



4 NOISE MANAGEMENT FRAMEWORK

The framework incorporates the following elements:

- Approvals;
- Test period;
- Community consultation program;
- Community Hotline; and
- Alternative accommodation program.

Approvals

This document (the STNMP) is prepared in accordance with the proposed changes to the Operational Environmental Management Plan (OEMP).

The site Development Consent and Environment Protection Licence are proposed to be modified to provide that operational noise limits do not apply when the UPS is operated outside of normal operating conditions, such as for noise tests described in this STNMP, provided that an approved procedure is in place.

The STNMP will be provided to DoP and DECCW for approval prior to commencing a period of testing.

Origin Energy will need to approve the procedure and commit to the noise management framework outlined.

Test Period

Based on the measurement technique described in Section 2 and the uncertainty regarding meteorological conditions, it is proposed that this STNMP cover the period between 15 September 2010 and 22 December 2010. It is also proposed to restrict the testing to a total of no more than four tests during the nominated testing period, with testing occurring on no more than 2 nights in a week.



Community Consultation

Although the potential for noise levels to exceed the WHO Guidelines for sleep disturbance is only expected at the Pine Grove and Wardrobe residences, it is proposed that the following consultation will be conducted with the occupants of all residences described in Figure 3.1, to ensure adequate community awareness:

1. Initial verbal contact with the occupants of each residence in Figure 3.1, to provide details of the measurement plan, duration and possible timing;
2. Contact with occupants of each dwelling approximately 5 days prior to a possible test date to confirm the possibility of a test. Origin will offer the occupants of these dwellings alternative accommodation for the night the test is undertaken;
3. Contact with occupants of each dwelling 24 hours prior to the nominated test date to confirm that the proposed test will proceed.

Community Hotline

A contact number will be available for the full duration of the testing and will be included on all correspondence. The person receiving the calls will be an Origin Energy representative involved in the test procedure and available on the night of the testing. The Uranquinty community consultation number (free call) is: [1800 465 719].

Alternative Accommodation

Notwithstanding that most residents will experience noise levels below the WHO sleep disturbance recommendations, alternative accommodation outside of the influence of the testing will be offered to the occupants of all residences identified in Figure 3.1.



REFERENCES

- [1] Origin Energy Uranquinty Power Pty Ltd, Uranquinty Cross Road, 660MW peak load / high shoulder load gas fired power station.
- [2] The Department of Environment, Climate Change and Water (DECCW) includes the NSW Environment Protection Authority (EPA).

DRAFT



APPENDIX A - WORLD HEALTH ORGANISATION SLEEP DISTURBANCE CRITERIA

Many studies have been undertaken to give some indication of the noise level inside a bedroom that would result in sleep disturbance. The World Health Organisation (WHO) has developed guidelines for community noise in specific environments.

The WHO suggests that the equivalent noise level (L_{eq}) inside bedrooms at night should be limited to 30 dB(A) and the maximum noise level (L_{max}) should be limited to 45 dB(A).

Based on bedroom windows being partially open, the WHO suggests that to achieve the internal levels described above, the equivalent (L_{eq}) and maximum (L_{max}) noise levels outside a bedroom window should be limited to 45 dB(A) and 60 dB(A) respectively.

