

Poadpai Janpoca, Squadron Leader 2007: Analysis and Fire Risk Assessment for Royal Thai Air Force Residence. Master of Engineering (Fire Protection Engineering), Major Field: Fire Protection Engineering, Interdisciplinary Graduate Program. Thesis Advisor: Associate Professor Surachai Radakarn, Ph.D. 178 pages.

Now a day, most of the buildings must get the construction permit before taking implementation. However, the government buildings especially those belong to the Ministry of Defense are not required to follow the building regulations. Safety audit especially the residential buildings are practically inadequate. When the fire broke out causing the risk both for the life of the lodgers and the assets of the official. This thesis is written for the purpose of study and investigation in one of the Royal Thai Air Force residential buildings. That is an officer's commission condominium which is located in Toongsrigun (building no.3). The investigation are divided into 3 parts. (1) The information and the outside environment of the building; (2) The facility systems of the building; (3) The fire protection systems of the building. The study shall use a revised checklist developed by the Department of Public Works and Town & Country Planning, The Ministry of the Interior. The checklist is used for inspection according to the minimum requirement of the building law.

The research found that the building safety systems are inadequate. The building facilities are damaged and have to be repaired. Most of the fire protection systems are in bad condition and not functioning properly such as, the water-based fire protection system or the automatic fire alarm system. The result of this research come up with the solution for maintenance and improvement of the facility systems of the building and the fire protection systems. The checklist form is also good and workable for the other buildings under the Royal Thai Air Force.

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