



Directorate General of Civil Aviation

AIRWORTHINESS DIRECTIVE

AD No. 019

Issued/Date: 20.08.2010

No person may operate an aircraft to which an Airworthiness Directive applies, except in accordance with the requirements of that Airworthiness Directive unless otherwise agreed with DGCA or the state of registry, as applicable.

Type Approval Holder's Name

Rotary Wing Research & Design Centre, Hindustan Aeronautics Limited, Bangalore.

Type/Model designation(s)

All Civil variant DHRUV helicopters

TCDS No.: 5-8/96-RD

Foreign AD Number: Not Applicable

Supersedure: None

ATA 29 - 10

HYDRAULIC POWER – Main – One time check on tail rotor actuator

Manufacturer(s):

Helicopter Division, Hindustan Aeronautics Limited, Bangalore

Applicability:

Model number	Serial number
Dhruv (C)	PTC2,
Dhruv (CFW)	DW-28, DW-63, DW-77 and DW-78, DCWF-01 to DCWF-05
Dhruv (CS)	DS-35, DS-51 & DS-65

Reason:

Free play of approximately 5 mm was observed on TRA assembly during 1000 hours inspection. Based on detailed inspection and study, vendor has identified that "PINs" p/n 3101-010 used on TRA p/n 3101-000 from serial number 40 to 145 are not heat treated to the drawing requirement. Existence of this condition significantly reduces the fatigue life and may lead to loss of directional control.

Since an unsafe condition has been identified that is likely to exist on other aircraft of the same type design, this Airworthiness Directive is being issued for carrying out one time check on tail rotor actuator to check serial numbers of TRA installed & the respective hours logged on civil variant ALH (Dhruv helicopter) and submit the compliance certificate to Airworthiness Group of RWR&DC, HAL, Bangalore.

Effective Date:	Within 21 days after final AD issue date.
Compliance:	Carry out one time check and perform the functions on the tail rotor actuator (TRA) as per Alert Service Bulletin No. 201 291 A358, Rev A, dated 15.06.2010, if not already accomplished.
Ref. Publications:	RWR&DC-HAL Alert Service Bulletin No. 201 291 A358, Rev A dated 15.06.2010
Remarks:	<ol style="list-style-type: none"> 1. If requested and appropriately substantiated, Director (AED), New Delhi may accept Alternative Methods of Compliance for this AD. 2. Enquiries regarding this AD should be addressed to Director (AED), Office of the Director General of Civil Aviation, Civil aviation Department, Opposite Safdarjung Airport, New Delhi – 110003. E-mail: lalit.dgca@nic.in. 3. For any questions concerning the technical content of the requirements in this AD/above referred ASB, please contact: Customer Services Department, ALH civil, Helicopter Division, Hindustan Aeronautics Limited, Vimanapura post, Bangalore – 560017. INDIA. Tele-Fax no: +91 -80-2231 3713. Email: csdalh@yahoo.com.

This AD, which prescribes/mandates action to be performed on to helicopters as stated above to restore an acceptable level of safety is hereby issued pursuant to CAR 21.3B. TC holder/ Operators are required to comply with the above stated AD within the stipulated time.

-Sd-

(Lalit Gupta)
Director (AE)
for Director General of Civil Aviation