Incident Cause Analysis Based on Major Accident Database

Keun-Won Lee

Dept. of Safety Engineering Research
Occupational Safety & Health Research Institute, KOSHA

Abstract

This study describes the incident cause analysis of major accident in Korea. Major accident data has been analyzed with a view to understand the profile characteristics of major accident such as a fire, explosion and release. The data was selected 607 accidents at the Major Accident Database Management System (K-ADB) from 1965 to 2003. The coded information from the database were reclassified in terms of the incident cases in order to make a profile of each incident. The data analysis was carried out using the Statistical Package of the Social Science (SPSS). Based on the major accident database, the profile characteristics of major accident are discussed. By analyzing major accident cases of Korea, it is revealed that general countermeasures on major accident prevention should be taken to meet demands of the chemical industries. Finally, the study highlights the characteristics of

incident profile of death/injury by year or season and gives some suggestions.