SPALDING ENERGY EXPANSION

DETAILS OF THE USE OF REVERSING ALARMS
Details Pursuant to Condition (16) of the 2015 Deemed Planning Permission

Background / Purpose of this Document

On 11 November 2010, Consent under Section 36 of the Electricity Act 1989 was granted and a direction that deemed planning permission be granted under Section 90 of the Town and Country Planning Act 1990 was made (the Original Consent and the 2010 Deemed Planning Permission) for a generating station to be known as the Spalding Energy Expansion (SEE) at West Marsh Road, Spalding, Lincolnshire. On 30 October 2015, a variation to the Consent under Section 36C of the Electricity Act 1989 was granted and a direction that the Conditions of the 2010 Deemed Planning Permission be varied under Section 90(2ZA) of the Town and Country Planning Act 1990 was made (the Varied Consent and the 2015 Deemed Planning Permission).

Pursuant to the provisions of Condition 4(2) of the Varied Consent and Condition (53) of the 2015 Deemed Planning Permission, the gas turbine technology option selected for SEE comprises that set out at paragraph 2(a)(ii) of the Varied Consent, namely: *"one* [Combined Cycle Gas Turbine] *CCGT unit including a gas turbine, a heat recovery steam generator (HRSG), a steam turbine with a rated electrical output of up to 645 MW with Open Cycle Gas Turbine (OCGT) unit(s) and associated equipment with a total rated electrical output of less than 300 MW".*

Condition (16) of the 2015 Deemed Planning Permission provides that: *"The commencement of the Development shall not take place until there has been submitted to, approved in writing by and deposited with the Council details of the use of reversing alarms to be fitted to all mobile plant on the Site. The approved reversing alarms shall be utilised on mobile plant throughout the period of the construction and operation of the Development".*

This Document is submitted in order to satisfy the requirement imposed by this Condition, and discharge Condition (16) to allow for the commencement of the Development.

This Document sets out a number of measures relating to the use of reversing alarms for all mobile vehicles / plant / equipment on / at the Site[1].

Details of the Use of Reversing Alarms

Relevant Guidance

These details are based on guidance provided by the Health and Safety Executive (HSE) in HSG144 ('The Safe Use of Vehicles on Construction Sites' (Second Edition, 2009)). This guidance notes (at paragraph 5) that "*the majority of construction transport accidents result from the inadequate segregation of pedestrians and vehicles"* and that "*this can usually be avoided by careful planning* […] *and by controlling vehicle operations during construction work"*. Furthermore "*inadequate planning and control is the root cause off many construction vehicle accidents which often involve: vehicles and their loads striking people, particularly when reversing;* […]*".*

Reversing Alarms

All reversing alarms to be used for mobile vehicles / plant / equipment on / at the Site will:

- Be compliant with the requirements of the 'E-mark'; and,
- Be a continuous beeping activated when reverse gear is engaged.

The precise type and specification will be notified to South Holland District Council (or its successors) in advance of use.

In addition, all reversing alarms:

- Will be kept in good working order;
- Will be loud and distinct enough so that they do not become part of the background noise; and,

[1] The Site comprises the area of land edged red on Figure 61033586-01, Drawing Number 482302-15-01.

- In the case where the audible alarm may not stand out from the background noise, be accompanied by flashing warning lights.

Use of Reversing Alarms

Details on the use of reversing alarms are provided in the guidance under "*safe driving and working practices*". The guidance notes (at paragraph 37) that the objective of these practices is to manage risks arising from the use of vehicles on construction sites and includes practices related to reversing, loading and vehicle signalling.

Based on the guidance, reversing and the associated use of reversing alarms will be in accordance with the following hierarchy of control (reproduction of Table 3 ('Hierarchy of Control for Reversing Operations) of the guidance).

1. Eliminate the Need to Reverse	As far as practicable, implement one-way systems around the Site, and in loading / unloading areas. Provide designated turning areas.
2. Reduce Reversing Operations	As far as practicable, reduce the number of vehicle movements and instruct drivers not to reverse unless absolutely necessary.
3. Segregate Vehicles and Pedestrians	Design vehicle reversing areas which: • Allow adequate space for vehicles to manoeuvre safely; • Exclude pedestrians; and, • Are clearly signed to have physical stops / buffers to warn drivers that they have reached the limit of the safe reversing area.
4. Ensure Safe Systems of Work are Followed	For all mobile plant / vehicles: • Ensure that appropriate warning / alarm devices are fitted; • Ensure that appropriate proximity devices are fitted (to indicate to drivers when there are objects near the vehicle); and, • Minimise restrictions to visibility from the driver's seat, particularly at the sides and rear of vehicle (e.g. fit CCTV, convex mirrors, Fresnel lenses). In addition: • Allow for constant communication between drivers and signallers; • Ensure that any signallers are not put at risk; and, • Ensure all personnel understand the rules on the safe use of vehicles.
5. Provide Warnings / Alarms when Vehicles are Reversing	Ensure reversing warnings / alarms are in good working order, and instruct personnel to keep clear.

Environmental Monitoring and Auditing

Environmental monitoring and auditing is an essential tool to ensure all environmental requirements are achieved and environmental performance is continually improved. An environmental monitoring and auditing programme will be implemented during construction and operation.

Review and Change Control

Construction and operation will be carried out in accordance with this Document unless otherwise agreed in writing with South Holland District Council (or its successors). A review and change control programme will be implemented during construction and operation.