Fire can happen anytime and anywhere, also at PT Gudang Garam Tbk. Kediri which is the biggest cigarette corporate in Indonesia. Especially in Sigaret Kretek Tangan (SKT) building is not equipped with fire extinguisher system. Therefore, there is need design of fire extinguisher system that appropriate with Permenaker RI No. 04/MEN/1980 and NFPA 10, 1998 for APAR; Perda DKI Jakarta No.3, 1992, NFPA 101, 2000, Safety and Health Environment (SHE Standard), SNI 03-6574-2001, and KEP-186/MEN/1999 for standard of processing Fire Emergency Respon Plan (FERP), also SNI 02.1745.200 as standard design of hydrant system.

From the result of design and evaluation obtained that FERP consist of 10 unit exit, determination of yellow color distribution on exit strip, exit sign design, and assembly area determination in westside building. Whereas result of APAR design and evaluation base on Permenaker RI No.04/MEN/1980 obtained 22 or 9 base on NFPA 10, 1998. Also from the result of hydrant system design obtained water up to 17.055 liters, head 107,467 m, pump capacity 13,504 hp.

Key word : FERP, APAR, hydrant system, exit sign, assembly area, pump capacity.