



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

Number:	CF-2008-27R1
Subject:	Fluorescent Lighting System – Lamp Holder Overheating
Effective:	30 March 2009
Revision:	Supersedes Airworthiness Directive (AD) CF-2008-27
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.
	The original issue of this directive mandated repetitive inspection for proper installation of fluorescent tubes and prohibited installation of non-arc-protected replacement fluorescent lamp ballasts.
	Revision R1 of this directive corrects a typographical error of a fluorescent lamp ballast part number.
Corrective Actions:	A. At the first 'C' check after 31 July 2008 (the effective date of the original issue 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 BAO8006-28-1 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 BAO8006-28-1 on any Viking DHC-7 aircraft as replacement ballasts.
Authorization:	For Minister of Transport, Infrastructure and Communities
	Derek Ferguson Acting Chief, Continuing Airworthiness
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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

