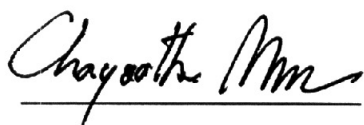
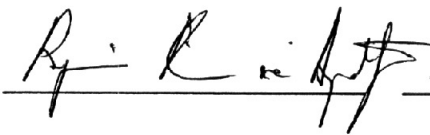


Chayooth Markwattansuk 2006: The Application of Semi-quantitative Risk Assessment to Identify Critical Task and Set Up Measures for Proactive of Safety in Hydro Power Construction Department, EGAT. Master of Engineering (Safety Engineering), Major Field: Safety Engineering, Interdisciplinary Graduate Program. Thesis Advisor: Assistant Professor Prapaisri Sudasna -na- Ayudthya, Ph.D. 135 pages.
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The objective of this study is to utilize the Semi Quantitative Risk Assessment methodology by considering the 3 primary factors which are the severity, probability and frequency for evaluated the risk level. This study use for indicated the critical or high risk work of the hydro power construction section, EGAT. In addition it can be used for safety measure and critical inventory for controlling the severe damage.

The result from this root cause analysis of the accident in the hydro power construction section was conducted by using selected workers who have more than 15 years experienced. The results shown that from 23 occupations, they have 118 critical works out of 244 works. These 118 critical works were identified to have urgent protective measures to protect and control the severe damage. Therefore, urgent 445 measures were established. In comparing with the Semi Quantitative Risk Assessment result, it has shown that the same critical works resulted from insufficient safety measures. This study can be applied as a tool for safety measure and can be used for several organization occupations and works to identify the critical work and establish the effectively protective measures.


Student's signature

 22 / 05 / 2006
Thesis Advisor's signature