

(emergency fire fighting and protective equipment) must be met independently for each separate section except for lavatories or other small areas that are not intended to be occupied for extended periods of time.

15. Where a waste disposal receptacle is fitted, it must be equipped with a built-in fire extinguisher designed to discharge automatically upon occurrence of a fire in the receptacle.

16. Materials (including finishes or decorative surfaces applied to the materials) must comply with the flammability requirements of § 25.853 at Amendment 25-72. Mattresses must comply with the flammability requirements of § 25.853(b) and (c) at Amendment 25-72.

17. All lavatories within the CRC are required to meet the same requirements as those for a lavatory installed on the main deck except with regard to Special Condition No.10 for smoke detection.

18. When a CRC is installed or enclosed as a removable module in part of a cargo compartment or is located directly adjacent to a cargo

compartment without an intervening cargo compartment wall, the following apply:

(a) Any wall of the module (container) forming part of the boundary of the reduced cargo compartment, subject to direct flame impingement from a fire in the cargo compartment and including any interface item between the module (container) and the airplane structure or systems, must meet the applicable requirements of § 25.855 at Amendment 25-72.

(b) Means must be provided so that the fire protection level of the cargo compartment meets the applicable requirements of § 25.855 at Amendment 25-72, § 25.857 at Amendment 25-60 and § 25.858 at Amendment 25-54 when the module (container) is not installed.

(c) Use of each emergency evacuation route must not require occupants of the CRC compartment to enter the cargo compartment in order to return to the passenger compartment.

(d) The aural warning in Special Condition No. 7 must sound in the CRC.

19. Means must be provided to prevent access into the Class C cargo compartment during all airplane flight operations and to ensure that the maintenance door is closed during all airplane flight operations.

20. All enclosed stowage compartments within the CRC that are not limited to stowage of emergency equipment or airplane-supplied equipment (e.g., bedding) must meet the design criteria given in the table below. As indicated by the table below, this special condition does not address enclosed stowage compartments greater than 200 ft³ in interior volume. The in-flight accessibility of very large enclosed stowage compartments and the subsequent impact on the crewmembers ability to effectively reach any part of the compartment with the contents of a hand fire extinguisher will require additional fire protection considerations similar to those required for inaccessible compartments such as Class C cargo compartments.

Fire protection features	Stowage compartment interior volumes		
	less than 25 ft ³	25 ft ³ to 57 ft ³	57 ft ³ to 200 ft ³
Materials of Construction ¹	Yes	Yes	Yes.
Detectors ²	No	Yes	Yes.
Liner ³	No	No	Yes.
Locating device ⁴	No	Yes	Yes.

¹ *Material* The material used to construct each enclosed stowage compartment must at least be fire resistant and must meet the flammability standards established for interior components per the requirements of § 25.853. For compartments less than 25 ft³ in interior volume, the design must ensure the ability to contain a fire likely to occur within the compartment under normal use.

² *Detectors* Enclosed stowage compartments equal to or exceeding 25 ft³ in interior volume must be provided with a smoke or fire detection system to ensure that a fire can be detected within a one-minute detection time. Flight tests must be conducted to show compliance with this requirement. Each system (or systems) must provide:

(a) A visual indication in the flightdeck within one minute after the start of a fire;

(b) An aural warning in the CRC; and

(c) A warning in the main passenger cabin. This warning must be readily detectable by a flight attendant, taking into consideration the positioning of flight attendants throughout the main passenger compartment during various phases of flight.

³ *Liner* If it can be shown that the material used to construct the stowage compartment meets the flammability requirements of a liner for a Class B cargo compartment, then no liner would be required for enclosed stowage compartments equal to or greater than 25 ft³ in interior volume but less than 57 ft³ in interior volume. For all enclosed stowage compartments equal to or greater than 57 ft³ in interior volume but less than or equal to 200 ft³, a liner must be provided that meets the requirements of § 25.855 at Amendment 25-72 for a class B cargo compartment.

⁴ *Location Detector* Crew rest areas which contain enclosed stowage compartments exceeding 25 ft³ interior volume and which are located away from one central location such as the entry to the crew rest area or a common area within the crew rest area would require additional fire protection features and/or devices to assist the firefighter in determining the location of a fire.

Issued in Renton, Washington, on September 8, 2006.

Kalene C. Yanamura,

Acting Manager, Transport Airplane Directorate, Aircraft Certification Service.

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DEPARTMENT OF TRANSPORTATION

Federal Aviation Administration

14 CFR Part 25

[Docket No. NM351; Special Conditions No. 25-325-SC]

Special Conditions: Gulfstream Aerospace Corporation Model G150 Airplanes; High-Intensity Radiated Fields (HIRF)

AGENCY: Federal Aviation Administration (FAA), DOT.

ACTION: Final special conditions; request for comments.

SUMMARY: The FAA issues these special conditions for Gulfstream Aerospace Corporation Model G150 airplanes modified by Gulfstream Aerospace Corporation, Dallas, Texas. These modified airplanes will have novel or unusual design features when compared with the state of technology envisioned in the airworthiness standards for transport category airplanes. The modification consists of installing an electronic laser inertial reference system. The applicable airworthiness regulations do not contain adequate or

appropriate safety standards for protecting these systems from effects of high-intensity radiated fields (HIRF). 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 September 8, 2006. We must receive your comments on or before October 18, 2006.

ADDRESSES: You may mail or deliver comments on these special conditions in duplicate to: Federal Aviation Administration, Transport Airplane Directorate, Attention: Rules Docket (ANM-113), Docket No. NM351, 1601 Lind Avenue SW., Renton, Washington 98057-3356. You must mark your comments Docket No. NM351.

FOR FURTHER INFORMATION CONTACT: Greg Dunn, 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) 227-2799; facsimile (425) 227-1320.

SUPPLEMENTARY INFORMATION:

Comments Invited

The FAA has determined that notice and opportunity for prior public comment for these special conditions is impracticable because these procedures would significantly delay certification and 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. We therefore find that good cause exists for making these special conditions effective upon issuance. However, we invite interested persons to take part in this rulemaking by submitting written comments. The most helpful comments reference a specific portion of the special conditions, explain the reason for any recommended change, and include supporting data. We ask that you send us two copies of written comments.

We will file in the docket all comments we receive, as well as a report summarizing each substantive public contact with FAA personnel about these special conditions. You may inspect the docket before and after the comment closing date. If you wish to review the docket in person, go to the address in the **ADDRESSES** section of this preamble between 7:30 a.m. and 4 p.m., Monday through Friday, except Federal holidays.

We will consider all comments we receive on or before the closing date for comments. We will consider comments filed late if it is possible to do so without incurring expense or delay. We may change these special conditions based on the comments we receive.

If you want the FAA to acknowledge receipt of your comments on these special conditions, include with your comments a pre-addressed, stamped postcard on which the docket number appears. We will stamp the date on the postcard and mail it back to you.

Background

On June 9, 2006, Gulfstream Aerospace Corporation, Dallas, Texas, applied for a supplemental type certificate (STC) to modify Gulfstream G150 airplanes. The Gulfstream G150 is a low-wing, pressurized, transport category airplane with two fuselage-mounted jet engines. It can seat up to 19 passengers, with a crew of two pilots. The modification consists of installing an electronic laser inertial reference system. These systems have a potential to be vulnerable to high-intensity radiated fields (HIRF) external to the airplane.

Type Certification Basis

Under provisions of 14 CFR 21.101, Gulfstream Aerospace Corporation must show that the Gulfstream G150 airplanes, as changed, continue to meet the applicable provisions of the regulations incorporated by reference in Type Certificate No. A16NM 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 specific regulations are 14 CFR part 25, as amended by Amendments 25-1 through 25-108 with exceptions as indicated in the Type Certificate Data Sheet.

If the Administrator finds that the applicable airworthiness regulations (part 25, as amended) do not contain adequate or appropriate safety standards for the Gulfstream G150 airplanes because of a novel or unusual design feature, special conditions are prescribed under the provisions of § 21.16.

In addition to the applicable airworthiness regulations and special conditions, the G150 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.

The FAA issues special conditions, as defined in § 11.19, under § 11.38, and they become part of the type

certification basis under the provisions of § 21.101.

Novel or Unusual Design Features

As noted earlier, the Gulfstream G150 airplanes modified by Gulfstream Aerospace Corporation will incorporate an electronic laser inertial reference system that will perform critical functions. This system may be vulnerable to high-intensity radiated fields external to the airplane. Current airworthiness standards of part 25 do not contain adequate or appropriate safety standards for protecting this equipment from adverse effects of HIRF. So this system is considered to be a novel or unusual design feature.

Discussion

As previously stated, there is no specific regulation that addresses protection for electrical and electronic systems from HIRF. Increased power levels from radio frequency transmitters and the growing use of sensitive avionics/electronics and electrical systems to command and control airplanes have made it necessary to provide adequate protection.

To ensure that a level of safety is achieved equivalent to that intended by the regulations incorporated by reference, special conditions are needed for the Gulfstream G150 airplanes modified by Gulfstream Aerospace Corporation. These special conditions require that new avionics/electronics and electrical systems that perform critical functions be designed and installed to preclude component damage and interruption of function because of HIRF.

High-Intensity Radiated Fields (HIRF)

High-power radio frequency transmitters for radio, radar, television, and satellite communications can adversely affect operation of airplane electric and electronic systems. Therefore, the immunity of critical avionics/electronics and electrical systems to HIRF must be established.

Based on surveys and an analysis of existing HIRF emitters, an adequate level of protection exists when airplane system immunity is demonstrated when exposed to the HIRF environments in either paragraph 1 or 2 below:

1. A minimum environment of 100 volts rms (root-mean-square) per meter electric field strength from 10 KHz to 18 GHz.

- a. System elements and their associated wiring harnesses must be exposed to the environment without benefit of airframe shielding.

b. Demonstration of this level of protection is established through system tests and analysis.

2. An environment external to the airframe of the field strengths shown in the table below for the frequency ranges

indicated. Immunity to both peak and average field strength components from the table must be demonstrated.

Frequency	Field Strength (volts per meter)	
	Peak	Average
10 kHz–100 kHz	50	50
100 kHz–500 kHz	50	50
500 kHz–2 MHz	50	50
2 MHz–30 MHz	100	100
30 MHz–70 MHz	50	50
70 MHz–100 MHz	50	50
100 MHz–200 MHz	100	100
200 MHz–400 MHz	100	100
400 MHz–700 MHz	700	50
700 MHz–1 GHz	700	100
1 GHz–2 GHz	2000	200
2 GHz–4 GHz	3000	200
4 GHz–6 GHz	3000	200
6 GHz–8 GHz	1000	200
8 GHz–12 GHz	3000	300
12 GHz–18 GHz	2000	200
18 GHz–40 GHz	600	200

The field strengths are expressed in terms of peak of the root-mean-square (rms) over the complete modulation period.

The environment levels identified above are the result of an FAA review of existing studies on the subject of HIRF and of the work of the Electromagnetic Effects Harmonization Working Group of the Aviation Rulemaking Advisory Committee.

Applicability

These special conditions are applicable to Gulfstream G150 airplanes modified by Gulfstream Aerospace Corporation. Should Gulfstream Aerospace Corporation apply at a later date for a supplemental type certificate to modify any other model included on Type Certificate No. A16NM to incorporate the same or similar novel or unusual design feature, these special conditions would apply to that model as well under provisions of § 21.101.

Conclusion

This action affects only certain novel or unusual design features on Gulfstream G150 airplanes modified by Gulfstream Aerospace Corporation. 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.

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

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

The Special Conditions

■ Therefore, under the authority delegated to me by the Administrator, the following special conditions are issued as part of the supplemental type certification basis for the G150 airplanes modified by Gulfstream Aerospace Corporation.

1. *Protection from Unwanted Effects of High-Intensity Radiated Fields (HIRF).* Each electrical and electronic system that performs critical functions must be designed and installed to ensure that the operation and operational capability of these systems to perform critical functions are not adversely affected when the airplane is exposed to high-intensity radiated fields.

2. For the purpose of these special conditions, the following definition applies:

Critical Functions: Functions whose failure would contribute to or cause a failure condition that would prevent continued safe flight and landing of the airplane.

Issued in Renton, Washington, on September 8, 2006.

Kalene C. Yanamura,

Acting Manager, Transport Airplane Directorate, Aircraft Certification Service.
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DEPARTMENT OF TRANSPORTATION

Federal Aviation Administration

14 CFR Part 97

[Docket No. 30514 ; Amdt. No. 3185]

Standard Instrument Approach Procedures; Miscellaneous Amendments

AGENCY: Federal Aviation Administration (FAA), DOT.

ACTION: Final rule.

SUMMARY: This amendment amends Standard Instrument Approach Procedures (SIAPs) for operations at certain airports. These regulatory actions are needed because of changes occurring in the National Airspace System, such as the commissioning of new navigational facilities, addition of new obstacles, or changes in air traffic requirements. These changes are designed to provide safe and efficient use of the navigable airspace and to promote safe flight operations under instrument flight rules at the affected airports.

DATES: This rule is effective September 18, 2006. The compliance date for each SIAP is specified in the amendatory provisions.

The incorporation by reference of certain publications listed in the regulations is approved by the Director of the Federal Register as of September 18, 2006.

ADDRESSES: Availability of matter incorporated by reference in the amendment is as follows: