

## ABSTRAK

Kebakaran merupakan peristiwa yang dapat memberikan kerugian baik secara materi maupun non materi, bahkan menimbulkan korban jiwa. Kebakaran terjadi akibat rendahnya sistem proteksi kebakaran pada gedung. Penelitian ini bertujuan untuk mengetahui nilai keandalan sistem keselamatan kebakaran pada gedung AR A dan AR B Universitas Muhammadiyah Yogyakarta serta menjadi acuan penelitian pada gedung lainnya di Yogyakarta. Pada penelitian ini menggunakan acuan Pd-T-11-2005-C dan menggunakan metode analisis penyederhanaan data. Dari penelitian ini dapat disimpulkan bahwa sarana dan prasarana proteksi kebakaran pada gedung AR A dan AR B sudah cukup lengkap dan pemasangannya sudah sesuai dengan persyaratan. Tetapi terdapat juga beberapa indikator prasarana dan sarana yang belum tersedia. Dan diperoleh hasil keseluruhan penilaian sistem proteksi bangunan gedung AR A dan AR B sebesar 83,72% yang tersiri dari nilai kelengkapan tapak 25%, nilai sarana penyelamatan 18,3%, sarana proteksi aktif 19,01%, dan nilai sarana proteksi pasif sebesar 21,01%.

**Kata kunci:** *Kebakaran, Gedung, Sistem Proteksi Bangunan*

*EVALUATION of FIRE PROTECTION SYSTEM in THE OPERATION OF  
CONCRETE STRUCTURE OFFICE BUILDINGS FIVE FLOOR*

**ABSTRACT**

*Fire is an incidentt can provide material and non-material lossen and even can cause casualties.A fire cause by low fire protection system to building. This research aims to know the value of the reliability of the fire safety in the AR B University of Muhammadiyah building as well as being a reference to other buildings in Yogyakarta. In this study using a reference Pd-T-11-2005-C and using descriptive analysis methods.From this study it can be concluded that fire protection facilities and infrastructure in AR B building are quaiite complete and installation is in accordanca with the requirements. But there are also some indicators of infrastructure and facilities that are not yet available. And the overall results of the research of AR B building protection system were 86,74%, which consists of the completeness of the site were 23,75%, rescue facility 22,3%, means of active protection 19,68% and means of passive protection 21,01%.*

*Key words : Fire, building, building protection system.*