Commitment'.	Construction	Air Quality	Requirement 5	**Application Document 6.15 Environmental Statement Chapter 15 Air Quality**

Type	Commitment reference	Commitment	Monitoring	Project Phase	Relevant Aspect Topic	Commitment Securing Mechanism	Associated Supporting Documentation
CMM	AQ05	Preparing and Maintaining the Site Solid screens or barriers will be erected around dusty activities, where required, that are at least as high as any stockpiles on-site. Specific activities will be fully enclosed where there is a high potential for dust production, and the activity is ongoing for an extensive period. Runoff of water or mud will be avoided where possible. Site fencing, barriers and scaffolding will be kept clean using wet methods. Materials that have the potential to produce dust from site will be removed as soon as possible, unless being re-used on-site. If they are being re-used on-site, they will be covered as described below. Stockpiles will be covered, seeded or fenced to prevent wind whipping (where needed and depending on duration).	N/A	Construction	Air Quality	Requirement 5	**Application Document 6.15 Environmental Statement Chapter 15 Air Quality**
CMM	AQ06	Operating vehicle/machinery and sustainable travel A maximum speed limit will be imposed on construction access tracks and work areas. For longer length of construction access tracks, these speeds may be increased with suitable additional control measures provided, subject to the approval of the undertaker and with the agreement of the local authority, where appropriate. A Construction Logistics Plan will be produced and complied with to manage the sustainable delivery of goods and materials.	N/A	Construction	Air Quality	Requirement 5	**Application Document 6.15 Environmental Statement Chapter 15 Air Quality**
CMM	AQ07	Operations Suitable dust suppression techniques, such as water sprays or local extraction, will be fitted to or used in conjunction with, cutting, grinding or sawing equipment. There will be an adequate water supply on the site for effective dust/particulate matter suppression/mitigation, using non-potable water where possible and appropriate. Enclosed chutes and conveyors and covered skips will be used, where reasonably practicable. Drop heights from conveyors, loading shovels, hoppers and other loading or handling equipment will be minimised and fine water sprays will be used on such equipment wherever appropriate. It will be ensured that equipment will be readily available on-site to clean any dry spillages, and spillages will be	N/A	Construction	Air Quality	Requirement 5	**Application Document 6.15 Environmental Statement Chapter 15 Air Quality**

Type	Commitment reference	Commitment	Monitoring	Project Phase	Relevant Aspect Topic	Commitment Securing Mechanism	Associated Supporting Documentation
		cleaned up as soon as reasonably practicable after the event using wet cleaning methods.					
CMM	AQ08	Earthworks Earthworks and exposed areas/ soil stockpiles will be re-vegetated to stabilise surfaces as soon as practicable, where appropriate and using appropriate seed mix for what habitat the top soil was from. Hessian, mulches or trackifiers will be used where it is not possible to re-vegetate or cover with topsoil, as soon as practicable. The cover will be removed in small areas during work and not all at once.	N/A	Construction	Air Quality	Requirement 5	**Application Document 6.15 Environmental Statement Chapter 15 Air Quality**
CMM	AQ09	Construction Scabbling (roughening of concrete surfaces) will be avoided if possible. Sand and other aggregates will be stored in bunded areas and will not be allowed to dry out, unless this is required for a particular process, in which case appropriate additional control measures will be in place. Fine powder materials will be delivered in enclosed tankers and stored in silos with suitable emission control systems to prevent escape of material and overfilling during delivery. For smaller supplies of fine powder materials, bags will be sealed after use and stored appropriately to prevent dust.	N/A	Construction	Air Quality	Requirement 5	**Application Document 6.15 Environmental Statement Chapter 15 Air Quality**
CMM	AQ10	Trackout Vehicles carrying materials entering and leaving sites will be covered to prevent escape of materials during transport. On-site construction access tracks will be inspected for integrity and any necessary repairs to the surface will be instigated as soon as reasonably practicable. Hard surfaced haul routes will be installed where possible and regularly damped down with fixed or mobile sprinkler systems, or mobile water bowsers, and regularly cleaned. An adequate area of hard surfaced road will be provided between the wheel wash facility and the site exit, wherever site size and layout permits. Access gates will be located at least 10 m from receptors where possible.	All inspections of construction access tracks and any subsequent action will be recorded in a site inspections logbook.	Construction	Air Quality	Requirement 5	**Application Document 6.15 Environmental Statement Chapter 15 Air Quality**
CMM	AQ11	Throughout the construction phase, Stage IV Non-Road-Mobile-Machinery (NRMM) will be used as a minimum and Stage V will be used where possible.	N/A	Construction	Air Quality	Requirement 5	**Application Document 6.15 Environmental Statement Chapter 15 Air Quality**

Type	Commitment reference	Commitment	Monitoring	Project Phase	Relevant Aspect Topic	Commitment Securing Mechanism	Associated Supporting Documentation
		Additionally, use electric or other low carbon plant and equipment where practicable.					
CMM	AQ12	The use of diesel or petrol powered generators will be avoided, and mains electricity or battery powered equipment will be used, where practicable. Where diesel generators are used, ensure the generators adhere to Stage V emissions standards and seek alternatives where possible, such as batteries or alternative fuel. Ensure they are placed as far from receptors as possible and that testing, if applicable, is kept to a minimum. Consideration will be given to increasing the release height of emissions for sufficient dispersion, and relevant abatement technology, if required.	N/A	All phases	Air Quality	Requirement 5	**Application Document 6.15 Environmental Statement Chapter 15 Air Quality**
EM	AQ13	Construction vehicles will conform to relevant applicable standards for the vehicle type as follows: • Euro 4 (NOx) for petrol cars, vans and minibuses; • Euro 6 (NOx and PM) for diesel cars, vans and minibuses; and • Euro VI (NOx and PM) for lorries, buses, coaches and heavy goods vehicles (excluding specialist abnormal indivisible loads).	N/A	Construction	Air Quality	Requirement 5	**Application Document 6.15 Environmental Statement Chapter 15 Air Quality**
CMM	AQ14	Where maintenance activities are required during the operational phase that have the potential to generate dust or emissions, proportionate dust and emissions management measures consistent with those committed to for the construction phase shall be implemented, to minimise any effects on air quality.	N/A	Operation and Maintenance	Air Quality	Requirement 5	**Application Document 6.15 Environmental Statement Chapter 15 Air Quality**
Noise and Vibration							
CMM	NV01	**Application Document 7.7 Outline Noise and Vibration Management Plan** has been prepared to set out the framework for how noise and vibration will be controlled and managed. The Main Works Contractor(s) will conduct detailed construction noise and vibration assessments to determine whether any additional measures, including site-specific best practicable means (BPM) and monitoring, may be required. A Noise and Vibration Management Plan will be prepared by the Main Works Contractor(s) substantially in accordance with the **Application Document 7.7 Outline Noise and Vibration Management Plan** and submitted for approval by the relevant local planning authority prior to the commencement of construction, and updated and managed during the construction phase as appropriate.	N/A	Prior to construction and construction	Noise and Vibration	Requirement 5	**Application Document 6.16 Environmental Statement Chapter 16 Noise and Vibration** **Application Document 7.7 Outline Noise and Vibration Management Plan**

Type	Commitment reference	Commitment	Monitoring	Project Phase	Relevant Aspect Topic	Commitment Securing Mechanism	Associated Supporting Documentation
CMM	NV02	The Contractor(s) will be required to follow good construction practices (referred to as best practicable means (BPM)) as outlined in BS 5228-1 (British Standards Institution, 2009) and BS 5228-2 (British Standards Institution, 2009) to control noise and vibration respectively. BS 5228-1 and BS 5228-2 have Approved Code of Practice status (in England) under the powers conferred by Sections 71(1)(b), (2) and (3) of the Control of Pollution Act 1974 (HM Government, 1974), as enacted under The Control of Noise (Code of Practice for Construction and Open Sites) (England) Order 2015 (HM Government, 2015). Compliance with the good practice noise and vibration requirements stated therein are a statutory obligation under the Control of Pollution Act 1974 (HM Government, 1974).	N/A	Construction	Noise and Vibration	Requirement 5	**Application Document 6.16 Environmental Statement Chapter 16 Noise and Vibration**
CMM	NV03	In certain instances where construction noise and/or vibration may cause a significant adverse effect at nearby noise sensitive receptors (NSRs), applications for prior consent under Section 61 of the Control of Pollution Act 1974 (HM Government, 1974) may be submitted to the relevant local authority to ensure that BPM are applied to control noise and vibration.	N/A	Construction	Noise and Vibration	Requirement 5	**Application Document 6.16 Environmental Statement Chapter 16 Noise and Vibration**
CMM	NV04	Where there is potential for works to generate vibration at, or approaching, levels exceeding 12.5 mm peak particle velocity (PPV) at buildings or structures (or lower levels if the building or structure is deemed particularly sensitive to vibration), pre- and post-work condition surveys will be conducted. Any damage (cosmetic or otherwise) deemed to be caused by the works will be rectified.	N/A	Construction	Noise and Vibration	Requirement 5	**Application Document 6.16 Environmental Statement Chapter 16 Noise and Vibration**
CMM	NV05	Unnecessary revving of engines will be avoided and engines will be switched off when equipment is not required.	N/A	All phases	Noise and Vibration	Requirement 5	**Application Document 6.16 Environmental Statement Chapter 16 Noise and Vibration**
CMM	NV06	Where practicable, internal construction access tracks will be kept well maintained and will avoid unnecessarily steep gradients.	N/A	Construction	Noise and Vibration	Requirement 5	**Application Document 6.16 Environmental Statement Chapter 16 Noise and Vibration**
CMM	NV07	Where practicable, rubber linings will be used for example, for chutes and dumpers to reduce impact noise.	N/A	Construction	Noise and Vibration	Requirement 5	**Application Document 6.16 Environmental Statement Chapter 16 Noise and Vibration**
CMM	NV08	Start-up plant and vehicles sequentially rather than all together where such items are located near NSRs.	N/A	Construction	Noise and Vibration	Requirement 5	**Application Document 6.16 Environmental Statement Chapter 16 Noise and Vibration**
CMM	NV09	Continuous noisy plant should be housed in acoustic enclosures, where practicable and efficacious.	N/A	Construction	Noise and Vibration	Requirement 5	**Application Document 6.16 Environmental Statement Chapter 16 Noise and Vibration**

Type	Commitment reference	Commitment	Monitoring	Project Phase	Relevant Aspect Topic	Commitment Securing Mechanism	Associated Supporting Documentation
CMM	NV10	Exhaust silencing and plant muffling equipment will be fitted on all construction vehicles and maintained in good working order.	N/A	Construction	Noise and Vibration	Requirement 5	**Application Document 6.16 Environmental Statement Chapter 16 Noise and Vibration**
CMM	NV11	Static plant known to generate significant levels of vibration will be fitted with vibration dampening features.	N/A	Construction	Noise and Vibration	Requirement 5	**Application Document 6.16 Environmental Statement Chapter 16 Noise and Vibration**
CMM	NV12	Each item of plant used will be selected to comply with the noise limits quoted in the European Commission Directive 2000/14/EC, as transposed into United Kingdom legislation by the Noise Emission in the Environment by Equipment for use Outdoors Regulations 2001 (HM Government, 2001).	N/A	Construction	Noise and Vibration	Requirement 5	**Application Document 6.16 Environmental Statement Chapter 16 Noise and Vibration**
CMM	NV13	Equipment will be well maintained and where practicable will be used in the mode of operation that minimises noise.	N/A	Construction	Noise and Vibration	Requirement 5	**Application Document 6.16 Environmental Statement Chapter 16 Noise and Vibration**
CMM	NV14	Plant and equipment will be shut-down when not in use.	N/A	Construction	Noise and Vibration	Requirement 5	**Application Document 6.16 Environmental Statement Chapter 16 Noise and Vibration**
CMM	NV15	Semi-static equipment will be sited and orientated as far as reasonably practicable away from occupied buildings and, where feasible, will be fitted with suitable enclosures or screened using noise barriers.	N/A	Construction	Noise and Vibration	Requirement 5	**Application Document 6.16 Environmental Statement Chapter 16 Noise and Vibration**
CMM	NV16	Materials will be handled in a manner that minimises noise.	N/A	Construction	Noise and Vibration	Requirement 5	**Application Document 6.16 Environmental Statement Chapter 16 Noise and Vibration**
CMM	NV17	All appropriate personnel will be instructed on best practical means measures to reduce noise and vibration as part of their induction training and followed up by toolbox talks.	N/A	Construction	Noise and Vibration	Requirement 5	**Application Document 6.16 Environmental Statement Chapter 16 Noise and Vibration**
CMM	NV18	For the construction of pylon foundations, non-percussive piling methods would be used where practicable.	N/A	Construction	Noise and Vibration	Requirement 5	**Application Document 6.16 Environmental Statement Chapter 16 Noise and Vibration**
EM	NV19	Where bird diverters are installed (see also commitment ON08), a specification will be selected that takes into consideration noise generated from atmospheric conditions.	N/A	Prior to construction	Noise and Vibration	Requirement 5	**Application Document 6.9 Environmental Statement Chapter 9 Ornithology** **Application Document 6.16 Environmental Statement Chapter 16 Noise and Vibration**
CMM	NV20	If percussive piling is required for pylon foundations near the River Ouse (see also commitment NV18), appropriate control measures to reduce potential effects on the aquatic environment will be identified by the Main Works Contractor(s) and implemented in accordance with Commitments NV01 and NV02.	N/A	Prior to construction	Noise and Vibration	Requirement 5	**Application Document 6.16 Environmental Statement Chapter 16 Noise and Vibration** **Application Document 6.8 Environmental Statement Chapter 8 Ecology**
CMM	NV21	Construction works in the vicinity of routes or areas used with horses (ridden or driven), such as bridleways,	N/A	Prior to construction	Noise and Vibration	Requirement 5	**Application Document 6.16 Environmental Statement Chapter 16 Noise and Vibration**

Type	Commitment reference	Commitment	Monitoring	Project Phase	Relevant Aspect Topic	Commitment Securing Mechanism	Associated Supporting Documentation
		byways, roads, permitted paths and open access areas which may be adjacent to or crossing the site, will follow British Horse Society guidance 'Advice on construction sites and horses' (The British Horse Society, 2024).					
CMM	NV22	Where noise from pylon fittings and insulators does occur which results in a complaint, appropriate action can be taken to seek to remedy the cause of the noise, usually through cleaning or replacing the relevant fitting.		Operation and maintenance	Noise and Vibration	Requirement 5	**Application Document 6.16 Environmental Statement Chapter 16 Noise and Vibration**
Socio-economics, Recreation and Tourism							
CMM	S01	Training will be provided to construction workers on the management of emissions (dust, noise, vibration, etc) in line with measures and methods defined in the Final CoCP.	N/A	Prior to construction	Socio-economics, Recreation and Tourism	Requirement 5	**Application Document 6.17 Environmental Statement Chapter 17 Socio-economics, Recreation and Tourism** **Document 7.2 Outline Code of Construction Practice**
CMM	S02	Where community facilities, businesses, tourism, and recreational assets cannot be avoided, access to these affected assets will be maintained where practicable. In the case of closures, appropriate access arrangements, including provision of temporary diversion routes, will be provided where possible. Advance notice signage will be erected regarding route diversions. These notice boards will be erected prior to and throughout the construction period.	N/A	Prior to construction	Socio-economics, Recreation and Tourism	Requirement 5	**Volume 2.6 Access and Public Rights of Way Diversions Plans** **Application Document 6.17 Environmental Statement Chapter 17 Socio-economics, Recreation and Tourism** **Application Document 7.5 Outline Construction Traffic Management Plan**
CMM	S03	Engagement will take place between National Grid, its Main Works Contractor(s) and developers of other major planning applications within the Order Limits. Engagement will occur throughout the pre-construction and construction phase of the Project to understand the construction programme of relevant major planning applications where available. Access to land where construction is proposed for planning applications that fall within the Order Limits will be coordinated with the relevant developer.	N/A	Prior to construction and construction	Socio-economics, Recreation and Tourism	Requirement 5	**Application Document 6.17 Environmental Statement Chapter 17 Socio-economics, Recreation and Tourism**
CMM	S04	The final constructed pylon locations and vertical heights will be shared with the following airfields to ensure Project structures can be accurately charted: • Mount Airy • Haxey • Willow Farm • Forwood Farm • Headon • Darlton Gliding Club • Grove Farm.	N/A	Prior to construction	Socio-economics, Recreation and Tourism	Requirement 5	**Application Document 6.17 Environmental Statement Chapter 17 Socio-economics, Recreation and Tourism**

Type	Commitment reference	Commitment	Monitoring	Project Phase	Relevant Aspect Topic	Commitment Securing Mechanism	Associated Supporting Documentation
CMM	S05	To reduce the duration of temporary closure of the Yorkshire Wolds Way, crossing protection will be implemented for both lines. During this closure, users will be signposted onto an alternative route to bypass the closed section of the Yorkshire Wolds Way. This will include constructing crossing protection for both lines simultaneously to shorten the overall duration the route be closed for.	N/A	Prior to construction	Socio-economics, Recreation and Tourism	Requirement 5	**Application Document 6.17 Environmental Statement Chapter 17 Socio-economics, Recreation and Tourism** **Application Document 7.6 Outline Public Rights of Way Management Plan**
CMM	S06	Prior to the commencement of construction works, National Grid and the Main Works Contractor(s) will produce and comply with a Skills, Supply Chain and Employment Plan.	N/A	Prior to construction	Socio-economics, Recreation and Tourism	Requirement 5	**Application Document 6.17 Environmental Statement Chapter 17 Socio-economics, Recreation and Tourism**
CMM	S07	Residential and business properties subject to road closures resulting in temporary loss of vehicular access to the property will be managed through the staged mitigation approach outlined within **Application Document 7.04 Outline Construction Traffic Management Plan**: • Stage 1 - application of standard construction phasing and traffic management measures which to ensure maintenance of vehicular access and avoidance of severance effects; • Stage 2 - application of standard best practice control and management measures. Such measures may include sensitive programming of works, managed crossings, effective communication, ensuring delivery windows, etc; and • Stage 3 - application of additional mitigation measures which may be bespoke to the affected location.	N/A	Prior to construction and construction	Socio-economics, Recreation and Tourism	Requirement 5	**Application Document 6.17 Environmental Statement Chapter 17 Socio-economics, Recreation and Tourism** **Application Document 7.04 Outline Construction Traffic Management Plan**
Health and Wellbeing							
None							
Climate Change							
CMM	CC01	Sustainable, low-carbon materials will be specified and prioritised wherever practicable, supported by material selection processes aimed at minimising embodied carbon across the Project lifecycle.	N/A	All construction phases	Climate Change	Requirement 5	**Application Document 6.19 Environmental Statement Chapter 19 Climate Change**
CMM	CC02	Materials will be sourced from local suppliers, where reasonably practicable, to minimise transportation distances and associated greenhouse gas emissions.	N/A	Prior to construction	Climate Change	Requirement 5	**Application Document 6.19 Environmental Statement Chapter 19 Climate Change**
CMM	CC03	The design and maintenance of pylons will incorporate protective treatments (e.g. galvanisation and specialist coatings) and scheduled inspection regimes to	Scheduled inspections as per National	Post construction	Climate Change	Requirement 5	**Application Document 6.19 Environmental Statement Chapter 19 Climate Change**

Type	Commitment reference	Commitment	Monitoring	Project Phase	Relevant Aspect Topic	Commitment Securing Mechanism	Associated Supporting Documentation
		maximise operational lifespan. Ongoing maintenance, including repainting and targeted repairs, will minimise the need for full component replacement.	Grid's standard maintenance procedures for pylons.				
EM	CC04	Electrical equipment will be specified with high temperature range tolerances which consider climate change projections, UKCP18 (Met Office, 2018), for the design life of the Project.	N/A	Prior to construction	Climate Change	Requirement 5	**Application Document 6.19 Environmental Statement Chapter 19 Climate Change**

References

British Standards Institution. (2009). *BS 5228-1:2009+A1:2014 Code of practice for noise and vibration control on construction and open sites. Part 1: Noise.* London: British Standards Institution. Retrieved from https://knowledge.bsigroup.com/products/code-of-practice-for-noise-and-vibration-control-on-construction-and-open-sites-noise

British Standards Institution. (2009). *BS 5228-2:2009+A1:2014 Code of practice for noise and vibration control on construction and open sites. Part 2: Vibration.* London: British Standards Institution. Retrieved from https://knowledge.bsigroup.com/products/code-of-practice-for-noise-and-vibration-control-on-construction-and-open-sites-vibration

British Standards Institution. (2010). *BS 3998:2010 Tree work. Recommendations.* London: British Standards Institution. Retrieved from https://knowledge.bsigroup.com/products/tree-work-recommendations

British Standards Institution. (2012). *BS 5837:2012 Trees in relation to design, demolition and construction. Recommendations.* London: British Standards Institution. Retrieved from https://knowledge.bsigroup.com/products/trees-in-relation-to-design-demolition-and-construction-recommendations

CIRIA. (2006). *Control of water pollution from linear construction projects - Technical Guidance (C648).* London: CIRIA. Retrieved from https://www.ciria.org/CIRIA/ProductExcerpts/C648.aspx

CL:AIRE. (2011). *The Definition of Waste: Development Industry Code of Practice.* Retrieved from https://claire.co.uk/projects-and-initiatives/dow-cop.html

CL:AIRE. (2025). *Piling and Penetrative Ground Improvement Methods on Land Affected by Contamination: Guidance on Pollution Prevention.* Retrieved from https://claire.co.uk/home/news-new/piling-and-penetrative-ground-improvement-methods-on-land-affected-by-contamination-guidance-on-pollution-prevention.html

Defra. (2009). *Construction Code of Practice for the Sustainable Use of Soils on Construction Sites.* Retrieved from GOV.UK: https://www.gov.uk/government/publications/code-of-practice-for-the-sustainable-use-of-soils-on-construction-sites

Department for Energy Security and Net Zero. (2025). *National Policy Statement for Electricity Networks Infrastructure (EN-5).* Retrieved from GOV.UK: https://assets.publishing.service.gov.uk/media/695d12e1b5c46330350ed9a1/national-policy-statement-for-electricity-networks-infrastructure-en-5-web-accessible.pdf

Department for Energy Security and Net Zero. (2025). *Overarching National Policy Statement for Energy (EN-1).* Retrieved from GOV.UK: https://assets.publishing.service.gov.uk/media/695d1015f41883f4e50ed9ab/overarching-national-policy-statement-for-energy-en-1-web-accessible.pdf

Energy Networks Association. (2020). *EREC G136 (Issue 1) Vegetation management near electricity equipment - principles of good practice.* London: Energy Networks Association.

HM Government. (1974). *Control of Pollution Act 1974.* Retrieved from legislation.gov.uk: https://www.legislation.gov.uk/ukpga/1974/40/contents

HM Government. (1981). *Wildlife and Countryside Act 1981.* Retrieved from legislation.gov.uk: https://www.legislation.gov.uk/ukpga/1981/69/contents

HM Government. (1989). *Electricity Act 1989.* Retrieved from legislation.gov.uk: https://www.legislation.gov.uk/ukpga/1989/29/contents

HM Government. (1997). *The Confined Spaces Regulations 1997.* Retrieved from legislation.gov.uk: https://www.legislation.gov.uk/uksi/1997/1713/contents

HM Government. (2001). *The Control of Pollution (Oil Storage) (England) Regulations 2001.* Retrieved from legislation.gov.uk: https://www.legislation.gov.uk/uksi/2001/2954/contents

HM Government. (2001). *The Noise Emission in the Environment by Equipment for use Outdoors Regulations 2001.* Retrieved from legislation.gov.uk: https://www.legislation.gov.uk/uksi/2001/1701/contents

HM Government. (2008). *Planning Act 2008.* Retrieved from legislation.gov.uk: https://www.legislation.gov.uk/ukpga/2008/29/contents

HM Government. (2009). *The Eels (England and Wales) Regulations 2009.* Retrieved from legislation.gov.uk: https://www.legislation.gov.uk/uksi/2009/3344/contents

HM Government. (2015). *The Control of Noise (Code of Practice for Construction and Open Sites) (England) Order 2015.* Retrieved from legislation.gov.uk: https://www.legislation.gov.uk/uksi/2015/227/contents

HM Government. (2016). *The Environmental Permitting (England and Wales) Regulations 2016.* Retrieved from legislation.gov.uk: https://www.legislation.gov.uk/uksi/2016/1154/contents

Holford, L. W. (1959). Retrieved from THe Holford Rules: https://www.nationalgrid.com/sites/default/files/documents/13795-The%20Holford%20Rules.pdf

ICNIRP. (1998). *ICNIRP Guidelines for Limiting Exposure to Time-Varying Electric, Magnetic and Electromagnetic Fields (up to 300 GHz).* Retrieved from https://www.icnirp.org/cms/upload/publications/ICNIRPemfgdl.pdf

Institute of Lighting Professionals. (2023). Retrieved from GN08/23 Bats and Artificial Lighting at Night: https://theilp.org.uk/resource/gn08-bats-and-artificial-lighting-pdf.html

Institution of Lighting Professionals. (2021). *Guidance Note 01/21 The Reduction of Obtrusive Light.* Retrieved from https://theilp.org.uk/resource/gn01-ilp-guidance-note-1-the-reduction-of-obtrusive-light-2021.html

Institution of Lighting Professionals and Bat Conservation Trust. (2023). *Guidance Note 08/23 Bats and Artificial Lighting at Night.* Retrieved from https://theilp.org.uk/resource/gn08-bats-and-artificial-lighting-pdf.html

The British Horse Society. (2024). *Advice on construction sites and horses.* The British Horse Society.

National Grid plc
National Grid House,
Warwick Technology Park,
Gallows Hill, Warwick.
CV34 6DA United Kingdom

Registered in England and Wales
No. 4031152
nationalgrid.com