

By order of the Board of Governors of the Federal Reserve System, October 4, 2005.

Jennifer J. Johnson,

Secretary of the Board.

[FR Doc. 05-20299 Filed 10-6-05; 8:45 am]

BILLING CODE 6210-01-P

DEPARTMENT OF TRANSPORTATION

Federal Aviation Administration

14 CFR Part 25

[Docket No. NM330; Special Conditions No. 25-301-SC]

Special Conditions: Raytheon Model HS.125 Airplanes; High-Intensity Radiated Fields (HIRF)

AGENCY: Federal Aviation Administration (FAA), DOT.

ACTION: Final special conditions; request for comments.

SUMMARY: These special conditions are issued for a Raytheon Model HS.125 airplane modified by LJSC Ltd. This modified airplane 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 modification incorporates the installation of two Air Data Display Units and two Air Data Sensors manufactured by Innovative Solutions and Support. These systems perform critical functions. The applicable airworthiness regulations do not contain adequate or appropriate safety standards for the protection of these systems from the 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 29, 2005.

Comments must be received on or before November 7, 2005.

ADDRESSES: Comments on these special conditions may be mailed in duplicate to: Federal Aviation Administration, Transport Airplane Directorate, Attention: Rules Docket (ANM-113), Docket No. NM330, 1601 Lind Avenue SW., Renton, Washington 98055-4056; or delivered in duplicate to the Transport Airplane Directorate at the above address. All comments must be marked: Docket No. NM330.

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 98055-4056; telephone (425) 227-2799; facsimile (425) 227-1320.

SUPPLEMENTARY INFORMATION:

Comments Invited

The FAA has determined that notice and opportunity for prior public comment is impracticable because these procedures would significantly delay certification of the airplane 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; however, the FAA invites interested persons to participate in this rulemaking by submitting 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 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 concerning these special conditions. The docket is available for public inspection 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 July 11, 2005, LJSC Ltd., 8847 West Monroe Circle, Suite 300, Wichita, Kansas 67209 applied for a supplemental type certificate (STC) to modify a Raytheon Model HS.125 Series 600A airplane, S/N 256066. This model is currently approved under Type Certificate No. A3EU. The Raytheon Model HS.125 airplane is a small transport category airplane powered by

two turbine engines. It operates with a 2-pilot crew and can seat up to 15 passengers. The modification incorporates the installation of two Air Data Display Units (ADDUs) and two Air Data Sensors (ADSs) manufactured by Innovative Solutions and Support (IS&S). The avionics/electronics and electrical systems installed in this airplane have the potential to be vulnerable to high-intensity radiated fields (HIRF) external to the airplane.

Type Certification Basis

Under the provisions of 14 CFR 21.101, LJSC Ltd. must show that Raytheon Model HS.125 Series 600A airplane S/N 256066, as changed, continues to meet the applicable provisions of the regulations incorporated by reference in Type Certificate No. A3EU, 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 certification basis for the Raytheon Model HS.125 airplane includes CAR 10, British Civil Airworthiness Requirements and Special Conditions. This certification is equivalent to CAR.4b dated December 1953, Amendment 4b-1 through Amendment 4b-11, exclusive of CAR 4b.350(e) and includes Special Regulations SR.422B. Type Certificate No. A3EU was amended to include HS.125 Series 600A on January 6, 1976. Compliance over and above certification basis requirements has been met with CAR Amendment 4B-12 and Amendment 4B-14. Compliance has been established with the special retroactive requirements of 14 CFR 25.2 through Amendment 25-20, 14 CFR 21 Amendment 21-27, and 14 CFR 36 (1)(c)(2).

If the Administrator finds that the applicable airworthiness regulations (i.e., part 25, as amended) do not contain adequate or appropriate safety standards for the Raytheon Model HS.125 Series 600A airplane, S/N 256066, 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, Raytheon Model HS.125 Series 600A airplane, S/N 256066, 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.

Special conditions, as defined in 14 CFR 11.19, are issued in accordance with § 11.38 and become part of the type

certification basis in accordance with § 21.101.

Special conditions are initially applicable to the model for which they are issued. Should LJSC Ltd. apply at a later date for a STC to modify any other model included on Type Certificate No. A3EU to incorporate the same or similar novel or unusual design feature, these special conditions would also apply to the other model under the provisions of § 21.101.

Novel or Unusual Design Features

As noted earlier, Raytheon Model HS.125 airplane, S/N 256066, modified by LJSC Ltd., will incorporate two ADDUs and two ADSs manufactured by IS&S that will perform critical functions. These systems may be vulnerable to high-intensity radiated fields (HIRF) external to the airplane. The current airworthiness standards of part 25 do not contain adequate or appropriate safety standards for the protection of this equipment from the adverse effects of HIRF. Accordingly, this system is considered to be a novel or unusual design feature.

Discussion

There is no specific regulation that addresses protection requirements for electrical and electronic systems from HIRF. Increased power levels from ground-based radio 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 Raytheon Model HS.125 Series 600A airplane, S/N 256066, modified by LJSC Ltd. 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 due to both the direct and indirect effects of HIRF.

High-Intensity Radiated Fields (HIRF)

With the trend toward increased power levels from ground-based transmitters, and the advent of space and satellite communications coupled with electronic command and control of the airplane, the immunity of critical

avionics/electronics and electrical systems to HIRF must be established.

It is not possible to precisely define the HIRF to which the airplane will be exposed in service. There is also uncertainty concerning the effectiveness of airframe shielding for HIRF. Furthermore, coupling of electromagnetic energy to cockpit-installed equipment through the cockpit window apertures is undefined. Based on surveys and analysis of existing HIRF emitters, an adequate level of protection exists when compliance with the HIRF protection special condition is shown with either paragraph 1 OR 2 below:

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

a. The threat must be applied to the system elements and their associated wiring harnesses without the benefit of airframe shielding.

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

2. A threat external to the airframe of the field strengths identified in the table below for the frequency ranges indicated. Both peak and average field strength components from the table are to 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 threat levels identified above are the result of an FAA review of existing studies on the subject of HIRF, in light of the ongoing work of the Electromagnetic Effects Harmonization Working Group of the Aviation Rulemaking Advisory Committee.

Applicability

As discussed above, these special conditions are applicable to a Raytheon Model HS.125 Series 600A airplane, S/

N 256066, modified by LJSC Ltd. Should LJSC Ltd. apply at a later date for a STC to modify any other model included on Type Certificate No. A3EU to incorporate the same or similar novel or unusual design feature, these special conditions would apply to that model as well under the provisions of § 21.101.

Conclusion

This action affects only certain novel or unusual design features on a

Raytheon Model HS.125 Series 600A airplane, S/N 256066, modified by LJSC Ltd. 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 procedure in several prior instances and has been derived without substantive change

from those previously issued. 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 supplemental type certification basis for the Raytheon Model HS.125 Series 600A airplane, S/N 256066, modified by LJSC Ltd.

1. *Protection from Unwanted Effects of 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 the continued safe flight and landing of the airplane.

Issued in Renton, Washington, on September 29, 2005.

Ali Bahrami,

Manager, Transport Airplane Directorate, Aircraft Certification Service.

[FR Doc. 05-20175 Filed 10-6-05; 8:45 am]

BILLING CODE 4910-13-P

DEPARTMENT OF TRANSPORTATION

Federal Aviation Administration

13 CFR Part 71

[Docket No. FAA-2005-21703; Airspace Docket No. 05-ACE-19]

Modification of Class D and Class E Airspace; Topeka, Forbes Field, KS

AGENCY: Federal Aviation Administration (FAA), DOT.

ACTION: Direct final rule; request for comments; correction.

SUMMARY: This action corrects an error in the legal description of Class D airspace in a direct final rule, request for comments that was published in the **Federal Register** on Tuesday, July 12, 2005 (70 FR 39914).

DATES: This direct final rule is effective on 0901 UTC, October 27, 2005.

FOR FURTHER INFORMATION CONTACT: Brenda Mumper, Air Traffic Division, Airspace Branch, ACE-520A, DOT Regional Headquarters Building, Federal Aviation Administration, 901 Locust, Kansas City, MO 64106; telephone: (816) 329-2524.

SUPPLEMENTARY INFORMATION:

History

Federal Register Document 2005-21703 published on Tuesday, July 12, 2005 (70 FR 39914), modified Class D and Class E Airspace at Topeka, Forbes Field, KS. The phrase "This Class D airspace area is effective during the specific dates and times established in advance by a Notice to Airmen. The effective date and time will thereafter be continuously published in the Airport/Facility Directory." was incorrectly deleted from the legal description of Class D airspace. This action corrects that error.

■ Accordingly, pursuant to the authority delegated to me, the error in the legal description of Class D Airspace, Topeka, Forbes Field, KS as published in the **Federal Register** Tuesday July 12, 2005 (70 FR 39914), (FR Doc. 2005-21703), is corrected as follows:

§ 71.1 [Corrected]

On page 39915, Column 2, at the end of the legal description of ACE KS D Topeka, Forbes Field, KS, add the phrase "This Class D airspace area is effective during the specific dates and times established in advance by the Notice to Airmen. The effective date and time will thereafter be continuously published in the Airport/Facility Directory."

Issued in Kansas City, MO, on September 16, 2005.

Anthony D. Roetzel,

Acting Area Director, Western Flight Services Operations.

[FR Doc. 05-20179 Filed 10-6-05; 8:45 am]

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DEPARTMENT OF TRANSPORTATION

Federal Aviation Administration

14 CFR Part 73

[Docket No. FAA-2005-22600; Airspace Docket No. 05-AWP-11]

RIN 2120-AA66

Change of Controlling Agency for Restricted Areas; HI

AGENCY: Federal Aviation Administration (FAA), DOT.

ACTION: Final rule.

SUMMARY: This action changes the controlling agency of Restricted Areas R-3101 PMRFAC Four, R-3103 Humuula, R-3107 Kaula Rock, R-3109A, B & C Schofield-Makua, Oahu, and R-3110A, B & C Schofield-Makua, Oahu, HI. The FAA is taking this action to reflect an administrative change of controlling agencies for the restricted areas. There are no changes to the boundaries; designated altitudes; time of designation; or activities conducted within the affected restricted areas.

EFFECTIVE DATE: 0901 UTC, December 22, 2005.

FOR FURTHER INFORMATION CONTACT: Ken McElroy, Airspace and Rules, Office of System Operations Airspace and AIM, Federal Aviation Administration, 800 Independence Avenue, SW., Washington, DC 20591; telephone: (202) 267-8783.

SUPPLEMENTARY INFORMATION:

The Rule

This action amends Title 14 Code of Federal Regulations (14 CFR) part 73 by changing the name of the controlling agency for R-3101 PMRFAC Four, R-3103 Humuula, R-3107 Kaula Rock, R-3109A, B & C Schofield-Makua, Oahu, R-3110A, B & C Schofield-Makua, Oahu, HI, from "FAA, Honolulu CERAP or FAA, Honolulu ATCT" to "FAA, Honolulu Control Facility." The FAA is taking this action to reflect an administrative change of controlling agencies for the restricted areas. There are no changes to the boundaries; designated altitudes; time of designation; or activities conducted within the affected restricted areas. Therefore, notice and public procedures under 5 U.S.C. 553(b) are unnecessary.