

Parita Khongsiroj 2009: Software for Safe Storage of Chemicals and Hazardous Material. Master of Engineering (Environmental Engineering), Major Field: Environmental Engineering, Department of Environmental Engineering. Thesis Advisor: Assistant Professor Narumol Vongthanasunthorn, D.Eng. 122 pages.

This software was developed for the facilities in chemical and hazardous material storage in Thailand. It helps classifying chemical and hazardous materials for safe storage according to related laws in Thailand. The software was constructed by the PHP and JavaScript language using MySQL as the database and use Internet Explorer on Window XP as an operator. The database of the software contains information about chemicals and hazardous materials from related Thai regulations.

Main functions of the software consist of detail of the facility, classification of chemicals/hazardous materials for storage, identification of chemical storage area, request-issue record (warehouse management), specific requirement related to chemical storage.

The program usability test was performed by responsible persons in the selected facility, 9 officers and one of the management who has responsibility for whole plant management. The objective of this test is to get the response from direct and indirect program users. The result shows that all of the testers could operate this program.

The result from index score of questionnaire shows that the software is acceptable by the testers. Therefore the software is usable.

\_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_  
Student's signature                      Thesis Advisor's signature