# **DEPARTMENT OF TRANSPORTATION**

### **Federal Aviation Administration**

### 14 CFR Part 39

[Docket No. FAA-2022-1482; Project Identifier MCAI-2022-00697-T]

### RIN 2120-AA64

Airworthiness Directives; De Havilland Aircraft of Canada Limited (Type **Certificate Previously Held by** Bombardier, Inc.) Airplanes

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

**ACTION:** Notice of proposed rulemaking

(NPRM).

**SUMMARY:** The FAA proposes to adopt a new airworthiness directive (AD) for certain De Havilland Aircraft of Canada Limited Model DHC-8-401 and -402 airplanes. This proposed AD was prompted by an investigation of incorrectly manufactured sleeves that were potentially installed in the main landing gear (MLG) forward door linkage assembly. This proposed AD would require review of technical records and inspections to determine if a discrepant sleeve is installed, replacement of any discrepant sleeve and re-identification of the MLG forward door linkage assembly. This proposed AD would also prohibit the installation of affected parts. The FAA is proposing this AD to address the unsafe condition on these products.

**DATES:** The FAA must receive comments on this proposed AD by January 9, 2023. ADDRESSES: You may send comments, using the procedures found in 14 CFR 11.43 and 11.45, by any of the following

- Federal eRulemaking Portal: Go to regulations.gov. Follow the instructions for submitting comments.
- Fax: 202–493–2251. Mail: U.S. Department of Transportation, Docket Operations, M-30, West Building Ground Floor, Room W12-140, 1200 New Jersey Avenue SE, Washington, DC 20590.
- Hand Delivery: Deliver to Mail address above between 9 a.m. and 5 p.m., Monday through Friday, except Federal holiďays.

AD Docket: You may examine the AD docket at regulations.gov under Docket No. FAA-2022-1482; 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 NPRM, the mandatory continuing airworthiness information (MCAI), any comments received, and other information. The street address for Docket Operations is listed above.

Material Incorporated by Reference:

- For service information identified in this NPRM, contact De Havilland Aircraft of Canada Limited, Dash 8 Series Customer Response Centre, 5800 Explorer Drive, Mississauga, Ontario, L4W 5K9, Canada; telephone North America (toll-free): 855-310-1013, Direct: 647-277-5820; email thd@ dehavilland.com; website dehavilland.com.
- · For service information identified in this NPRM, contact De Havilland Aircraft of Canada Limited, Dash 8 Series Customer Response Centre, 5800 Explorer Drive, Mississauga, Ontario, L4W 5K9, Canada; telephone North America (toll-free): 855-310-1013, Direct: 647-277-5820; email thd@ dehavilland.com: website dehavilland.com.
- · You may view this service information at the FAA, Airworthiness Products Section, Operational Safety Branch, 2200 South 216th St., Des Moines, WA. For information on the availability of this material at the FAA, call 206-231-3195.

# FOR FURTHER INFORMATION CONTACT:

Gabriel Kim, Aerospace Engineer, Mechanical Systems and Administrative Services Section, FAA, New York ACO Branch, 1600 Stewart Avenue, Suite 410, Westbury, NY 11590; telephone 516-228-7300; email 9-avs-nyaco-cos@ faa.gov.

# SUPPLEMENTARY INFORMATION:

# **Comments Invited**

The FAA invites you to send any written relevant data, views, or arguments about this proposal. Send vour comments to an address listed under ADDRESSES. Include "Docket No. FAA-2022-1482; Project Identifier MCAI-2022-00697-T" at the beginning of your comments. The most helpful comments reference a specific portion of the proposal, explain the reason for any recommended change, and include supporting data. The FAA will consider all comments received by the closing date and may amend this proposal because of those comments.

**Except for Confidential Business** Information (CBI) as described in the following paragraph, and other information as described in 14 CFR 11.35, the FAA will post all comments received, without change, to regulations.gov, including any personal information you provide. The agency will also post a report summarizing each substantive verbal contact received about this NPRM.

# **Confidential Business Information**

CBI is commercial or financial information that is both customarily and

actually treated as private by its owner. Under the Freedom of Information Act (FOIA) (5 U.S.C. 552), CBI is exempt from public disclosure. If your comments responsive to this NPRM contain commercial or financial information that is customarily treated as private, that you actually treat as private, and that is relevant or responsive to this NPRM, it is important that you clearly designate the submitted comments as CBI. Please mark each page of your submission containing CBI as "PROPIN." The FAA will treat such marked submissions as confidential under the FOIA, and they will not be placed in the public docket of this NPRM. Submissions containing CBI should be sent to Gabriel Kim, Aerospace Engineer, Mechanical Systems and Administrative Services Section, FAA, New York ACO Branch, 1600 Stewart Avenue, Suite 410, Westbury, NY 11590; telephone 516-228-7300; email 9-avs-nyaco-cos@ faa.gov. Any commentary that the FAA receives which is not specifically designated as CBI will be placed in the public docket for this rulemaking.

# **Background**

Transport Canada, which is the aviation authority for Canada, has issued AD CF-2022-29, dated May 27, 2022 (Transport Canada AD CF-2022-29) (also referred to as the MCAI), to correct an unsafe condition for certain De Havilland Aircraft of Canada Limited (Type Certificate Previously Held by Bombardier, Inc.) airplanes. The MCAI states that some forward door linkage sleeves, part number (P/N) 46878-1, have been manufactured without lubrication grooves on the outer diameter. An investigation confirmed that incorrectly manufactured sleeves were potentially supplied from October 2019 to July 2021. A discrepant sleeve with missing lubrication grooves can result in the fatigue failure of the forward door linkage, leading to possible interference with the extension or retraction of the corresponding MLG. This condition, if not corrected and when combined with other failures, could result in an asymmetric MLG configuration at landing and a subsequent runway excursion.

You may examine the MCAI in the AD docket at regulations.gov under Docket No. FAA-2022-1482.

# **Related Service Information Under** 1 CFR Part 51

The FAA reviewed De Havilland Aircraft of Canada Limited Service Bulletin (SB) 84-32-169, dated February 28, 2022. This service information specifies procedures for review of the airplane records to determine the date of replacement, if any, of sleeve P/N 46878-1, a visual inspection of affected sleeves for the presence of lubrication grooves, and a visual inspection of the swivel link, clevis assembly, and swivel end assembly for discrepancies including signs of damage, deformation, erosion, and corrosion. Corrective actions include replacement of any sleeve that has missing lubrication grooves; repair or replacement of any discrepant swivel link, clevis assembly, and swivel end assembly; and re-identification of the forward door linkage. Assemble the forward door linkage, torque selflocking nuts, and re-install the forward door linkage assemblies.

This material is reasonably available because the interested parties have access to it through their normal course of business or by the means identified in ADDRESSES.

# **FAA's Determination**

This product has been approved by the aviation authority of another country and is approved for operation in the United States. Pursuant to the FAA's bilateral agreement with the State of Design Authority, it has notified the FAA of the unsafe condition described in the MCAI described above. The FAA is issuing this NPRM after determining that the unsafe condition described previously is likely to exist or develop

in other products of the same type design.

# Proposed AD Requirements in This NPRM

This proposed AD would require accomplishing the actions specified in the service information already described. This proposed AD would also prohibit the installation of affected parts.

# **Costs of Compliance**

The FAA estimates that this AD, if adopted as proposed, would affect 56 airplanes of U.S. registry. The FAA estimates the following costs to comply with this proposed AD:

### **ESTIMATED COSTS FOR REQUIRED ACTIONS**

Labor cost	Parts cost	Cost per product	Cost on U.S. operators
3 work-hours × \$85 per hour = \$255	\$0	\$255	\$14,280

The FAA estimates the following costs to do any necessary on-condition actions that would be required based on

the results of any required actions. The FAA has no way of determining the

number of aircraft that might need these on-condition actions:

# **ESTIMATED COSTS OF ON-CONDITION ACTIONS**

Labor cost	Parts cost	Cost per product
3 work-hours × \$85 per hour = \$255 to replace the sleeve		\$1,539

The FAA has received no definitive data on which to base the cost estimates for the on-condition repairs specified in this proposed AD.

The FAA has included all known costs in its cost estimate. According to the manufacturer, however, some or all of the costs of this proposed AD may be covered under warranty, thereby reducing the cost impact on affected operators.

### **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.

The FAA is 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**

The FAA determined that this proposed AD would not have federalism implications under Executive Order 13132. This proposed AD would 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 this proposed regulation:

- (1) Is not a "significant regulatory action" under Executive Order 12866,
- (2) Would not affect intrastate aviation in Alaska, and
- (3) Would 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.

# The Proposed Amendment

Accordingly, under the authority delegated to me by the Administrator, the FAA proposes to amend 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:

De Havilland Aircraft of Canada Limited (Type Certificate Previously Held by Bombardier, Inc.): Docket No. FAA– 2022–1482; Project Identifier MCAI– 2022–00697–T.

### (a) Comments Due Date

The FAA must receive comments on this airworthiness directive (AD) by January 9, 2023.

### (b) Affected ADs

None.

# (c) Applicability

This AD applies to De Havilland Aircraft of Canada Limited (type certificate previously held by Bombardier, Inc.) Model DHC–8–401 and –402 airplanes, certificated in any category, serial numbers 4001, 4003 and subsequent.

### (d) Subject

Air Transport Association (ATA) of America Code 32, Landing Gear.

# (e) Unsafe Condition

This AD was prompted by an investigation of incorrectly manufactured sleeves that were potentially installed in the main landing gear (MLG) forward door linkages. The FAA is issuing this AD to address the discrepant sleeves with missing lubrication grooves, which can result in the fatigue failure of the forward door linkage, leading to possible interference with the extension or retraction of the corresponding MLG. The unsafe condition, if not corrected and when combined with other failures, could result in an asymmetric MLG configuration at landing and a subsequent runway excursion.

### (f) Compliance

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

# (g) Airplane Records Review

Within 30 days after the effective date of this AD, review the airplane records to determine whether any sleeve P/N 46878–1 was replaced after October 29, 2019, on any MLG forward door linkage assembly P/N 46860.

- (1) For any sleeve P/N 46878–1 that was replaced after October 29, 2019, and for any sleeve for which its replacement date cannot be conclusively determined from the records: Within 1,500 flight cycles after the effective date of this AD, do the actions specified in paragraphs (g)(1)(i) and (ii) of this AD, in accordance with Section 3.B. of the Accomplishment Instructions of De Havilland Aircraft of Canada Limited Service Bulletin (SB) 84–32–169, dated February 28, 2022.
- (i) Do a general visual inspection of the sleeve for the presence of lubrication grooves, and before further flight replace any sleeve that does not have lubrication grooves.
- (ii) Do a general visual inspection of the MLG forward door linkage assemblies (swivel link, clevis assembly, and swivel end assembly) for damage, deformation, erosion, and corrosion, and before further flight repair or replace the discrepant parts.
- (2) If the records confirm that no maintenance was performed on the MLG forward door linkage assembly P/N 46860 after October 29, 2019, no further action is required by this paragraph.

### (h) Parts Installation Prohibition

As of the effective date of this AD, no person may install, on any airplane, a sleeve P/N 46878–1 with missing lubrication grooves.

### (i) Additional AD Provisions

The following provisions also apply to this AD:

- (1) Alternative Methods of Compliance (AMOCs): The Manager, New York ACO 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 responsible Flight Standards Office, as appropriate. If sending information directly to the manager of the certification office, send it to the attention of the person identified in paragraph (j)(2) of this AD. Information may be emailed to: 9-AVS-AIR-730-AMOC@faa.gov or send it to ATTN: Program Manager, Continuing Operational Safety, FAA, New York ACO Branch, 1600 Stewart Avenue, Suite 410, Westbury, NY 11590; telephone 516–228–7300. Before using any approved AMOC, notify your appropriate principal inspector, or lacking a principal inspector, the manager of the responsible Flight Standards Office.
- (2) Contacting the Manufacturer: For any requirement in this AD to obtain instructions from a manufacturer, the instructions must be accomplished using a method approved by the Manager, New York ACO Branch, FAA; or Transport Canada; or De Havilland Aircraft of Canada Limited's Transport Canada Design Approval Organization (DAO). If approved by the DAO, the approval must include the DAO-authorized signature.

# (j) Additional Information

- (1) Refer to Transport Canada AD CF–2022–29, dated May 27, 2022, for related information. This Transport Canada AD may be found in the AD docket at *regulations.gov* under Docket No. FAA–2022–1482.
- (2) For more information about this AD, contact Gabriel Kim, Aerospace Engineer, Mechanical Systems and Administrative Services Section, FAA, New York ACO Branch, 1600 Stewart Avenue, Suite 410, Westbury, NY 11590; telephone 516–228–7300; email 9-avs-nyaco-cos@faa.gov.

# (k) 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) De Havilland Aircraft of Canada Limited Service Bulletin (SB) 84–32–169, dated February 28, 2022.
  - (ii) [Reserved]
- (3) For service information identified in this AD, contact De Havilland Aircraft of Canada Limited, Dash 8 Series Customer Response Centre, 5800 Explorer Drive, Mississauga, Ontario, L4W 5K9, Canada; telephone North America (toll-free): 855–310–1013, Direct: 647–277–5820; email thd@dehavilland.com; website dehavilland.com.

- (4) You may view this service information at the FAA, Airworthiness Products Section, Operational Safety 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, email fr.inspection@nara.gov, or go to: www.archives.gov/federal-register/cfr/ibrlocations.html.

Issued on November 15, 2022.

### Ross Landes,

Deputy Director for Regulatory Operations, Compliance & Airworthiness Division, Aircraft Certification Service.

[FR Doc. 2022–25692 Filed 11–23–22; 8:45 am] BILLING CODE 4910–13–P

### **DEPARTMENT OF TRANSPORTATION**

# **Federal Aviation Administration**

### 14 CFR Part 71

[Docket No. FAA-2022-1399; Airspace Docket No. 22-AGL-22]

RIN 2120-AA66

Proposed Amendment of VOR Federal Airways V-126, V-156, V-233, and V-422, and Revocation of V-340 and V-371 in the Vicinity of Knox, IN

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

**ACTION:** Notice of proposed rulemaking (NPRM).

SUMMARY: This action proposes to amend VHF Omnidirectional Range (VOR) Federal airways V–126, V–156, V–233, and V–422, and revoke VOR Federal airways V–340 and V–371. The FAA is proposing this action due to the planned decommissioning of the VOR portion of the Knox, IN (OXI), VOR/Distance Measuring Equipment (VOR/DME) navigational aid (NAVAID). The Knox VOR is being decommissioned in support of the FAA's VOR Minimum Operational Network (MON) program.

**DATES:** Comments must be received on or before January 9, 2023.

ADDRESSES: Send comments on this proposal to the U.S. Department of Transportation, Docket Operations, 1200 New Jersey Avenue SE, West Building Ground Floor, Room W12–140, Washington, DC 20590; telephone: 1(800) 647–5527, or (202) 366–9826. You must identify FAA Docket No. FAA–2022–1399; Airspace Docket No. 22–AGL–22 at the beginning of your comments. You may also submit comments through the internet at www.regulations.gov.