Rational analysis, comparing an installation with another installation where TTI data were acquired and found acceptable, may also be viable.

(d) *Pelvis.* Pelvic lateral acceleration must not exceed 130g. Pelvic acceleration data must be processed as defined in FMVSS Part 571.214, section S11.5.

(e) *Shoulder Strap Loads.* Where upper torso straps (shoulder straps) are used for occupants, tension loads in individual straps must not exceed 1,750 pounds. If dual straps are used for restraining the upper torso, the total strap tension loads must not exceed 2,000 pounds.

(f) *Compression Loads.* The compression load measured between the pelvis and the lumbar spine of the ATD may not exceed 1,500 pounds.

(g) *Emergency Evacuation*. The airplane configuration must meet the emergency evacuation requirements of its certification basis with the seat occupied.

(h) Test Requirements in § 23.562
dynamic loads. The tests in § 23.562(a)
(b) and (c) must be conducted on the side-facing seat. Floor deformation is required except for a seat that is cantilevered to the bulkhead.

The following are the agreed to methods of compliance and testing requirements:

General Test Guidelines

(a) One longitudinal test with the SID anthropomorphic test dummy (ATD) or its equivalent, undeformed floor, no yaw, and with all lateral structural supports (armrests/walls) must be accomplished.

—Pass/fail injury assessments: TTI and pelvic acceleration.

(b) One longitudinal test with the Hybrid II ATD, deformed floor, with 10 degrees yaw, and with all lateral structural supports (armrests/walls) must be accomplished.

—Pass/fail injury assessments: HIC and upper torso restraint load, and restraint system retention.

(c) Vertical (15 G's) test must to be conducted with modified Hybrid II ATDs with existing pass/fail criteria.

(d) The ATD can be tethered for the floor deformation test.

(e) The seatbelt is not required to have a TSO Authorization but will need to comply with the TSO–C22g Minimum Performance Standards (MPS). Issued in Kansas City, Missouri, on October 12, 2011. John Colomy,

onn Colomy,

Acting Manager, Small Airplane Directorate, Aircraft Certification Service. [FR Doc. 2011–27119 Filed 10–19–11; 8:45 am] BILLING CODE 4910–13–P

DEPARTMENT OF TRANSPORTATION

Federal Aviation Administration

14 CFR Part 25

[Docket No. FAA-2011-1141; Special Conditions No. 25-451-SC]

Special Conditions: Gulfstream Aerospace Corporation, Model GIV–X Airplane; Aircraft Electronic System Security Protection From Unauthorized External Access

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

SUMMARY: These special conditions are issued for the Gulfstream Aerospace Corporation Model GIV–X airplane. This airplane will have novel or unusual design features associated with the architecture and connectivity capabilities of the airplane's computer systems and networks, which may allow access by external computer systems and networks. Connectivity by external systems and networks may result in security vulnerabilities to the airplane's systems. 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:** The effective date of these

special conditions is October 13, 2011. We must receive your comments by December 5, 2011.

ADDRESSES: Send comments identified by docket number FAA–2011–1141 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 by 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 8 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: Varun Khanna, FAA, Airplane and Flight Crew Interface Branch, ANM– 111, Transport Airplane Directorate, Aircraft Certification Service, 1601 Lind Avenue, SW., Renton, Washington 98057–3356; telephone 425–227–1298; facsimile 425–227–1149.

SUPPLEMENTARY INFORMATION: The FAA has determined that notice of, and opportunity for prior public comment on, these special conditions are impracticable because these procedures would significantly delay issuance of the design approval and thus delivery of the affected aircraft. In addition, 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 issuance.

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 by the closing date for

comments. We may change these special conditions based on the comments we receive.

Background

On April 21, 2011, Gulfstream Aerospace Corporation (hereafter referred to as "Gulfstream") applied for a supplemental type certificate to install a new interior design configuration in the Gulfstream Model GIV–X passenger airplane. The Gulfstream Model GIV–X is a two-engine jet transport airplane with a maximum takeoff weight of 47,600 pounds and an interior configuration for a maximum of 19 passengers.

Type Certification Basis

Under the provisions of Title 14, Code of Federal Regulations (14 CFR) 21.101, Gulfstream must show that the Gulfstream Model GIV–X airplane (hereafter referred to as the "GIV-X"), as changed, continues to meet the applicable provisions of the regulations incorporated by reference in Type Certificate No. A12EA or the applicable regulations in effect on the date of application for the change. The regulations incorporated by reference in the type certificate are commonly referred to as the "original type certification basis." The regulations incorporated by reference in Type Certificate No. A12EA are as follows:

14 CFR part 25, effective February 1, 1965, including Amendments 25–1 through 25–56, except for the following sections which are limited to showing compliance with the amendments indicated: Part 25 effective February 1, 1965, §§ 25.109, 25.571, and 25.813; part 25 Amendment 25–22, § 25.571; and part 25 Amendment 25–15, § 25.807(c)(2). In addition, the certification basis includes certain special conditions, exemptions, and equivalent safety findings that are not relevant to these special conditions.

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 GIV–X 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, the special conditions would also apply to the other model.

In addition to the applicable airworthiness regulations and special

conditions, the GIV–X 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 GIV–X will incorporate the following novel or unusual design features: digital systems architecture composed of several connected networks. The proposed architecture and network configuration may be used for, or interfaced with, a diverse set of functions, including:

1. Flight-safety related control, communication, and navigation systems (aircraft control domain);

2. Airline business and administrative support (airline information domain);

3. Passenger information and entertainment systems (passenger entertainment domain), and;

4. The capability to allow access to or by external sources.

Discussion

The GIV–X architecture and network configuration may allow increased connectivity to, and access by, external airplane sources, airline operations, and maintenance systems to the aircraft control domain and airline information domain. The aircraft control domain and airline information domain perform functions required for the safe operation and maintenance of the airplane. Previously these domains had very limited connectivity with external sources. The architecture and network configuration may allow the exploitation of network security vulnerabilities resulting in intentional or unintentional destruction, disruption, degradation, or exploitation of data, systems, and networks critical to the safety and maintenance of the airplane. The existing regulations and guidance material did not anticipate these types of airplane system architectures. Furthermore, 14 CFR regulations and current system safety assessment policy and techniques do not address potential security vulnerabilities, which could be exploited by unauthorized access to airplane systems, data buses, and servers. Therefore, these special conditions are issued to ensure that the security (*i.e.*, confidentiality, integrity, and availability) of airplane systems is not compromised by unauthorized wired or wireless electronic connections.

Applicability

As discussed above, these special conditions are applicable to the Gulfstream Model GIV–X. Should Gulfstream apply at a later date for a supplemental type certificate to modify any other model included on the Type Certificate No. A12EA to incorporate 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 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.

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, because a delay would significantly affect the certification of the airplane, which is imminent, the FAA has determined that prior public notice and comment are unnecessary and impracticable, and good cause exists for adopting these special conditions upon issuance. 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 Gulfstream Model GIV–X airplanes.

1. The applicant must ensure airplane electronic system security protection from access by unauthorized sources external to the airplane, including those possibly caused by maintenance activity.

2. The applicant must ensure that 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 aircraft is maintained, including all post Type Certification modifications that may have an impact on the approved electronic system security safeguards.

Ali Bahrami,

Manager, Transport Airplane Directorate, Aircraft Certification Service. [FR Doc. 2011–27196 Filed 10–19–11; 8:45 am] BILLING CODE 4910–13–P

DEPARTMENT OF TRANSPORTATION

Federal Aviation Administration

14 CFR Part 25

[Docket No. FAA-2011-1140; Special Conditions No. 25-450-SC]

Special Conditions: Gulfstream Aerospace Corporation, Model GIV–X Airplane; Isolation or Aircraft Electronic System Security Protection From Unauthorized Internal Access

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

SUMMARY: These special conditions are issued for the Gulfstream Aerospace Corporation Model GIV-X airplane. This airplane will have novel or unusual design features associated with connectivity of the passenger domain computer systems to the airplane critical systems and data networks. 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: The effective date of these special conditions is October 13, 2011. We must receive your comments by December 5, 2011.

ADDRESSES: Send comments identified by docket number FAA–2011–1140 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 by 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 8 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: Varun Khanna, FAA, Airplane and Flight Crew Interface Branch, ANM– 111, Transport Airplane Directorate, Aircraft Certification Service, 1601 Lind Avenue, SW., Renton, Washington 98057–3356; telephone 425–227–1298; facsimile 425–227–1149.

SUPPLEMENTARY INFORMATION: The FAA has determined that notice of, and opportunity for prior public comment on, these special conditions are impracticable because these procedures would significantly delay issuance of the design approval and thus delivery of the affected aircraft. In addition, 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 issuance.

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 by the closing date for comments. We may change these special conditions based on the comments we receive.

Background

On April 21, 2011, Gulfstream Aerospace Corporation (hereafter referred to as "Gulfstream") applied for a supplemental type certificate to install a new interior design configuration in the Gulfstream Model GIV–X passenger airplane. The Gulfstream Model GIV–X is a two-engine jet transport airplane with a maximum takeoff weight of 47,600 pounds and an interior configuration for a maximum of 19 passengers.

Type Certification Basis

Under the provisions of Title 14, Code of Federal Regulations (14 CFR) 21.101, Gulfstream must show that the Gulfstream Model GIV-X airplane (hereafter referred to as the "GIV-X"), as changed, continues to meet the applicable provisions of the regulations incorporated by reference in Type Certificate No. A12EA or the applicable regulations in effect on the date of application for the change. The regulations incorporated by reference in the type certificate are commonly referred to as the "original type certification basis." The regulations incorporated by reference in Type Certificate No. A12EA are as follows:

14 CFR part 25, effective February 1, 1965, including Amendments 25–1 through 25–56, except for the following sections which are limited to showing compliance with the amendments indicated: Part 25 effective February 1, 1965, §§ 25.109, 25.571, and 25.813; part 25 Amendment 25–22, § 25.571; and part 25 Amendment 25–15, § 25.807(c)(2). In addition, the certification basis includes certain special conditions, exemptions, and equivalent safety findings that are not relevant to these special conditions.

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 GIV–X 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