

APPENDIX 1

B2.1 Describe the proposed installation and activities and identify the foreseeable emissions to air from each stage of the process (This will include any foreseeable emissions during start up, shut down and any breakdown/abnormal operation)

The proposed sites consist of 3.42 acres and has the potential to handle 30,000 tonnes of coal, coke, petroleum coke and other coal products at any one time.

Process using coal, coke, coal product and petroleum coke as prescribed in section 3.5 Part B in Part 2 of Schedule 1 of the Environment Permitting (England and Wales) Regulations 2016.

Coal, coke, petroleum coke and other coal products are delivered to the site via sheeted road vehicles. The coal, coke, petroleum coke and other coal products are tipped from the road vehicles and stockpiled into designated areas using front end loading shovels.

Stockpiles are inspected regularly during daily operations and dampened by environmental units as required. When weather conditions are such that fugitive dust emissions are likely to occur and for all long term stockpiles a polymer surfactant crusting agent will be used. Road sweepers will be used to keep roadways along routes travelled on the port estate clean.

Screening, blending and crushing of coal, coke, petroleum coke and other coal products shall cease when high wind speeds cause unacceptable dust levels.

Cargo is taken away from the site via sheeted vehicles, the loading is carried out by front end loading shovels with drop heights minimised as far as possible. All loaded vehicles will then pass through a wheel wash prior to leaving site.

Emissions to Air

There shall be no visible emissions or accumulations of particulate matter arising from the process beyond the site boundary shown by the red line on Site Map 1.

ABP will prevent the release of particulate emissions from the site that are harmful, offensive or detrimental to the amenity of the neighbourhood.

B2.2 Once all foreseeable emissions have been identified in the proposed installation activities each emissions should be characterised (including odour) and quantified.

(i) Point Source

There will be no point source emissions anticipated from the site, Emissions from vehicle exhausts throughout operating hours will be expected. Vehicles used regularly on site are operated within manufacturers guidelines, serviced and maintained.

(ii) Fugitive Source

Dust emissions during intake of cargoes from lorries, stockpiling, storage, screening, blending, crushing and despatch to road transport via loading shovels may occur. Emissions will be controlled with the use of water suppression applied by mobile bowsers which are used on existing sites. Stocks will be controlled and profiled in a way that minimises the likelihood of wind entrained dust emissions. When stockpiles are expected to stay undisturbed on site for long periods then a polymer surfactant coating agent will be used.

There is a solid metal **6 foot** fence, which will also provide some protection against wind whipping around and across the site.

All emissions will be regularly monitored from the site by the Humber International Terminal Management team. Daily inspections will be conducted as per the environmental colour coding monitoring process.

Emissions will be controlled with the use of mechanical road sweeper, when required. Lorries will be sheeted as soon as possible after loading and always prior to leaving site through the wheel wash.

Screening, crushing and blending operations will take place only when weather conditions permit.

B2.3 For each emission identified from the installation's activities, describe the current and proposed technology and other techniques for preventing or, where that is not practicable reducing the emissions into the air. If no techniques are currently used and the omission goes directly to the environment without abatement or treatment, then this should be stated.

Fugitive nuisance dust emissions

Storage

- A wind speed and direction indicator shall be maintained on the Port and information shall be retained and made available for inspection by an authorised officer of the authority.
- Regular weather forecasts shall be made and reported using the ABP Dust Suppression Hazard Code Identifier. A current seven-day, pro-active colour code is to be updated and placed on the Environmental Action Board.
- The on-site speed limit for all vehicles shall be 10mph.
- Vehicles not concerned with product handling or maintenance shall not be allowed access to working areas.
- Exhaust emissions from mobile plant shall be directed upwards away from the running surface.
- The stocking area shall be maintained in a sufficiently damp conditions so as to prevent wind entrained dust emissions. A mobile rain-bird facility with the ability to reach stockpiles or water tankers equipped with spray bars and water cannons will be available when required.
- Stocking areas that are not in use shall be wetted or swept clean using wet sweeping.
- All coal product storage areas shall have a consolidated surface which will be kept in good repair.
- Stockpiles shall be clearly delineated to deter vehicles from running over coal at the stock edge.
- Stockpiles shall be progressively compacted and profiled as they are formed. Partly worked stockpiles will be re-contoured as necessary to remove ridges and vertical overhanging faces.
- Stockpile temperatures shall be monitored on a regular basis as agreed with the regulator using an infrared hand-held device. If temperatures reach 50 degC then the hot patches shall be dug out and allowed to cool down.
- Measures shall be taken to prevent dust emissions from stockpiles either by maintaining suitable moisture content, sheeting the stockpiles or by spraying with

surfactants. Propose to use coating agent when required - to be agreed with the Regulator.

- Work on stockpiles shall cease if fugitive wind borne dust emissions are created.

Intake and Out-loading of cargo from site

- All road vehicles carrying coal, coal products or petroleum coke shall either be fully sheeted or of an enclosed body type. Properly fitted tail gates. A requirement to sheet vehicles shall be included in all contracts for road haulage.
- ABP will ensure that all loaded vehicles leaving the site have no obvious damage to the vehicle trailer that would result in the spillage of product.
- Vehicles shall not be overfilled.
- The loading and unloading of road vehicles should be carried out so as to minimise the generation of airborne dust. The free fall of material from conveyors, loading shovels must be kept to a minimum and shall not exceed 6.2 metres.
- All lorries leaving the site shall exit and be washed via the wheel and under body wash. A requirement shall be included in all contracts for haulage.
- Vehicle routes shall be inspected on a continuous basis during normal site operations and necessary remedial action carried out to prevent fugitive dust emissions.
- All roadways and other areas used by vehicles shall be kept in a good state of repair.
- An effective under vehicle washing facility as agreed with the regulator will be available during vehicular movements.

Screening, Crushing and Blending

- Screening, crushing and blending operations shall cease when high wind speeds cause unacceptable levels of dust.
- Screening, crushing and blending operations will not take place on the boundaries.
- All coal, coke, petroleum coke and other coal products being loaded to screening, crushing and blending equipment shall be sufficiently damp to prevent any fugitive dust emissions.
- All machinery shall be examined for a build-up of dusty material prior to use. If any such build-up is found it shall be cleaned immediately.
- Sufficient water shall be available on the Port to operate all dust suppression equipment.

General

- All plant and equipment used in the installation will be serviced and maintained in accordance with manufacturers instructions to prevent fugitive dust emissions to air.
- Details of routine maintenance, servicing and repairs of the plant shall be recorded in the maintenance schedule.

B2.4 Describe the proposed systems to be used in the event of unintentional releases and their consequences. This must identify, assess and minimise the environmental risk and hazards, provide a risk-based assessment of any likely unintentional releases including the use of historical evidence. If no assessments have been carried out, please state.

See Document: [Appendix 2](#)

B2.5 Describe the proposed measures for monitoring of all identified emissions including any environmental monitoring and the frequency, measurement, methodology and valuation procedure proposed eg particulate matter, emissions, odour etc. Include the details of any monitoring which has been carried out which has not been requested in any other part of this application. If no monitoring is proposed for an emission please state the reason.

A rolling 5-day weather forecast for wind speed and direction will be maintained on site and this will be discussed at daily morning meetings. This will be completed using the Met Office website see attached link and recorded on the Environmental Action Plan Log attached. <https://www.metoffice.gov.uk/weather/forecast/gcxc505gn#?date=2021-09-06>

Doc Reference Evidence 1

ABP will ensure that regular visual inspections are made by the site Assistant Operations Manager. In extreme weather conditions additional inspections will take place. The time, location and result of these assessments will be recorded on The Environmental Action Plan Log. An example of Environmental Action Plan Log attached.

Doc Reference: Evidence 1

Alert Scale System – The board will be administered from the office. Staff will be briefed prior to operations starting.

Doc Reference: Evidence 2

Dust gauge monitoring will be agreed with the Regulator. Ambient monitoring may either be by British Standard method or method agreed by the Regulator (sticky-pads).

A minimum of 1 annual audit against permit will be conducted and periodic management inspections conducted to further strengthen environmental monitoring regime.

Doc Reference: No evidence available as not yet completed – new site

B2.6 Provide detailed procedures and policies of your proposed environmental management techniques in relation to the installation activities described.

Associated British Ports, Humber are certified to ISO14001. Certificate attached. Environmental management will be in line with ABP's Environment Policy also attached.

Doc Reference Evidence 4, Evidence 5

ABP environmental management techniques have been developed over a number of years through the management of similar sites on our Ports. This site will be managed by the Humber International Terminal who have 20 years' experience in handling coal products. Attached Storage and Monitoring Procedure ABP-QMS-FUE-PR008 Version 4 will be updated on approval of this application to include PAD5.

Doc Reference: Evidence 6

The Humber International adhere to the ABP Accident and Incident Recording and Investigation Procedure ABP-COM-PR011 Version 2

Doc Reference: Evidence 7

B5 Additional Information

The site that we wish to have a permit for was previously permitted for the same operation under Permit Reference EP/201100001. This permit was surrendered in 2016.

We are expecting a considerably reduced throughput of coal compared to previous operations on the same site. We have reduced the number of customers and therefore coal volumes due to a serious decline in coal generation within the UK. We are also reducing the footprint of HIT coal storage facility by 30% to facilitate a new undercover storage warehouse.