



GOVERNMENT OF INDIA
CIVIL AVIATION DEPARTMENT
DIRECTOR GENERAL OF CIVIL AVIATION

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AIRWORTHINESS ADVISORY CIRCULAR

F. No. 11-690/CAR Sec/I-VI(Pt)

SUBJECT: Routine Readout and maintenance of CVR units installed on Aircraft.

1. Introduction

- 1.1 CAR Section 2 Series I Part VI details the requirement for installation of Cockpit Voice Recorders, Cockpit Audio Recording System, Combination Recorders and Data link Recorders on aircraft registered in India. Further, Para 7.3 of the CAR requires that Operational checks and evaluations of recordings from the flight recorder systems shall be conducted to ensure the continued serviceability of the recorders and procedure for inspection of flight recorder systems are given in Appendix I of said CAR.
- 1.2 This advisory circular provides guidance for carrying out random sampling of CVR data of aircraft operated by scheduled operator by DGCA. Further this circular also provides guidance for, monitoring and analysis of Cockpit voice recorders installed on other aircraft by DGCA.
- 1.3 It is important to note that this circular is for guidance purpose only and on its own does not change, create, amend or permit deviations from regulatory requirements, nor does it establish minimum standards.

2. Recording Integrity of the CVR units

- 2.1 In order to ensure the recording integrity of the CVR units for carrying out investigation of accidents/incidents and the performance of flight crew with regard to adherence to cockpit checklists, the following actions are required:
 - a) All operators are required to carry out CVR readout at their facilities as per requirements given in this circular for each serial number of the CVR unit operated

by them. Proper records are to be maintained for the readouts carried out which should be authenticated by the Continued Airworthiness Manager (CAM)/Responsible Manager. In addition, all operators are required to send one copy of CD/ DVD containing recording of each CVR (wave files) to DGCA Hqrs. Aircraft Engineering Directorate, New Delhi for technical and operational evaluation of the recordings of each CVR. The CD/DVD should be clearly marked with the following information:

- I. Type, Model and Serial number of CVR unit,
- II. Registration and Type of the aircraft,
- III. Flight number and Date of operation
- IV. Names of flight crew
- V. Confirmation by Continued Airworthiness Manager (CAM)/Responsible Manager that the CVR conforms to the requirements stipulated in CAR Section 2, Series I, Part VI.

- 2.2 Whenever any malfunctioning or unsatisfactory recording is observed during the in-house performance check, immediate corrective action should be taken by the Continued Airworthiness Manager (CAM)/Responsible Manager and proper record of removal and corrective action taken should be maintained.

3. Deactivation of bulk erase facility

The Cockpit voice Recorder have built in bulk erase facility and recordings recorded in the CVR unit can be erased by means of a switch located in the cockpit. To ensure that the recordings in the CVR unit are available at all time for the purpose of monitoring flight crew performance, investigation of incidents/accidents etc.. The bulk erase facility should be deactivated as required vide DGCA Mandatory Modification No DGCA / NEW-MISC /103

Necessary log book entries shall be made in the Radio log book for reflecting the above work done.

4. All operators are advised to note that while proposing the periodicity, nature of maintenance and life of major components of CVR in the Aircraft Maintenance Program, the manufacturer recommendation should be followed The life followed by other operators using similar type of unit by the same manufacturer should be considered to standardize life limitation in respect of equipment's/components.

5. Frequency of CVR Monitoring:-

I. SCHEDULED OPERATORS

DGCA officials (Flight Recorder Lab) may carry out Random sampling of flight data obtainable from the recorders (CVR) installed on various aircraft.

II. **NON SCHEDULED, GENERAL AVIATION & PRIVATE OPERATORS**

CVR monitoring frequency - 1 year

In addition DGCA officials may carry out Random milking from non-scheduled and general aviation operators at any time of choice.

- (ii) The operators may, if required, bring the CVR unit to DGCA Hqrs. on working days for spot evaluation.

- 6. This supersedes Airworthiness Advisory Circular No. 03 of 2004 dated 4th October 2004.

Sd/-
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