ABSTRACT

PT. MacGREGOR PLIMSOLL Indonesia is the one of the offshore & deck ship equipment companies. In that production activities many hazard in process, raw material & equipment can cause fire. Therefore, Fire responses are needed to prevent or to minimize the loss & the efforts are applying emergency response plan & using of portable fire extinguisher.

In this final project, the portable fire extinguisher referring to PERMENNAKERTRANS No. PER-04/MEN/1980 and NFPA (National Fire Protection Association) 10 standard for portable fire extinguishers 2002 edition. And emergency response plan refer to NFPA 101 life safety code regulation to become a recommendation in order to improve portable fire extinguisher & emergency response plan in PT. MacGREGOR PLIMSOLL Indonesia are evaluated.

From this evaluation it is known that there are some violation regarding capacity & quantity of portable fire extinguisher with the result that is needed to increase the capacity become 12 Kg & the quantity of portable fire extinguisher is increasing to become 33 cylinder (Refer to Permennakertrans No. PER-04/MEN/1980) or increasing the quantity to become 39 cylinder (refer to NFPA 10 standard for portable fire extinguishers 2002 edition). Exit door at buildings 1, 3, 5, 6 and 7 are not adequate based on NFPA 101 so it’s needed to add one more exit door. While the travel distance at the production area in Building 2 are exceeded based on NFPA 101 so that it’s needed to redesign The meeting point is still difficult to know so that it needs to be completed with the meeting point sign. Besides this company doesn’t have emergency response plan map & emergency response plan procedure so that it needs to built emergency response plan map & emergency response plan procedure in efforts to response the fire at the PT. MacGREGOR PLIMSOLL Indonesia.

Keyword : Portable fire extinguisher, emergency respon plan, ministry of manpower & transmigration, NFPA (National Fire Protection Association)