ELECTRICAL POWER SUPPLIES FOR AIRCRAFT RADIO SYSTEMS

1. Introduction
   
   This Notice draws attention to the dangers of operation of aircraft in which the entire radio installation is supplied in a single electrical feeder circuit, the loss of which could significantly affect the safety of the aircraft.

2. Requirements
   
   The electrical feeder arrangements shall be such that:

   (a) Where more than one radio system is installed, no likely single failure (e.g. a fuse or a relay) will result in the loss of all radio systems.

   NOTES:
   (1) It is strongly recommended that such a failure should only result in the loss of one radio system
   (2) The reference to radio system includes any associated audio system.

   (b) Where duplicate radio systems, or radio systems which can duplicate a function, are installed, no likely single failure (e.g. a fuse or a relay) will result in the loss of both systems.

3. Interpretation

   3.1 In examining electrical feeder arrangements to establish compliance with 2, the examination for likely single failures should include:

   (a) The mechanical and electrical aspects of the supply circuit, including the return path of the electrical supply.

   (b) The location within the electrical circuit of fuses, circuit breakers and power switching relays, their physical location in the aircraft and the manner in which they are interconnected.

   (c) Panels for integrated control of radio systems, audio integration systems, and dimmer control equipment for electronic displays.

4. Compliance

   4.1 Single and multi-engined aircraft in the Transport Category: Certificates of Airworthiness will not be issued or renewed unless the aircraft complies with the requirements of paragraph 2.

   4.2 Multi-engined aircraft in other than the Transport Category: Certificates of Airworthiness will not be issued or renewed unless the aircraft complies with the requirements of paragraph 2.

5. Recommendation

   It is strongly recommended that all single-engined aircraft (in addition to those in the Transport Category for which compliance is required) should comply with the requirements of this Notice.

DIRECTOR GENERAL
DEPARTMENT OF CIVIL AVIATION
MALAYSIA.