

Wassawee Amarittakul 2009: The Adoption of TIS 18001 in Electricity Generating Authority of Thailand: A Case Study of Wang Noi Power Plant. Master of Engineering (Safety Engineering), Major Field: Safety Engineering, Interdisciplinary Graduate Program. Thesis Advisor: Associate Professor Prapaisri Sudasna – na – Ayudthya, Ph.D. 160 pages.

The objective of this research is to study the Adoption of TIS 18001 in Electricity Generating Authority of Thailand (EGAT): A Case Study of Wang Noi Power Plant concentrating on the study of personal factors, TIS 18001 acceptance factors and the correspondence between TIS 18001 and EGAT's organizational culture. One hundred and forty personals of Wang Noi Power Plant were identified and selected as participants in this research. The data were collected by using questionnaires and analysis and analyzed by SPSS 11.5 for Windows program. Statistical method used in this analysis comprised percentage, arithmetic mean, median, standard deviation, Chi Square-test, and One Way ANOVA.

Research finding showed that: at significance level of 5% 1. Gender, age, different duration of employment, level of education, job position, period of holding the post of time, and division and the acceptance of TIS 18001 had not the relation. 2. The correspondence between TIS 18001 and EGAT's organizational culture was significantly related to the adoption of TIS 18001 3. The suitability of TIS 18001 statistically significant related to TIS 18001 acceptance. 4. The statistically significant of IFR, ISR and DI after TIS 18001 implementation was decreased.

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Thesis Advisor's signature

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