



No.	CF-2008-27	1/1
Issue Date	4 July 2008	

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-2008-27
- Subject:** Fluorescent Lighting System – Lamp Holder Overheating
- Effective:** 31 July 2008
- Applicability:** Applies to all models of Viking Air Limited DHC-7 aircraft, Serial Numbers 1 through 113 with Modifications 7/2444 and 7/2445 incorporated
- Compliance:** As indicated below, unless already accomplished.
- Background:** Transport Canada has received numerous service difficulty reports concerning Viking DHC-7 and Bombardier DHC-8 aircraft fluorescent lamp holder damage due to overheating. It has been determined that lamp holder overheating is a result of arcing between the fluorescent tube pins and the lamp holder contacts when the tube is not properly seated during installation. Overheating of lamp holders, if not corrected, could generate fumes and smoke, causing concern to passengers and crew.

This directive mandates repetitive inspection for proper installation of fluorescent tubes and prohibits installation of non-arc-protected replacement fluorescent lamp ballasts.

- Corrective Actions:**
- A. At the first 'C' check after the effective date of this directive, carry out a visual inspection to ensure the proper installation of fluorescent tubes in lamp holders and carryout associated corrective actions as necessary, according to the Accomplishment instructions of Revision 'NC' of Viking Air Ltd. Service Bulletin (SB) V7-33-01, dated 28 February 2008, or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada.
 - B. Repeat the inspection of paragraph A. above at all subsequent 'C' checks.
 - C. Replacement of all part number (P/N) BAO8006-1 and BA8006-28-1 fluorescent lamp ballasts with P/N BR9000-21 provides terminating action to the repetitive inspection requirements of paragraph B above. The above-noted SB provides instructions for replacing fluorescent lamp ballasts.
 - D. As of the effective date of this directive, no person shall install fluorescent lamp ballasts, P/N BAO8006-1 or BA8006-28-1 on any Viking DHC-7 aircraft as replacement ballasts.

Authorization: For Minister of Transport, Infrastructure and Communities

Derek Ferguson
Acting Chief, Continuing Airworthiness

Contact: Mr. Philip Tang, Continuing Airworthiness, Ottawa, telephone 613-952-4365, facsimile 613-996-9178 or e-mail tangp@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 www.tc.gc.ca/civilaviation/communications/centre/address.asp

