

before issuing a floodplain statement of findings, DOE shall reevaluate the practicability of alternatives to the proposed floodplain action and the mitigating measures, taking into account all substantive comments received. After issuing a floodplain statement of findings, DOE shall endeavor to allow at least 15 days of public review before implementing a proposed floodplain action. If a **Federal Register** notice is required, the 15-day period begins on the date of publication in the **Federal Register**.

(b) For a proposed wetland action, DOE shall allow 15 days for public comment following issuance of a notice of proposed wetland action. After the close of the public comment period, DOE shall reevaluate the practicability of alternatives to the proposed wetland action and the mitigating measures, taking into account all substantive comments received, before implementing a proposed wetland action. If a **Federal Register** notice is required, the 15-day period begins on the date of publication in the **Federal Register**.

§ 1022.16 Variances.

(a) *Emergency actions.* DOE may take actions without observing all provisions of this part in emergency situations that demand immediate action. To the extent practicable prior to taking an emergency action (or as soon as possible after taking such an action) DOE shall document the emergency actions in accordance with NEPA procedures at 10 CFR 1021.343(a) or CERCLA procedures in order to identify any adverse impacts from the actions taken and any further necessary mitigation.

(b) *Timing.* If statutory deadlines or overriding considerations of program or project expense or effectiveness exist, DOE may waive the minimum time periods in § 1022.15 of this subpart.

(c) *Consultation.* To the extent practicable prior to taking an action pursuant to paragraphs (a) or (b) of this section (or as soon as possible after taking such an action) the cognizant DOE program or project manager shall consult with the Office of NEPA Policy and Compliance.

§ 1022.17 Follow-up.

For those DOE actions taken in a floodplain or wetland, DOE shall verify that the implementation of the selected alternative, particularly with regard to any adopted mitigation measures, is proceeding as described in the floodplain or wetland assessment and the floodplain statement of findings.

Subpart C—Other Requirements

§ 1022.21 Property management.

(a) If property in a floodplain or wetland is proposed for license, easement, lease, transfer, or disposal to non-Federal public or private parties, DOE shall:

(1) Identify those uses that are restricted under applicable floodplain or wetland regulations and attach other appropriate restrictions to the uses of the property; or

(2) Withhold the property from conveyance.

(b) Before completing any transaction that DOE guarantees, approves, regulates, or insures that is related to an area located in a floodplain, DOE shall inform any private party participating in the transaction of the hazards associated with locating facilities or structures in the floodplain.

§ 1022.22 Requests for authorizations or appropriations.

It is DOE policy to indicate in any requests for new authorizations or appropriations transmitted to the Office of Management and Budget, if a proposed action is located in a floodplain or wetland and whether the proposed action is in accord with the requirements of E.O. 11988 and E.O. 11990 and this part.

§ 1022.23 Applicant responsibilities.

DOE may require applicants for any use of real property (e.g., license, easement, lease, transfer, or disposal), permits, certificates, loans, grants, contract awards, allocations, or other forms of assistance or other entitlement related to activities in a floodplain or wetland to provide information necessary for DOE to comply with this part.

§ 1022.24 Interagency cooperation.

If DOE and one or more agencies are directly involved in a proposed floodplain or wetland action, in accordance with DOE's NEPA or CERCLA procedures, DOE shall consult with such other agencies to determine if a floodplain or wetland assessment is required by subpart B of this part, identify the appropriate lead or joint agency responsibilities, identify the applicable regulations, and establish procedures for interagency coordination during the environmental review process.

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DEPARTMENT OF TRANSPORTATION

Federal Aviation Administration

14 CFR Part 25

[Docket No. NM262; Special Conditions No. 25-244-SC]

Special Conditions: Avions Marcel Dassault-Breguet Aviation Model Falcon 10 Series 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 Avions Marcel Dassault-Breguet Aviation (AMD/BA) Model Falcon 10 series airplanes modified by Elliott Aviation Technical Products Development, Inc. These modified 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. The modification incorporates the installation of dual Innovative Solutions & Support (IS&S) Air Data Display Units (ADDU) with the IS&S Air Data Sensor and an analog interface unit (AIU) that 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 August 19, 2003.

Comments must be received on or before September 26, 2003.

ADDRESSES: Comments on these special conditions may be mailed in duplicate to: Federal Aviation Administration, Transport Airplane Directorate, Attn: Rules Docket (ANM-113), Docket No. NM262, 1601 Lind Avenue SW., Renton Washington, 98055-4056; or delivered in duplicate to the Transport Directorate at the above address. All comments must be marked: Docket No. NM262.

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) 227-1149.

SUPPLEMENTARY INFORMATION:

FAA's Determination as to Need for Public Process

The FAA has determined that notice and opportunity for prior public comment is unnecessary because 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 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 February 25, 2003, Elliott Aviation Technical Products Development, Inc., PO Box 100, Quad City Airport, Moline, Illinois 61266-0100, applied for a Supplemental Type Certificate (STC) to modify Avions Marcel Dassault-Breguet Aviation Model Falcon 10 series airplanes. This model series is currently approved under Type Certificate No. A33EU. The Avions Marcel Dassault-Breguet Aviation Model Falcon 10 series airplanes are a small category airplane powered by two Airesearch Manufacturing Company TFE731-2-1C turbofan engines, and have a maximum takeoff weight of 18,300 pounds. This airplane operates with a 2-pilot crew and can hold up to 9 passengers. The modification incorporates the

installation of Innovative Solutions & Support (IS&S) Air Data Display Units (ADDU) with an IS&S Air Data Sensor and Analog Interface Unit (AIU). The ADDU replaces the existing analog flight instrumentation and provides additional functional capability and redundancy in the system. The AIU is a digital-to-analog adapter used to adapt signals driving the existing Sperry Flight Guidance Computer. The avionics/electronics and electrical systems installed in this airplane have the potential to be vulnerable to HIRF external to the airplane.

Type Certification Basis

Under the provisions of 14 CFR 21.101, Elliott Aviation Technical Products Development, Inc. must show that the Avions Marcel Dassault-Breguet Aviation Model Falcon 10 series airplanes, as changed, continue to meet the applicable provisions of the regulations incorporated by reference in Type Certificate No. A33EU, 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 Avions Marcel Dassault-Breguet Aviation Model Falcon 10 series airplanes includes 14 CFR part 25 as amended by Amendments 25-1 through 25-20, dated February 1, 1964, except for special conditions and exceptions noted in Type Certificate Data Sheet (TDCS) No. A33EU.

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 Avions Marcel Dassault-Breguet Aviation Model Falcon 10 series airplanes because of novel or unusual design features, special conditions are prescribed under the provisions of § 21.16.

In addition to the applicable airworthiness regulations and special conditions, the Avions Marcel Dassault-Breguet Aviation Model Falcon 10 series airplanes must comply with the fuel vent and exhaust emission requirements of 14 CFR part 34 and the noise certification requirement of 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 Elliott Aviation Technical Products Development, Inc. apply at a later date for a supplemental type certificate to modify any other

model included on Type Certificate No. A33EU to incorporate the same or similar novel or unusual design feature, these special conditions would also apply to the other model.

Novel or Unusual Design Features

As noted earlier, the Avions Marcel Dassault-Breguet Aviation Model Falcon 10 series airplanes modified by Elliott Aviation Technical Products Development, Inc. will incorporate systems comprised of dual Air Data Display Units and an analog interface unit that will perform critical functions. These systems may be vulnerable to high-intensity radiated fields 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 Avions Marcel Dassault-Breguet Aviation Model Falcon 10 series airplanes modified by Elliott Aviation Technical Products Development, Inc. 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 below 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–70MHz	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 Avions Marcel Dassault-Breguet Aviation Model Falcon 10 series airplanes modified by Elliott Aviation Technical Products Development, Inc. Should Elliott Aviation Technical Products Development, Inc. apply at a later date for a supplemental type certificate to modify any other model included on Type Certificate No. A33EU to incorporate the same or similar 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 the Avions Marcel Dassault-Breguet Aviation Model Falcon 10 series airplanes modified by Elliott Aviation Technical Products Development, Inc. 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. Therefore, 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 Avions Marcel Dassault-Breguet Aviation Model Falcon 10 series airplanes modified by Elliott Aviation Technical Products Development, Inc.

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 the continued safe flight and landing of the airplane.

Issued in Renton, Washington, on August 19, 2003.

Ali Bahrami,

Acting Manager, Transport Airplane Directorate, Aircraft Certification Service.
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