



بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

CIVIL AVIATION DEPARTMENT  
MINISTRY OF TRANSPORT AND CIVIL AVIATION  
Male'  
Republic of Maldives

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## AIRWORTHINESS DIRECTIVE

No. CAD/TPE331/12  
January 8, 2003

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### APPLICABILITY

Applies to all Honeywell International Inc. (formerly AlliedSignal Inc, Garrett Turbine Engine Company and AiResearch Manufacturing Company of Arizona) TPE331-3, -5, -6, -8, -10, and -11 series turboprop engines.

All Serial Numbers

### SUBJECT

Removal of Weld Repaired First Stage Compressor Impellers From Service

### REFERENCE

Federal Aviation Administration, Airworthiness Directive 2002 – 25 – 02

### REASONS

An investigation of an incident involving uncontained TPE331 turboprop engine failure and in-flight shutdown has determined the separation of first stage Ti 6-4 compressor impeller.

The purpose of this AD is to prevent uncontained engine failures, in-flight shutdowns, and secondary damage.

### ACTION

- a) Remove from service weld repaired first stage compressor impellers, P/N's 896223-1, -2, -3 and -7 and 3107109-2, with S/N's listed in the Table 1 and Table 2 of the Accomplishment Instructions in 2.A. (1) and 2.A. (2) of Honeywell Alert Service Bulletin TPE331 – A72-20283, revision 1, dated May 17, 2002, in accordance with the following schedule:
  - I. Remove impellers with no records of cycles since weld repair, within 3,600 cycles-in-services (CIS) or at the next engine overhaul, or at the next major maintenance compressor section inspection, after the effective date of this AD, whichever occurs first.



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- II. Remove impellers with more than 8,900 cycles since “weld repair”, within 3600 CIS or at the next engine overhaul, or at the next major maintenance compressor section inspection after the effective date of this AD, whichever occurs first.
- III. After the effective date of this AD, remove impellers with 8,900 cycles since “weld repair” before reaching 12,500 cycles since weld repair.

**COMPLIANCE**

Compliance is required as detailed above, unless already done.

**EFFECTIVITY**

This Directive becomes effective from January 21, 2003.

Mahmood Razee  
**DIRECTOR GENERAL OF CIVIL AVIATION**