with § 11.38, and they become part of the type certification basis under § 21.101.

# Novel or Unusual Design Features

The Gulfstream Model GVIII–G700 and GVIII–G800 series airplanes will incorporate the following novel or unusual design feature:

The installation of a digital system that contains a wireless and hardwired network with hosted application functionality that allows access, from sources internal to the airplane, to the airplane's internal electronic components.

## Discussion

The Gulfstream Model GVIII–G700 and GVIII–G800 series airplanes electronic system architecture and network configuration change are novel or unusual for commercial transport airplanes because they are composed of several connected wireless and hardwired networks. This proposed system and network architecture are used for a diverse set of airplane functions, including:

- Flight-safety related control and navigation systems,
- Airline business and administrative support, and
  - Passenger entertainment.

The airplanes' control domains and airline information services domain of these networks perform functions required for the safe operation and maintenance of the airplane. Previously, these domains had very limited connectivity with other network sources. This network architecture creates a potential for unauthorized persons to access the airplanes' control domain from sources internal to the airplane and presents security vulnerabilities related to the introduction of computer viruses and worms, user errors, and intentional sabotage of airplane electronic assets (networks, systems, and databases) critical to the safety and maintenance of the airplane.

The existing FAA regulations did not anticipate these networked airplanesystem architectures. Furthermore, these regulations and the current guidance material do not address potential security vulnerabilities, which could be exploited by unauthorized access to airplane networks, data buses, and servers. Therefore, these special conditions ensure that the security (i.e., confidentiality, integrity, and availability) of airplane systems will not be compromised by unauthorized wireless or hardwired electronic connections from within the airplane. These special conditions also require

the applicant to provide appropriate instruction to the operator to maintain all electronic-system safeguards that have been implemented as part of the original network design so that this feature does not allow or reintroduce security threats.

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 Gulfstream Model GVIII—G700 and GVIII—G800 series airplanes. Should Gulfstream apply at a later date for a change to the type certificate to include another model that incorporates the same novel or unusual design feature, or should any other model already included on the same type certificate be modified to incorporate the same novel or unusual design feature, these special conditions would apply to the other model as well.

## Conclusion

This action affects only a certain novel or unusual design feature on one model on Gulfstream Model GVIII–G700 and GVIII–G800 series of airplanes. It is not a rule of general applicability.

# 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, and 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 Gulfstream Model GVIII–G700 and GVIII–G800 series airplanes for airplane electronic-system internal access:

- 1. The applicant must ensure that the design provides isolation from, or airplane electronic-system security protection against, access by unauthorized sources internal to the airplane. The design must prevent inadvertent and malicious changes to, and all adverse impacts upon, airplane equipment, systems, networks, or other assets required for safe flight and operations.
- 2. The applicant must establish appropriate procedures to allow the

operator to ensure that continued airworthiness of the airplane is maintained, including all post-type certification modifications that may have an impact on the approved electronic-system security safeguards.

Issued in Kansas City, Missouri, on January 11, 2024.

## Patrick R. Mullen,

Manager, Technical Innovation Policy Branch, Policy and Innovation Division, Aircraft Certification Service.

[FR Doc. 2024–00842 Filed 1–17–24; 8:45 am]

BILLING CODE 4910-13-P

# **DEPARTMENT OF TRANSPORTATION**

## **Federal Aviation Administration**

# 14 CFR Part 25

[Docket No. FAA-2023-2440; Special Conditions No. 25-847-SC]

Special Conditions: Gulfstream Aerospace Corporation Model GVIII– G700 and GVIII–G800 Series Airplanes; Electronic System Security Protection From Unauthorized External Access

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

**ACTION:** Final special conditions; request for comments.

**SUMMARY:** These special conditions are issued for the Gulfstream Aerospace Corporation (Gulfstream) Model GVIII-G700 and GVIII-G800 series airplanes. These airplanes will have a novel or unusual design feature when compared to the state of technology envisioned in the airworthiness standards for transport-category airplanes. This design feature is associated with the installation of a digital systems architecture that will allow increased connectivity to and access from external network sources, (e.g., operator networks, wireless devices, internet connectivity, service provider satellite communications, electronic flight bags, etc.) to the airplane's previously isolated electronic assets (networks, systems, and databases). The applicable airworthiness regulations do not contain adequate or appropriate safety standards for this design feature. 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 Gulfstream on January 18, 2024. Send comments on or before March 4, 2024.

**ADDRESSES:** Send comments identified by Docket No. FAA–2023–2440 using any of the following methods:

- Federal eRegulations Portal: Go to 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.
- Docket: Background documents or comments received may be read at 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:

Thuan T. Nguyen, Avionics Software and Components Unit, AIR–626D, Technical Policy Branch, Aircraft Certification Service, Federal Aviation Administration, 2200 South 216th Street, Des Moines, Washington 98198; telephone and fax (206) 231–3365; email Thuan.T.Nguyen@faa.gov.

SUPPLEMENTARY INFORMATION: The substance of these special conditions has been published in the Federal Register for public comment in several prior instances with no substantive comments received. Therefore, the FAA finds, pursuant to 14 CFR 11.38(b), that new comments are unlikely, and notice and comment prior to this publication are unnecessary.

# **Privacy**

Except for Confidential Business Information (CBI) as described in the following paragraph, and other information as described in title 14, Code of Federal Regulations (14 CFR), § 11.35, the FAA will post all comments received without change to www.regulations.gov, including any personal information you provide. The FAA will also post a report summarizing each substantive verbal contact received about these special conditions.

## **Confidential Business Information**

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 these special conditions contain commercial or financial information that is customarily treated as private, that you actually treat as private, and that is relevant or responsive to these special conditions, 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 the indicated comments will not be placed in the public docket of these special conditions. Send submissions containing CBI to the individual listed in the FOR FURTHER INFORMATION **CONTACT** section above. Comments the FAA receives, which are not specifically designated as CBI, will be placed in the public docket for these special conditions.

# **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, and will consider comments filed late if it is possible to do so without incurring delay. The FAA may change these special conditions based on the comments received.

## **Background**

On December 31, 2019, Gulfstream applied for an amendment to Type Certificate No. T00015AT to include the new Model GVIII–G700 and GVIII–G800 series airplanes. The Model GVIII–G700 and GVIII–G800 series airplanes, which are derivatives of the Model GVI currently approved under Type Certificate No. T00015AT, are twinengine, transport-category airplanes, with a maximum seating for 19 passengers, and a maximum take-off weight of 107,600 pounds (GVIII–G700) and 105,600 pounds (GVIII–G800).

# **Type Certification Basis**

Under the provisions of title 14, Code of Federal Regulations (14 CFR), § 21.101, Gulfstream must show that the Model GVIII–G700 and GVIII–G800

series airplanes meet the applicable provisions of the regulations listed in Type Certificate No. T00015AT, 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 Gulfstream Model GVIII–G700 and GVIII–G800 series 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 novel or unusual design feature, or should any other model already included on the same type certificate be modified 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 Gulfstream Model GVIII–G700 and GVIII–G800 series airplanes must comply with the exhaust-emission requirements of 14 CFR part 34, and the noise-certification

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**

requirements of 14 CFR part 36.

The Gulfstream Model GVIII–G700 and GVIII–G800 series airplanes will incorporate the following novel or unusual design feature:

The installation of a digital systems architecture that will allow increased connectivity to and access from external network sources, (e.g., operator networks, wireless devices, internet connectivity, service provider satellite communications, electronic flight bags, etc.) to the airplane's previously isolated electronic assets (networks, systems, and databases).

# Discussion

The Gulfstream Model GVIII–G700 and GVIII–G800 series airplanes' electronic system architecture and network configuration are novel or unusual for commercial transport airplanes because it may allow increased connectivity to and access from external network sources, airline operations, and maintenance networks,

to the airplane control domain, and airline information services domain. The airplanes' control domain and airline information-services domain perform functions required for the safe operation and maintenance of the airplane. Previously, these domains had very limited connectivity with external network sources. This data network and design integration creates a potential for unauthorized persons to access the airplanes' control domain and airline information-services domain and presents security vulnerabilities related to the introduction of computer viruses and worms, user errors, and intentional sabotage of airplane electronic assets (networks, systems, and databases) critical to the safety and maintenance of the airplane.

The existing FAA regulations did not anticipate these networked airplanesystem architectures. Furthermore, these regulations and the current guidance material do not address potential security vulnerabilities, which could be exploited by unauthorized access to airplane networks, data buses, and servers. Therefore, these special conditions ensure that the security (i.e., confidentiality, integrity, and availability) of the airplane's systems is not compromised by unauthorized wired or wireless electronic connections. This includes ensuring that the security of the airplane's systems is not compromised during maintenance of the airplane's electronic systems. These special conditions also require the applicant to provide appropriate instructions to the operator to maintain all electronic-system safeguards that have been implemented as part of the original network design so that this feature does not allow or introduce security threats.

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 Gulfstream Model GVIII—G700 and GVIII—G800 series airplanes. Should Gulfstream apply at a later date for a change to the type certificate to include another model that incorporates the same novel or unusual design feature, or should any other model already included on the same type certificate be modified to incorporate the same novel or unusual design feature, these special conditions would apply to that model as well.

#### Conclusion

This action affects only a certain novel or unusual design feature on the Gulfstream Model GVIII–G700 and GVIII–G800 series of airplanes. It is not a rule of general applicability.

# 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, and 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 Gulfstream Model GVIII–G700 and GVIII–G800 series airplanes for airplane electronic unauthorized external access.

- 1. The applicant must ensure that the airplane electronic systems are protected from access by unauthorized sources external to the airplane, including those possibly caused by maintenance activity.
- 2. The applicant must ensure that airplane electronic system-security threats are identified and assessed, and that effective electronic system-security protection strategies are implemented to protect the airplane from all adverse impacts on safety, functionality, and continued airworthiness.
- 3. The applicant must establish appropriate procedures to allow the operator to ensure that continued airworthiness of the airplane is maintained, including all post-type-certification modifications that may have an impact on the approved electronic system-security safeguards.

Issued in Kansas City, Missouri, on January 11, 2024.

# Patrick R. Mullen,

Manager, Technical Innovation Policy Branch, Policy and Innovation Division, Aircraft Certification Service.

[FR Doc. 2024-00841 Filed 1-17-24; 8:45 am]

BILLING CODE 4910-13-P

# **DEPARTMENT OF TRANSPORTATION**

## **Federal Aviation Administration**

#### 14 CFR Part 39

[Docket No. FAA-2024-0032; Project Identifier AD-2024-00021-T; Amendment 39-22663; AD 2024-02-51]

## RIN 2120-AA64

# Airworthiness Directives; The Boeing Company Airplanes

**AGENCY:** Federal Aviation Administration (FAA), DOT. **ACTION:** Final rule; request for comments.

**SUMMARY:** The FAA is adopting a new airworthiness directive (AD) for certain The Boeing Company Model 737-9 airplanes. This AD was prompted by a report of an in-flight departure of a mid cabin door plug, which resulted in a rapid decompression of the airplane. This AD prohibits further flight of affected airplanes, until the airplane is inspected and all applicable corrective actions have been performed. The FAA previously sent an emergency AD to all known U.S. owners and operators of these airplanes. The FAA is issuing this AD to address the unsafe condition on these products.

**DATES:** This AD is effective on January 18, 2024. Emergency AD 2024–02–51, issued on January 6, 2024, which contained the requirements of this amendment, was effective with actual notice.

The FAA must receive comments on this AD by March 4, 2024.

**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 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.

AD Docket: You may examine the AD docket at regulations.gov by searching for and locating Docket No. FAA–2024–0032; 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 final rule, any comments received, and other information. The street address for Docket Operations is listed above.