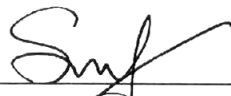
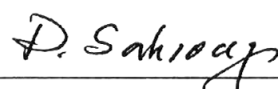


Sarinthorn Suksaard 2007: The Effect of Aircraft Noise on University Students' Hearing. Master of Science (Sustainable Land Use and Natural Resource Management), Major Field: Sustainable Land Use and Natural Resource Management, Interdisciplinary Graduated Program. Thesis Advisor: Associate Professor Panapa Saksoong, Ph.D. 121 pages.

Aircraft noise is one of environmental problems from land use for airport which affects residences and educational institutes nearby it. This research work determined the Leq 24 hrs and the NEF value at Ratchapat Panakorn University, located close to Donmueng International Airport, in order to forecast the effect of aircraft noise on King Mongkut's Institute of Technology Ladkabang when Suvarnabhumi International Airport functions. The derived Leq 24 hrs and the NEF at Ratchapat Pranakorn was 67.9 dB(A) and about 40 respectively while the Leq 24 hrs and the forecast NEF at Ladkabang was 57.5 dB(A) and about 30-35 respectively. The Difference in Leq 24 hrs between the two institutes was about 10.4 dB (A) suggests that there will be noise effect after the new airport was in use. On the other hand, the average noise dose records, at 8 hrs exposure duration of year I-IV student samples of Ratchapat students were generally higher than those of Ladkabang except for those of third year student samples. Fortunately, these dose levels did not exceed the standards and thus caused no harmful effect on hearing but interfered with teaching and learning activities and caused annoyance.



Student's signature



Thesis Advisor's signature



24th May 07