

NOISE AND VIBRATION

PURPOSE AND SCOPE

The intent of this document is to eliminate or minimise the risk of noise and vibration impacts as a result of construction related activities on Gamuda Australia (GA) projects / workplaces.

CRITICAL CONTROLS

- Noise and Vibration risks and controls are considered as part of project risk assessments.
- A Construction Noise and Vibration Management Plan (CNVMP) and is developed and approved prior to the commencement of works.
- An Out of Hours Works (OOHW) Permit is in place for all construction works outside of standard construction hours.
- A Construction Noise and Vibration Impact Statement/s (CNVIS or equivalent) is developed and approved, prior to commencing works onsite.
- Respite periods have been established for high noise impact works or activities (e.g., jack hammering, rock breaking, rock hammering, vibratory rolling) during standard construction hours.
- A Construction Noise and Vibration monitoring program is in place.
- Plant and equipment are regularly maintained to original equipment manufacturer (OEM) requirements. Defective plant and equipment are stood down, repaired and/or replaced.
- Regular inspections are completed and recorded for all Noise and vibration aspects.
- All relevant personnel are informed of the noise and vibration requirements.

Note: The above controls are to be read in conjunction with the Regulations, Standards and Codes listed below.

REGULATIONS, STANDARDS AND CODES

- British Standard BS 6472-2008, 'Evaluation of human exposure to vibration in buildings (1- 80Hz)
- British Standard 7385: Part 2-1993 'Evaluation and measurement of vibration in buildings'
- German Standard DIN4150-1999 Structural vibration Part 3: Effects of vibration on Structures
- Protection of the Environment Operations Act 1997 (POEO Act) (NSW)
- Protection of the Environment Operations (Noise Control) Regulation 2017
- NSW Interim Construction Noise Guideline (ICNG), Dept of Environment and Climate Change 2009
- NSW Road Noise Policy, Dept. of Environment, Climate Change and Water 2011
- NSW Assessing Vibration – a technical guideline (AVTG), Department of Environment and Conservation 2006
- Environmental Protection (Noise) Policy 2019 (Queensland)
- Environmental Protection (Noise) Regulations 1997 (WA)
- Environment Protection Act 1993 (SA)
- Environment Protection (Noise) Policy 2007 (SA)
- Environmental Management and Pollution Control Act 1994 (Tasmania)

INTEGRATED MANAGEMENT SYSTEM
CRITICAL RISK STANDARD
NOISE AND VIBRATION



- Waste Management and Pollution Control Act 1998 (Northern Territory)
- Environment Protection Act 1997 (ACT)
- Environment Protection Regulation 2005 (ACT)

FORMS AND CHECKLISTS

- **GA-FRM-HSE-154** Environment and Sustainability Inspection