

Natthawut Getma 2012: Readiness, Problem, and Guideline for Fire Protection and Extinguishment Plan Case Study: Electrical and Electronic Industry in Pathum Thani Province. Master of Engineering (Safety Engineering), Major Field: Safety Engineering, Faculty of Engineering. Thesis Advisor: Associate Professor Sansanee Supapa, M.S. 194 pages.

This research has been conducted under the objectives of finding the readiness, factors that affect to the level of readiness of each company, existing problems and also proposing the guideline on the fire protection and extinguishment plan. The sample group of this research was focused on 50 electrical and electric industries in Pathumthani province where the disaster rate and number of fire victims have increased rapidly since 2009.

The result indicates that most of the companies have more than 1,000 staff and have run business during 21-30 years. Among all safety standard, ISO 14001 is the most acquired in most companies. There is no difference in the number of company who has and has not received safety award from governor. More than half have operated it business in 2-shift working hour. The average readiness score of sample group is considered as high level and there was low to medium level of problems occurred. The top 3 problems that have been found are 1) The lack of knowledge of the outsiders who visit the place 2) The ignorance on the safety and fire extinguishment of staff and 3) The inefficiency rescue teams, in descending order. The most suitable solution in their opinions is the education or training which should be consistency provided to the outsiders, internal staff, and especially the sufficient practical training for rescue team. The factors that affect most to the preparation of safety system and plan are including TIS 18001 safety standard certification, ISO 14001, work duration, and business operation period at significance level 5%

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