

Airworthiness Directive

76-317/2 MBB

Affected helicopter type:

Bo 105 (German Type Certificate No. 3025)
All serial numbers.

Date of issue:

January 18, 1977

Subject:

Tail boom assembly

Reason:

Skin cracks in the vicinity of the bearing brackets on the tail boom.

Actions and compliance:

1. During the next postflight inspection after receipt of this AD, after removal of shaft fairings, visually inspect skin of the tail boom (P/N 105-30051) for cracks in the vicinity of the three bearing brackets.
2. Further action depending upon results of this inspection:
 - 2.1 Unlimited operation of the helicopter with inspections in a fifty hours interval, if no cracks are found.
 - 2.2 Further operation of the helicopter after stop drilling (4 mm diameter) the cracks with repetition of inspections in a ten hours interval, provided that not more than one crack is found on each bracket and that the length of these cracks does not exceed approximately 10 mm (0.4 inches).
 - 2.3 In case of cracks propagation proceed in accordance with para 3.
 - 2.4 Ferry flight to a maintenance facility for repair in accordance with para 3 is permissible, if cracks do not exceed approximately 50 mm (2 inches) at not more than two brackets, and not more than one crack per bracket.
 - 2.5 Operation of the helicopter is not allowed when damages exceed the limits stated in paras 2.1 to 2.4 unless damages have been repaired in accordance with para 3.
3. Repair in accordance with standard airframe repair procedures or in accordance with special repair instructions of the manufacturer.
4. Visual inspection for cracks demanded by the Alert Bulletin and the special inspections specified by MOM, Chapter 10, "visual inspections for cracks in the vicinity of bearing brackets on tail boom", are cancelled and need no longer be performed, if the retrofit of modified bearing brackets has been accomplished in accordance with § 2.B of the Alert Service Bulletin.

All Actions are to be accomplished as described in the Alert Service Bulletin.

Technical information of the manufacturer:

MBB Alert Bulletin No.15 which becomes herewith part of this AD.

Accomplishment and log book entry:

Actions to be accomplished by an approved repair station and to be entered and certificated in the helicopter's log.

Note:

Should cracks be found, please forward a short description of the damage together with the serial number of the helicopter and the tail boom as well as the operation time of the tail boom to Messerschmitt-Bölkow-Blohm GmbH, Helicopter division, Service department, p.o. box 801140, D-8000 Munich 80 (telex munich 5287 710).