ABSTRACT

PT. Avia Avian Sidoarjo is a manufacture company which produces various types of paints, adhesives, instant cement, PVC and other products. This study was conducted to analyze the suitability of the active fire protection systems and the life-saving facilities in PT. Avia Avian Sidoarjo by using standard ISO and NFPA as the reference.

This study is a qualitative observational study and observation and interviews is used as the technique of data collection. Moreover, documents review is also used to collect the data. The sampling technique used in this study to determine the informants is purposive sampling. The informants in this study are the Chairman of the Fire and Emergency Response, Health Safety and Environment (HSE), the Team Coordinator of the Fire Department and two Fire Team Members.

The results showed the level of suitability of the active fire protection system is 82.71%. Meanwhile, the level of suitability of the life-saving facilities is 80%.

In conclusion, the active fire protection system and the life-saving facilities in PT. Avia Avian Sidoarjo can be categorized as enough. This means that most of the assessment components have already fulfilled the requirements. However, there are some components which still have not meet the requirements yet.

Keywords: Fire protection system, Fire extinguisher, Hydrant, Sand Pipe and hose system, Life safety, Exit sign, Means of escape, Meeting point