

The Keadby 3 Low Carbon Gas Power Station Project

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The Keadby 3 (Carbon Capture Equipped Gas Fired Generating Station) Order

**Land at and in the vicinity of the Keadby Power Station site,
Trentside, Keadby, North Lincolnshire**

Environmental Statement Volume II - Appendix 20A: Schedule of Commitments

The Planning Act 2008

**The Infrastructure Planning (Environmental Impact Assessment)
Regulations 2017**

Applicant: Keadby Generation Limited

Date: May 2021

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GLOSSARY

Abbreviation	Description
ACoP	Approved Code of Practice
AGI	Above Ground Installation
AIL	Abnormal Indivisible Load
ALARP	As Low As Reasonably Practicable
ALC	Agricultural Land Classification
BAT	Best Available Techniques
CCGT	Combined Cycle Gas Turbine
CCP	Carbon Capture Plant
CDM	Construction Design and Management Regulations 2015
CEMP	Construction Environmental Management Plan
CEMS	Continuous Emissions Monitoring System
CIBSE	Chartered Institution Building Services Engineers
COMAH	Control of Major Accident Hazards
COSHH	Control of Substances Hazardous to Human Health Regulations
CTMP	Construction Traffic Management Plan
CWTP	Framework Construction Workers' Travel Plan
DCC	Direct Contact Cooler
DCO	Development Consent Order -
DEMP	Decommissioning Environmental Management Plan
DTMP	Decommissioning Traffic Management Plan
ELV	Emission Limit Value
EMS	Environment Management System
EPC	Engineering, Procurement and Construction (EPC) contractor
FEED	Front End Engineering Design
GHG	Greenhouse Gases
HAZID	Hazard Identification
HAZOP	Hazard and Operability study

Abbreviation	Description
HGV	Heavy Goods Vehicle
HRSG	Heat Recovery Steam Generator
HSE	Health and Safety Executive
IDB	Internal Drainage Board
INNS	Invasive Non-native Species
IoAaNNWLMB	Isle of Axholme and North Nottinghamshire Water Level Management Board
ISO	International Organization for Standardization
JNCC	The Joint Nature Conservation Commission
LLFA	Lead Local Flood Authority
MAPP	Major Accident Prevention Policy
MMO	Marine Management Organisation
MOC	Minimum Offtake Connection
NGG	National Gas Grid
NSR	Noise Sensitive Receptor
PCB	Polychlorinated Biphenyls
PIG	Pipeline Inspection Gauge
PSR	Pipelines Safety Regulations
QRA	Quantitative Risk Assessment
RBI	Risk Based Inspection
RCM	Reliability Centred Maintenance
SCR	Selective Catalytic Reduction
SuDS	Sustainable Urban Drainage Systems
SWMP	Site Waste Management Plan
WMP	Water Management Plan

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1.0 COMMITMENTS REGISTER

1.1 Overview

- 1.1.1 Notwithstanding anything to the contrary in **Chapters 4, 5, and 8 – 18** of this Environmental Statement (ES) (ES Volume I – **Application Document Ref. 6.2**), this Commitments Register constitutes the definitive set of commitments made by the Applicant in this Development Consent Order (DCO) Application.

Table 20.1: Commitments Register

Reference / Chapter	Commitment	Secured by
Construction		
Chapters 5 and 10 (ES Volume I – Application Document Ref. 6.2), Application Document Ref. 7.2 – CTMP and Application Document Ref. 7.3 – CWTP.	The appointed contractor will be required to prepare a Construction Traffic Management Plan (CTMP) and Construction Workers' Travel Plan (CWTP) and this will be secured by a Requirement of the draft DCO (Application Document Ref. 2.1). These plans will be in accordance with the Framework CTMP (Application Document Ref. 7.2) and CWTP (Application Document Ref. 7.3) respectively.	DCO Schedule 2 (Application Document Ref. 2.1)
Chapters 4 and 5 (ES Volume I – Application Document Ref. 6.2) and Application	Construction temporary lighting will be arranged so that glare is minimised outside the site as far as is reasonably practical. The Appointed Contractors will be responsible for establishing the required approach to and levels of lighting, and a Lighting Strategy will be prepared for approval pursuant to a requirement in the DCO. The Lighting Strategy will be produced using details within the Indicative Lighting Strategy report (Application Document Ref. 5.11).	DCO Schedule 2 (Application Document Ref. 2.1)

Reference / Chapter	Commitment	Secured by
Document Ref. 5.11 – Lighting Strategy		
Chapters 5, 8, 11, 12, 13, 17 and 18 (ES Volume I – Application Document Ref. 6.2) and Application Document Ref. 7.1 – CEMP	A Construction Environmental Management Plan (CEMP) will be prepared by the EPC Contractor(s) prior to construction. The CEMP will identify how commitments made within the ES and DCO documents will be translated into actions on the Proposed Development Site including details such as the allocation of key roles and responsibilities. The submission, approval and implementation of this will be secured through a requirement of the draft DCO (Application Document Ref. 2.1). A Framework CEMP is included in the ES (Application Document Ref. 7.1), which accompanies the DCO application and sets out the key measures to be employed to control and minimise the impacts on the environment. The final CEMP will be prepared by the EPC Contractor(s) in accordance with the Framework CEMP.	DCO Schedule 2 (Application Document Ref. 2.1):
Chapter 8 (ES Volume I – Application Document Ref. 6.2), and Application Document	Emissions of dust and particulates from the construction phase of the Proposed Development will be controlled in accordance with industry best practice, through incorporation of appropriate control measures according to the risks posed by the activities undertaken. The management of dust and particulates and application of adequate mitigation measures will be enforced through embedding measures in the final CEMP.	DCO Schedule 2 (Application Document Ref. 2.1).

Reference / Chapter	Commitment	Secured by
Ref. 7.1 - CEMP		
Chapter 9 (ES Volume I – Application Document Ref. 6.2) and Application Document Ref. 7.1 - CEMP	Measures to mitigate noise will be implemented during the construction phase of the Proposed Development in order to minimise impacts at local noise sensitive receptor (NSR) and ecological receptors, particularly with respect to activities required outside of core working hours. Mitigation (to be included in the final CEMP) and as outlined in the Framework CEMP.	DCO Schedule 2 (Application Document Ref. 2.1).
Chapter 5 (ES Volume I – Application Document Ref. 6.2) , Application Document Ref 7.3 – CWTP and Application Document	Core construction working hours would be 07:00 and 19:00 Monday to Friday (except bank holidays) and 08:00 and 13:00 on Saturdays. However, it is likely that some construction activities may need to be undertaken outside of these core working hours. Where on-site works are to be conducted outside the core hours, they would comply with any restrictions agreed with the local planning authority, in particular regarding control of noise and traffic. Works within the River Trent, where necessary, would also be undertaken in accordance with the requirements of the Marine Licence for the Proposed Development; the scope, content and condition suite of the Marine Licence has been discussed with the MMO and a draft Deemed Marine Licence (DML) is included within the draft DCO (Application Document Ref. 2.1). Requirements in the draft DCO (Application Document Ref. 2.1) secure the	DCO Schedule 2 (Application Document Ref. 2.1).

Reference / Chapter	Commitment	Secured by
Ref 7.2 - CTMP	working hours and the approach to exceptions to the core working hours. Any such works will be minimised and will be carefully managed to reduce effects on the local community.	
Chapter 4 (ES Volume I – Application Document Ref. 6.2)	Prohibited materials such as asbestos, polychlorinated biphenyls (PCBs), ozone depleting substances and carcinogenic materials will not be allowed within the design and construction of the built form of the Proposed Development. Other materials recognised to pose a risk to health, but which are not prohibited, will be subject to a detailed risk assessment.	Building Regulations 2010 and rules in specific legislation such as Control of Asbestos Regulations 2012.
Chapter 5 (ES Volume I – Application Document Ref. 6.2)	A Site Waste Management Plan (SWMP) based on the Framework SWMP will be developed as part of the final CEMP. Compliance with the CEMP in respect of construction wastes is secured by a specific requirement in the DCO.	DCO Schedule 2 (Application Document Ref. 2.1).
Chapter 5 (ES Volume I – Application Document Ref. 6.2)	The SWMP will require that the Appointed Contractor(s) segregate waste streams on-site, prior to them being taken to a permitted waste facility for recycling or disposal. All waste to be removed from the Site will be undertaken by licensed waste carriers and taken to permitted waste facilities. Compliance with the SWMP is secured by a specific requirement in the DCO.	DCO Schedule 2 (Application Document Ref. 2.1).

Reference / Chapter	Commitment	Secured by
<p>Chapter 5 (ES Volume I – Application Document Ref. 6.2)</p>	<p>No hazardous materials would be stored unbunded within the construction laydown areas. All construction laydown areas would be secured by security fencing and gates as appropriate.</p> <p>Storage areas for flammable/toxic corrosive materials will be located in a separate, locked, banded and fenced off area. Material data sheets will be available for all these materials and the COSHH (Control of Substances Hazardous to Health) assessments kept within the relevant risk assessment for the task, all subject to the Applicant's approval.</p>	<p>DCO Schedule 2 (Application Document Ref. 2.1).</p>
<p>Chapter 5 (ES Volume I – Application Document Ref. 6.2)</p>	<p>HGV delivering construction materials would access the Proposed Development Site from the Site entrance off the A18, with all HGV arriving and departing to/ from the west via the A18, A161 and onwards to the M180 Junction 2.</p> <p>An abnormal load strategy will be prepared as part of the CTMP which will specify the approach to delivering abnormal loads to Site. Three abnormal load routes are available depending on the load size</p> <ul style="list-style-type: none"> - by road from Immingham Dock via the M180 to the A18 and into Site, - by road via Ealand village from the A161, New Trent Road and Bonnyhale Road, or - By boat from the Port of Immingham to the Waterborne Transport Off-Loading Area (Railway Wharf – Work No. 10B). 	<p>DCO Schedule 2 (Application Document Ref. 2.1).</p>

Reference / Chapter	Commitment	Secured by
<p>Chapter 5 (ES Volume I – Application Document Ref. 6.2)</p>	<p>For the proposed emergency access bridge, initial site clearance will be undertaken including vegetation clearance. The channel beneath the proposed bridge crossing is likely to require lining to prevent vegetation growth as this area will no longer be accessible to machinery. This will be set out in the detailed design of the bridge required for Work No. 8C, secured by requirement.</p>	<p>DCO Schedule 2 (Application Document Ref. 2.1).</p>
<p>Chapter 5 (ES Volume I – Application Document Ref. 6.2)</p>	<p>Any excess spoil generated during construction will be managed through the SWMP that would form part of the final CEMP. Spoil which cannot be re-used will be removed from site for re-use, treatment or disposal at a permitted facility. The re-use of excavated materials during construction will be governed by either a Materials Management Plan developed in accordance with relevant guidance including ‘The Definition of Waste: Development Industry Code of Practice’ (CL:AIRE), an environmental permit or a relevant exemption. Compliance with the CEMP in respect of construction wastes is secured by a specific requirement in the DCO.</p> <p>Where necessary, suitable measures will be put in place to prevent sediment being washed off-site, and the stockpiles will be visually monitored for wash away during and after periods of prolonged rainfall.</p> <p>Appropriate measures to minimise short-term and long-term impacts on land drainage will be agreed with the relevant landowner for those works affecting drains within the temporary construction and laydown areas (Work No. 9A).</p>	<p>DCO Schedule 2 (Application Document Ref. 2.1).</p>

Reference / Chapter	Commitment	Secured by
	<p>Where land drains are under the control of the Internal Drainage Board (IDB), relevant bylaws will be adhered to or consent obtained for works affecting/ crossing drains within the Electrical Connection to the Northern Powergrid 132kV Substation (Work No. 3A), Water Discharge Corridor (Work No. 5) and emergency vehicle access route (Work No. 8B). These measures will be secured in the final CEMP.</p> <p>The final CEMP and works required to discharge the Flood Risk Mitigation requirement will incorporate measures to prevent an increase in flood risk or pollution risk during the construction works.</p>	
<p>Chapter 5 (ES Volume I – Application Document Ref. 6.2)</p>	<p>Soil will be managed in accordance with the Defra Construction Code of Practice for the Sustainable Use of Soil on Development Sites to minimise impacts on soil structure and quality. A Soil Management Plan is provided in the Framework CEMP (Application Document Ref. 7.1).</p>	<p>DCO Schedule 2 (Application Document Ref. 2.1).</p>
<p>Chapter 5 (ES Volume I – Application Document Ref. 6.2)</p>	<p>Impacts relating to the handling, movement and temporary storage of soils, including those agricultural soils classified as ‘best and most versatile – Agricultural Land Classification (ALC) Grade 1’ that will be disturbed for temporary laydown, will be controlled through the final CEMP. Measures within the final CEMP would include:</p> <ul style="list-style-type: none"> • a pre-construction condition survey of laydown areas within Area 2 (ALC Grade 1) including soil depths and textures of soil horizons; 	<p>DCO Schedule 2 (Application Document Ref. 2.1)</p>

Reference / Chapter	Commitment	Secured by
	<ul style="list-style-type: none"> a method statement for the works to include soil handling and storage proposals; a restoration specification; and a post-works survey to confirm condition. 	
Chapter 5 (ES Volume I – Application Document Ref. 6.2)	All works will comply with the safety clearances and requirements set out by the utility providers who have assets within the Proposed Development Site.	Protective provisions in the draft DCO
Chapter 5 (ES Volume I – Application Document Ref. 6.2)	If water is encountered during below ground construction, suitable de-watering methods will be used. Any significant groundwater dewatering required will be undertaken in line with the requirements of the Environment Agency under the Water Resources Act 1991 as amended and Environmental Permitting (England and Wales) Regulations 2016	The Environmental Permitting (England and Wales) Regulations 2016 (as amended)
Chapter 5 (ES Volume I – Application Document Ref. 6.2)	The cofferdam installation piling method will be designed to reduce the risk of disturbance to fish or other noise sensitive human and ecological receptors as far as reasonably practicable; this includes adoption of the Joint Nature Conservation Commission (JNCC) best-practice measures for piling and avoidance of night-time piling. Further details of these and other mitigation measures are present in Chapter 11: Biodiversity and Nature Conservation (ES Volume I – Application Document Ref. 6.2) and Appendix 11H: Underwater	DCO Schedule 2 (Application Document Ref. 2.1). Deemed Marine Licence (DCO Schedule 14) (Application Document Ref. 2.1).

Reference / Chapter	Commitment	Secured by
	Sound Effects on Fish (ES Volume II – Application Document Ref. 6.3). No seasonal restrictions are proposed in relation to installation or removal of the cofferdam within the Stainforth and Keadby Canal.	
Chapters 5 and 11 (ES Volume I – Application Document Ref. 6.2)	<p>Should the preferred Canal Water Abstraction Option be selected, measures to minimise environmental impacts at the abstraction point would include:</p> <ul style="list-style-type: none"> • adoption of the JNCC best-practice measures for piling including the implementation of a soft-start process; and • avoidance of night-time piling. <p>Additional measures to minimise environmental impacts at the River Water Abstraction Option intake would include:</p> <ul style="list-style-type: none"> • adoption of the Joint Nature Conservation Commission (JNCC) best-practice measures for piling including the implementation of a soft-start process; • avoidance of night-time piling; • adherence to the agreed seasonal restriction of September to November (inclusive) to avoid the key upstream migration of adult salmon; and • use of silt curtains (to minimise impacts on water quality). 	DCO Schedule 2 (Application Document Ref. 2.1).
Chapter 5 (ES Volume I – –	As part of refurbishment and/ or replacement works within the Water Discharge Corridor, if minor upgrades are required, trenchless excavation	DCO Schedule 2 (Application Document Ref. 2.1).

Reference / Chapter	Commitment	Secured by
<p>Application Document Ref. 6.2)</p>	<p>methods ('sliplining') would be applied to the existing pipeline. There will be no open cut pipeline replacement along the existing pipeline easement.</p> <p>The routing and eventual method would be controlled by the detailed design requirement in Schedule 2 of the Draft DCO.</p> <p>The existing connection to foul sewer for Keadby 2 Power Station may also be used for the Proposed Development if it is in a suitable condition. If the pipeline condition is not suitable for continued use, foul sewerage would instead be treated on site in a package treatment plant with the treated water directed to the river Trent via the water discharge connection.</p>	
<p>Chapters 5 and 12 (ES Volume I – Application Document Ref. 6.2) and Application Document Ref. 7.2 – Framework CTMP</p>	<p>A self-contained wheel wash will be installed and will be used by vehicles prior to exiting the construction site prior to joining the public highway. For loads unable to use the fixed wheel wash, a localised wheel washing facility will be set up to cater for these, to minimise effects to the highway. In the interests of highway safety, wheel cleaning facilities will be installed at the Proposed Development Site from the start of the construction phase. All HGV would be required to wheel wash prior to exiting the Proposed Development Site. The need for this measure will be periodically reviewed throughout the construction phase.</p>	<p>DCO Schedule 2 (Application Document Ref. 2.1).</p>

Reference / Chapter	Commitment	Secured by
Chapters 5 and 13 (ES Volume I – Application Document Ref. 6.2)	A piling and penetrative foundation design method statement, informed by a risk assessment, would be undertaken in accordance with Environment Agency guidance. This would be secured by a Requirement of the draft DCO and submitted to the local authority for approval, in consultation with the Environment Agency. All piling and penetrative foundation works would be carried out in accordance with the approved method statement to prevent contamination of the underlying soils and groundwater.	DCO Schedule 2 (Application Document Ref. 2.1)
Chapter 8 (ES Volume I – Application Document Ref. 6.2)	Good practice will also be employed for the siting and operation of Non-Road Mobile Machinery to control associated emissions including minimising vehicle and plant idling, locating static plant away from sensitive boundaries or receptors and minimising operating time outside of core working hours/ daylight hours. This will be secured through the CEMP.	DCO Schedule 2 (Application Document Ref. 2.1)
Chapter 9 (ES Volume I – Application Document Ref. 6.2)	Regular communication with the local community throughout the construction period will also serve to publicise the works schedule, giving notification to residents regarding periods when higher levels of noise may occur during specific operations, and providing lines of communication where complaints can be addressed. This will be secured through the CEMP.	DCO Schedule 2 (Application Document Ref. 2.1)
Chapter 9 (ES Volume I – Application)	A detailed noise and vibration assessment will be undertaken once the contractor is appointed and further details of construction methods are known in order to identify specific mitigation measures for the Proposed Development (including construction traffic). The final CEMP will set out provisions to ensure	DCO Schedule 2 (Application Document Ref. 2.1)

Reference / Chapter	Commitment	Secured by
Document Ref. 6.2)	that the noise and vibration impacts relating to construction activities are reduce as far as reasonably practicable.	
Chapter 11 (ES Volume I – Application Document Ref. 6.2)	A Water Vole Impact Avoidance Strategy will be prepared, using updated baseline information, and agreed with relevant stakeholders to specify the measures and supervision required to deliver legislative compliance during construction of the Main Site and watercourse crossings.	DCO Schedule 2 (Application Document Ref. 2.1)
Chapter 11 (ES Volume I – Application Document Ref. 6.2)	A Fish Management Plan will be prepared and agreed with relevant stakeholders to specify the measures and supervision required to deliver legislative compliance during installation and drawdown of any cofferdam used for the water connection. This would also apply if relevant to replacement of the existing Mabey Bridge over the Hatfield Waste Drain LWS. The Plan will be prepared as part of the detailed CEMP.	DCO Schedule 2 (Application Document Ref. 2.1)
Chapter 11 (ES Volume I – Application Document Ref. 6.2)	A plant invasive non-native species (INNS) survey will be undertaken prior to construction to determine the current location and extent of plant INNS, and to inform specification of the Invasive Species Management Plan (ISMP). If determined as necessary through this survey and after consideration of other available plant and animal INNS data, an ISMP will be prepared to accompany the final CEMP and would be agreed with relevant stakeholders. The ISMP would specify the measures and supervision necessary during construction to prevent the spread of plant and animal INNS to new locations.	DCO Schedule 2 (Application Document Ref. 2.1)

Reference / Chapter	Commitment	Secured by
Chapter 11 (ES Volume I – Application Document Ref. 6.2)	Appropriately experienced ecologists will complete site walkovers in advance of mobilisation or other potential advance works to re-confirm the ecological baseline conditions and identify any new ecological risks. Updated species surveys will also be undertaken to determine the status of protected and INNS identified as present or potentially present at the Proposed Development Site to inform mitigation requirements and support protected species licence applications. These updated surveys will be completed sufficiently far in advance of construction works to account for seasonality constraints and to allow time for the implementation of any necessary mitigation prior to construction.	DCO Schedule 2 (Application Document Ref. 2.1)
Chapter 11 (ES Volume I – Application Document Ref. 6.2)	An Ecological Clerk of Works (ECoW) would be employed to oversee the delivery of all necessary ecological mitigation, including any mitigation to be completed under relevant species mitigation licences.	DCO Schedule 2 (Application Document Ref. 2.1)
Chapter 12 (ES Volume I – Application Document Ref. 6.2)	The development platform of the Main Site would be raised to the finished floor level of 2.6m Above Ordnance Datum (AOD). Critical operational infrastructure associated with the Combined Cycle Gas Turbine (CCGT) (defined in paragraph 6.3.11 of Appendix 12A: Flood Risk Assessment (ES Volume II – Application Document Ref. 6.3)) will have a further clearance of 1.0m, therefore providing a level of resilience of no less than 3.6m AOD. This is a minimum level that will be achieved for critical operational infrastructure,	DCO Schedule 1 (Application Document Ref. 2.1).

Reference / Chapter	Commitment	Secured by
	but further clearance will be provided up to 4.4m AOD where reasonably practicable to do so.	
Chapter 12 (ES Volume I – Application Document Ref. 6.2)	A safe refuge above ground floor level of the Proposed Development would be provided including welfare facilities for employees occupying the Proposed PCC Site in the extremely rare and unlikely event that the Trent tidal defences were to breach. The internal finished floor level of this refuge area will be a minimum level of 4.4m AOD	DCO Schedule 1 (Application Document Ref. 2.1).
Appendix 12B (ES Volume II – Application Document Ref. 6.3)	<p>The Appointed Contractors will be required to prepare a Water Management Plan (WMP), which will be appended to the final CEMP and will include details of pre, during and post-construction water quality monitoring.</p> <p>The programme will include a combination of daily observations and monitoring of upstream and downstream reaches of water features hydrologically-connected to the Proposed Development Site. Monitoring and sampling will be undertaken prior to the commencement of construction so as to allow a sufficient baseline data. The WMP will outline the measures necessary to avoid, prevent and reduce adverse effects where possible on the local surface water and groundwater environment.</p>	DCO Schedule 2 (Application Document Ref. 2.1).
Appendix 12B (ES Volume II – Application	A temporary drainage system will be developed to prevent runoff contaminated with fine particulates from entering surface water drains without treatment. This will cover all land drains and waterbodies within the Proposed Development Site that could be affected. Any discharge to waterbodies	DCO Schedule 2 (Application Document Ref. 2.1).

Reference / Chapter	Commitment	Secured by
Document Ref. 6.3)	(directly or indirectly) will only be made with the consent of the Environment Agency (or relevant sewerage undertaker) and with any agreed treatment measures implemented.	
Chapter 13 (ES Volume I – Application Document Ref. 6.2)	Ground investigation will be undertaken before construction to inform the development of the preliminary and detailed design. The ground investigation will validate the assumptions made in the initial Conceptual Site Model and Preliminary Risk Assessment (Appendix 13A: Phase 1 Desk-based Assessment (ES Volume II - Application Document Ref. 6.3)). Where risks are deemed to be unacceptable, further detailed quantitative risk assessment and if required, detailed remediation strategies will be developed accordingly, pursuant to the process set out by the planning authorities.	DCO Schedule 2 (Application Document Ref. 2.1).
Chapter 13 (ES Volume I – Application Document Ref. 6.2)	A scheme to deal with the contamination of land, including groundwater, likely to cause significant harm, including a risk assessment, supported by site investigation data, to identify the extent of any contamination and the remedial measures to be taken, together with a materials management plan, which sets out long-term measures with respect to any contaminants remaining on the site will be undertaken. The authorised development, including any remediation, must be carried out in accordance with the approved scheme unless otherwise agreed with the relevant planning authority.	DCO Schedule 2 (Application Document Ref. 2.1).
Chapter 14 (ES Volume I – Application	The design of the Proposed Development will seek to minimise adverse impacts on visual amenity through appropriate siting of infrastructure and selection of appropriate materials and colours (in line with EN-1, EN-2, N1, SD8). Suitable materials will be used, where reasonably practical, in the	DCO Schedule 2 (Application Document Ref. 2.1).

Reference / Chapter	Commitment	Secured by
Document Ref. 6.2)	construction of structures to reduce reflections and to assist with breaking up the massing of the buildings and structures. The selection of finishes for the buildings and other infrastructure will be informed by the finishes of the adjacent developments (including Keadby 2 Power Station), in order to reduce the visual impact of the Proposed Development.	
Chapter 17 (ES Volume I – Application Document Ref. 6.2)	Detailed building design will consider water efficiency fixtures and the Proposed Development will include consideration of alternative sources of water, to reduce use of mains water.	Building Regulations (see Schedule of Other Consents and Licences (Application Document Ref. 5.4)).
Chapter 17 (ES Volume I – Application Document Ref. 6.2)	Any marine assets will be designed to UK standards and specifications and all construction works within the (tidal) River Trent will be undertaken in accordance with the requirements of the DML for the Proposed Development; a draft DML has been subject to MMO review and is provided within the draft DCO (Application Document Ref. 2.1).	DCO Schedule 2 (Application Document Ref. 2.1).
Application Document Ref. 5.10 - Landscaping and Biodiversity	Landscape and biodiversity management and enhancement will follow the procedures set out within the Landscaping and Biodiversity Management and Enhancement Plan (Application Document Ref. 5.10).	DCO Schedule 2 (Application Document Ref. 2.1).

Reference / Chapter	Commitment	Secured by
Management and Enhancement Plan		
Application Document Ref. 5.3 – Gas Connection Statement	The gas pipeline (Work No. 1D) connecting the Above Ground Infrastructure (AGI) and or Minimum Offtake Concentration (MOC) to the Low Carbon Electricity Generating Station (Work No. 1A) will be constructed using an open-cut method.	DCO Schedule 2 (Application Document Ref. 2.1).
Operation		
Chapters 1 and 4 (ES Volume I - Application Document Ref. 6.2)	The Applicant would not build the CCGT without the Carbon Capture Plant (CCP) as the Applicant is fully committed to building a generating station which has a clear route to decarbonisation. A specific requirement has been included in Schedule 2 of the Draft DCO to prevent commercial use of the CCGT without the CCP also coming into commercial use.	DCO Schedule 2 (Application Document Ref. 2.1).
Chapter 4 (ES Volume I - Application Document Ref. 6.2)	Where any substance could pose a risk to the environment through its uncontrolled release (e.g. surface water drains), the substance will be stored within appropriate containment facilities including impermeable concrete surfaces and appropriately designed and sized bunds with a volume of 110% of storage capacity.	DCO Schedule 2 (Application Document Ref. 2.1). Health and Safety at Work etc. Act (1974) Control Of Major Accident Hazards Regulations 2015 (COMAH)

Reference / Chapter	Commitment	Secured by
	Where storage of hazardous materials, individually or in-combination exceeds the relevant thresholds, separate permissions will be sought from the Health and Safety Executive (HSE) and local planning authority as appropriate for their storage, under the Planning (Hazardous Substances) Regulations 2015 and Control of Major Accident Hazards Regulations 2015 (COMAH) regimes. All chemical storage will be regulated by the Environment Agency through an Environmental Permit that will be required for the operation of the Proposed Development.	The Environmental Permitting (England and Wales) Regulations 2016
Chapter 4 (ES Volume I - Application Document Ref. 6.2)	The gas turbine selected will be provided with dry low NO _x (DLN) burners to minimise the formation of NO _x .	DCO Schedule 1 (Application Document Ref. 2.1). The Environmental Permitting (England and Wales) Regulations 2016
Chapter 4 (ES Volume I - Application Document Ref. 6.2)	A dedicated absorber stack (or stacks) and a separate Heat Recovery Steam Generator (HRSG) stack will be used, both of which will be fitted with Continuous Emissions Monitoring System (CEMS) instrumentation.	DCO Schedule 1 (Application Document Ref. 2.1). DCO Schedule 12 (Design Parameters) (Application Document Ref. 2.1). The Environmental Permitting (England and Wales) Regulations 2016

Reference / Chapter	Commitment	Secured by
Chapter 4 (ES Volume I - Application Document Ref. 6.2)	The CCP will be designed to be capable of capturing at least 90% of the CO ₂ emitted from the generating station.	The Environmental Permitting (England and Wales) Regulations 2016
Chapters 4 and 11 (ES Volume I - Application Document Ref. 6.2)	Cooling water intake structures would be constructed to comply with the Eels (England and Wales) Regulations 2009 ('the Eels Regulations') which may comprise 2mm eel screens, baffles and fish return system together with intake pipework, a wet well pumping station and chlorination plant.	DCO Schedule 1 (Application Document Ref. 2.1). The Environmental Permitting (England and Wales) Regulations 2016
Chapter 4 (ES Volume I - Application Document Ref. 6.2)	Effluent discharges would be treated and would be regulated by the Environment Agency through the Environmental Permit required for the operation of the Proposed Development.	The Environmental Permitting (England and Wales) Regulations 2016
Chapter 4 (ES Volume I - Application Document Ref. 6.2)	Surface water will be appropriately treated and attenuated prior to discharge to a drain managed by the IDB.	DCO Schedule 2 (Application Document Ref. 2.1).

Reference / Chapter	Commitment	Secured by
Chapter 4 (ES Volume I - Application Document Ref. 6.2)	Maximum design parameters for the Proposed Development will be in accordance with the values presented in Table 4.1 of the ES (Chapter 4 (ES Volume I - Application Document Ref. 6.2)).	DCO Schedule 1 (Application Document Ref. 2.1).
Chapter 4 (ES Volume I - Application Document Ref. 6.2)	A gatehouse and some parking would be provided at the entrance to the Proposed Development Site, off set back from the A18.	DCO Schedule 2 (Application Document Ref. 2.1)
Chapter 4 (ES Volume I - Application Document Ref. 6.2)	A Health and Safety Plan covering the works, commissioning and operation of the Proposed Development will be written. A competent and adequately resourced Construction (Design and Management) (CDM) Coordinator and Appointed Contractors will be appointed. The Applicant will ensure that its own staff, its designers and contractors follow the Approved Code of Practice (ACoP) laid down by the CDM Regulations 2015.	Health and Safety at Work etc. Act (1974) Construction Design and Management Regulations (2015)
Chapter 4 (ES Volume I - Application Document Ref. 6.2)	Written procedures clearly describing responsibilities, actions and communication channels will be available for operational personnel dealing with emergencies. Procedures will be externally audited and contingency plans written in preparation for any unexpected complications.	DCO Schedule 2 (Application Document Ref. 2.1). The Environmental Permitting (England and Wales) Regulations 2016 (as amended)

Reference / Chapter	Commitment	Secured by
Chapters 4 and 18 (ES Volume I - Application Document Ref. 6.2)	<p>The Proposed Development will comply with the Environmental Permitting (England and Wales) Regulations 2016 (as amended) under its Environmental Permit so that any impacts of emissions to air, soil, surface and groundwater, to the environment and human health will be minimised and avoided where possible.</p> <p>Sampling and analysis of pollutants will be undertaken where required including monitoring of exhaust emissions levels using CEMS, prior to discharge from the stacks, in accordance with the Environmental Permit.</p>	The Environmental Permitting (England and Wales) Regulations 2016 (as amended)
Chapter 4 (ES Volume I - Application Document Ref. 6.2)	A Major Accident Prevention Document (MAPD) will be produced during the design process and the Health and Safety Executive will be consulted during the design and planning process.	Control of Major Accident Hazards Regulations 2015 (COMAH)
Chapters 4, 8, 11 and 12, (ES Volume I - Application Document Ref. 6.2)	<p>An Environmental Permit will be obtained from the Environment Agency prior to the operation of the Proposed Development; this will set out the preventative and control measures that must be applied to minimise risks of accidental releases to the environment and also the approach to managing accidents and emergencies in accordance with the use of Best Available Techniques (BAT).</p> <p>The Proposed Development will comply with its Environmental Permit.</p>	The Environmental Permitting (England and Wales) Regulations 2016 (as amended)

Reference / Chapter	Commitment	Secured by
Chapter 4 (ES Volume I - Application Document Ref. 6.2)	The Site will be operated in line with appropriate standards and the operator will implement and maintain an Environment Management System (EMS) which will be certified or accredited to International Standards Organisation (ISO) 14001. The EMS will outline requirements and procedures required to verify that the Site is operating to the appropriate standard.	DCO Schedule 2 (Application Document Ref. 2.1). The Environmental Permitting (England and Wales) Regulations 2016 (as amended)
Chapters 4, 5, 11 and 14 (ES Volume I - Application Document Ref. 6.2), Application Document Ref. 7.1 – Landscaping and Biodiversity Management and Enhancement Plan and Application Document	A detailed lighting scheme will be submitted to the local planning authority for approval prior to installation, designed in accordance with relevant standards and in accordance with the principles set out in Section 4 of the Indicative Lighting Strategy (Application Document Ref. 5.11).	DCO Schedule 2 (Application Document Ref. 2.1).

Reference / Chapter	Commitment	Secured by
Ref. 5.11 – Indicative Lighting Strategy		
Chapter 4 (ES Volume I - Application Document Ref. 6.2) and Appendix 8B: AQ Operation (ES Volume II - Application Document Ref. 6.3)	The CCGT will be fitted with Selective Catalytic Reduction (SCR) using either ammonia or urea, for the abatement of emissions of nitrogen oxides (NOx), to prevent the degradation of solvent within the CCS plant. SCR optimisation will be maintained through monitoring of NOx and ammonia within the exhaust gas.	The Environmental Permitting (England and Wales) Regulations 2016 (as amended)
Chapters 4 and 22 (ES Volume I - Application Document Ref. 6.2)	A Hazardous Substances Consent, and if necessary, a lower tier or upper tier COMAH licence, will be obtained.	Hazardous Waste (England and Wales) Regulations 2005 Control of Major Accident Hazards Regulations 2015 (COMAH)

Reference / Chapter	Commitment	Secured by
Chapters 4, 5 and 18 (ES Volume I - Application Document Ref. 6.2)	Security will be managed to ensure that risks are maintained to as low as reasonably practicable. The approach to security will include: <ul style="list-style-type: none"> • compliance with the Applicant's existing security policies, procedures and arrangements; • controlled vehicular access to the Proposed Development Site from the A18, including new gatehouse(s); • perimeter fencing around the Proposed PCC Site and other work areas, with controlled pedestrian and vehicular access; and • closed circuit television surveillance and intruder alerts. 	DCO Schedule 2 (Application Document Ref. 2.1).
Chapter 5 (ES Volume I - Application Document Ref. 6.2)	A commissioning plan will be agreed with the Environment Agency through the Environmental Permit, which will specify monitoring and control procedures to be used and set out a schedule of commissioning activities.	The Environmental Permitting (England and Wales) Regulations 2016 (as amended)
Chapter 8 (ES Volume I - Application Document Ref. 6.2)	Emissions of amines will be controlled in accordance with the use of Best Available Techniques (BAT) through the use of water wash stages prior to the flue gas exiting the stack; the use of water wash enables solvent that is carried over in the flue gas to be captured and returned to the process for re-use.	The Environmental Permitting (England and Wales) Regulations 2016 (as amended)
Chapter 10 (ES Volume I - Application Document Ref. 6.2)	Chemicals and wastes transported to/ from the Proposed Development Site, where they are deemed to be hazardous, will be transported in fit for purpose vehicles and will comply with existing legal and regulatory duties. Regulation of	? Management documents issued by KGL?

Reference / Chapter	Commitment	Secured by
Document Ref. 6.2)	hazardous loads is currently via the European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR).	
Chapter 12 (ES Volume I - Application Document Ref. 6.2)	The proposed surface water drainage system is to include the use of sustainable drainage systems (SuDS). The drainage system will be designed to be inherently safe and protect the local environment from diffuse pollutants that may be present including through the use of interceptors. Clean surface water runoff will be segregated from contaminated/ potentially contaminated water, which will be directed to the on-site treatment plant or in the case of amine contaminated water for off-site disposal. Gravity drainage is also used wherever practicable.	DCO Schedule 2 (Application Document Ref. 2.1). The Environmental Permitting (England and Wales) Regulations 2016
Chapter 12 (ES Volume I - Application Document Ref. 6.2)	Should the Proposed Development comprise below ground development within strata where groundwater is recorded as present, mitigation measures, including those outlined in British Standard 8102 Code of Practice for Protection of Below Ground Structures Against Water From the Ground will be required to reduce the risk of groundwater flooding to underground structures as is best practice.	DCO Schedule 2 (Application Document Ref. 2.1).
Appendix 12A – FRA (ES Volume II – Application Document Ref. 6.3)	A Flood Emergency Response Plan will be prepared in consultation with the Environment Agency and shall cover emergency situations both during core (24/7) operating hours and over holiday periods. The plan will define access and egress routes from the Proposed Development Site which will include recommendations on the most appropriate route depending on location, signage strategy in and around the area and congregation points. The Plan will include the Proposed Development being registered to receive flood	DCO Schedule 2 (Application Document Ref. 2.1).

Reference / Chapter	Commitment	Secured by
	warnings from the Environment Agency's 'Floodline Warnings Direct' service to inform if there is a risk of flooding from a tidal storm surge type event which could result in overtopping or breach of defences.	
Chapter 12 (ES Volume I - Application Document Ref. 6.2)	The Capture Plant area shall be paved and kerbed/bunded to help avoid uncontrolled surface run-off and contain spillage and leakages from equipment. Amine contaminated water shall not be discharged to any open drain systems. Disposal of degraded amine will off-site at a suitably permitted waste facility.	DCO Schedule 2 (Application Document Ref. 2.1). The Environmental Permitting (England and Wales) Regulations 2016 (as amended)
Chapter 12 (ES Volume I - Application Document Ref. 6.2)	Firewater Run-Off will be controlled and prevented from being discharged to the surface water drains.	DCO Schedule 2 (Application Document Ref. 2.1). The Environmental Permitting (England and Wales) Regulations 2016 (as amended)
Chapter 13 (ES Volume I - Application Document Ref. 6.2)	Operational materials, including chemicals, waste solvent, waste acid (if applicable), fuels and oils (acetylene, lubricating oils, distillate fuels, or other fuels), will be provided with secondary containment appropriate to the level of risk to ensure that in the event of any spillage, the materials are safely contained. Secondary containment will be included in the installed design.	DCO Schedule 2 (Application Document Ref. 2.1).
Chapter 9 (ES Volume I - Application Document Ref. 6.2)	During the detailed design stage, potential significant residual noise effects will be mitigated by location and design. This will include appropriate stack design, use of cladding and shielding where appropriate and, where practical siting of equipment away from site boundaries and NSR.	DCO Schedule 2 (Application Document Ref. 2.1).

Reference / Chapter	Commitment	Secured by
Chapter 9 (ES Volume I - Application Document Ref. 6.2)	The Proposed PCC Site will be operated in accordance with an Environmental Permit, issued and regulated by the Environment Agency. This will require operational noise from the generating station to be controlled through the use of BAT, which will be determined through the Environmental Permit application. It is proposed that operational noise limits will also be secured by a Requirement of the draft DCO (Application Document Ref. 2.1).	DCO Schedule 2 (Application Document Ref. 2.1). The Environmental Permitting (England and Wales) Regulations 2016 (as amended)
Chapter 9 (ES Volume I - Application Document Ref. 6.2)	It is proposed that additional baseline sound level data will be collected at the detailed design stage.	DCO Schedule 2 (Application Document Ref. 2.1).
Chapter 17 (ES Volume I - Application Document Ref. 6.2)	To reduce emissions associated with operational worker commuting, sustainable forms of travel will be promoted including provision of cycle storage areas.	DCO Schedule 2 (Application Document Ref. 2.1).
Chapter 18 (ES Volume I - Application Document Ref. 6.2)	Design of the natural gas systems to relevant industry codes and standards. Compliance with relevant legislation including the Pressure Equipment (Safety) Regulations 2016 and the Pipelines Safety Regulations (PSR). Pipeline safety systems and gas/ liquid pressure regulation to be installed along with operational controls and monitoring. Gas detection systems will be installed at the Proposed Development Site.	DCO Schedules 1 & 2 (Application Document Ref. 2.1). Various additional consents (see Schedule of Other Consents and Licences (Application Document Ref. 5.4)).

Reference / Chapter	Commitment	Secured by
	<p>Fire detection and fire protection systems will be installed, including passive and active fire suppression systems.</p> <p>Provision of emergency access including new access suitable for passing emergency vehicles will be included as described in Section 4.4 of Chapter 4: The Proposed Development (ES Volume I – Application Document Ref. 6.2).</p>	
Chapter 18 (ES Volume I - Application Document Ref. 6.2)	<p>Design of the storage tanks will be to industry codes and standards.</p> <p>Installation of the storage tank(s) within a secondary containment system (bund) will be designed in accordance with CIRIA C736 guidance.</p> <p>Instrumentation and control systems will be installed to monitor tank contents and prevent overflow.</p>	<p>DCO Schedule 2 (Application Document Ref. 2.1).</p> <p>The Environmental Permitting (England and Wales) Regulations 2016 (as amended)</p>
Chapter 18 (ES Volume I - Application Document Ref. 6.2)	<p>Relevant equipment has been located a minimum distance of 50m from the Proposed Development Site boundary and downwind (with respect to the prevailing wind) of all the typically occupied areas (site personnel) and the majority of the equipment.</p> <p>Quantitative risk assessment with dispersion modelling has been undertaken to confirm adequacy of this safeguarding measure for site personnel and general public.</p> <p>Detailed standards and codes of practice written specifically for the design and operation of high pressure CO₂ plant and pipelines are still being developed,</p>	<p>DCO Schedule 2 (Application Document Ref. 2.1).</p> <p>The Environmental Permitting (England and Wales) Regulations 2016 (as amended)</p> <p>Various other consents (see Schedule of Other Consents and Licences (Application Document Ref. 5.4)).</p>

Reference / Chapter	Commitment	Secured by
	<p>therefore industry codes and standards for gas and chemical pipelines will be applied where appropriate.</p> <p>Compliance with PSR 1996 and additional specific safety measures for CO₂ pipelines will apply.</p> <p>The high pressure CO₂ will be managed to specification limits defined by the pipeline operator. The gas composition is linked to the pipeline design (materials of construction) and will be carefully managed to ensure no excursions via monitoring and trips.</p>	
<p>Chapter 18 (ES Volume I - Application Document Ref. 6.2)</p>	<p>Risk assessment has informed the inclusion of an assumed exclusion zone of 140m from the base of the turbine (1.5 x mast height) to mitigate the risk of ice throw/ a turbine falling onto the Proposed PCC Site. Refer to Figure 4.1 (ES Volume III - Application Document Ref. 6.4).</p>	<p>Works Plans (Application Document Ref. 4.3).</p>
<p>Chapter 18 (ES Volume I - Application Document Ref. 6.2)</p>	<p>Further engagement will be undertaken with PD Ports prior to construction to confirm the status of any HSC.</p> <p>Should new developments/ applications for HSC be made either at this site, or in proximity to the Proposed Development site in future, these would need to be sited to prevent domino effects from occurring by following the HSE standard land use planning methodology (PADHI assessment).</p>	<p>Hazardous Substances Consents</p>

Reference / Chapter	Commitment	Secured by
	Consultation will be undertaken with the Health and Safety Executive, local authorities and utility providers to ensure locations of any additional hazardous sites/ assets are identified and that required mitigation is implemented.	
Chapter 18 (ES Volume I - Application Document Ref. 6.2)	<ul style="list-style-type: none"> • A design hazard management plan will be prepared and a number of hazard identification and evaluation assessments (HAZID and HAZOP reviews) will be carried out on the Proposed Development during the design process. This is a standard approach for the identification of hazards and the development of risk mitigation measures for preventing or otherwise minimising hazardous scenarios through appropriate design during the Front End Engineering Design (FEED) studies to be progressed; • Major accident assessments and studies will be prepared over the course of the design development and a Major Accident Prevention Plan (MAPP) will be prepared to inform the application for COMAH Licence, if required for the operational facility; and • The advice provided for high hazard sites relating to security measures (National Counter Terrorism Security Office and Association of Chief Police Officers to prevent trespassers will be considered in the detailed design of the Proposed Development. 	DCO Schedule 2 (Application Document Ref. 2.1).
Appendix 16A: Population and health signposting	<p>Mitigation of any potentially significant effects on workers will be through the application of electromagnetic compatibility industry accepted practice.</p> <p>In accordance with good safety management principles, risks due to Electro Magnetic Fields (EMF) from relevant sources including the substation and electrical connections (above or below ground) will be reduced using the 'as</p>	Construction Design and Management Regulations (2015) Health and Safety at Work etc. Act (1974).

Reference / Chapter	Commitment	Secured by
(ES Volume II – Application Document Ref. 6.3)	low as reasonably practicable' (ALARP) principle. EMF exposure to workers and operational staff will be addressed as part of this assessment. Measures for the protection of workers from potential EMF effects could therefore include risk assessment, engineering and administrative controls, personal protection programmes, and medical surveillance in accordance with the Control of Electromagnetic Fields at Work Regulations 2016 and relevant guidance. In particular, appropriate protective measures will be implemented if exposure in the workplace is predicted to result in the basic restrictions set out within ICNIRP Guidelines (1988) being exceeded	
Application Document Ref. 5.11 – Indicative Lighting Strategy	At the detailed design stage, a computational light modelling exercise will be undertaken. This will demonstrate that the Proposed Development Site will be adequately lit and allow obtrusive light to be suitably controlled, in accordance with this Strategy.	DCO Schedule 2 (Application Document Ref. 2.1).
Application Document Ref. 5.11 – Indicative Lighting Strategy	Within the Proposed PCC Site, lighting would be designed to minimise light disturbance on adjacent sensitive ecological areas including the former Keadby Ash Tip and Stainforth and Keadby Canal, being directed to working areas so as not to illuminate these features, as far as reasonably practicable.	DCO Schedule 2 (Application Document Ref. 2.1).

Reference / Chapter	Commitment	Secured by
Application Document Ref. 5.7 – Combined Heat and Power Readiness Assessment	The Proposed Development will be designed and built to allow for the future implementation of CHP if the identified or potential future heat loads become economically viable.	DCO Schedule 2 (Application Document Ref. 2.1).
Application Document Ref. 5.8 – Carbon Capture Statement and Carbon Capture Readiness Assessment	The Proposed Development will be designed to operate for up to 25 years, after which ongoing operation and market conditions will be reviewed. If it is not appropriate to continue operating after that time, the generating station will be decommissioned.	DCO Schedule 2 (Application Document Ref. 2.1).
Application Document Ref. 7.4 – Outline Written	All archaeological works will be undertaken under the parameters set out in the Outline Written Scheme of Investigation (Application Document Ref. 7.4)	DCO Schedule 2 (Application Document Ref. 2.1).

Reference / Chapter	Commitment	Secured by
Scheme of Investigation		
Decommissioning		
Chapters 4, 8, 9, 11, 12, 13, 17 and 18 (ES Volume I - Application Document Ref. 6.2)	<p>Decommissioning activities will be conducted in accordance with the appropriate guidance and legislation at the time of closure of the Proposed Development. A Decommissioning Plan (including Decommissioning Environmental Management Plan (DEMP)) will be produced within the period specified in the relevant legislation in force at the time of cessation of operations and agreed with the Environment Agency as part of the Environmental Permit and site surrender process. The DEMP will consider in detail all potential environmental risks and contain guidance on how risks can be removed, mitigated or managed. This will include details of how surface water drainage should be managed during decommissioning and demolition.</p> <p>A range of pollution control and mitigation measures similar to those during construction will be put in place to avoid, reduce or minimise the risks. These will include a similar range of measures to those defined in the Framework CEMP and will form part of a Decommission Environmental Management Plan (DEMP).</p>	DCO Schedule 2 (Application Document Ref. 2.1).
Chapter 10 (ES Volume I - Application	At the end of its design life decommissioning of the Proposed Development will see the removal of all above ground equipment down to ground level.	DCO Schedule 2 (Application Document Ref. 2.1).

Reference / Chapter	Commitment	Secured by
Document Ref. 6.2)	<p>Underground infrastructure remains in-situ, all connection and access points will be sealed or grouted to ensure disconnection.</p> <p>The DEMP will consider in detail all potential environmental risks and contain guidance on how risks can be removed, mitigated or managed. This will include details of how traffic should be managed during decommissioning and demolition.</p>	