Chanin Chanpattana 2009: The Study of 80/20 Rule of Pareto Implementation in Occupational Health and Safety Management System of Petrochemical Industry. Master of Engineering (Safety Engineering), Major Field: Safety Engineering, Interdisciplinary Graduate Program. Thesis Advisor: Mr.Witoon Simachokdee, Dr.Ing. 137 pages.

The purpose of this research was to study of 80/20 Rule of Pareto Implementation in Occupational Health and Safety Management System of Petrochemical Industry by used the accidental statistics from factories which have been certified in Occupational Health and Safety Management System by Management System Certification Institute (Thailand), that 's Polystyrene Production Industry Polythylene Production Industry and the others to consider the relationship between the accident that has been occurred in the plant and the types of hazardous whether this follow the 80/20 Rule of Pareto or not?

The result of this research found that the relationship between the accident occurred in the plant and the types of hazardous is not followed the 80/20 Rule of Pareto. However, type of business and the classification of accident would affect to the relationship between accident occurred and the types of hazardous. In which, the business with more employees or classification of accident with more details would make the relationship of the accident occurred in the plant and the types of hazardous closer to the 80/20 Rule of Pareto. This research also found that the principle of Pareto, "In any problem that occurs naturally arise from a variety of reasons and those reasons all this is just a few reasons that plays an important role in the problem if the resolve to attain effectively need to change the main reasons first." This principle could be applied in the Occupational Health and Safety Management System according to the accidental statistics shown that most occurred-accident was from a few types of hazardous.

	/	/
 -	<del></del>	