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No. CF-93-29

AIRWORTHINESS DIRECTIVE

The following airworthiness directive (AD) may be applicable to an aircraft which our records indicate is registered in your name. ADs are issued pursuant to Canadian Aviation Regulation (CAR) 593. Pursuant to CAR 605.84 and the further details of CAR Standard 625, Appendix H, the continuing airworthiness of a Canadian registered aircraft is contingent upon compliance with all applicable ADs. Failure to comply with the requirements of an AD may invalidate the flight authorization of the aircraft. Alternative means of compliance shall be applied for in accordance with CAR 605.84 and the above- referenced Standard.

This AD has been issued by the Continuing Airworthiness Division (AARDG), Aircraft Certification Branch, Transport Canada, Ottawa, telephone (613) 952-4357.

CF-93-29 CANADAIR

Applies to Canadair Model CL-600-2B19 "Regional Jet" Series 100 aircraft, serial numbers 7003 to 7028.

Compliance is required as indicated, unless already accomplished.

There have been two confirmed incidents of Canadair Regional Jet integrated drive generator (IDG) constant speed drive (CSD) failure. One of these incidents resulted in a subsequent in-flight engine shut-down. Investigation revealed that the retaining ring which restrains the CSD input shaft bearing can become unseated from its positional groove on the input shaft. This could result in loss of IDG oil and subsequent IDG disconnect. In addition, the input shaft could move abnormally, which may cause damage to the engine seal, loss of engine oil and subsequent engine shut-down.

To prevent loss of IDG oil and subsequent IDG disconnect, loss of engine oil and in-flight engine shut-down, accomplish the following:

1. Before further flight after receipt of this directive, insert a copy of this directive into the aircraft flight manual and advise the flight crew of the following:

(a) Both integrated drive generators must be operational for dispatch.

Note: This overrides the current MMEL relief.

(b) If the IDG has been disconnected in flight by the flight crew, the IDG oil level must be checked before next flight:

- If the oil level is below the "ADD" mark, replace the IDG with a serviceable unit, or modify the IDG in accordance with either Canadair Alert Service Bulletin (ASB) A601R-24-015 Revision A dated 1 December 1993, or Canadair ASB A601R-24-016 Revision A dated 3 December 1993, or their later revisions approved by the Director, Airworthiness Branch, Transport Canada, Ottawa.

- If the oil level is above the "ADD" mark, one non-revenue flight is permitted to the nearest maintenance facility to replace the IDG with a serviceable unit, or to modify the IDG in accordance with either Canadair ASB A601-24-015 Revision A dated 1 December 1993, or Canadair ASB A-601R-24-016 Revision A dated 3 December 1993, or their later revisions approved by the Director, Airworthiness Branch, Transport Canada, Ottawa.

2. Initially within 10 flight hours after the effective date of this directive, and subsequently at intervals not to exceed 30 flight hours, check the IDG oil level and replenish as required, in accordance with Canadair ASB A601R-24-015 Revision A dated 1 December 1993, or later revisions approved by the Director, Airworthiness Branch, Transport Canada, Ottawa.

3. Not later than 20 December 1993, incorporate Sundstrand Service Bulletin 755471-24-3 dated 2 December 1993 (reference: Canadair ASB A601R-24-016 Revision A dated 3 December 1993).

Accomplishment of part 3 of this directive constitutes terminating action for the requirements of this directive.

Alternative means of compliance with the requirements of this directive may be used only if approved by the Director, Airworthiness Branch, Transport Canada, Ottawa. Any application should be made to the



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appropriate regional office.

This directive becomes effective 4 December 1993.

Pursuant to CAR 202.51 the registered owner of a Canadian aircraft shall, within seven days, notify the Minister in writing of any change of his or her name or address. To request a change of address, contact the Civil Aviation Communications Centre (AARC) at Place de Ville, Ottawa, Ontario K1A 0N8, or 1-800-305-2059, or <http://www.tc.gc.ca/civilaviation/communications/centre/address.asp>.

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