

[Federal Register Volume 81, Number 174 (Thursday, September 8, 2016)]  
[Rules and Regulations]  
[Pages 61983-61985]  
From the Federal Register Online via the Government Publishing Office [www.gpo.gov]  
[FR Doc No: 2016-21288]

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## **DEPARTMENT OF TRANSPORTATION**

### **Federal Aviation Administration**

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

**[Docket No. FAA-2016-6665; Directorate Identifier 2015-NM-070-AD; Amendment 39-18644; AD 2016-18-13]**

**RIN 2120-AA64**

#### **Airworthiness Directives; Fokker Services B.V. Airplanes**

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

**ACTION:** Final rule.

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**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 an aileron-wing flutter analysis finding that, when a hydraulic aileron actuator is not powered while at least one aileron flutter damper is inoperative (latent failure), the maximum speed currently defined in the airplane flight manual (AFM) is insufficient to meet the required safety margin. This AD requires revising the AFM to include procedures to follow in the event of a hydraulic system failure and abnormal flight control behavior. We are issuing this AD to ensure that the flightcrew has procedures to follow in the event of a hydraulic system failure and abnormal flight control behavior. If not corrected, this condition could lead to aileron flutter and possible reduced control of the airplane.

**DATES:** This AD is effective October 13, 2016.

The Director of the Federal Register approved the incorporation by reference of a certain publication listed in this AD as of October 13, 2016.

**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](mailto:technicalservices@fokker.com); Internet <http://www.myfokkerfleet.com>. You may view this referenced service information at the FAA, Transport Airplane Directorate, 1601 Lind Avenue SW., Renton, WA. For information on the availability of this material at the FAA, call 425-227-1221. It is also available on the Internet at <http://www.regulations.gov> by searching for and locating Docket No. FAA-2016-6665.

## 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-2016-6665; or in person at the Docket Management Facility between 9 a.m. and 5 p.m., Monday through Friday, except Federal holidays. The AD docket contains this AD, the regulatory evaluation, any comments received, and other information. The street address for the Docket Office (telephone 800-647-5527) is Docket Management Facility, 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 Branch, ANM-116, Transport Airplane Directorate, FAA, 1601 Lind Avenue SW., Renton, WA 98057-3356; telephone 253-227-1137; fax 253-227-1149.

## 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 May 13, 2016 (81 FR 29800) ("the NPRM"). The NPRM was prompted by an aileron-wing flutter analysis finding that, when a hydraulic aileron actuator is not powered while at least one aileron flutter damper is inoperative (latent failure), the maximum speed currently defined in the AFM is insufficient to meet the required safety margin. The NPRM proposed to require revising the AFM to include procedures to follow in the event of a hydraulic system failure and abnormal flight control behavior. We are issuing this AD to ensure that the flightcrew has procedures to follow in the event of a hydraulic system failure and abnormal flight control behavior. If not corrected, this condition could lead to aileron flutter and possible reduced control of 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 2015-0078, dated May 6, 2015 (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:

In the frame of a complementary aileron-wing flutter analysis performed by Fokker Services, it has been found that in case a hydraulic aileron actuator is not powered, while at least one aileron flutter damper is inoperative (latent failure), the maximum speed currently defined in the Airplane Flight Manual (AFM) is insufficient to meet the required safety margin.

This condition, if not corrected, could lead to aileron flutter, possibly resulting in reduced control of the aeroplane.

To address this potential unsafe condition, Fokker Services published an AFM change through Manual Change Notification–

Operational (MCNO) F100-066 which introduces an additional step in the Abnormal Procedures for [a] hydraulic [system] failure and for abnormal flight control behaviour. This new step consists in a speed reduction to V<sub>ra</sub> (IAS 250kt/M 0.65) to restore a sufficient margin to the flutter speed.

For the reasons described above, this [EASA] AD requires incorporation of the amended abnormal procedures into the applicable AFM.

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-2016-6665.

## **Comments**

We gave the public the opportunity to participate in developing this AD. 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 AD 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 correcting 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**

We reviewed Fokker Manual Change Notification–Operational Documentation MCNO-F100-066, dated December 1, 2014. The service information contains amendments to applicable AFMs that introduce an additional step in the abnormal procedures for a hydraulic system failure and abnormal flight control behavior. 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 8 airplanes of U.S. registry.

We also estimate that it would take about 1 work-hour per product to comply with the basic requirements of this AD. The average labor rate is \$85 per work-hour. Based on these figures, we estimate the cost of this AD on U.S. operators to be \$680, or \$85 per product.

## **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**

We determined that 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):



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**2016-18-13 Fokker Services B.V.:** Amendment 39-18644; Docket No. FAA-2016-6665; Directorate Identifier 2015-NM-070-AD.

**(a) Effective Date**

This AD is effective October 13, 2016.

**(b) Affected ADs**

None.

**(c) Applicability**

This AD applies to all 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 27, Flight Controls.

**(e) Reason**

This AD was prompted by an aileron-wing flutter analysis finding that, when a hydraulic aileron actuator is not powered while at least one aileron flutter damper is inoperative (latent failure), the maximum speed currently defined in the airplane flight manual (AFM) is insufficient to meet the required safety margin. We are proposing this AD to ensure that the flightcrew has procedures to follow in the event of a hydraulic system failure and abnormal flight control behavior. If not corrected, this condition could lead to aileron flutter and possible reduced control of the airplane.

**(f) Compliance**

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

**(g) AFM Revision**

Within 12 months after the effective date of this AD, revise the Abnormal Procedures and Limitations sections of the applicable AFM to include the information in Fokker Manual Change Notification–Operational Documentation MCNO-F100-066, dated December 1, 2014. This may be accomplished by inserting a copy of Fokker Manual Change Notification–Operational Documentation MCNO-F100-066, dated December 1, 2014, into the applicable AFM. Fokker Manual Change Notification–Operational Documentation MCNO-F100-066, dated December 1, 2014, introduces procedures for the flightcrew to follow in the event of a hydraulic system failure and abnormal flight control behavior. When the information in Fokker Manual Change Notification–Operational Documentation MCNO-F100-066, dated December 1, 2014, is included in the general revisions of the AFM, the

general revisions may be inserted in the AFM, and Fokker Manual Change Notification–Operational Documentation MCNO-F100-066, dated December 1, 2014, may be removed.

#### **(h) Other FAA AD Provisions**

The following provisions also apply to this AD:

(1) Alternative Methods of Compliance (AMOCs): The Manager, International Branch, ANM-116, Transport Airplane Directorate, 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 Branch, send it to ATTN: Tom Rodriguez, Aerospace Engineer, International Branch, ANM-116, Transport Airplane Directorate, FAA, 1601 Lind Avenue SW., Renton, WA 98057-3356; telephone 425-227-1137; fax 425-227-1149. 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 Branch, ANM-116, Transport Airplane Directorate, FAA; or the European Aviation Safety Agency (EASA); or Fokker B.V. Service's EASA Design Organization Approval (DOA). If approved by the DOA, the approval must include the DOA-authorized signature.

#### **(i) Related Information**

Refer to Mandatory Continuing Airworthiness Information (MCAI) EASA Airworthiness Directive 2015-0078, dated May 6, 2015, 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-2016-6665.

#### **(j) 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 Manual Change Notification-Operational Documentation MCNO F100-066, dated December 1, 2014.

(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](mailto:technicalservices@fokker.com); Internet <http://www.myfokkerfleet.com>

(4) You may view this service information at the FAA, Transport Airplane Directorate, 1601 Lind Avenue SW., Renton, WA. For information on the availability of this material at the FAA, call 425-227-1221.

(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.tml>.

Issued in Renton, Washington, on August 29, 2016.  
Michael Kaszycki,  
Acting Manager, Transport Airplane Directorate,  
Aircraft Certification Service.