

# Proposed Rules

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This section of the FEDERAL REGISTER contains notices to the public of the proposed issuance of rules and regulations. The purpose of these notices is to give interested persons an opportunity to participate in the rule making prior to the adoption of the final rules.

## DEPARTMENT OF TRANSPORTATION

### Federal Aviation Administration

#### 14 CFR Part 39

[Docket No. 95-ANE-09]

#### Airworthiness Directives; AlliedSignal Inc. TPE331 Series Turboprop Engines

**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 AlliedSignal Inc. TPE331 series turboprop engines. This proposal would establish cyclic retirement lives for certain compressor components. This proposal is prompted by manufacturer's engine testing and analysis that indicate that if these compressor components continue in service without an established retirement life, accumulative cyclic effects may result in a fatigue failure. The actions specified by the proposed AD are intended to prevent fatigue failure of engine compressor components and an inflight engine shutdown.

**DATES:** Comments must be received by August 18, 1995.

**ADDRESSES:** Submit comments in triplicate to the Federal Aviation Administration (FAA), New England Region, Office of the Assistant Chief Counsel, Attention: Rules Docket No. 95-ANE-09, 12 New England Executive Park, Burlington, MA 01803-5299. Comments may be inspected at this location between 8:00 a.m. and 4:30 p.m., Monday through Friday, except Federal holidays.

The service information referenced in the proposed rule may be obtained from AlliedSignal Engines Data Distribution, Dept. 6403/2102-1M, P.O. Box 29003, Phoenix, AZ 85038-9003; telephone (602) 365-2493, FAX (602) 365-2210. This information may be examined at the FAA, New England Region, Office of

the Assistant Chief Counsel, 12 New England Executive Park, Burlington, MA.

**FOR FURTHER INFORMATION CONTACT:** Joseph Costa, Aerospace Engineer, Los Angeles Aircraft Certification Office, FAA, Transport Airplane Directorate, 3960 Paramount Blvd., Lakewood, CA 90712-4137; telephone (310) 627-5246; fax (310) 627-5210.

#### 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 should 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 95-ANE-09." 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, New England Region, Office of the Assistant Chief Counsel, Attention: Rules Docket No. 95-ANE-09, 12 New England Executive Park, Burlington, MA 01803-5299.

##### Discussion

Following an analysis of the AlliedSignal Inc. Model TPE331-14GR

and TPE331-14HR turboprop engines tieshaft aft thread form, the Federal Aviation Administration (FAA) has determined that main shouldered shafts (tieshafts) and forward coupling shafts (stub shafts), installed on AlliedSignal Inc. Models TPE331-14A, -14B, -14F, and -15AW turboprop engines, are subject to a fatigue limit. Engine testing and analysis indicate that if these compressor components, which were previously certified as having unlimited service lives, continue in service without established retirement lives, fatigue failure may result. This condition, if not corrected, could result in fatigue failure of engine compressor components and an inflight engine shutdown.

The FAA has reviewed and approved the technical contents of AlliedSignal Inc. Service Bulletins (SB's): No. TPE331-A72-7128, dated June 10, 1994, No. TPE331-A72-7129, dated June 10, 1994, and No. TPE331-A72-7522, dated February 17, 1995, that describe main shouldered shaft (tieshaft) cyclic life limits; and No. TPE331-72-7130, dated June 17, 1994, No. TPE331-72-7131, dated June 17, 1994, and No. TPE331-72-7523, dated February 17, 1995, that describe forward coupling shaft (stub shaft) cyclic life limits.

Since an unsafe condition has been identified that is likely to exist or develop on other products of this same type design, the proposed AD would establish cyclic retirement lives for main shouldered shafts (tieshafts) and forward coupling shafts (stub shafts). The actions would be required to be accomplished in accordance with the SB's described previously.

There are approximately 200 engines of the affected design in the worldwide fleet. The FAA estimates that 150 engines installed on aircraft of U.S. registry would be affected by this proposed AD, that it would take approximately 80 work hours per engine to accomplish the proposed actions, and that the average labor rate is \$60 per work hour. Required parts would cost approximately \$22,000 per engine for engines where tieshafts and stub shafts are not serviceable. Based on these figures, the total cost impact of the proposed AD on U.S. operators is estimated to be \$4,020,000.

The regulations proposed herein would not have substantial direct effects on the States, on the relationship

between the national government and the States, or on the distribution of power and responsibilities among the various levels of government. Therefore, in accordance with Executive Order 12612, it is determined that this proposal would not have sufficient federalism implications to warrant the preparation of a Federalism Assessment.

For the reasons discussed above, I certify that this proposed regulation (1) is not a "significant regulatory action" under Executive Order 12866; (2) is not a "significant rule" under the DOT Regulatory Policies and Procedures (44 FR 11034, February 26, 1979); and (3) if promulgated, will not have a significant economic impact, positive or negative, on a substantial number of small entities under the criteria of the Regulatory Flexibility Act. A copy of the draft regulatory evaluation prepared for this action is contained in the Rules Docket. A copy of it may be obtained by contacting the Rules Docket at the location provided under the caption ADDRESSES.

#### List of Subjects in 14 CFR Part 39

Air transportation, Aircraft, Aviation safety, Safety.

#### The Proposed Amendment

Accordingly, pursuant to the authority delegated to me by the Administrator, the Federal Aviation Administration proposes to amend part 39 of the Federal Aviation Regulations (14 CFR part 39) as follows:

#### PART 39—AIRWORTHINESS DIRECTIVES

1. The authority citation for part 39 continues to read as follows:

**Authority:** 49 U.S.C. App. 1354(a), 1421 and 1423; 49 U.S.C. 106(g); and 14 CFR 11.89.

##### § 39.13 [Amended]

2. Section 39.13 is amended by adding the following new airworthiness directive:

**AlliedSignal Inc.:** Docket No. 95-ANE-09.

**Applicability:** AlliedSignal Inc. Models TPE331-14A, -14B, -14F, and -15AW turboprop engines, installed on but not limited to the following aircraft: Piper Model PA-42-1000 and Grumman Model TS-2A (modified in accordance with Supplemental Type Certificate SA4837NM).

**Note:** This AD applies to each engine identified in the preceding applicability provision, regardless of whether it has been modified, altered, or repaired in the area subject to the requirements of this AD. For engines that have been modified, altered, or repaired so that the performance of the requirements of this AD is affected, the owner/operator must use the authority

provided in paragraph (c) to request approval from the FAA. This approval may address either no action, if the current configuration eliminates the unsafe condition, or different actions necessary to address the unsafe condition described in this AD. Such a request should include an assessment of the effect of the changed configuration on the unsafe condition addressed by this AD. In no case does the presence of any modification, alteration, or repair remove any engine from the applicability of this AD.

**Compliance:** Required as indicated, unless accomplished previously.

To prevent fatigue failure of engine compressor components and an inflight engine shutdown, accomplish the following:

(a) For main shouldered shafts (tieshafts), Part Number (P/N) 3105102-1, initiate a life limited part log card and remove from service in accordance with the following schedule and the following AlliedSignal Inc. Alert Service Bulletins (ASB's):

(1) Determine CIS for the main shouldered shafts (tieshafts) as follows:

(i) For main shouldered shafts (tieshafts) installed in TPE331-14A and -14B engines, in accordance with ASB No. TPE331-A72-7128, dated June 10, 1994.

(ii) For main shouldered shafts (tieshafts) installed in TPE331-14F engines, in accordance with ASB No. TPE331-A72-7129, dated June 10, 1994.

(iii) For main shouldered shafts (tieshafts) installed in TPE331-15AW engines, in accordance with ASB No. TPE331-A72-7522, dated February 17, 1995.

(2) For main shouldered shafts (tieshafts) with greater than 5,600 cycles in service (CIS) on the effective date of this airworthiness directive (AD), or if operating hours or cycles are unknown, remove from service within 400 CIS after the effective date of this AD.

(3) For main shouldered shafts (tieshafts) with 5,600 or less CIS on the effective date of this AD, remove from service prior to accumulating 6,000 CIS.

(b) For forward coupling shafts (stub shafts), P/N 3104281-2, initiate a life limited part log card, reidentify the P/N, serialize the forward coupling shaft (stub shaft), at the next major periodic inspection or complete disassembly of the compressor module after the effective date of this AD, whichever occurs first, and remove from service in accordance with the following AlliedSignal Inc. Service Bulletins (SB's):

(1) For forward coupling shafts (stub shafts) installed in TPE331-14A and -14B engines, in accordance with SB No. TPE331-72-7130, dated June 17, 1994.

(2) For forward coupling shafts (stub shafts) installed in TPE331-14F engines, in accordance with SB No. TPE331-72-7131, dated June 17, 1994.

(3) For forward coupling shafts (stub shafts) installed in TPE331-15AW engines, in accordance with SB No. TPE331-72-7523, dated February 17, 1995.

(4) Remove from service forward coupling shafts (stub shafts) prior to accumulating 20,000 CIS.

**Note:** For guidance on the destruction or marking of parts no longer serviceable for aviation use, see Advisory Circular 21-38, dated July 5, 1994.

(c) 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 Aircraft Certification Office. The request should be forwarded through an appropriate FAA Principal Maintenance Inspector, who may add comments and then send it to the Manager, Los Angeles Aircraft Certification Office.

**Note:** Information concerning the existence of approved alternative methods of compliance with this airworthiness directive, if any, may be obtained from the Los Angeles Aircraft Certification Office.

(d) 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 aircraft to a location where the requirements of this AD can be accomplished.

Issued in Burlington, Massachusetts, on June 12, 1995.

**Ronald L. Vavruska,**

*Acting Manager, Engine and Propeller Directorate, Aircraft Certification Service.*

[FR Doc. 95-14871 Filed 6-16-95; 8:45 am]

BILLING CODE 4910-13-U

#### ENVIRONMENTAL PROTECTION AGENCY

#### 40 CFR Part 52

[KY-67-1-6130b; FRL-5192-4]

#### Approval and Promulgation of Implementation Plans; Kentucky: Title V, Section 507, Small Business Stationary Source Technical and Environmental Compliance Assistance Program

**AGENCY:** Environmental Protection Agency (EPA)

**ACTION:** Proposed rule.

**SUMMARY:** The EPA proposes to approve the State Implementation Plan (SIP) revision submitted by the Commonwealth of Kentucky for the purpose of establishing a Small Business Stationary Source Technical and Environmental Compliance Assistance Program (PROGRAM), which will be fully implemented by November 15, 1994. In the final rules section of this **Federal Register**, the EPA is approving the State's SIP revision as a direct final rule without prior proposal because the Agency views this as a noncontroversial revision amendment and anticipates no adverse comments. A detailed rationale for the approval is set forth in the direct final rule. If no adverse comments are received in response to that direct final rule, no further activity is contemplated in relation to this proposed rule. If EPA receives adverse comments, the direct