

**EVALUATION OF RELIABILITY OF FIRE SYSTEMS BASED ON  
GUIDELINES Pd-T-11-2005-C**

**(Case study At Multazam Haji East Java Province Hospital)**

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**ABSTRACT**

Fire is one of the disasters whose impact can cause quite large losses, especially if it occurs in a hospital, at multazam Haji East Java Province Hospital. To ensure that all available protection systems are always ready for use, it is necessary to evaluate them, one of which is by using the building fire safety inspection guidelines (Pd-T-11-2005-C). This research quantitative observational study. The data collection method was by means of observation, interviews and document review regarding site completeness, rescue facilities, active fire protection systems and passive fire protection systems in at multazam Haji East Java Province Hospital. Results of the assessment of the site completeness sub-component are included in the good category with a value of 23.85%, the rescue facilities sub-component is included in the good category with a value of 25%, the active protection system sub-component is included in the good category with a value of 22,22%, passive protection system sub-components are included in the good category with a value of 26%. So that overall the total results of the assessment of the reliability level of the building safety system against fire are in good condition with a total reliability value of 97,07%.

**Keywords:** Evaluation of Reliability, Fire, Site Completeness, Rescue Facilities, Active Protection System, Passive Protection System, Hospital.

## **EVALUASI KEANDALAN SISTEM KESELAMATAN KEBAKARAN**

### **BERDASARKAN PEDOMAN Pd-T-11-2005-C**

**(Studi Kasus Pada Gedung Multazam RSUD Haji Provinsi Jawa Timur)**

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#### **ABSTRAK**

Kebakaran merupakan salah satu bencana yang dampaknya dapat memberi kerugian yang cukup besar, apalagi jika terjadi di rumah sakit, tidak terkecuali di gedung multazam RSUD Haji Provinsi Jawa Timur. Untuk memastikan seluruh sistem proteksi yang tersedia selalu siap digunakan maka perlu dilakukan evaluasi, salah satunya dengan menggunakan pedoman pemeriksaan keselamatan kebakaran bangunan gedung (Pd-T-11-2005-C). Penelitian ini merupakan penelitian kuantitatif observasional. Metode pengumpulan data dengan cara observasi, wawancara dan telaah dokumen mengenai kelengkapan tapak, sarana penyelamatan, sistem proteksi aktif dan sistem proteksi pasif kebakaran di gedung multazam RSUD Haji Provinsi Jawa Timur. Hasil penilain sub komponen kelengkapan tapak termasuk dalam kategori baik dengan nilai 23,85%, sub komponen sarana penyelamatan termasuk dalam kategori baik dengan nilai 25%, sub komponen sistem proteksi aktif termasuk dalam kategori baik dengan nilai 22,22%, sub komponen sistem proteksi pasif termasuk dalam kategori baik dengan nilai 26%. Sehingga secara keseluruhan total hasil penilaian tingkat keandalan sistem keselamatan bangunan gedung terhadap kebakaran dalam kondisi baik dengan total nilai keandalan 97,07%.

**Kata Kunci** : Evaluasi Keandalan, Kebakaran, Kelengkapan Tapak, Sarana Penyelamatan, Sistem Proteksi Aktif, Sistem Proteksi Pasif, Rumah Sakit.