APPENDIX 8B: CONSULTATION WITH NELC ENVIRONMENTAL HEALTH OFFICER

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From: Vicky Thompson (NELC) [redacted]
Sent: 13 July 2018 15:55
To: Sargent, Ruth
Subject: RE: CONFIDENTIAL: Proposed Energy Centre, Stallingborough - Noise Assessment

Dear Ruth,

Thank you for providing information on the proposed methodology for the noise assessment in relation to the Energy Centre, Stallingborough planning application.

Regarding Baseline noise monitoring I can confirm I am happy with the methodology stated along with the locations.

Regarding the Operational Noise and Vibration section I agree to the BS4142: 2014 assessment method and we ask for the rating level to be no more than 5dB above background so the proposed is acceptable.
Will you be providing any information for 1/3 octave levels for the plant and is there to be any comparison against BS8237 criteria (in particular for LAeqmax)?

Happy with the rest of the proposed methods including the construction noise and vibration section.

Regards

Vicky Thompson, Technical Officer, Pollution Control, North East Lincolnshire Council
Municipal Offices, Town Hall Square, Grimsby, DN31 1HU
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From: Sargent, Ruth <ruth.sargent@aecom.com>
Sent: 13 July 2018 11:51
To: Vicky Thompson (NELC) <Vicky.Thompson@nelincs.gov.uk>
Subject: CONFIDENTIAL: Proposed Energy Centre, Stallingborough - Noise Assessment
Importance: High

Good morning Vicky,

Your contact details have been provided by Cheryl Jarvis in the planning department. I hope that you are able to respond to my queries. PLEASE NOTE THAT THE INFORMATION PROVIDED BELOW IS CONFIDENTIAL AT THIS TIME.

AECOM has been commissioned to undertake a noise assessment for a proposed new Energy Centre, for the generation of electricity by combustion of refuse derived fuel (RDF), at land off South Marsh Road, Stallingborough, located adjacent to the South Humber Bank Power Station.

The purpose of this email is to inform you of our proposed measurement and assessment methodologies with a view to gaining your agreement to them. With regards to the measurement methodology, we would appreciate it if you could advise this is suitable as soon as possible as our clients programme requires to undertaken the monitoring over the next few weeks.

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Baseline noise monitoring

To understand the prevailing noise climate we proposed to undertaken noise monitoring at a number of locations representative of the closest noise sensitive receptors to the proposed facility (subject to access), namely residential properties and the Special Protection Area. Please see the attached diagram – long term locations are in red, short-term are in green. Site boundary is in blue.

Long term:

- Primrose Cottage (or Cress Cottage)
- Poplar Farm
- Site boundary of existing site power station site (somewhere along the dotted line, depending on security and any other noise sources which may influence noise climate)

Short-term:

- Edge of estuary (Special Protection Area)
- Mauxhall Farm (for inclusion in the operational traffic assessment)

It is proposed that noise monitoring at the long-term locations will be undertaken over a minimum of 5 days, to include a weekend. The meters will be set to log contiguous periods of 15 minutes and measure the LAeq, LA90 and LAMax parameters.

At the short-term locations, monitoring will be undertaken for a minimum period of one hour with the meter set to log contiguous periods of 15 minutes and measure the LAeq, LA90 and LAMax parameters.

Please can you confirm that our measurement methodology is acceptable, or advise accordingly?

Operational Noise and Vibration

A noise model of the proposed Energy Centre will be produced based on the available information on the equipment to be installed, the operational times, and the building fabric. The model will also include the noise generated by HGV movements and other on-site mobile plant. The predicted noise levels will be compared with the existing measured noise levels and an assessment of the noise impact undertaken using the methodology given in BS 4142: 2014 'Methods for rating and assessing industrial and commercial sound'. We propose that a Rating Level no greater than 5 dB above the average background noise level would be acceptable. Please can you confirm this is acceptable or advise accordingly?

Any change in road traffic noise levels as a result of the operation of the facility will be predicted using the standard methodology outlined in CRTN. The predictions will be based on baseline and with development traffic data. The significance of the impact on road traffic noise levels will be assessed based on a range of relevant guidance including the 'Design Manual for Roads and Bridges: 2011'.

The operation of this type of facility is not a source of significant ground borne vibration. Consequently, operational vibration is scoped out of the assessment.

We would be grateful if you could confirm acceptance of this assessment methodology or advise accordingly.

Construction Noise and Vibration

A construction noise and vibration assessment will be undertaken assuming typical construction activities, plant and operational times as detailed information will not be available until a contractor is appointed. Noise and vibration levels will be predicted using the methodology given in BS 5228: 2009+A1:2014 'Control of noise and vibration from construction and open sites', and the significance of noise impact assessed against the measured ambient noise levels.

Noise increases at sensitive receptors due to any construction traffic on public roads will be calculated according to the methods given in CRTN.

We would be grateful if you could consider our proposed measurement and assessment methodologies and advise as to whether they are suitable. We would also be grateful if you could forward any applicable noise policies that cover the development area.

Thanking you in anticipation.

Kind regards,

Ruth Sargent BSc(Hons) MSc MIOA
Senior Acoustic Consultant, Environment and Ground Engineering
[redacted]

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