

07 October 2008

Matthew Trigg
RWE Npower
PO Box 546
Worcester
WR4 9FP

Dear Matthew

Former Yorkshire Electricity Board Site, Harborough Hill Road, Barnsley - Noise Assessment for Final Scheme Design

This letter presents the final noise assessment for this project. This assessment has been prepared following recent updates to the scheme design to incorporate the acoustic design advice presented in the WSP Noise Design Advice report dated the 22 September 2008, document reference '12103101/001 Final Report'. This letter report has been prepared to confirm details of the final noise mitigation measures, as required in order to discharge planning condition 12 attached to outline planning permission (ref B/05/1339/BA).

Background

Outline planning permission was granted on the 17th October 2005 for retail development including non food and a small element of food. This permission was subject to a number of conditions.

The reserved matters (Condition 2) include a requirement for Local Authority approval of the development siting, design, external appearance and landscaping of the site. Also, Condition 12 requires that a noise assessment be undertaken for dwellings on Mottram Street, considering potential noise impact from the operational development, and that the results of the completed assessment be used in the design of suitable noise mitigation measures for incorporation into the scheme.

The previously completed noise design advice report, as referenced above, presented the results of a detailed noise impact assessment for an interim scheme design, as well as appropriate noise mitigation options for incorporation into the scheme design. The purpose of this addendum letter report is to confirm the detail of the final mitigation measures that have been incorporated, such that these can be approved by the Local Planning Authority and allow discharge of Condition 12.

The previous report presented an assessment of noise impacts from the following operational noise sources:

- Noise from any future fixed plant items proposed for installation at the site;

WSP Acoustics

The Victoria
150-182 The Quays
Salford
Manchester
M50 3SP
Tel: +44 (0)161 886 2400
Fax: +44 (0)161 886 2402
<http://www.wspgroup.com>
Reg. No: 1152332

WSP Group plc
Offices worldwide

- Noise from deliveries, loading and unloading operations within the proposed vehicle manoeuvre area;
- Noise from the transfer of delivered goods along the rear access way, which was previously an open area between the retail store and the northern boundary.
- Noise from HGV chiller plant, typically associated with refrigerated food deliveries.

Noise Mitigation Design Advice

In summary, the previous noise design advice recommended that the proposed scheme drawings be updated to include acoustic screening between dwellings on Mottram Street, and the proposed vehicle manoeuvre area and rear access way. This screening was required to ensure that the line of sight between upper floor windows of dwellings on Mottram Street, and the vehicle manoeuvre area and access way was fully obscured. Alternatively, it was advised that the rear access way could be fully enclosed, and the manoeuvre area could also be either enclosed, open fronted, or screened with use of a cantilever barrier along the northern site boundary and extending over the manoeuvre area in part.

It was considered that with the above mitigation measures in place, noise impacts at the adjacent properties would be reduced to be of minor significance at worst, or to within specific noise assessment criteria adopted by Barnsley Metropolitan Borough Council.

Mitigation Measures Incorporated

In full accordance with the noise mitigation design advice previously provided, the following noise mitigation measures have been incorporated into the scheme design as illustrated on drawing ref 6935-203 "Roof Plan", prepared by Harris Partnership:

- The previously proposed open rear access way has been fully enclosed by means of a 'green wall and roof system', which will provide full acoustic screening to all dwellings on Mottram Street from noise associated with the transportation of goods from the vehicle manoeuvre area to the retail unit. This wall and roof system will start with a height of circa 3m to the east, rising to a height of 5m at the western end.
- The proposed green wall system will extend around the north-western corner of the proposed vehicle manoeuvre area, and the green roof will be extended over the vehicle manoeuvre area in part, to a height finishing height of 5.5m.
- Noise emission limits have been derived for the control of noise from any future fixed plant items, based on the results of the baseline noise survey, and the guidance contained within BS4142: Method for rating industrial noise affecting mixed residential and industrial areas.

To retain acoustic integrity, the acoustic wall and roof will need to be continuous, imperforate, sealed at the base, and have a superficial density of greater than 12.5kg/m^2 . It is anticipated that the proposed sedum construction would meet this superficial density requirement. It will also be necessary to consider the junction between the wall and roof to ensure acoustic integrity.

In accordance with the previous design advice, with the incorporation of the above measures, there would be no need to limit the hours of operation within the manoeuvre area, or rear access way, as these would be fully screened from the adjacent dwellings on Mottram Street.

Final Noise Impact Assessments

The proposed green wall and roof designs are such that these would fully obscure the line of sights between the upper floor windows of dwellings on Mottram Street, and the proposed vehicle manoeuvre area and rear access way. Therefore, in accordance with the findings of the design advice report, it is predicted that noise impacts at the adjacent properties would range from 'no impact' to 'minor adverse' at worst during daytime, evening and night-time periods.

This letter report, in conjunction with the previously completed noise design advice report meets the requirements of condition 12 of Barnsley Metropolitan Borough Council planning approval reference: B/05/1339/BA.

I trust that this meets with your expectations, but should you have any queries, please do not hesitate to contact me.

Yours sincerely

A handwritten signature in black ink that reads 'James Powlson'.

James Powlson
Principal Acoustic Consultant
DDI: 0161 886 2539