

**DEPARTMENT OF TRANSPORTATION****Federal Aviation Administration****14 CFR Part 39**

[Docket No. FAA-2022-0470; Project Identifier MCAI-2021-01002-T]

RIN 2120-AA64

**Airworthiness Directives; 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 all Bombardier, Inc., Model BD-700-1A10 and BD-700-1A11 airplanes. This proposed AD was prompted by reports that some oxygen box assemblies had their piston ejected during the mask deployment test. This proposed AD would require a one-time inspection of each passenger oxygen box dual manifold assembly to find and replace affected parts. This proposed AD would also prohibit installing 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 June 10, 2022.

**ADDRESSES:** You may send comments, using the procedures found in 14 CFR 11.43 and 11.45, by any of the following methods:

- *Federal eRulemaking Portal:* Go to <https://www.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 holidays.

For service information identified in this NPRM, contact Bombardier Business Aircraft Customer Response Center, 400 Côte-Vertu Road West, Dorval, Québec H4S 1Y9, Canada; telephone 514-855-2999; email [ac.yul@aero.bombardier.com](mailto:ac.yul@aero.bombardier.com); internet <https://www.bombardier.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.

**Examining the AD Docket**

You may examine the AD docket at <https://www.regulations.gov> by searching for and locating Docket No. FAA-2022-0470; 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, any comments received, and other information. The street address for Docket Operations is listed above.

**FOR FURTHER INFORMATION CONTACT:**

Elizabeth Dowling, 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](mailto: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 your comments to an address listed under **ADDRESSES**. Include “Docket No. FAA-2022-0470; Project Identifier MCAI-2021-01002-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 the 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 <https://www.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 Elizabeth Dowling, 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](mailto: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 Civil Aviation (TCCA), which is the aviation authority for Canada, has issued TCCA AD CF-2021-30, dated September 7, 2021 (TCCA AD CF-2021-30) (also referred to after this as the Mandatory Continuing Airworthiness Information, or the MCAI), to correct an unsafe condition for all Bombardier, Inc., Model BD-700-1A10 and BD-700-1A11 airplanes. You may examine the MCAI in the AD docket at <https://www.regulations.gov> by searching for and locating Docket No. FAA-2022-0470.

This proposed AD was prompted by reports that some passenger oxygen box dual manifold assemblies had their piston ejected during the mask deployment test due to a non-conformity in manufacturing. The FAA is proposing this AD to address a possible in-service piston ejection when used for emergency descent, smoke, or fire that may result in a high rate of oxygen leakage, which could prematurely deplete the oxygen for all passengers. See the MCAI for additional background information.

**Related Service Information Under 14 CFR Part 51**

Bombardier, Inc., has issued the following service information.

- Service Bulletin 700-35-5004, Revision 02, dated August 27, 2021.
- Service Bulletin 700-35-5502, dated August 27, 2021.
- Service Bulletin 700-35-6004, Revision 05, dated August 27, 2021.
- Service Bulletin 700-35-6502, dated August 27, 2021.

This service information describes procedures for inspecting each passenger oxygen box dual manifold assembly to find affected parts, and replacing affected parts. These documents are distinct because they apply to different airplane configurations.

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.

#### 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, the FAA has been notified of the unsafe condition described in the MCAI and service

information referenced above. The FAA is proposing this AD because the FAA evaluated all the relevant information and determined the unsafe condition described previously is likely to exist or develop on 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.

#### Costs of Compliance

The FAA estimates that this AD, if adopted as proposed, would affect 308 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
1 work-hour × \$85 per hour = \$85 .....	\$0	\$85	\$26,180

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 this on-condition action:

#### ESTIMATED COSTS OF ON-CONDITION ACTIONS

Labor cost	Parts cost	Cost per product
Up to 34 work-hours × \$85 per hour = \$2,890 .....	Up to \$1,700 .....	Up to \$4,590.

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:

**Bombardier, Inc.:** Docket No. FAA-2022-0470; Project Identifier MCAI-2021-01002-T.

#### (a) Comments Due Date

The FAA must receive comments on this airworthiness directive (AD) by June 10, 2022.

#### (b) Affected ADs

None.

#### (c) Applicability

This AD applies to all Bombardier, Inc., Model BD-700-1A10 and BD-700-1A11 airplanes, certificated in any category.

#### (d) Subject

Air Transport Association (ATA) of America Code 35, Oxygen.

#### (e) Unsafe Condition

This AD was prompted by reports that some passenger oxygen box dual manifold had their piston ejected during the mask deployment test due to a non-conformity in manufacturing. The FAA is issuing this AD to address a possible in-service piston ejection when used for emergency descent, smoke, or fire that may result in a high rate of oxygen leakage, which could prematurely deplete the oxygen for all passengers.

**(f) Compliance**

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

**(g) Definition**

An affected part is a passenger oxygen box assembly having a dual manifold assembly having part number 100-009-39 and a lot

and serial number specified in figure 1 to paragraph (g) of this AD.

**BILLING CODE 4910-13-P**

**Figure 1 to paragraph (g) – Affected Part**

<b>Lot Numbers Affected</b>	<b>Serial Numbers Affected</b>
3516-001	3516-001-01 through 3516-001-60 inclusive
3538-002	3538-002-01 through 3538-002-60 inclusive
3598-001	3598-001-01 through 3598-001-60 inclusive
3568-001	3568-001-01 through 3568-001-60 inclusive
3724-001	3724-001-01 through 3724-001-20 inclusive
3724-002	3724-002-01 through 3724-002-12 inclusive
3706-001	3706-001-01 through 3706-001-40 inclusive

**(h) Required Actions**

Within the applicable compliance time specified in paragraph (h)(1) or (2) of this AD: Inspect each passenger oxygen box dual manifold assembly to determine if it is an affected part, as defined in paragraph (g) of this AD, and replace any affected part in

accordance with paragraph 2.B. of the Accomplishment Instructions of the applicable Bombardier service bulletin specified in figure 2 to paragraph (h) of this AD. Replace any affected part before further flight.

(1) For airplanes having serial numbers 9771, 9779, 9784, 9788 through 9824

inclusive, 9853 through 9857 inclusive, and 9859 through 9876 inclusive, within 4 months after the effective date of this AD.

(2) For airplane having serial numbers 9877 through 9879 inclusive, and 60001 through 60042 inclusive, within 30 months after the effective date of this AD.

**Figure 2 to paragraph (h) – Applicable Service Bulletins**

<b>Airplane Model and Serial Numbers</b>	<b>Applicable Service Bulletin</b>
BD-700-1A10, serial numbers 9771, 9779, 9784, 9788, 9789, 9791 through 9797 inclusive, 9799 through 9806 inclusive, 9808, 9809, 9811, 9812, 9814 through 9818 inclusive, 9820 through 9824 inclusive, 9853 through 9857 inclusive, 9859, 9860, 9863 through 9871 inclusive, 9873 through 9879 inclusive, and 60005 through 60042 inclusive	700-35-6004, Revision 05, dated August 27, 2021
BD-700-1A10, serial numbers 9861, 9872, and 60001 through 60042 inclusive	700-35-6502, dated August 27, 2021
BD-700-1A11 serial numbers 9790, 9798, 9807, 9810, 9813, 9819, 9853 through 9857 inclusive, 9859 through 9862 inclusive, and 9868 through 9879 inclusive	700-35-5004, Revision 02, dated August 27, 2021
BD-700-1A11, serial numbers 60007 through 60042 inclusive	700-35-5502, dated August 27, 2021

**(i) Parts Installation Prohibition**

As of the effective date of this AD, no person may install an affected part as defined in paragraph (g) of this AD, on any airplane.

**(j) Credit for Previous Actions**

This paragraph provides credit for actions required by paragraph (h) of this AD, if those actions were performed before the effective date of this AD using the service information

specified in paragraphs (j)(1) through (7) of this AD, as applicable.

(1) Bombardier Service Bulletin 700-35-5004, dated December 10, 2018.

(2) Bombardier Service Bulletin 700-35-5004, Revision 01, dated November 29, 2019.

(3) Bombardier Service Bulletin 700–35–6004, dated December 10, 2018.

(4) Bombardier Service Bulletin 700–35–6004, Revision 01, dated January 16, 2019.

(5) Bombardier Service Bulletin 700–35–6004, Revision 02, dated April 5, 2019.

(6) Bombardier Service Bulletin 700–35–6004, Revision 03, dated May 31, 2019.

(7) Bombardier Service Bulletin 700–35–6004, Revision 04, dated November 29, 2019.

#### (k) Other FAA 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 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 Civil Aviation (TCCA); or Bombardier, Inc.'s TCCA Design Approval Organization (DAO). If approved by the DAO, the approval must include the DAO-authorized signature.

#### (l) Related Information

(1) Refer to Mandatory Continuing Airworthiness Information (MCAI) TCCA AD CF–2021–30, dated September 7, 2021, for related information. This MCAI may be found in the AD docket on the internet at <https://www.regulations.gov> by searching for and locating Docket No. FAA–2022–0470.

(2) For more information about this AD, contact Elizabeth Dowling, 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](mailto:9-avs-nyaco-cos@faa.gov).

(3) For service information identified in this AD, contact Bombardier Business Aircraft Customer Response Center, 400 Côte-Vertu Road West, Dorval, Québec H4S 1Y9, Canada; telephone 514–855–2999; email [ac.yul@aero.bombardier.com](mailto:ac.yul@aero.bombardier.com); internet <https://www.bombardier.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.

Issued on April 20, 2022.

**Lance T. Gant,**

*Director, Compliance & Airworthiness Division, Aircraft Certification Service.*

[FR Doc. 2022–08822 Filed 4–25–22; 8:45 am]

**BILLING CODE 4910–13–C**

## DEPARTMENT OF TRANSPORTATION

### Federal Aviation Administration

#### 14 CFR Part 71

**[Docket No. FAA–2022–0440; Airspace Docket No. 19–AAL–45]**

**RIN 2120–AA66**

### Proposed Establishment of United States Area Navigation (RNAV) Route T–376 in the Vicinity of Iliamna, AK

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

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

**SUMMARY:** This action proposes to establish United States Area Navigation (RNAV) route, in the vicinity of Iliamna, AK. This action is in support of a large and comprehensive RNAV T-route modernization project for the state of Alaska.

**DATES:** Comments must be received on or before June 10, 2022.

**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: (800) 647–5527, or (202) 366–9826. You must identify FAA Docket No. FAA–2022–0440; Airspace Docket No. 19–AAL–45 at the beginning of your comments. You may also submit comments through the internet at <https://www.regulations.gov>.

FAA Order JO 7400.11F, Airspace Designations and Reporting Points, and subsequent amendments can be viewed online at [https://www.faa.gov/air\\_traffic/publications/](https://www.faa.gov/air_traffic/publications/). For further information, you can contact the Rules and Regulations Group, Federal Aviation Administration, 800 Independence Avenue SW, Washington, DC 20591; telephone: (202) 267–8783.

**FOR FURTHER INFORMATION CONTACT:** Jesse Acevedo, Rules and Regulations Group, Office of Policy, Federal Aviation Administration, 800 Independence Avenue SW, Washington, DC 20591; telephone: (202) 267–8783.

#### SUPPLEMENTARY INFORMATION:

#### Authority for This Rulemaking

The FAA's authority to issue rules regarding aviation safety is found in

Title 49 of the United States Code. 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. This rulemaking is promulgated under the authority described in Subtitle VII, Part A, Subpart I, Section 40103. Under that section, the FAA is charged with prescribing regulations to assign the use of the airspace necessary to ensure the safety of aircraft and the efficient use of airspace. This regulation is within the scope of that authority as it would expand the availability of RNAV in Alaska and improve the efficient flow of air traffic within the National Airspace System (NAS) by lessening the dependency on ground based navigation.

#### Comments Invited

Interested parties are invited to participate in this proposed rulemaking by submitting such written data, views, or arguments as they may desire. Comments that provide the factual basis supporting the views and suggestions presented are particularly helpful in developing reasoned regulatory decisions on the proposal. Comments are specifically invited on the overall regulatory, aeronautical, economic, environmental, and energy-related aspects of the proposal.

Communications should identify both docket numbers (FAA Docket No. FAA–2022–0440; Airspace Docket No. 19–AAL–45) and be submitted in triplicate to the Docket Management Facility (see **ADDRESSES** section for address and phone number). You may also submit comments through the internet at <https://www.regulations.gov>.

Commenters wishing the FAA to acknowledge receipt of their comments on this action must submit with those comments a self-addressed, stamped postcard on which the following statement is made: “Comments to FAA Docket No. FAA–2022–0440; Airspace Docket No. 19–AAL–45.” The postcard will be date/time stamped and returned to the commenter.

All communications received on or before the specified comment closing date will be considered before taking action on the proposed rule. The proposal contained in this action may be changed in light of comments received. All comments submitted will be available for examination in the public docket both before and after the comment closing date. A report summarizing each substantive public contact with FAA personnel concerned with this rulemaking will be filed in the docket.