

with McDonnell Douglas Alert Service Bulletin A54-106, Revision 2, dated November 3, 1994. Repeat this inspection thereafter at intervals not to exceed 1,800 landings.

(b) If any crack(s) is found during any inspection required by paragraph (a) of this AD, prior to further flight, repair in accordance with a method approved by the Manager, Los Angeles Aircraft Certification Office (ACO), FAA, Transport Airplane Directorate.

(c) Accomplishment of the gap inspection and necessary shimming in accordance with "Phase III," as specified in McDonnell Douglas Alert Service Bulletin A54-106, Revision 2, dated November 3, 1994, constitutes terminating action for the inspections required by paragraph (a) of this AD.

(d) An alternative method of compliance or adjustment of the compliance time that provides an acceptable level of safety may be used if approved by the Manager, Los Angeles ACO, FAA, Transport Airplane Directorate. Operators shall submit their requests through an appropriate FAA Principal Maintenance Inspector, who may add comments and then send it to the Manager, Los Angeles ACO.

**Note 2:** Information concerning the existence of approved alternative methods of compliance with this AD, if any, may be obtained from the Los Angeles ACO.

(e) Special flight permits may be issued in accordance with sections 21.197 and 21.199 of the Federal Aviation Regulations (14 CFR 21.197 and 21.199) to operate the airplane to a location where the requirements of this AD can be accomplished.

Issued in Renton, Washington, on January 11, 1995.

**Darrell M. Pederson,**

*Acting Manager, Transport Airplane Directorate, Aircraft Certification Service.*  
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## 14 CFR Part 39

[Docket No. 94-NM-220-AD]

### **Airworthiness Directives; Raytheon Corporate Jets Models DH/BH/HS/BAe 125-1 to -700 Series Airplanes; BAe 125-800A Airplanes; and Hawker 800 Series Airplanes**

**AGENCY:** Federal Aviation Administration, DOT.

**ACTION:** Notice of proposed rulemaking (NPRM).

**SUMMARY:** This document proposes the adoption of a new airworthiness directive (AD) that is applicable to certain Raytheon Corporate Jets Models DH/BH/HS/BAe 125-1 to -700 series, BAe 125-800A, and Hawker 800 series airplanes. This proposal would require replacement of the existing standby static inverter with an inverter that

incorporates a circuit board assembly sealed with a conformal coating. This proposal is prompted by reports of failure of the standby static inverter caused by electrical shorting from moisture condensing on the printed circuit boards (PCB), due to aberrations in the PCB conformal coating. The actions specified by the proposed AD are intended to prevent malfunction of the standby static inverter due to exposure to moisture caused by inadequate insulation coating of the circuit board assembly. Malfunction or failure of the standby static inverter, when its use is necessary, could result in the loss of electric power for certain equipment critical to safety of flight.

**DATES:** Comments must be received by February 27, 1995.

**ADDRESSES:** Submit comments in triplicate to the Federal Aviation Administration (FAA), Transport Airplane Directorate, ANM-103, Attention: Rules Docket No. 94-NM-220-AD, 1601 Lind Avenue, SW., Renton, Washington 98055-4056. Comments may be inspected at this location between 9:00 a.m. and 3:00 p.m., Monday through Friday, except Federal holidays.

The service information referenced in the proposed rule may be obtained from Raytheon Corporate Jets, Inc., 3 Bishops Square, St. Albans Road West, Hatfield, Hertfordshire, AL109NE, United Kingdom. This information may be examined at the FAA, Transport Airplane Directorate, 1601 Lind Avenue, SW., Renton, Washington.

**FOR FURTHER INFORMATION CONTACT:** William Schroeder, Aerospace Engineer, Standardization Branch, ANM-113, FAA, Transport Airplane Directorate, 1601 Lind Avenue, SW., Renton, Washington 98055-4056; telephone (206) 227-2148; fax (206) 227-1320.

#### **SUPPLEMENTARY INFORMATION:**

##### **Comments Invited**

Interested persons are invited to participate in the making of the proposed rule by submitting such written data, views, or arguments as they may desire. Communications shall identify the Rules Docket number and be submitted in triplicate to the address specified above. All communications received on or before the closing date for comments, specified above, will be considered before taking action on the proposed rule. The proposals contained in this notice may be changed in light of the comments received.

Comments are specifically invited on the overall regulatory, economic, environmental, and energy aspects of the proposed rule. All comments

submitted will be available, both before and after the closing date for comments, in the Rules Docket for examination by interested persons. A report summarizing each FAA-public contact concerned with the substance of this proposal will be filed in the Rules Docket.

Commenters wishing the FAA to acknowledge receipt of their comments submitted in response to this notice must submit a self-addressed, stamped postcard on which the following statement is made: "Comments to Docket Number 94-NM-220-AD." The postcard will be date stamped and returned to the commenter.

#### **Availability of NPRMs**

Any person may obtain a copy of this NPRM by submitting a request to the FAA, Transport Airplane Directorate, ANM-103, Attention: Rules Docket No. 94-NM-220-AD, 1601 Lind Avenue, SW., Renton, Washington 98055-4056.

#### **Discussion**

The Civil Aviation Authority (CAA), which is the airworthiness authority for the United Kingdom, recently notified the FAA that an unsafe condition may exist on certain Raytheon Corporate Jets Models DH/BH/HS/BAe 125-1 to -700, BAe 125-800A, and Hawker 800 series airplanes. The CAA advises that it has received reports of failure of the standby static inverter on certain of these airplanes. Failure was caused by electrical shorting from moisture condensing on the printed circuit boards (PCB), due to aberrations in the PCB's conformal coating. Investigation has revealed that certain circuit boards in the inverters have conformal coatings that were applied improperly. The purpose of this coating is to protect the electric/electronic circuits from moisture. Improper coating of the circuit boards can allow moisture to condense on the PCB; this could cause an electrical short that, subsequently, could result in a malfunction or failure of the standby static inverter. This condition, if not corrected, could result in the loss of all alternating current (AC) electric power for equipment that is critical to safety of flight.

Raytheon Corporate Jets has issued Hawker Service Bulletin SB.24-308-7673A, Revision 1, dated July 11, 1994, which describes procedures for removing the existing standby static inverter and replacing it with a printed circuit board assembly that is properly sealed with a conformal coating. The CAA classified this service bulletin as mandatory and issued British airworthiness directive 005-05-94 in order to assure the continued