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DEPARTMENT OF TRANSPORTATION

Federal Aviation Administration

14 CFR Part 39

[Docket No. FAA-2018-0802; Product Identifier 2018-NM-082-AD; Amendment 39-19525; AD 2018-25-14]

RIN 2120-AA64

Airworthiness Directives; Fokker Services B.V. Airplanes

AGENCY: Federal Aviation Administration (FAA), Department of Transportation (DOT).

ACTION: Final rule.

SUMMARY: We are adopting a new airworthiness directive (AD) for all Fokker Services B.V. Model F28 Mark 0070 and 0100 airplanes. This AD was prompted by reports of electrical arcing between the auxiliary power unit (APU) starter motor positive terminal and the APU fuel drain line. This AD requires the removal of certain clamps and replacement of the flexible APU fuel drain line. We are issuing this AD to address the unsafe condition on these products.

DATES: This AD is effective January 18, 2019.

The Director of the Federal Register approved the incorporation by reference of a certain publication listed in this AD as of January 18, 2019.

ADDRESSES: For service information identified in this final rule, contact Fokker Services B.V., Technical Services Dept., P.O. Box 1357, 2130 EL Hoofddorp, the Netherlands; telephone +31 (0)88-6280-350; fax +31 (0)88-6280-111; email technicalservices@fokker.com; internet <http://www.myfokkerfleet.com>. You may view this service information at the FAA, Transport Standards Branch, 2200 South 216th St., Des Moines, WA. For information on the availability of this material at the FAA, call 206-231-3195. It is also available on the internet at <http://www.regulations.gov> by searching for and locating Docket No. FAA-2018-0802.

Examining the AD Docket

You may examine the AD docket on the internet at <http://www.regulations.gov> by searching for and locating Docket No. FAA-2018-0802; or in person at Docket Operations between 9 a.m. and 5 p.m., Monday through Friday, except Federal holidays. The AD docket contains this final rule, the regulatory evaluation, any comments received, and other information. The address for Docket Operations (phone: 800-647-5527) is U.S. Department of Transportation, Docket Operations, M-30,

West Building Ground Floor, Room W12-140, 1200 New Jersey Avenue SE, Washington, DC 20590.

FOR FURTHER INFORMATION CONTACT: Tom Rodriguez, Aerospace Engineer, International Section, Transport Standards Branch, FAA, 2200 South 216th St., Des Moines, WA 98198; telephone and fax 206-231-3226.

SUPPLEMENTARY INFORMATION:

Discussion

We issued a notice of proposed rulemaking (NPRM) to amend 14 CFR part 39 by adding an AD that would apply to all Fokker Services B.V. Model F28 Mark 0070 and 0100 airplanes. The NPRM published in the Federal Register on September 28, 2018 (83 FR 49020). The NPRM was prompted by reports of electrical arcing between the APU starter motor positive terminal and the APU fuel drain line. The NPRM proposed to require the removal of certain clamps and replacement of the flexible APU fuel drain line.

We are issuing this AD to address reports of electrical arcing between the APU starter motor positive terminal and the APU fuel drain line, which could lead to a fire during APU start and possibly result in damage to the airplane.

The European Aviation Safety Agency (EASA), which is the Technical Agent for the Member States of the European Union, has issued EASA Airworthiness Directive 2017-0008, dated January 16, 2017 (referred to after this as the Mandatory Continuing Airworthiness Information, or “the MCAI”), to correct an unsafe condition for all Fokker Services B.V. Model F28 Mark 0070 and 0100 airplanes. The MCAI states:

Reports were received of electrical arcing between the auxiliary power unit (APU) starter motor positive terminal and the APU fuel drain line. Investigation showed that these events were due to contact between the metal braiding on the APU fuel drain line and the positive terminal of the APU starter motor.

This condition, if not corrected, could lead to a fire during APU start, possibly resulting in damage to the aeroplane.

In response to these findings, Fokker issued Service Bulletin (SB) SBF100-49-023, later amended by SB Change Notification (SBCN), with instructions to install two additional clamps on the APU fuel supply line and the flexible APU fuel drain line. Consequently, CAA-NL [Civil Aviation Authority-the Netherlands] issued the Netherlands AD 92-139 [which corresponds to FAA AD 95-21-20, Amendment 39-9407 (60 FR 53857, October 18, 1995) (“AD 95-21-20”)] to require the actions described in Fokker SBF100-49-023.

Since that [the Netherlands] AD was issued, following reports of arcing and chafing damage to the APU fuel drain line, the investigation revealed that the two additional clamps and the instructions in SBF100-49-023 would not meet the intent of ensuring sufficient clearance between the APU fuel drain line and the positive terminal of the APU starter motor.

To address this potential unsafe condition, Fokker Services [B.V.] published SBF100-49-037 to introduce a new flexible APU fuel drain line that is one inch shorter and has one elbow flange, thus enabling to restore sufficient clearance with the positive terminal of the APU starter motor.

For the reasons described above, this AD supersedes CAA-NL [the Netherlands] AD 92-139 and requires replacement of the flexible APU fuel drain line, removal of the additional clamps introduced by SBF100-49-023, and a check to verify sufficient clearance between the APU fuel drain line and the positive terminal of the APU starter motor.

You may examine the MCAI in the AD docket on the internet at <http://www.regulations.gov> by searching for and locating Docket No. FAA-2018-0802.

Comments

We gave the public the opportunity to participate in developing this final rule. We received no comments on the NPRM or on the determination of the cost to the public.

Conclusion

We reviewed the relevant data and determined that air safety and the public interest require adopting this final rule as proposed, except for minor editorial changes. We have determined that these minor changes:

- Are consistent with the intent that was proposed in the NPRM for addressing the unsafe condition; and
- Do not add any additional burden upon the public than was already proposed in the NPRM.

Related Service Information Under 1 CFR Part 51

Fokker Services B.V. has issued Fokker Service Bulletin SBF100-49-037, dated October 31, 2016. This service information describes procedures for removing certain clamps and replacing the flexible APU fuel drain line (which includes making sure there is sufficient clearance between the new APU fuel drain line and the positive terminal of the APU starter motor and that the earth lead is not chafing against the fuel supply or the fuel drain line). This service information is reasonably available because the interested parties have access to it through their normal course of business or by the means identified in the ADDRESSES section.

Costs of Compliance

We estimate that this AD affects 5 airplanes of U.S. registry. We estimate the following costs to comply with this AD:

Estimated Costs			
Labor cost	Parts cost	Cost per product	Cost on U.S. operators
1 work-hour × \$85 per hour = \$85	\$963	\$1,048	\$5,240

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.

This AD is issued in accordance with authority delegated by the Executive Director, Aircraft Certification Service, as authorized by FAA Order 8000.51C. In accordance with that order, issuance of ADs is normally a function of the Compliance and Airworthiness Division, but during this transition period, the Executive Director has delegated the authority to issue ADs applicable to transport category airplanes and associated appliances to the Director of the System Oversight Division.

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 the DOT Regulatory Policies and Procedures (44 FR 11034, February 26, 1979),
- (3) Will not affect intrastate aviation in Alaska, 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.

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):



FAA
Aviation Safety

AIRWORTHINESS DIRECTIVE

www.faa.gov/aircraft/safety/alerts/
www.gpoaccess.gov/fr/advanced.html

2018-25-14 Fokker Services B.V.: Amendment 39-19525; Docket No. FAA-2018-0802; Product Identifier 2018-NM-082-AD.

(a) Effective Date

This AD is effective January 18, 2019.

(b) Affected ADs

This AD affects AD 95-21-20, Amendment 39-9407 (60 FR 53857, October 18, 1995) (“AD 95-21-20”).

(c) Applicability

This AD applies to Fokker Services B.V. Model F28 Mark 0070 and 0100 airplanes, certificated in any category, all serial numbers.

(d) Subject

Air Transport Association (ATA) of America Code 49, Airborne auxiliary power.

(e) Reason

This AD was prompted by reports of electrical arcing between the auxiliary power unit (APU) starter motor positive terminal and the APU fuel drain line. We are issuing this AD to address this unsafe condition, which could lead to a fire during APU start and possibly result in damage to the airplane.

(f) Compliance

Comply with this AD within the compliance times specified, unless already done.

(g) Modification

Within 12 months after the effective date of this AD: Remove the two additional clamps, part number (P/N) MS21919WCH5 and P/N MS21919WCH13, and replace APU fuel drain line P/N D67066-409 with a new APU fuel drain line P/N W67066-401, in accordance with the Accomplishment Instructions of Fokker Service Bulletin SBF100-49-037, dated October 31, 2016.

(h) Terminating Actions for AD 95-21-20

Accomplishing the actions required by paragraph (g) of this AD terminates all requirements of AD 95-21-20.

(i) Parts Installation Prohibition

No person may install APU fuel drain line P/N D67066-409 after modification of an airplane as required by paragraph (g) of this AD.

(j) Other FAA AD Provisions

The following provisions also apply to this AD:

(1) Alternative Methods of Compliance (AMOCs): The Manager, International Section, Transport Standards Branch, FAA, has the authority to approve AMOCs for this AD, if requested using the procedures found in 14 CFR 39.19. In accordance with 14 CFR 39.19, send your request to your principal inspector or local Flight Standards District Office, as appropriate. If sending information directly to the International Section, send it to the attention of the person identified in paragraph (k)(2) of this AD. Information may be emailed to: 9-ANM-116-AMOC-REQUESTS@faa.gov. Before using any approved AMOC, notify your appropriate principal inspector, or lacking a principal inspector, the manager of the local flight standards district office/certificate holding district office.

(2) Contacting the Manufacturer: For any requirement in this AD to obtain corrective actions from a manufacturer, the action must be accomplished using a method approved by the Manager, International Section, Transport Standards Branch, FAA; or the European Aviation Safety Agency (EASA); or Fokker Services B.V.'s EASA Design Organization Approval (DOA). If approved by the DOA, the approval must include the DOA-authorized signature.

(k) Related Information

(1) Refer to Mandatory Continuing Airworthiness Information (MCAI) EASA Airworthiness Directive 2017-0008, dated January 16, 2017, for related information. This MCAI may be found in the AD docket on the internet at <http://www.regulations.gov> by searching for and locating Docket No. FAA-2018-0802.

(2) For more information about this AD, contact Tom Rodriguez, Aerospace Engineer, International Section, Transport Standards Branch, FAA, 2200 South 216th St., Des Moines, WA 98198; telephone and fax 206-231-3226.

(l) 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 this AD specifies otherwise.

(i) Fokker Service Bulletin SBF100-49-037, dated October 31, 2016.

(ii) [Reserved]

(3) For service information identified in this AD, contact Fokker Services B.V., Technical Services Dept., P.O. Box 1357, 2130 EL Hoofddorp, the Netherlands; telephone +31 (0)88-6280-350; fax +31 (0)88-6280-111; email technicalservices@fokker.com; internet <http://www.myfokkerfleet.com>.

(4) You may view this service information at the FAA, Transport Standards Branch, 2200 South 216th St., Des Moines, WA. For information on the availability of this material at the FAA, call 206-231-3195.

(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 Des Moines, Washington, on November 29, 2018.
James Cashdollar,
Acting Director, System Oversight Division,
Aircraft Certification Service.