

## **DEPARTMENT OF TRANSPORTATION**

### **Federal Aviation Administration**

#### **14 CFR Part 39**

**[Docket No. FAA-2013-0352; Directorate Identifier 2012-SW-063-AD; Amendment 39-17598; AD 2013-19-16]**

**RIN 2120-AA64**

#### **Airworthiness Directives; Sikorsky Aircraft Corporation Helicopters**

**AGENCY:** Federal Aviation Administration (FAA), DOT.

**ACTION:** Final rule.

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**SUMMARY:** We are adopting a new airworthiness directive (AD) for Sikorsky Aircraft Corporation (Sikorsky) Model S-92A helicopters to require modifying the No. 1 engine forward firewall center fire extinguisher discharge tube (No. 1 engine tube) and inspecting the outboard discharge tube to determine if it is correctly positioned. This AD was prompted by the discovery that the No. 1 engine tube installed on the helicopters is too long to ensure that a fire could be effectively extinguished in the helicopter. The actions are intended to ensure the No. 1 engine tube allows for complete coverage of an extinguishing agent in the No. 1 engine compartment area, ensure that a fire would be extinguished and prevent the loss of helicopter control.

**DATES:** This AD is effective November 6, 2013.

The Director of the Federal Register approved the incorporation by reference of certain documents listed in this AD as of November 6, 2013.

**ADDRESSES:** For service information identified in this AD, contact Sikorsky Aircraft Corporation, Attn: Manager, Commercial Technical Support, mailstop s581a, 6900 Main Street, Stratford, CT 06614; telephone (800) 562-4409; email [tsslibrary@sikorsky.com](mailto:tsslibrary@sikorsky.com); or at <http://www.sikorsky.com>. You may review a copy of the referenced service information at the FAA, Office of the Regional Counsel, Southwest Region, 2601 Meacham Blvd., Room 663, Fort Worth, Texas 76137.

#### **Examining the AD Docket**

You may examine the AD docket on the Internet at <http://www.regulations.gov> or in person at the Docket Operations Office between 9 a.m. and 5 p.m., Monday through Friday, except Federal holidays. The AD docket contains this AD, any incorporated-by-reference service information, the economic evaluation, any comments received, and other information. The street address for the

Docket Operations Office (phone: 800-647-5527) is U.S. Department of Transportation, Docket Operations Office, M-30, West Building Ground Floor, Room W12-140, 1200 New Jersey Avenue SE., Washington, DC 20590.

**FOR FURTHER INFORMATION CONTACT:** Michael Schwetz, Aviation Safety Engineer, Boston Aircraft Certification Office, Engine & Propeller Directorate, FAA, 12 New England Executive Park, Burlington, Massachusetts 01803; telephone (781) 238-7761; email michael.schwetz@faa.gov.

## **SUPPLEMENTARY INFORMATION:**

### **Discussion**

On April 22, 2013, at 78 FR 23698, the Federal Register published our notice of proposed rulemaking (NPRM), which proposed to amend 14 CFR part 39 by adding an AD that would apply to Sikorsky Model S-92A helicopters, serial numbers 920006 through 920169. The NPRM proposed to require modifying the No. 1 engine tube and inspecting the outboard discharge tube to determine if it is correctly positioned. The work required to modify the No.1 engine tube may dislocate the outboard discharge tube, which directs fire extinguishing agent to a specific area of the engine compartment. The NPRM was prompted because an extinguishing test at a Sikorsky plant showed that a No. 1 engine tube with the incorrect length had been put into production. Because of the incorrect tube length, the fire-extinguishing system may not discharge the agent completely throughout the compartment in the event of a fire. The proposed requirements were intended to ensure the No. 1 engine tube allows for complete coverage of an extinguishing agent in the No. 1 engine compartment area, ensure that a fire is extinguished and prevent the loss of helicopter control.

### **Comments**

We gave the public the opportunity to participate in developing this AD, but we received no comments on the NPRM (78 FR 23698, April 22, 2013).

### **FAA's Determination**

We have reviewed the relevant information and determined that an unsafe condition exists and is likely to exist or develop on other products of these same type designs and that air safety and the public interest require adopting the AD requirements as proposed.

### **Related Service Information**

Sikorsky has issued Alert Service Bulletin 92-26-004 (ASB), dated June 4, 2012, to modify the No. 1 engine tube within 120 days. The ASB specifies procedures to cut two inches off the tube's discharge end, as well as how to inspect and reposition, if necessary, the outboard discharge tube.

### **Costs of Compliance**

We estimate that this AD will affect 24 U.S. registered helicopters and that labor costs average \$85 per work-hour. Based on these estimates, we expect the following costs:

- Modifying the No. 1 engine tube takes 2 work-hours for a labor cost of \$170 per helicopter. No parts are needed, so the cost for the U.S. fleet totals \$4,080.
- Inspecting the outboard discharge tube and ensuring that it is in the required position takes about 1 work-hour for a total labor cost of \$85 per helicopter. No parts are needed for a total U.S. fleet cost of \$2,040.

## **Authority for This Rulemaking**

Title 49 of the United States Code specifies the FAA's authority to issue rules on aviation safety. Subtitle I, section 106, describes the authority of the FAA Administrator. Subtitle VII: Aviation Programs, describes in more detail the scope of the Agency's authority.

We are issuing this rulemaking under the authority described in Subtitle VII, Part A, Subpart III, Section 44701: "General requirements." Under that section, Congress charges the FAA with promoting safe flight of civil aircraft in air commerce by prescribing regulations for practices, methods, and procedures the Administrator finds necessary for safety in air commerce. This regulation is within the scope of that authority because it addresses an unsafe condition that is likely to exist or develop on products identified in this rulemaking action.

## **Regulatory Findings**

This AD will not have federalism implications under Executive Order 13132. This AD will not have a substantial direct effect 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.

For the reasons discussed above, I certify that this AD:

- (1) Is not a "significant regulatory action" under Executive Order 12866;
- (2) Is not a "significant rule" under DOT Regulatory Policies and Procedures (44 FR 11034, February 26, 1979);
- (3) Will not affect intrastate aviation in Alaska to the extent that it justifies making a regulatory distinction; and
- (4) 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.

We prepared an economic evaluation of the estimated costs to comply with this AD and placed it in the AD docket.

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

Air transportation, Aircraft, Aviation safety, Incorporation by reference, Safety.

## **Adoption of the Amendment**

Accordingly, under the authority delegated to me by the Administrator, the FAA amends 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. 106(g), 40113, 44701.

#### **§ 39.13 [Amended]**

2. The FAA amends § 39.13 by adding the following new airworthiness directive (AD):



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**2013-19-16 Sikorsky Aircraft Corporation Helicopters:** Amendment 39-17598; Docket No. FAA-2013-0352; Directorate Identifier 2012-SW-063-AD.

**(a) Applicability**

This AD applies to Sikorsky Aircraft Corporation (Sikorsky) Model S-92A helicopters, serial numbers 920006 through 920169, certificated in any category.

**(b) Unsafe Condition**

This AD defines the unsafe condition as failure of the No. 1 engine forward firewall center fire extinguisher discharge tube to discharge an extinguishing agent for complete coverage of the No. 1 engine compartment area. This condition could result in a fire not being extinguished and subsequent loss of helicopter control.

**(c) Effective Date**

This AD becomes effective November 6, 2013.

**(d) Compliance**

You are responsible for performing each action required by this AD within the specified compliance time unless it has already been accomplished prior to that time.

**(e) Required Actions**

Within 120 days:

(1) Modify the No. 1 engine forward firewall center discharge tube in accordance with the Accomplishment Instructions, Paragraph B, of Sikorsky Alert Service Bulletin 92-26-004, dated June 4, 2012 (ASB).

(2) Inspect the outboard discharge tube and determine if it is correctly positioned as depicted in Figure 3 of the ASB. If it is not correctly positioned, correct the positioning in accordance with the Accomplishment Instructions, Paragraph D, of the ASB.

**(f) Alternative Methods of Compliance (AMOCs)**

(1) The Manager, Boston Aircraft Certification Office, FAA, may approve AMOCs for this AD. Send your proposal to: Michael Schwetz, Aviation Safety Engineer, Boston Aircraft Certification Office, Engine & Propeller Directorate, FAA, 12 New England Executive Park, Burlington, Massachusetts 01803; telephone (781) 238-7761; email [michael.schwetz@faa.gov](mailto:michael.schwetz@faa.gov).

(2) For operations conducted under a 14 CFR part 119 operating certificate or under 14 CFR part 91, subpart K, we suggest that you notify your principal inspector, or lacking a principal inspector, the manager of the local flight standards district office or certificate holding district office before operating any aircraft complying with this AD through an AMOC.

**(g) Subject**

Joint Aircraft Service Component (JASC) Code: 2620, Extinguishing System.

**(h) Material Incorporated by Reference**

(1) The Director of the Federal Register approved the incorporation by reference (IBR) of the service information listed in this paragraph under 5 U.S.C. 552(a) and 1 CFR part 51.

(2) You must use this service information as applicable to do the actions required by this AD, unless the AD specifies otherwise.

(i) Sikorsky Alert Service Bulletin 92-26-004, dated June 4, 2012.

(ii) Reserved.

(3) For Sikorsky service information identified in this AD, contact Sikorsky Aircraft Corporation, Attn: Manager, Commercial Technical Support, mailstop s581a, 6900 Main Street, Stratford, CT 06614; telephone (800) 562-4409; email [tsslibrary@sikorsky.com](mailto:tsslibrary@sikorsky.com); or at <http://www.sikorsky.com>.

(4) You may view this service information at FAA, Office of the Regional Counsel, Southwest Region, 2601 Meacham Blvd., Room 663, Fort Worth, Texas 76137. For information on the availability of this material at the FAA, call (817) 222-5110.

(5) You may view this service information that is incorporated by reference at the National Archives and Records Administration (NARA). For information on the availability of this material at NARA, call (202) 741-6030, or go to: <http://www.archives.gov/federal-register/cfr/ibr-locations.html>.

Issued in Fort Worth, Texas, on September 17, 2013.

Gwendolynne O'Connell,  
Acting Directorate Manager, Rotorcraft Directorate,  
Aircraft Certification Service.