

ABSTRAK

Fire detection system adalah sistem sensor untuk mendeteksi adanya panas, asap dan api. Sistem ini merupakan salah satu aspek yang menjamin keselamatan dan keamanan pesawat sebagai sistem peringatan dini terhadap bahaya kebakaran. *Fire detection system* terletak pada area yang berpotensi mengalami kebakaran seperti di *engine*.

Penelitian dilakukan dengan melakukan pengamatan pada *testing fire detection system* pesawat DC-9. Hasil pengamatan menyimpulkan bahwa *fire detection system* mengalami putus sambungan antara kabel *electrical connector* pada *sensing element* dengan kabel *ground* yang disebabkan oleh arus pendek pada *sensing element*. *Troubleshooting* dilakukan berdasarkan AMM Chapter 26 tentang *fire protection system* dengan cara menyambungkan komponen *electrical connector* pada *sensing element* ke *ground*.

Setelah dilakukan *troubleshooting*, *fire detection system* sudah dapat bekerja dengan baik. Indikasi *fire detection system* sudah bekerja dengan baik adalah *light loop* pada *fire detector system panel* menunjukkan indikasi visual sesuai dengan *normal operation fire detection system* ketika dilakukan pengetesan *loop*.

Kata kunci : *Fire detection system*, pesawat DC-9, *sensing element*

ABSTRACT

Fire detection system is a system of sensors to detect heat, smoke and fire. This system is one aspect that guarantees aircraft safety and security as an early warning system for fire hazards. Fire detection systems are located in areas that have the potential to experience a fire such as in the engine.

The research was conducted by observing the testing of fire detection systems on DC-9 aircraft. Observations concluded that the connection between the electrical connector in the sensing element and the ground is broken caused by a short current in the sensing element. Troubleshooting is based on AMM Chapter 26 of the fire protection system by connecting the electrical connector component on the sensing element to the ground.

After troubleshooting, the fire detection system could work properly. The indication of the fire detection system has worked well is that the light loop on the fire detector system panel shows a visual indication in accordance with the normal operation of the fire detection system when performing a loop test.

Keywords: Fire detection system, DC-9 aircraft, sensing element