ABSTRACT

PT. Philips Indonesia is a factory that in the production process has a high potential hazard if not properly managed, this company is using The Dangerous And Toxic Chemical Materials (B3). The accident that happened at PT. Philips Indonesia, one of them was on July 20, 2008 a fire in the GLS Barca Basement area because of cigarette butts. (Source : PT. Philips Indonesia, 2008). Based on the results of the inspection, there are some findings about the placement of Portable Fire Extinguisher (APAR) that is not compliant with existing standards. In addition, based on the Hazard Identification, Risk Assessment, Risk Control (HIRARC) that has been done, there are some activities that have the potential to cause an emergency.

Evaluation Of Evacuation Facility (Emergency Response Plan) must be done to prevent that case, by considering NFPA 101®-2000 and SNI 03-1746-2000. And then, Evaluation Of Fire Extinguisher System has done in accordance with NFPA 10-2002 and PERMENAKERTRANS R.I. No. : PER.04/MEN/1980. The results of this evaluation to compare with existing conditions in the PT. Indonesian Philips. If there is a discrepancy, then performed remedial action in accordance with the standards set out above.

From the results of Evacuation Facility Evaluation, obtained that the total needs of the Emergency Exit on PT. Philips Indonesia is 195 Exits with a Unit Width (525 mm), 15 Exits with 2 Units Width (1050 mm), and an Exit with 3 Units Width (1500 mm). Details Of Emergency Staircase Needs at PT. Philips Indonesia is an Emergency Staircase with 0.55 m Width at Workshop Upper Floor, an Emergency Staircase with 0.55 m Width at MPDL Upper Floor, an Emergency Staircase with 0.55 m Width at Main Office Upper Floor, 5 Emergency Staircases with 1.05 m Width and 3 Emergency Staircases with 0.55 m Width at LCF Upper Floor, and 3 Emergency Staircases with 1.05 m Width and an Emergency Staircase with 0.55 m Width at Basement. Assembly Point at PT. Philips Indonesia was located on the south of building. Total number of fire extinguisher needed PT. Philips Indonesia based PERMENAKERTRANS R.I. No. : PER.04/MEN/1980 is 470 fire extinguishers with Flour Type Of Fire Extinguisher (PG) and BCF Halon No. 1211 with 12 Kg and 1.4 Kg of weight. Total number of fire extinguisher needed PT. Philips Indonesia based on NFPA 10-2002 is 408 fire extinguishers with Multipurpose Type Of Fire Extinguisher/ABC Dry Chemical (Ammonium Phosphate) and Halon 1211 (Bromochlorodifluoromethane) with 4.086 Kg and 9.988 Kg of weight.

Keywords : Evaluation, Emergency Response Plan, Portable Fire Extinguisher.