Proposed Rules

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This section of the FEDERAL REGISTER contains notices to the public of the proposed issuance of rules and regulations. The purpose of these notices is to give interested persons an opportunity to participate in the rule making prior to the adoption of the final rules.

DEPARTMENT OF TRANSPORTATION

Federal Aviation Administration

14 CFR Part 25

[Docket No. FAA-2020-0519; Notice No. 25-20-06-SC]

Special Conditions: Aerospace Design and Compliance, LLC, Bombardier, Inc. Model CL-600-2B19 Airplane; Installation of a Therapeutic Oxygen System for Medical Use

AGENCY: Federal Aviation Administration (FAA), DOT.

ACTION: Notice of proposed special conditions.

SUMMARY: This action proposes special conditions for the Bombardier Inc. (Bombardier) Model CL-600-2B19 airplane. This airplane, as modified by Aerospace Design and Compliance, LLC (Aerospace Design and Compliance), will have a novel or unusual design feature when compared to the state of technology envisioned in the airworthiness standards for transport category airplanes. The design feature is an installation of a therapeutic oxygen system for medical use. The applicable airworthiness regulations do not contain adequate or appropriate safety standards for this design feature. These proposed special conditions contain the additional safety standards that the Administrator considers necessary to establish a level of safety equivalent to that established by the existing airworthiness standards.

DATES: Send comments on or before July 6, 2020.

ADDRESSES: Send comments identified by Docket No. FAA–2020–0519 using any of the following methods:

- Federal eRegulations Portal: Go to http://www.regulations.gov/ and follow the online instructions for sending your comments electronically.
- *Mail*: Send comments to Docket Operations, M–30, U.S. Department of Transportation (DOT), 1200 New Jersey Avenue SE, Room W12–140, West

Building Ground Floor, Washington, DC 20590–0001.

- Hand Delivery or Courier: Take comments to Docket Operations in Room W12–140 of the West Building Ground Floor at 1200 New Jersey Avenue SE, Washington, DC, between 9 a.m. and 5 p.m., Monday through Friday, except Federal holidays.
- *Fax:* Fax comments to Docket Operations at 202–493–2251.

Privacy: The FAA will post all comments it receives, without change, to http://www.regulations.gov/, including any personal information the commenter provides. Using the search function of the docket website, anyone can find and read the electronic form of all comments received into any FAA docket, including the name of the individual sending the comment (or signing the comment for an association, business, labor union, etc.). DOT's complete Privacy Act Statement can be found in the **Federal Register** published on April 11, 2000 (65 FR 19477–19478).

Docket: Background documents or comments received may be read at http://www.regulations.gov/ at any time. Follow the online instructions for accessing the docket or go to Docket Operations in Room W12–140 of the West Building Ground Floor at 1200 New Jersey Avenue SE, Washington, DC, between 9 a.m. and 5 p.m., Monday through Friday, except Federal holidays.

FOR FURTHER INFORMATION CONTACT:

Robert Hettman, Propulsion & Mechanical Systems, AIR–672, Transport Standards Branch, Policy and Innovation Division, Aircraft Certification Service, Federal Aviation Administration, 2200 South 216th Street, Des Moines, Washington 98198; telephone and fax 206–231–3171; email Robert.Hettman@faa.gov.

SUPPLEMENTARY INFORMATION:

Comments Invited

The FAA invites interested people to take part in this rulemaking by sending written comments, data, or views. The most helpful comments reference a specific portion of the special conditions, explain the reason for any recommended change, and include supporting data.

The FAA will consider all comments received by the closing date for comments. The FAA may change these special conditions based on the comments received.

Background

On November 20, 2019, Aerospace Design and Compliance applied for a supplemental type certificate for the installation of a therapeutic oxygen system for medical use in the executive interiors of the Bombardier Model CL–600–2B19 airplane. The Model CL–600–2B19 airplane, which is currently approved under Type Certificate No. A21EA, is a twin-engine transport airplane with a maximum takeoff weight of 47,450 lbs. The Model CL–600–2B19 airplane will have 55 seats approved for taxi, takeoff, and landing.

Type Certification Basis

Under the provisions of title 14, Code of Federal Regulations (14 CFR) 21.101, Aerospace Design and Compliance must show that the Bombardier Model CL–600–2B19 airplane, as changed, continues to meet the applicable provisions of the regulations listed in Type Certificate No. A21EA, or the applicable regulations in effect on the date of application for the change, except for earlier amendments as agreed upon by the FAA.

If the Administrator finds that the applicable airworthiness regulations (e.g., 14 CFR part 25) do not contain adequate or appropriate safety standards for the Bombardier Model CL–600–2B19 airplane because of a novel or unusual design feature, special conditions are prescribed under the provisions of § 21.16.

Special conditions are initially applicable to the model for which they are issued. Should the applicant apply for a supplemental type certificate to modify any other model included on the same type certificate to incorporate the same novel or unusual design feature, these special conditions would also apply to the other model under § 21.101.

In addition to the applicable airworthiness regulations and special conditions, the Bombardier Model CL–600–2B19 airplane must comply with the fuel-vent and exhaust-emission requirements of 14 CFR part 34, and the noise certification requirements of 14 CFR part 36.

The FAA issues special conditions, as defined in 14 CFR 11.19, in accordance with § 11.38, and they become part of the type certification basis under § 21.101.

Novel or Unusual Design Features

The Bombardier Model CL-600-2B19 airplane will incorporate the following novel or unusual design features:

A therapeutic oxygen system for medical use.

As a part of the executive interior installation, the gaseous passenger oxygen system will be outfitted with a therapeutic oxygen system. The therapeutic oxygen system shares the same supply of oxygen with the existing passenger oxygen system and consists of multiple constant flow oxygen outlets located throughout the cabin. The flightcrew can turn the therapeutic oxygen system on and off from the flightdeck to allow use at any point during the flight, and to preserve a sufficient remaining oxygen reserve, in the event therapeutic oxygen is used for medical purposes, to accommodate the passengers in the event of an emergency oxygen situation.

Discussion

No specific regulations address the design and installation of required passenger oxygen systems that share a supply source with an optional oxygen system used specifically for therapeutic applications. Therapeutic oxygen systems have been previously certified, and were generally considered an extension of the passenger oxygen system for the purpose of defining the applicable regulations. As a result, existing requirements, such as §§ 25.1309, 25.1441(b) and (c), 25.1451, and 25.1453, in the Bombardier Model CL-600-2B19 airplanes' certification basis applicable to this STC project, provide some design standards appropriate for oxygen system installations. In addition, § 25.1445 includes standards for oxygen distribution systems when oxygen is supplied to flightcrew and passengers. If a common source of supply is used, § 25.1445(a)(2) requires a means to separately reserve the minimum supply required by the flightcrew.

Section 25.1445 is intended to protect the flightcrew by ensuring that an adequate supply of oxygen is available to complete a descent and landing following a loss of cabin pressure. When the regulation was written, the only passenger oxygen system designs were supplemental oxygen systems intended to protect passengers from hypoxia in the event of a decompression. Existing passenger oxygen systems did not include design features that would allow the flightcrew to control oxygen to passengers during flight. There are no similar requirements in § 25.1445 when oxygen is supplied from the same

source to passengers for use during a decompression, and for discretionary or first-aid use any time during the flight. In the proposed design, the passenger and therapeutic oxygen systems use the same source of oxygen. The special conditions contain additional design requirements for the equipment involved in this dual therapeutic oxygen plus gaseous oxygen installation.

Furthermore, the potential hazard that can exist when the oxygen content of an enclosed area becomes too high because of system leaks, malfunction, or damage from external sources, make it necessary to ensure that adequate safety standards are applied to the design and installation of the oxygen system in Bombardier Model CL-600-2B19 airplanes. These potential hazards also necessitate development and application of appropriate additional design and installation standards.

The proposed special conditions contain the additional safety standards that the Administrator considers necessary to establish a level of safety equivalent to that established by the existing airworthiness standards.

Applicability

As discussed above, these special conditions are applicable to the Bombardier Model CL-600-2B19 airplane as modified by Aerospace Design and Compliance. Should Aerospace Design and Compliance apply at a later date for a supplemental type certificate to modify any other model included on Type Certificate No. A21EA, to incorporate the same novel or unusual design feature, these special conditions would apply to that model as well.

Certification of the Bombardier Model CL-600-2B19 airplane is currently scheduled for May 2020. The substance of these special conditions has been subject to the notice and public comment procedure in several prior instances with no public comments received. Therefore, because a delay would significantly affect the applicant's installation of the system and the certification of the airplane, the FAA is shortening the public comment period to 20 days.

Conclusion

This action affects only a certain novel or unusual design feature on one model of airplane. It is not a rule of general applicability and affects only the applicant who applied to the FAA for approval of these features on the airplane.

List of Subjects in 14 CFR Part 25

Aircraft, Aviation safety, Reporting and recordkeeping requirements.

Authority Citation

The authority citation for these special conditions is as follows:

Authority: 49 U.S.C. 106(f), 106(g), 40113, 44701, 44702, 44704.

The Proposed Special Conditions

Accordingly, the Federal Aviation Administration (FAA) proposes the following special conditions as part of the type certification basis for Bombardier Model CL-600-2B19 airplanes, as modified by Aerospace Design and Compliance, LLC.

The distribution system for the passenger therapeutic oxygen systems must be designed and installed to meet requirements as follows:

- 1. When oxygen is supplied to passengers for both supplemental and therapeutic purposes, the distribution system must be designed for either-
- a. A source of supplemental oxygen for protection following a loss of cabin pressure, and a separate source for therapeutic purposes: or
- b. A common source of supply with means to separately reserve the minimum supply required by the passengers for supplemental use following a loss of cabin pressure.

Issued in Des Moines, Washington, on May 21, 2020.

James E. Wilborn,

Acting Manager, Transport Standards Branch, Policy and Innovation Division, Aircraft Certification Service.

[FR Doc. 2020–11437 Filed 6–15–20; 8:45 am]

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DEPARTMENT OF TRANSPORTATION

Federal Aviation Administration

14 CFR Part 39

[Docket No. FAA-2020-0465; Product Identifier 2020-NM-074-AD]

RIN 2120-AA64

Airworthiness Directives; The Boeing **Company 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 The Boeing Company Model 787-8, 787-9, and 787-10 airplanes powered by Rolls Royce Trent 1000 engines. This proposed AD was prompted by reports