



# **ENVIRONMENTAL STATEMENT – VOLUME 3 – APPENDIX 5.1 (CLEAN)**

## **Outline Construction Traffic Management Plan Drax Bioenergy with Carbon Capture and Storage**

The Planning Act 2008

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

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# 1. INTRODUCTION

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## 1.1. OVERVIEW

- 1.1.1. This Construction Traffic Management Plan (CTMP) has been prepared in support of the application for development consent in respect of the Proposed Scheme.
- 1.1.2. The CTMP provides a framework for addressing the transport issues associated with the movement of the construction traffic to service the Proposed Scheme, including site access, routing, signage, heavy duty vehicles (HDV) and Abnormal Indivisible Loads (AILs).
- 1.1.3. The purpose of this document is to set out the principles that the Applicant (or their appointed contractor) will follow to manage HDV construction traffic and AIL on the highway network throughout the construction of the project.
- 1.1.4. Separately, a **Framework Construction Worker Travel Plan (CWTP) Appendix 5.2 of Volume 3** (document reference 6.3.5.2, revision 02) sets a framework for encouraging sustainable travel by construction workers.

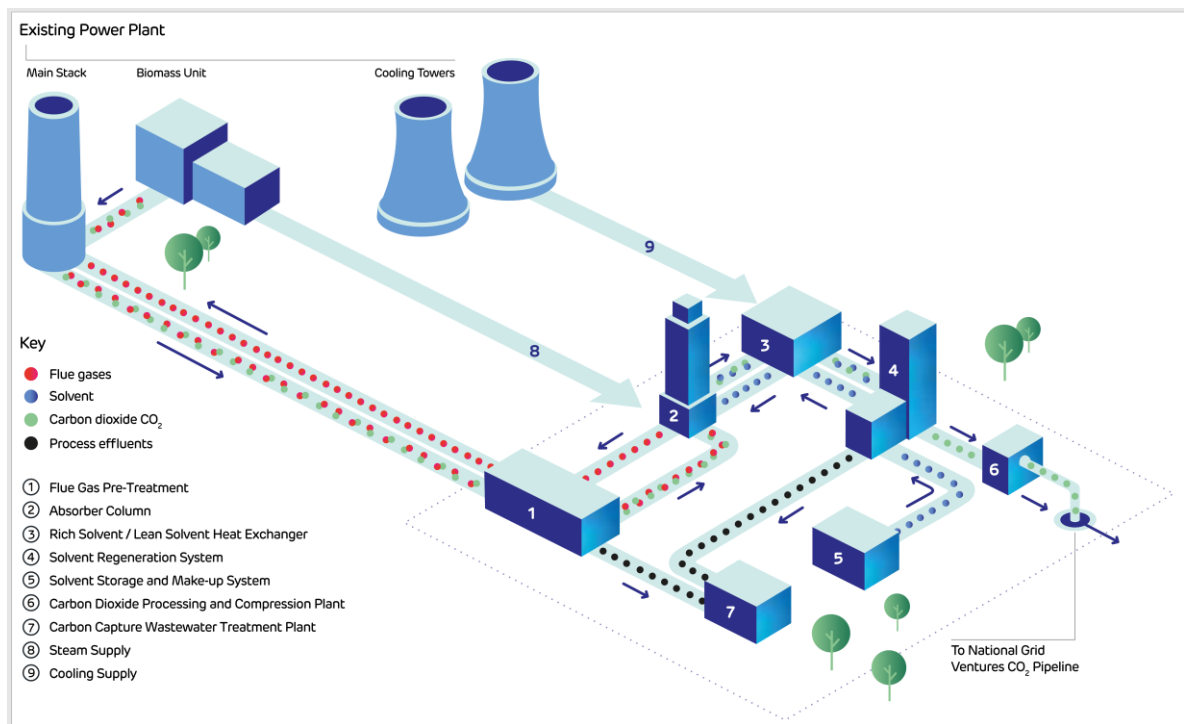
## 1.2. PROJECT DESCRIPTION – THE PROPOSED SCHEME

- 1.2.1. The Proposed Scheme would involve the installation of post combustion Carbon Capture technology to capture carbon dioxide from up to two existing 660 megawatt electrical ('MWe') biomass power generating units at the Drax Power Station (Unit 1 and Unit 2). The Scheme is designed to remove approximately 95% of the carbon dioxide from the flue gas from those two Units. Units 1 and 2 are located in the centre of the Drax Power Station Site (see **Figure 1.2 (Indicative Site Layout Plan)** (APP-057)').
- 1.2.2. The carbon dioxide captured will undergo processing and compression before being transported via a proposed new pipeline for storage under the southern North Sea. Transport and storage infrastructure will be consented through separate applications (see further details on the transport and storage infrastructure below).
- 1.2.3. It is intended that core items of the existing infrastructure at the Drax Power Station are re-used by installing and integrating the Carbon Capture technology onto existing infrastructure including existing power generating units (Units 1 and 2) for extraction of steam, re-using the cooling water systems, Main Stack and electrical connections.
- 1.2.4. The Proposed Scheme is made up of the following:
  - a. Up to two Carbon Capture Plants (one associated with Unit 1 and one associated with Unit 2) (Work No. 1D as described in Schedule 1 of the draft DCO), each made up of:
    - i. Flue gas pre-treatment section (Includes flue gas booster fans (Work Nos. 1D(v) and (vi)), Gas / Gas Heat Exchangers (Work Nos. 1D(v) and (vi)) and Quench Columns (Work Nos. 1D(i) and (ii)));

- ii. One Absorber Column (Work Nos. 1D(i) and (ii));
  - iii. Solvent Regeneration System (to include up to two Regenerators) (Work Nos. 1D(iii) and (iv));
  - iv. Rich Solvent / Lean Solvent Heat Exchangers (Work Nos. 1D(iii) and (iv)); and
- b.** Additional Common Plant infrastructure and modification works to the Drax Power Station that are required to support and integrate with one or both Carbon Capture Plants including:
- i. Solvent Storage and Make-up System (comprising up to four banded solvent storage compounds) (Work No. 1D(vii) in Schedule 1 of the **draft DCO (AS-076)**);
  - ii. Carbon Capture Wastewater Treatment Plant (Work No. 1D(viii) in Schedule 1 of the **draft DCO**);
  - iii. Carbon Dioxide Processing and Compression Plant (Work No. 1E in Schedule 1 of the **draft DCO**);
  - iv. Modification to the existing water pre-treatment plant (Work No. 1A in Schedule 1 of the **draft DCO**);
  - v. Modification, upgrade and extension of the existing cooling system and distribution of cooling water to the Proposed Scheme (Work No. 1B in Schedule 1 of the **draft DCO**);
  - vi. Modifications to existing electrostatic precipitators (Work No. 3 in Schedule 1 of the **draft DCO**);
  - vii. Modifications, upgrade and extension to existing power generating units boilers and turbines for steam extraction and new steam processing infrastructure for distribution of process steam and electricity supply to the Proposed Scheme (Work No. 1C and Work No. 1F in Schedule 1 of the **draft DCO**); and
  - viii. Integral electrical connections within the existing generating station and Carbon Capture Plant including upgrades to the existing electrical infrastructure and new electrical infrastructure for the secondary electrical supply to the Proposed Scheme (Work No. 1F in Schedule 1 of the **draft DCO**);
- c.** Infrastructure to transport compressed carbon dioxide from the Carbon Dioxide Processing and Compression Plant to storage and transport infrastructure operated by National Grid Carbon Limited (Work No. 2 in Schedule 1 of the **draft DCO**);
- d.** Minor vegetation and street furniture management and other works to facilitate access during construction (Work No. 4 in Schedule 1 of the **draft DCO**);
- e.** Additional supporting infrastructure and other works for the Proposed Scheme as set out in Section 2.2.49 (Work No. 3 in Schedule 1 of the **draft DCO**);

- f. Temporary construction laydown areas (Drax Power Station Site Construction Laydown Areas and the East Construction Laydown Area) (Work No. 5 in Schedule 1 of the **draft DCO**); and
- g. Habitat Provision Area (Work No. 6 in Schedule 1 of the **draft DCO**).

1.2.5. A process block flow diagram showing a schematic of the Proposed Scheme is provided in **Plate 1.1 (Process Block Flow Diagram for the Proposed Scheme)**. To help describe the process, a Carbon Capture Plant associated with a single unit has been shown, alongside common plant which would support both a Carbon Capture Plant for Unit 1 and Unit 2. The diagram is a schematic for illustrative purposes only and does not represent the scale or number of equipment items anticipated for the Proposed Scheme.



**Plate 1.1 - Process Block Flow Diagram for the Proposed Scheme**

1.2.6. The Proposed Scheme also includes Work No.7 Flood Compensation Area (FCA) and Work No. 8 Overhead Lines (OHL), as described in **Section 5.1** and **Section 6.1** of the **Proposed Changes Application Report (PCAR)** (AS-045).

### 1.3. DOCUMENT STRUCTURE

1.3.1. The CTMP is divided into the following sections:

- a. **Chapter 2** – Existing Conditions;
- b. **Chapter 3** – Construction Management;
- c. **Chapter 4** – Construction Programme and Working Hours; and
- d. **Chapter 5** – Abnormal Indivisible Loads

## 2. EXISTING CONDITIONS

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### 2.1. HIGHWAY NETWORK

- 2.1.1. Drax Power Station is located in North Yorkshire. Located to the south of the town of Selby, it is accessed from the A645 to the south of the Drax Power Station Site. The A1041 and the A645 serve to connect the power station to the wider road network. The Strategic Road Network is accessed at J36 M62, via A645 and A614 approximately 6 km south east of the Site.
- 2.1.2. Drax Power Station is serviced by road via three secure gated points of vehicular access as follows:
- a. South Gate – a southern site access arrangement situated along the A645 comprising a priority T-junction arrangement, including a right-turn ghost island. A traffic splitter island is provided in the junction mouth of the minor arm to prevent right-turn out vehicle manoeuvres;
  - b. North Gate – a northern site access arrangement situated along New Road comprising a priority T-junction arrangement; and
  - c. Materials Handling Gatehouse Entrance – a northern site access arrangement situated along New Road (approximately 500 m north of the North Gate) comprising a priority T-junction arrangement.
- 2.1.3. The A1041 and the A645 serve to connect Drax Power Station to the wider road network. The Strategic Road Network is accessed at Junction 36 of the M62 (via A645 and A614), approximately 6.0 km to the south east of the Site. The A645 and A614 will also provide access to the areas associated with Work No. 8.
- 2.1.4. Drax Power Station is surrounded by agricultural land. There are businesses and residential properties in the wider area including the settlements of Drax, Camblesforth and Barlow, to the south east, south west and north west respectively, which have all been considered in the proposed scope of the Proposed Scheme.
- 2.1.5. At present, staff and visitors access the Drax Site via the ‘South Gate’ on the A645, whereas site workers, deliveries and HDV traffic make use of the site entrances on New Road to the eastern boundary of the Site.
- 2.1.6. The Drax Power Station Site is also currently served by rail for deliveries of biomass and access to the River Ouse via a jetty located off Redhouse Lane which is of limited use due to its capacity and condition, and is used only very occasionally. The use of rail and the existing Drax Jetty to transport construction materials and AIL to the Site during the construction phase has been considered by the Applicant as part of the alternatives studied but as described in **paragraph 3.6.2 of Chapter 3 (Consideration of Alternatives)** (APP-039) both rail and water were considered and discounted.
- 2.1.7. For access to the Drax Power Station Site, including the area occupied by Work No. 7, it is assumed that any operational related traffic, including HDVs and abnormal

loads, will use the existing access junctions off the A645 and New Road, both of which can accommodate HDV and non-HDV traffic.

- 2.1.8. There are a number of unclassified roads which are located within close proximity to the Site, with Main Road and Carr Lane providing access to neighbouring villages such as Drax and Long Drax, in a west-east direction. Main Road is of varying width alternating from a single carriageway on approach to Drax village before converting into a narrow rural road. Through the settlement the road has a speed limit of 30 mph but increases to the national speed limit along the rural road between Drax and the Redhouse Lane.

## **2.2. PUBLIC RIGHTS OF WAY (PROW)**

- 2.2.1. There are PROW within or adjacent to the Order Limits and these are presented in the **Figure 5.2 (Public Rights of Way Network)** of the **ES (APP-063)**.



## 3. CONSTRUCTION PROGRAMME AND WORKING HOURS

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### 3.1. CONSTRUCTION PROGRAMME

- 3.1.1. The construction programme is described in **paragraph 2.3.4 of Chapter 2 (Site and Project Description)** of the ES (APP-038).
- 3.1.2. Work No. 7 and Work No. 8 will be programmed to take place outside of the peak construction periods.

### 3.2. CONSTRUCTION WORKING HOURS

- 3.2.1. During the construction phases, it is expected that standard working hours will be Mondays to Friday 07:00 to 19:00 with all personnel working a nine hour period within this timeframe.
- 3.2.2. Start-up and shutdown activities would take place in relation to the Proposed Scheme during a one hour window either side of standard working hours. For the purposes of the assessment it has been assumed that all construction worker related trips would arrive between 06:00 and 10:00 and depart between 16:00 and 20:00 (Mondays to Fridays).
- 3.2.3. On Saturdays, working hours will be 07:00 and 13:00. Start-up and shutdown activities would take place in relation to the Proposed Scheme during a one hour window either side of standard working hours.
- 3.2.4. HDV deliveries are anticipated to be spread evenly over the 12-hour working day from 07:00 – 19:00. This is considered to be robust as it doesn't account for HDVs being spread over a 14-hour period between 06:00 – 20:00 on the highway network. Notwithstanding this, HDV movements could be on the highway network prior to 07:00, however, they will be scheduled to arrive after 07:00 to avoid queuing on the local highway network adjacent to Drax Power Station prior to 07:00 when HDVs would be unable to be accepted due to planning restrictions. Working hours outside of these periods, including bank holidays, would be agreed in advance with Selby District Council (SDC) and North Yorkshire County Council (NYCC).
- 3.2.5. Construction working hours associated with Work No. 8 would be programmed to avoid peak periods, where possible, and works requiring full road closures would typically take place at night to minimise the impact on traffic. Any night road closures and associated working hours would be agreed in advance with East Riding of Yorkshire Council (ERoY). NYCC would also be consulted where cross boundary traffic management measures are appropriate (e.g. advanced traffic management signs).

### 3.3. CONSTRUCTION TRAFFIC IMPACTS

- 3.3.1. The construction traffic impacts of the Proposed Scheme are presented in **Section 5.11 of Chapter 5 (Traffic and Transport)** of the ES (APP-041) and the construction traffic impacts of Work Nos. 7 and 8 are presented in the **PCAR**. The construction

methods to minimise the impacts of construction on the local highway network are considered in **Section 4 of this document**.

## 4. CONSTRUCTION TRAFFIC MANAGEMENT

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### 4.1. CONSTRUCTION STAFF PARKING

- 4.1.1. Construction workers will park within the existing 500 car parking spaces available within the Drax Power Station Site and the 300 overflow car parking spaces within the East Construction Laydown Area. The combined capacity of 800 carparking spaces across the two areas will not be required for construction workers with the number of spaces available capped at 450 and a permit system will be implemented. The overflow car park has been included to ensure operational resilience throughout the construction phase and to allow the Applicant to continue to meet the operational requirements of Drax Power Station, such as maintenance outages and day to day operations.
- 4.1.2. The Applicant will monitor parking across Drax Power Station to ensure the cumulative activity (daily operations, Flue Gas Desulphurisation (FGD) demolition, construction phase of the Proposed Scheme, planned periods of maintenance and any other activities) does not exceed the total number of parking spaces available across the whole of Drax Power Station to ensure no indiscriminate parking takes place outside the Site. As the programmes for the cumulative activities are subject to change, it is considered that monitoring parking across Drax Power Station will provide the Applicant with the flexibility required to ensure the cumulative parking demand can be accommodated.
- 4.1.3. The Applicant will proactively manage the construction phase of the Proposed Scheme and incorporate any planned maintenance outages associated with Drax Power Station.
- 4.1.4. In the unlikely event that a peak outage period is planned to overlap with the peak period of construction of the Proposed Scheme, the Applicant will draw upon the travel planning measures contained within the CWTP for the Proposed Scheme. For example, the Applicant is able to provide a greater number of minibuses (a measure set out in the CWTP). In addition, through the procurement process for outage works, the Applicant is able to manage access to site for outage staff, for example, providing a limited allocation of parking spaces to constrain single vehicle occupancy trips. All parties would work together to minimise the impact of outages and the construction of the Proposed Scheme on the local and strategic road networks.
- 4.1.5. Construction worker parking associated with all work packages will be within the East Construction Laydown Area. The Order Limits are shown on **Plate 2-1** and **Plate 2-2** within the **PCAR**.
- 4.1.6. Construction worker parking associated with Work No. 8 will be within the Proposed Area of Works shown on **Plate 6-3** and **Plate 6-4** within the **PCAR**.

## 4.2. CONSTRUCTION LAYDOWN AREA

- 4.2.1. Temporary construction compounds and laydown areas will be required. The main laydown area will be on land to the east of the Drax Power Station Site within the Site Boundary (see **Figure 1.2 (Indicative Site Layout Plan)** (APP-057)). Additionally, it is anticipated that several smaller, local laydown areas within the Drax Power Station Site will be utilised, which are labelled as 'Work No. 5 – Temporary Construction Laydown' as shown on **Sheet 15** of the **Works Plans** (AS-074).
- 4.2.2. During the construction phase a temporary construction site access will be required to the East Construction Laydown Area. The site access will be provided in accordance with CD 123 Geometric design of at-grade priority and signal-controlled junctions, Design Manual for Roads and Bridges (DMRB) (National Highways, November 2021) or other locally agreed design guidance.
- 4.2.3. These laydown areas will be used during construction for the temporary locating of construction offices, warehouses, workshops, open air storage areas and car parking. With the smaller, local laydowns used for fabrication and storage local to the final installation area.
- 4.2.4. It is also proposed that the existing Limestone and Gypsum storage buildings may be used as indoor fabrication areas and may be used as workshop areas once BECCS is operational.
- 4.2.5. The Laydown Area to the east of the Drax Power Station Site will be reinstated to arable use following completion of all construction works.
- 4.2.6. For Work No. 8, the receipt, storage and partial assembly of the project equipment and materials to be installed or construction will be accommodated within the Proposed Areas of Works shown on **Plate 6-3** and **Plate 6-4** within the **PCAR**.

## 4.3. CONSTRUCTION WORKER ROUTES

- 4.3.1. Construction worker journey routes have been estimated using a gravity model weighted on population and distance. Measures to manage arrival / departures are discussed in the **Appendix 5.2 (Construction Worker Travel Plan)**.

## 4.4. HDV ACCESS ROUTES

- 4.4.1. Construction traffic (HDVs) will access the site via J36 of the M62, then the A614, A645 and New Road. HDVs will then split between the North Gatehouse Entrance and the Materials Handling Gatehouse Entrance, depending upon where the final destination of the delivery is required.
- 4.4.2. All HDVs associated with Work No. 7 will use the Materials Handling Gatehouse Entrance. and subsequently the internal roads within the Drax Power Station Site. No physical changes to the public highway are required to facilitate vehicular access to the works associated with Work No. 7.

- 4.4.3. All HDVs associated with Work No. 8 will use the A614 and A645 prior to using either existing accesses or new accesses created on the highway network.
- 4.4.4. Residential settlements within the vicinity such as Camblesforth and Carlton will experience negligible disruption caused by construction related traffic.
- 4.4.5. The proposed access route for HDVs and for ALLs are shown in **Figure 5.5 (HDV Routing)** (APP-066) and **Figure 5.6 (Abnormal Indivisible Load Routing)** (APP-067) of the ES respectively.
- 4.4.6. The impacts of traffic on the access routes for the peak periods of construction related activities have been assessed in the Environmental Statement and there are no significant impacts of using these routes.
- 4.4.7. The Highways Condition Survey will be undertaken prior to commencement of construction from the M62 Junction 36 to Drax Power Station.

## **4.5. SIGNAGE**

- 4.5.1. Appropriate signage to ensure sufficient guidance for construction traffic will be provided, and to ensure that the traffic does not deviate from a specified route. More specifically, this will guide construction traffic in and out of the Construction Laydown areas, and the Drax Power Station Site.
- 4.5.2. Signage will also be used as a means of guiding the construction workers to the designated construction parking bays.
- 4.5.3. The location of signage will be developed as the Proposed Scheme progresses whilst also incorporating the outputs of ongoing consultation with the Local Highway Authority and National Highways.
- 4.5.4. The types of signage required during the construction phase of the Proposed Scheme is likely to include:
  - a.** Construction traffic management signage;
  - b.** General road user management signage (e.g. delays likely and their duration);
  - c.** General road user diversionary routes signage; and
- 4.5.5. All permanent signage required will be designed, installed and maintained in accordance with the Traffic Signs Regulations and General Directions (Department for Transport, 2016). For temporary traffic management, the Traffic Signs Manual Chapter 8 (Department for Transport, 2009) will be followed. All proposed signage will be submitted to the Local Highway Authority and National Highways for approval before being placed on the highway.

## **4.6. PUBLIC RIGHTS OF WAY (PROW)**

- 4.6.1. An assessment of the Proposed Scheme impacts on PRow is presented in the **paragraph 5.9.65 – 5.9.66** of **Chapter 5 (Traffic and Transport)** of the ES and details specific management measures required in relation to the PRow network as a result of the Proposed Scheme.

## **4.7. ACCESS TO HABITAT PROVISION AREAS**

- 4.7.1. Access to create enhanced habitats within agricultural land identified in the order limits would be via existing farm vehicle accesses on New Road and Pear Tree Avenue. Access for hedgerow planting would also be via the public highway and then from existing farm vehicle access locations.

## **4.8. OFF-SITE HABITAT PROVISION AREA**

- 4.8.1. Land to the west of the Drax Power Station Site, which sits outside of the Order Limits will be dealt with through a s106 agreement, and is proposed to be used for ecological mitigation and compensation.
- 4.8.2. Proposals for the northern section, Arthur's Wood, include enhancement of the existing woodland through removal of invasive non-native species and coppicing. For the southern section, Fallow Field, proposals would include allowing scrub to succeed to woodland, enhancing existing scrub and hedgerow to species rich, enhancing grassland to species rich and creating hedgerow. Refer to **Outline Landscape and Biodiversity Strategy** (AS-095) and **Heads of Terms** (AS-016) for further details.

## **4.9. ACCESS TO THE FLOOD COMPENSATION AREA**

- 4.9.1. The FCA (Work No. 7) will be accessed via the Drax Power Station Materials Handling Gatehouse Access via New Road, and then via the internal Drax Power Station access road to the track providing access to the south-west corner of the field via an existing field gate.

## **4.10. ACCESS TO OVERHEAD LINES**

- 4.10.1. Access to the OHLs (Work No. 8) will be from temporary accesses points either existing or created on to the A614 and A645 required for construction and permanent accesses for maintenance.
- 4.10.2. Access to the telecommunications lines will be from temporary accesses either existing or created on the A614 required for taking down lines, restringing works and construction and permanent accesses for maintenance.
- 4.10.3. The working areas for Work No. 8 will include sufficient space to enable vehicles to enter and exit each work area in a forward gear.
- 4.10.4. Further details of the access arrangements to each of OHLs and telecommunications lines are included in **Section 6.1.3** and on **Plate 6-1** and **Plate 6- 2** in the **PCAR** .and shown on the Access and Rights of Way Plans (AS-074).

## **4.11. TRAFFIC MANAGEMENT FOR OHL WORKS**

- 4.11.1. Traffic Management requirements will be implemented to ensure the safety of all road users.

- 4.11.2. To facilitate the construction of Work No. 8 some short-duration temporary traffic management, e.g. traffic lights, may be required to enable the works. Depending upon the width of the road, the construction works may require either a partial road closure with a traffic management system in place to enable single line traffic, or a full road closure with a traffic management system in place to divert traffic as required.
- 4.11.3. Works requiring full road closures would typically take place at night (but not late at night) to minimise the impact on traffic. NYCC would also be consulted where cross boundary traffic management measures are appropriate (e.g. advanced traffic management signs).
- 4.11.4. PRoW AIRMF03 is located adjacent to the Order Limits for the OHL works but sits just outside the Order Limits. Any works for the OHL would be fenced off to ensure the safety of all users of PRoW AIRMF03, however, given the proximity of the PRoW to the fencing, and the lack of any delineating features to guide the public along the definitive route of the PRoW (as shown on the **Access and Rights of Way Plans** - Document Ref 2.4 Rev 03, submitted at Deadline 2), rights have been included for a temporary diversion of a short section of the PRoW, to ensure interference with the fencing is avoided. The Applicant would, however, seek to avoid diverting the footpath if at all possible.

## **4.12. CONSTRUCTION ENVIRONMENTAL MANAGEMENT PLAN**

- 4.12.1. Environmental mitigation required during construction is recorded in a **Register of Environmental Actions and Commitments (REAC)** (AS-092) submitted with the DCO Application. A DCO requirement will ensure measures relevant to construction are included in a Construction Environmental Management Plan (CEMP), to be prepared for the Proposed Scheme before construction begins.
- 4.12.2. This CEMP will detail the environmental controls, environmental protection measures and safety procedures that will be adopted during construction. This will provide a tool to ensure the successful management of the likely environmental effects as a result of construction activities and associated HDV movements.

## **5. ABNORMAL INDIVISIBLE LOADS**

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### **5.1. INTRODUCTION**

- 5.1.1. The Proposed Scheme will require the delivery of a number of AILs for various components. As such, it is important that the CTMP considers adequate transport routes for the AILs and addresses any mitigation measures which may be required to facilitate the deliveries.
- 5.1.2. At this stage of the Proposed Scheme, it is assumed that some AILs will be delivered by road from origins within the UK, or shipped into Goole Inland Port and transferred via road to Drax.
- 5.1.3. For deliveries of AILs from Goole Inland Port, the following route has been determined:
- a.** A161 > M62 > A614 > A645 > Drax Power Station South Gate Entrance
- 5.1.4. Given the stage of the Proposed Scheme, and the required consultation needed to prepare for the delivery of an AIL, the outline process is described in the following sections.

### **5.2. HAULAGE RESPONSIBILITIES**

- 5.2.1. The requirements outlined below will be the new responsibility of the haulage companies during the delivery of AIL components:
- a.** Abnormal load drivers, and their convoy, will be fully aware of the specified access route and will not deviate from this route.
  - b.** Abnormal load deliveries will only take place during the hours agreed with both the Police and Highway Authorities.
  - c.** Peak traffic periods and the school run will be avoided when planning the timing of deliveries both to and from the construction site. AIL deliveries are expected to be at night to minimise traffic disruption.
  - d.** Deliveries during a weekend will be minimised but will take place if this is deemed to be acceptable to both the Police and Highway Authorities.
  - e.** To ensure the safe and effective coordination of the work, written notification of the commencement of the delivery periods will be given to the Police and Highway Authority within an agreed timescale to be agreed with the respective parties.
  - f.** Additional temporary warning signs may be provided on the delivery route for abnormal loads in accordance with the requirements of the Highway Authority.
  - g.** Any modifications, temporary or permanent, to the highway network must be agreed with the Local Highway Authority and National Highways prior to the delivery of AILs.
  - h.** Appropriate temporary signage will be designed, installed and maintained in accordance with the Traffic Signs Manual Chapter 8 (Department for Transport, 2009).



- i. Appropriate permanent signage will be designed, installed and maintained in accordance with the Traffic Signs Regulations and General Directions (Department for Transport, 2016).

### **5.3. NOTIFICATIONS**

- 5.3.1. In order to facilitate the delivery of AILs, it will be the responsibility of the haulage company to contact and inform the following key stakeholders in compliance with regulatory requirements. The haulage company must be able to advise each of the following stakeholders in terms of proposed delivery dates and likely impacts.

#### **EMERGENCY SERVICES**

- 5.3.2. The Police, Fire and Ambulance services should be given written notice of the deliveries, and further daily notifications should be provided in advance of the vehicles leaving the port of entry.

#### **HIGHWAY AUTHORITIES**

- 5.3.3. The respective Highway Authorities should be given advance written notice of the AIL deliveries in compliance with regulatory requirements. The relevant authorities are likely to include National Highways, East Riding of Yorkshire Council, SDC, and NYCC.
- 5.3.4. Updates should be provided on a regular basis as the delivery timetable is finalised with the supplier during the delivery period.
- 5.3.5. National Highways will be consulted on any proposed AIL movement associated with the construction of the Proposed Scheme. A Special Order application will be completed in line with National Highways procedures current at the time (this is usually 10 weeks before the scheduled date of any AIL move).
- 5.3.6. The haulage company will adhere to National Highways "Aide Memoire for notification requirements for the movement of Abnormal Indivisible Loads or vehicles by road when not complying with The Road Vehicles (Construction and Use) Regulations 1986 (commonly known as C & U)" (National Highways, No date) when submitting a Special Order application.
- 5.3.7. The haulage company will use National Highways electronic service for abnormal loads (ESDAL) to:
  - a. Plot the route;
  - b. Notify the police, highways and bridge authorities of the abnormal load movements around the network;
  - c. Get advance notice of any possible route problems; and
  - d. Save vehicle details and routes for future use.
- 5.3.8. No works to the Strategic Road Network will be undertaken prior to agreement with National Highways.

## **LOCAL RESIDENTS**

- 5.3.9. Relevant and timely information should be provided to local residents affected during the delivery of the AILs four weeks and one week prior to the commencement of the deliveries.
- 5.3.10. The preferred method and channels for communicating with residents will be determined at a later date. At this stage, it is proposed that communication should provide residents with the following key information:
- a.** Name and contact details of the Construction Site Manager(s);
  - b.** Name and contact details of the relevant Supplier Site Manager(s);
  - c.** The date on which the deliveries will begin;
  - d.** The anticipated duration of the delivery period;
  - e.** Formal request for residents to keep the necessary sections of the highway clear of parked vehicles during the delivery period; and
  - f.** Emergency contact details for both the Local Police.

## **LOCAL SERVICES**

- 5.3.11. Every effort will be made to work with local service providers to ensure disruption caused by AIL deliveries is avoided. Services of particular relevance include, but are not limited to, the following items:
- a.** Local buses;
  - b.** Refuse collection; and
  - c.** Regular goods deliveries.
- 5.3.12. Contact with these service providers should be made by the site manager two weeks in advance of planned AIL deliveries taking place.

## **PLANNED ENGINEERING WORKS**

- 5.3.13. Through working with the local Highway Authority, planned engineering works which conflict with the AIL delivery route times should be identified. Discussions will then focus on minimising and, where possibly avoiding, any disruption to the local community during the planned engineering works.

## **LOCAL COMMUNITY EVENTS**

- 5.3.14. Through close working with the local council, the developer will identify any conflicts with school and nursery drop off and pick up locations and times. Where possible, the AIL deliveries will be scheduled to avoid these busy periods and minimise the level of disruption in the local area.
- 5.3.15. All events within the local community which are planned or notified will be considered by the developer when scheduling AIL deliveries. The site manager will contact the relevant stakeholders two weeks in advance of scheduled deliveries to ensure that all issues are considered, and that necessary mitigation measures are implemented.

## **5.4. HIGHWAY CONDITION SURVEY**

- 5.4.1. A highway condition survey will be carried out along the whole route ahead of the first AIL delivery, and after the final AIL. The survey will be provided to National Highways for review prior to the first AIL delivery as part of the discussions informing the Special Order application.
- 5.4.2. Any road maintenance issues or damage deemed to be attributable to the AIL will be rectified, and the road will be returned to its former condition.
- 5.4.3. The Applicant and the haulage company will engage closely with National Highways before undertaking any surveys or other works on the Strategic Road Network. The details of works, relevant safety risks associated with any works will be identified, and appropriate mitigations will be agreed with National Highways prior to commencement.

## **5.5. MITIGATION**

- 5.5.1. A swept path analysis and 3D survey of the route has been undertaken and indicates where street furniture needs to be removed, overhead lines lifted or switched off, and vegetation pruned (see the **Access and Rights of Way Plans**). In addition to road modifications, traffic management would also be required.
- 5.5.2. Discussions have been held with National Highways, North Yorkshire County Council and East Riding of Yorkshire Council to understand the likely logistics with AILs from the Port of Goole via the M62, and Statements of Common Ground have been prepared with these parties to incorporate the agreed positions. Further detailed assessment would be undertaken to determine the exact temporary mitigation required for the M62, and other local required temporary mitigations, as well as the agreement of traffic management and coordination of the delivery with National Highways and Local Authorities.
- 5.5.3. Maintenance associated with the temporary works will be informed by the highway condition survey. Maintenance could include vegetation pruning, pot hole repairs etc.

## 6. REFERENCES

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Department for Transport. (2009). Chapter 8 Traffic Safety Measures and Signs for Road Works and Temporary Situations. In *Traffic Signs Manual* . Queen's Printer and Controller of HMSO 2009.

Department for Transport. (2016, May). DfT Circular 01/2016 The Traffic Signs Regulations and General Directions 2016. London, United Kingdom.

National Highways. (No date). *Aide Memoire for notification requirements for the movement of Abnormal Indivisible Loads or vehicles by road when not complying with The Road Vehicles (Construction and Use) Regulations 1986 (commonly known as C & U)* . Birmingham: National Highways.