PROCEDURE FOR THE MONITORING OF MOBILE PLANT FOR COMPLIANCE WITH CONDITION 18 OF PLANING PERMISSION 2007/1365

1 Introduction

1.1 This statement has been produced to discharge condition 18 of planning permission 2007/1365. This is to be read in conjunction with the approved noise report, Assessment of Environmental noise for DTS by Vibrock Limited, dated 22 September 2007.

The purpose of this statement is to ensure that disturbance due to noise and vibration arising from the development at Former Carlton Colliery is kept to an acceptable level. This will detail the methodology of monitoring the mobile plant to comply with condition 16 which states that:

'All vehicles used on site shall not exceed a sound pressure level of 80dB(A) as measured at a distance of 10 metres, 1.2 metres above ground level under free field conditions or comply with the standards in BS 5228 – Noise on Construction and Open Sites Part 1 1984, whichever is lower.'

2 General Requirements for Noise and Control

2.1 Compliance with BS 5228 'Noise Control on Construction and Open Sites' is expected as a minimum standard. In all instances where alternative working methods exist the minimisation of noise and vibration shall be a prime consideration in the choice of technique and equipment used.

2.2 Construction noise generated during the development phase is assessed using the methodology of BS 5228 - Part 1:1997 '*Noise and Vibration Control on Construction and Open Sites*' which contains guidance on the prediction of noise levels at sensitive receptors from the operation of fixed and mobile noise sources found on construction and other open sites.

2.3 The applicant, DTS Environmental Ltd will be held responsible for ensuring that all plant and equipment, including any which may be on hire, is well maintained, properly silenced and used in accordance with the manufacturer's instructions,as required by the above British Standard.

3 Good Site Practice

3.1 Good site practice and noise management can considerably reduce the noise impact from construction site activities on nearby sensitive receptors. The following measures will be followed by the applicant:

- Only well maintained plant will be operated on site and will be serviced regularly during the restoration works

- Machines and plant that maybe in intermittent use will be shut down between work periods.
- Silencers or mufflers will be utilised and will be properly maintained during the remediation works.
- Mobile plant will be sited as far away from sensitive receptors as possible.
- Material screening bunds will be constructed in the second year of the restoration scheme and these will also act as noise attenuation bunds

4 Noise Monitoring Protocol

4.1 Noise monitoring shall be undertaken with a hand held sound level meter to determine noise levels at specified locations at known times during the working day. The monitoring equipment shall comply with at least BS EN 60804 Type 2 specification, as required by BS 5228: "Noise and Vibration Control on Construction and Open Sites": Part 1:1997.

4.2 All noise monitoring equipment shall be calibrated before and after use to check for calibration drift. It shall be in good working order at all times. All equipment shall be subject to annual calibration by the manufacturer and a certificate of calibration shall be available with the equipment for the purpose of inspection.

4.3 A suitable number of noise monitoring locations shall be established at the site boundary and agreed with the Local Authority, which will be to the rear of the nearest noise sensitive properties on Shaw lane. The readings shall be taken in a free-field location, approximately 1.2 to 1.5 metres above local site ground level. Measurements shall be made in accordance with good acoustical practice, care being taken to avoid the effects of local acoustic screening and acoustic reflections. The calibration level and battery level of the sound level meter shall be recorded at the beginning and end of each monitoring session.

4.4 Adequate background noise levels shall be obtained at all monitoring locations prior to the commencement of construction works.

4.5 Noise monitoring shall be undertaken once a month in the first three months of the works commencing, at each specified monitoring location. Monitoring shall be carried out to assess the activity with the highest potential noise impact.

4.6 All operators of noise monitoring equipment shall be trained and competent to undertake the measurements.

4.8 Prevailing weather conditions (including wind direction and speed, air temperature, incidence of precipitation and degree of cloud cover) shall be recorded with each set of monitoring results.

5 Additional Noise Monitoring

5.1 Where On-Site Trigger level is exceeded by the results obtained at one or more monitoring stations, additional noise monitoring shall be undertaken to establish

whether or not noise levels at nearby sensitive receptors are likely to exceed the Off-Site Trigger Level of 55 dB LAeq, 1-hour or other such level that may be agreed in writing by the local authority.

5.2 This additional monitoring may entail the gathering of data at off site locations which are nearer to the potentially affected sensitive receptors. Alternatively, distance corrections in accordance with standard acoustic practice may be applied if the distribution of noise sources is such that representative predictions may be made.

5.3 Where the results of additional monitoring indicate that the Off-Site Trigger is being exceeded at one or more noise sensitive properties, the site operator shall be notified and advice shall be provided to reduce noise levels so far as is practicable. The remedial actions taken in these circumstances must be noted and reported.

5.4 All results need to be recorded on log sheets. Logged information must include times of day, duration of measurement and details of site activities at the time of monitoring. Log sheets must be signed by the operative and supervisor. Full details of any remedial actions must also be recorded. Where measurements are not taken, this must be recorded and reasons must be given.

6 Conclusions

6.1 Monitoring will be regularly undertaken by the applicant using a hand held meter to a standard as required by BS 5228 to ensure that all mobile plant used on the site shall not exceed a sound pressure level of 80dB(A) as measured at a distance of 10 metres, 1.2 metres above ground level which complies with the standards in BS 5228 Noise on Construction and Open Sites Part 1. Any mobile plant that does not meet the specified noise limit shall be suspended from use on the site until the specified noise limit can be reached.

6.2 The only noise receptive properties to the site are on Shaw Lane and monitoring will be undertaken at the noise monitoring positions shown on the attached plan 2007/1365-03. This will be done on monthly intervals for the first three months and will be at two monthly intervals thereafter unless the Local Authority has received any complaints of noise nuisance. Additional noise monitoring will then be undertaken until the agreed level can be achieved.

6.3 Screening bunds are to be constructed in the second phase of working and these will act as noise attenuation bunds for the duration of the works which will minimise the risk of any noise nuisance occurring at the site.

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