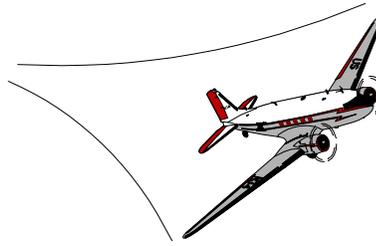


SPECIAL AIRWORTHINESS INFORMATION BULLETIN

REGULATORY SUPPORT DIVISION
P.O. BOX 26460
OKLAHOMA CITY, OKLAHOMA 73125-0460



U.S. Department
of Transportation
**Federal Aviation
Administration**

No. NE-00-12
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SAIB's are posted on the internet at <http://av-info.faa.gov>

This is issued for informational purposes only and any recommendation for corrective action is not mandatory.

Introduction

The purpose of this Special Airworthiness Information Bulletin (SAIB) is to provide safety information to certificate holders of 14 CFR Part 121 and Part 135.

Background

On December 4, 1999, the latest in a number of serious events due to maintenance error on multiple engines occurred during the revenue flight of a transport aircraft. In this most recent event, a maintenance crew had serviced both engines on a twinjet airplane, but had neglected to properly reconnect all hoses and fittings. During the subsequent flight, both engines experienced a complete loss of oil; however, the engines continued running long enough for the airplane to make a safe, on-airport landing.

Over the past 15 years, at least six other serious incidents, including forced landings, have occurred due to maintenance error on multiple engines on the incident aircraft. These events have typically been associated with failure to restore oil, chip detector, or borescope access system integrity.

Safety Information

While proper design of maintenance procedures is intended to reduce the likelihood of error, mistakes do occur. Processes, equipment and environmental conditions may cause or contribute to mistakes. Others are the result of slips, misunderstandings, or fatigue. It has been estimated that nearly a third of all transport airplane in-flight shutdowns are due to improper or incorrect maintenance (The Boeing Company, "Maintenance Error Decision Aid", 1994). When only a single engine has been serviced prior to any given flight, the result of a maintenance error will likely be no worse than a single-engine in-flight shutdown, which transport airplanes are designed to accommodate. However, when the error has been repeated on multiple engines, the result can be a greater loss of total engine thrust or power than the airplane can accommodate. In the worst events in the historical database, a complete loss of thrust or power has occurred.

Recommendations

The intent of this SAIB is to help minimize the occurrence of multiple-engine in-flight shutdown, powerloss, or other anomaly due to maintenance error. **Therefore, the FAA recommends that operators avoid performing maintenance on multiple engines installed on the same aircraft at the same time if at all possible.** However, the FAA recognizes that some situations may be unavoidable. If it is not possible to avoid maintenance on more than one engine at the same time, the FAA recommends that different maintenance teams service each engine. Maintenance guidelines should be revised, where possible, to promote this recommendation.

For Further Information Contact

FAA, Ann Azevedo, ANE-110, 12 New England Executive Park, Burlington, MA 01803;
Tel: (781) 238-7117; Fax: (781) 238-7199; email: ann.azevedo@faa.gov.

CHANGE OF ADDRESS NOTICE

Airworthiness Directives (AD) for a particular make and model of aircraft are mailed to the aircraft owners using the permanent mailing address on file with the FAA Registry. If you need to change your address, please complete this form and mail to FAA Aircraft Registration. A revised Certificate of Aircraft Registration will be mailed to you without charge.

Signature requirements:

- Individual owner must sign.
- Partnership, a general partner must sign.
- Co-owner, each co-owner must sign, continuing as necessary on an attached sheet.
- Government, any authorized person may sign.

MAIL TO:

FAA Aircraft Registry, AFS-750
 Mike Monroney Aeronautical Center
 P.O. Box 25504
 Oklahoma City, OK 73125-0504

AIRCRAFT REGISTRATION NO.	SERIAL NO.	
MAKE	MODEL	
ADDRESS CHANGE REQUESTED NAME AND ADDRESS OF CERTIFICATE HOLDER		
STREET		
CITY		
STATE	ZIP	COUNTRY
SIGNATURE (In Ink)	TITLE	DATE

CANCELLATION OF REGISTRATION REQUESTED: (check applicable block, sign, and date)		
<input type="checkbox"/> 1. Aircraft sold to: (Purchaser's name and address)	_____ _____ _____	
<input type="checkbox"/> 2. Aircraft destroyed/scrapped		
<input type="checkbox"/> 3. Aircraft exported to _____		
<input type="checkbox"/> 4. Other, specify _____		
I (we) request cancellation of registration for the above reason.		
SIGNATURE (In Ink)	TITLE	DATE

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