

Special conditions are initially applicable to the model for which they are issued. Should the type certificate for that model be amended later to include any other model that incorporates the same or similar novel or unusual design feature, the special conditions would also apply to the other model under § 21.101.

In addition to the applicable airworthiness regulations and special conditions, the BD-700-2A12 and BD-700-2A13 airplanes 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, and the FAA must issue a finding of regulatory adequacy under § 611 of Public Law 92-574, the "Noise Control Act of 1972."

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 § 21.17(a)(2).

Novel or Unusual Design Feature

The BD-700-2A12 and BD-700-2A13 airplanes will incorporate the following novel or unusual design feature: Side stick controllers for pitch and roll control, which are not mechanically interconnected as with conventional wheel and column controls. These airplanes also have a fly-by-wire electronic flight control system. This system provides an electronic interface between the pilot's flight controls and the flight control surfaces for both normal and failure states, and it generates the actual surface commands that provide for stability augmentation and control about all three airplane axes. In addition, pilot control authority may be uncertain, because the side sticks are not mechanically interconnected as with conventional wheel and column controls.

Discussion

Current FAA regulations do not specifically address the use of side stick controllers for pitch and roll control. The unique features of the side stick must therefore be demonstrated through flight and simulator tests to have suitable handling and control characteristics when considering the following:

1. The handling qualities tasks/requirements of the BD-700-2A12 and BD-700-2A13 airplanes special conditions and other part 25 stability, control, and maneuverability requirements, including the effects of turbulence.

2. General ergonomics: Arm rest comfort and support, local freedom of

movement, displacement angle suitability, and axis harmony.

3. Inadvertent input in turbulence.
4. Inadvertent pitch-roll cross talk.

These special conditions elaborate on these requirements and 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.

The FAA Handling Qualities Rating Method (HQR) in appendix 5 of Advisory Circular 25-7C, "Flight Test Guide for Certification of Transport Category Airplanes," may be used to show compliance.

Applicability

As discussed above, these special conditions are applicable to the Bombardier Inc. Models BD-700-2A12 and BD-700-2A13 series airplanes. Should Bombardier Inc. apply at a later date for a change to the type certificate to include another model incorporating the same novel or unusual design feature, these special conditions would apply to that model as well.

Conclusion

This action affects only certain novel or unusual design features on two model series of airplanes. It is not a rule of general applicability.

The substance of these special conditions has been subjected to the notice and comment period in several prior instances and has been derived without substantive change from those previously issued. It is unlikely that prior public comment would result in a significant change from the substance contained herein. Therefore, the FAA has determined that prior public notice and comment are unnecessary, and good cause exists for adopting these special conditions upon publication in the **Federal Register**. The FAA is requesting comments to allow interested persons to submit views that may not have been submitted in response to the prior opportunities for comment described above.

List of Subjects in 14 CFR Part 25

Aircraft, Aviation safety, Reporting and recordkeeping requirements.

- The authority citation for these special conditions is as follows:

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

The Special Conditions

- Accordingly, pursuant to the authority delegated to me by the Administrator, the following special conditions are issued as part of the type certification

basis for the Bombardier Inc. Models BD-700-2A12 and BD-700-2A13 series airplanes.

- In the absence of specific requirements for side stick controllers, the following apply:

1. *Pilot strength:* In lieu of the "strength of pilots" limits shown in § 25.143(d) for pitch and roll, and in lieu of specific pitch force requirement of §§ 25.143(i)(2), 25.145(b), and 25.175(d), Bombardier must show that the temporary and maximum prolonged force levels for the side stick controllers are suitable for all expected operating conditions and configurations, whether normal or non-normal.

2. *Pilot control authority:* The electronic side stick controller coupling design must provide for corrective and/or overriding control inputs by either pilot with no unsafe characteristics. Annunciation of the controller status must be provided and must not be confusing to the flightcrew.

3. *Pilot control:* Bombardier must show by flight tests that the use of side stick controllers does not produce unsuitable pilot-in-the-loop control characteristics when considering precision path control/tasks and turbulence. In addition, pitch and roll control force and displacement sensitivity must be compatible, so that normal inputs on one control axis will not cause significant unintentional inputs on the other.

Issued in Renton, Washington, on June 17, 2015.

Jeffrey E. Duven,

Manager, Transport Airplane Directorate, Aircraft Certification Service.

[FR Doc. 2015-19459 Filed 8-6-15; 8:45 am]

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DEPARTMENT OF TRANSPORTATION

Federal Aviation Administration

14 CFR Part 25

[Docket No. FAA-2015-2566; Special Conditions No. 25-587-SC]

Special Conditions: Bombardier Inc., Models BD-700-2A12 and BD-700-2A13 Series Airplanes; Electronic Flight Control System; Control Surface Awareness and Mode Annunciation

AGENCY: Federal Aviation Administration (FAA), DOT.

ACTION: Final special conditions; request for comments.

SUMMARY: These special conditions are issued for the Bombardier Inc. Models BD-700-2A12 and BD-700-2A13 series airplanes. These airplanes will have

novel or unusual design features when compared to the state of technology envisioned in the airworthiness standards for transport category airplanes. These design features are a fly-by-wire electronic flight control system (EFCS) and no direct coupling from the flight deck controller to the control surface. As a result, the pilot is not aware of the actual control surface position. The applicable airworthiness regulations do not contain adequate or appropriate safety standards for these design features. These 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: This action is effective on Bombardier Inc. on August 7, 2015. We must receive your comments by September 21, 2015.

ADDRESSES: Send comments identified by docket number FAA-2015-2566 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 Web site, 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), as well as at <http://DocketsInfo.dot.gov/>.

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 the 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: Joe Jacobsen, FAA, Airplane and Flightcrew Interface Branch, ANM-111, Transport Airplane Directorate, Aircraft Certification Service, 1601 Lind Avenue SW., Renton, Washington 98057-3356; telephone 425-227-2011; facsimile 425-227-1149.

SUPPLEMENTARY INFORMATION: The substance of these special conditions has been subject to the public comment process in several prior instances with no substantive comments received. The FAA therefore finds that good cause exists for making these special conditions effective upon publication in the **Federal Register**.

Comments Invited

We invite 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.

We will consider all comments we receive on or before the closing date for comments. We may change these special conditions based on the comments we receive.

Background

Bombardier Inc. located in Montreal, Canada, applied to Transport Canada Civil Aviation (TCCA) on January 7, 2012, and May 30, 2012, for two amended type certificates in the transport airplane category for two new airplane models designated as the BD-700-2A12 and BD-700-2A13. These airplanes are 19-passenger, twin-engine, ultra long-range large airplanes targeting the executive interior business jet market. They share an identical supplier base and significant common design elements including a fly-by-wire electronic flight control system (EFCS).

Type Certification Basis

Under the provisions of Title 14, Code of Federal Regulations (14 CFR) 21.17, Bombardier Inc. must show that the BD-700-2A12 and BD-700-2A13 airplanes meet the applicable provisions of 14 CFR part 25 as amended by Amendments 25-1 through 25-138 except for Amendment 25-137.

If the Administrator finds that the applicable airworthiness regulations (*i.e.*, 14 CFR part 25) do not contain adequate or appropriate safety standards for the BD-700-2A12 and BD-700-2A13 airplanes 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 type certificate for that model be amended later to include any other model that incorporates the same or similar novel or unusual design features, these special conditions would also apply to the other model under § 21.101.

In addition to the applicable airworthiness regulations and special conditions, the BD-700-2A12 and BD-700-2A13 airplanes 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, and the FAA must issue a finding of regulatory adequacy under § 611 of Public Law 92-574, the "Noise Control Act of 1972."

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 § 21.17(a)(2).

Novel or Unusual Design Features

The BD-700-2A12 and BD-700-2A13 airplanes will incorporate the following novel or unusual design features: A fly-by-wire EFCS and no direct coupling from the flight deck controller to the control surface. As a result, the pilot is not aware of the actual control surface position as envisioned under current airworthiness standards.

Discussion

These special conditions require that the flightcrew receive a suitable flight control position annunciation when a flight condition exists in which nearly full surface authority (not crew-commanded) is being used. Suitability of such a display must take into account that some pilot-demanded maneuvers (*e.g.*, rapid roll) are necessarily associated with intended full performance, which may saturate the surface. Therefore, simple alerting systems function in both intended and unexpected control-limiting situations. As a result, they must be properly balanced between providing necessary crew awareness and being a potential nuisance to the flightcrew. A monitoring system that compares airplane motion and surface deflection with the demand of the pilot side-stick controller could help reduce nuisance alerting.

These special conditions also address flight control system mode annunciation. Suitable mode annunciation must be provided to the flightcrew for events that significantly change the operating mode of the

system but do not merit the classic “failure warning.”

These 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 Models BD-700-2A12 and BD-700-2A13 series airplanes. Should Bombardier Inc. apply at a later date for a change to the type certificate to include another model incorporating the same novel or unusual design features, these special conditions would apply to that model as well.

Conclusion

This action affects only certain novel or unusual design features on two model series of airplanes. It is not a rule of general applicability.

The substance of these special conditions has been subjected to the notice and comment period in several prior instances and has been derived without substantive change from those previously issued. It is unlikely that prior public comment would result in a significant change from the substance contained herein. Therefore, the FAA has determined that prior public notice and comment are unnecessary, and good cause exists for adopting these special conditions upon publication in the **Federal Register**. The FAA is requesting comments to allow interested persons to submit views that may not have been submitted in response to the prior opportunities for comment described above.

List of Subjects in 14 CFR Part 25

Aircraft, Aviation safety, Reporting and recordkeeping requirements.

■ The authority citation for these special conditions is as follows:

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

The Special Conditions

■ Accordingly, pursuant to the authority delegated to me by the Administrator, the following special conditions are issued as part of the type certification basis for the Bombardier Inc. Models BD-700-2A12 and BD-700-2A13 series airplanes.

1. In addition to the requirements of §§ 25.143, 25.671, and 25.672, the following requirements apply:

a. The system design must ensure that the flightcrew is made suitably aware whenever the primary control means nears the limit of control authority.

Note: The term “suitably aware” indicates annunciations provided to the flightcrew are appropriately balanced between nuisance and that necessary for crew awareness.

b. If the design of the flight control system has multiple modes of operation, a means must be provided to indicate to the flightcrew any mode that significantly changes or degrades the normal handling or operational characteristics of the airplane.

Issued in Renton, Washington, on June 17, 2015.

Jeffrey E. Duven,

Manager, Transport Airplane Directorate, Aircraft Certification Service.

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DEPARTMENT OF COMMERCE

Bureau of Industry and Security

15 CFR Parts 744 and 746

[Docket No. 150610514-5514-01]

RIN 0694-AG66

Russian Sanctions: Addition to the Entity List To Prevent Violations of Russian Industry Sector Sanctions

AGENCY: Bureau of Industry and Security, Commerce.

ACTION: Final rule.

SUMMARY: This final rule amends the Export Administration Regulations (EAR) to further implement U.S. sanctions on certain Russian energy projects. Specifically, in this rule, the Bureau of Industry and Security (BIS) amends the EAR by adding a Russian oil and gas field, the Yuzhno-Kirinskoye Field located in the Sea of Okhotsk, to the Entity List. This Russian field is reported to contain substantial reserves of oil in addition to reserves of gas. The U.S. Government has determined, therefore, that exports, reexports, and transfers (in-country) of all items subject to the EAR to this Russian field by any person without first obtaining a BIS license present an unacceptable risk of use in, or diversion to, the activities specified in the Russian industry sector sanctions. Thus, as part of the BIS “is informed” process, this final rule adds this Russian field to the Entity List to further implement the Russian industry sector sanctions. This Russian field will be listed on the Entity List under the destination of Russia. This final rule clarifies the introductory text of the Entity List to specify that the embargoes and other special controls part of the EAR is also used to add entities to the

Entity List. Lastly, this final rule makes a change to the Russian industry sector sanctions by clarifying the additional prohibition on those informed by BIS also includes end-uses that are within the scope of the Russian Industry sector sanctions.

DATES: This rule is effective August 7, 2015.

FOR FURTHER INFORMATION CONTACT: For this Entity List-related change, contact the Chair, End-User Review Committee, Office of the Assistant Secretary, Export Administration, Bureau of Industry and Security, Department of Commerce, Phone: (202) 482-5991, Fax: (202) 482-3911, Email: ERC@bis.doc.gov. For the Russian industry sector sanctions referred to in this rule, contact Eileen Albanese, Director, Office of National Security and Technology Transfer Controls, Bureau of Industry and Security, Department of Commerce, Phone: (202) 482-0092, Fax: (202) 482-482-3355, Email: rp2@bis.doc.gov. For emails, include “Russia” in the subject line.

SUPPLEMENTARY INFORMATION:

Background

This final rule amends the Export Administration Regulations (EAR) to further implement U.S. sanctions on certain Russian energy projects. Specifically, in this rule, the Bureau of Industry and Security (BIS) amends the EAR by adding a Russian oil and gas field, the Yuzhno-Kirinskoye Field located in the Sea of Okhotsk, to the Entity List.

This Russian field is reported to contain substantial reserves of oil in addition to reserves of gas. The U.S. Government has determined, therefore, that exports, reexports, and transfers (in-country) of all items subject to the EAR to this Russian field by any person without first obtaining a BIS license present an unacceptable risk of use in, or diversion to, the activities specified in the Russian industry sector sanctions. Thus, as part of the BIS “is informed” process, this final rule adds this Russian field to the Entity List to further implement the Russian industry sector sanctions. This Russian field will be listed on the Entity List under the destination of Russia.

Entity List

The Entity List (Supplement No. 4 to Part 744) identifies entities and other persons reasonably believed to be involved, or to pose a significant risk of being or becoming involved, in activities contrary to the national security or foreign policy interests of the United States. The EAR imposes