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No. CF-2002-10 Issue Date 28 January 2002

## 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.

Number: CF-2002-10

## Subject: P&WC PW100 Intercompressor Case Fire

- Effective: 1 March 2002
- Applicability: All Pratt & Whitney Canada (P&WC) PW118, PW120, PW120A and PW121 engines not incorporating P&WC Service Bulletin (SB) 20914, or later revisions. These engines are installed on, but not necessarily limited to, the EMB-120, DHC-8 series 100 and ATR-42 aircraft.
- **Compliance:** At the next scheduled engine shop visit, or before 31 December 2003, whichever occurs first, unless
- **Background:** Since the early 1990s, there have been several incidents of internal oil fires in the intercompressor case (ICC) in certain models of P&WC PW100 series engines. In some incidents, the fire penetrated the ICC and required crew action to extinguish the fire. It has been determined that spontaneous ignition of engine oil (due to the reverse oil flow into the ICC as a result of a no. 5 bearing failure, or oil accumulation in the ICC cavity) can cause an ICC fire. P&WC has issued service bulletin (SB) 20914 to ensure containment of ICC fire.
- **Corrective** Actions: Install the new NL sensor port sealing tube and the P2.5/P3 switching valve air tube assembly in accordance with P&WC SB 20914R4 dated 14 December 2001, or later revisions approved by the Chief, Continuing Airworthiness, Aircraft Certification, Transport Canada.

Authorization: For Minister of Transport

for B. Goyaniuk Chief, Continuing Airworthiness

**Contact:** Mr. Robin Lau, Continuing Airworthiness, Ottawa, telephone (613) 952-4461, facsimile (613) 996-9178 or e-mail laur@tc.gc.ca or any Transport Canada Centre.

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. 24-0022 (01-2001)

