



**BIJZONDERE LUCHTWAARDIGHEIDSAANWIJZING  
(BLA)  
NETHERLANDS AIRWORTHINESS DIRECTIVE**

Onder verwijzing naar BLA nr. 68-19-00 en BLA nr. 74-70-00 geeft de directeur Luchtvaartinspectie van de Rijksluchtvaartdienst de volgende Bijzondere Luchtwaardigheidsaanwijzing.

*Under authority of the Netherlands Regulations on the State Control of Aviation the Director Aeronautical Inspection of the Civil Aviation Department gives the following Airworthiness Directive.*

**ENGINE - AUTO-FEATHER UNIT TORQUE SENSORS - REPLACEMENT**

**Description:**

Recently, some incidents have occurred which resulted in autofeather during take-off. This was caused by an open circuit within the LH (no.1) torque sensor, which is connected to the autofeather (AFU) system of the P&WC PW100-series engine. Investigation has shown that the resistance temperature detector (RTD) within the torque sensor was subject to possible stressing of its winding during assembly, which may have led to the open circuit. A failure of this kind in the LH (No.1) position torque sensor may result in an inadvertent autofeather and subsequent propeller overtorque. To prevent further such incidents, this Airworthiness Directive (BLA) requires the replacement of suspect torque sensors.

**Effectivity:**

- \* F.27 Mk.050 aircraft, all serial numbers,  
if P&WC PW100-series engines are installed in pre-P&WC SB No.20934 configuration;
- \* Pratt & Whitney Canada PW100-series spare engines, all serial numbers,  
if in pre-P&WC SB No.20934 configuration.
- \* Simmonds Precision Torque Sensors, P&WC P/N 3108238-01,  
serial numbers 7W022 to 7W371 inclusive.

**Effective date:** November 16, 1990

**Compliance:** required as indicated, unless already accomplished:

- 1) before December 01, 1990, remove all suspect torque sensors from the LH (No.1) position and replace with non-suspect units, if necessary by exchanging for the RH (No.2) position unit;
- 2) before February 01, 1991, replace all remaining affected torque sensors, including units held as spare stock, in accordance with Pratt & Whitney Canada Service Bulletin No.20934, or a later Transport Canada approved revision.

Remarks:

- In respect to Art.88 par.3 of the Civil Air Navigation Regulations, this Airworthiness Directive (BLA) must be accomplished by or under supervision of an approved company.
- All operators of the affected aircraft have been informed directly by the manufacturer, message ref. ME90.61534 dated September 19, 1990.
- Operators may obtain copies of the ref. Service Bulletin upon request from:

Pratt & Whitney Canada, Inc.  
1000 Marie-victorin, Longueuil,  
Quebec J4G 1A1, Canada  
Tel. ()-1-514-677-9411  
Telefax: ()-1-514-647-3374

Note: Address inquiries regarding this AD to:

Department of Civil Aviation  
Aeronautical Inspection Directorate  
P.O. Box 575, 2130 AN Hoofddorp, the Netherlands  
Telex: 74592 rldli nl,  
Telephone: ()-31-(0)2503-63168 or ()-31-(0)2503-63120  
Telefax: ()-31-(0)2503-40741

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