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Approaches to Environmental Noise Policy In Australia

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Vol. 24, No. 3 pp 87-90 (1996)

ABSTRACT: Since the 1970s there has been comprehensive noise legislation in most of the States of Australia. Its goal in all cases has been to provide adequate means of controlling unacceptable noise. However significant variations in State approaches to noise control are evident within the details of this noise legislation and associated policy. An international study of the effectiveness of environmental noise policies was undertaken by the Organisation for Economic Co-operation and Development (OECD) in the late 1980s. Eight points were identified in order to prevent further deterioration of the acoustic environment. In this paper Australian approaches to environmental noise policy are examined in the light of the OECD recommendations.

Sleep Disturbance Due to Environmental Noise: A Proposed Assessment Index

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ABSTRACT: Traditional methods of assessing the impact of environmental noise are generally based on the use of "equal-energy" measures of noise exposure, such as $L_{Aeq,24hr}$ or ANEF. These have been derived from studies of the annoyance generated by the noise. This paper presents a proposed methodology for directly assessing the level of sleep disturbance due to intermittent night-time noise, independent of the degree of annoyance caused. The procedure is based on calculation of a Sleep Disturbance Index (SDI) which is numerically approximately equal to the average number of awakenings per night due to the noise. Typical values of SDI would range from less than 0.2, representing a relatively insignificant level of disturbance, to greater than 5, representing a very high level. Details of calculation procedures, and possible criterion values in terms of SDI, are discussed. The use of this methodology in addition to traditional "equal-energy" noise indices should allow for a more comprehensive assessment of the impact of night-time noise on residential communities.

Reducing Aircraft Noise Impact by Sound Insulation of Houses

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ABSTRACT: Aircraft noise is a major environmental issue of concern to people living close to airports. Several thousand houses are situated on land near Sydney (Jungfern Smith airport) which is not considered suitable for new residential development due to high aircraft noise exposure. Aircraft noise reduction provided by existing houses near the Sydney airport has been measured and typical data is presented. Acoustic upgrading measures that can be undertaken to improve the aircraft noise insulation of houses are described. Information on typical costs of acoustic upgrading measures is also given.

Pilkington Float Glass Plant Noise Control

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Acoustic Memoirs - Some Byways

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New PC-based Multi-analyzer System Enhances Productivity

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