

kilogram of uranium or thorium source material shall complete a Nuclear Material Transaction Report in computer-readable format in accordance with instructions (NUREG/BR-0006 and NMMSS Report D-24, "Personal Computer Data Input for NRC Licensees"). Copies of the instructions may be obtained from the U.S. Nuclear Regulatory Commission, Division of Nuclear Safety, Washington, DC 20555-0001. Each licensee who transfers the material shall submit a Nuclear Material Transaction Report in computer-readable format in accordance with instructions no later than the close of business the next working day. Each licensee who receives the material shall submit a Nuclear Material Transaction Report in computer-readable format in accordance with instructions within ten (10) days after the material is received. The Commission's copy of the report must be submitted to the address specified in the instructions. These prescribed computer-readable forms replace the DOE/NRC Form 741 which has been previously submitted in paper form.

(b) Except as specified in paragraphs (d) and (e) of this section, each licensee authorized to possess at any one time and location more than 1,000 kilograms of uranium or thorium, or any combination of uranium or thorium, shall submit to the Commission within 30 days after September 30 of each year or with the licensee's material status reports on special nuclear material filed under part 72 or 74, a statement of its source material inventory with foreign obligations as defined in this part. This statement must be submitted to the address specified in the reporting instructions (NUREG/BR-0007), and include the Reporting Identification Symbol (RIS) assigned by the Commission to the licensee. Copies of the reporting instructions may be obtained from the U.S. Nuclear Regulatory Commission, Division of Nuclear Security, Washington, DC 20555-0001.

* * * * *

PART 150—EXEMPTIONS AND CONTINUED REGULATORY AUTHORITY IN AGREEMENT STATES AND IN OFFSHORE WATERS UNDER SECTION 274

4. The authority citation for Part 150 continues to read as follows:

Authority: Sec. 161, 68 Stat. 948, as amended, sec. 274, 73 Stat. 688 (42 U.S.C. 2201, 2021); sec. 201, 88 Stat. 1242, as amended (42 U.S.C. 5841).

Sections 150.3, 150.15, 150.15a, 150.31, 150.32 also issued under secs. 11e(2), 81, 68

Stat. 923, 935, as amended, secs. 83, 84, 92 Stat. 3033, 3039 (42 U.S.C. 2014e(2), 2111, 2113, 2114). Section 150.14 also issued under sec. 53, 68 Stat. 930, as amended (42 U.S.C. 2073). Section 150.15 also issued under secs. 135, 141, Pub. L. 97-425, 96 Stat. 2232, 2241 (42 U.S.C. 10155, 10161). Section 150.17a also issued under sec. 122, 68 Stat. 939 (42 U.S.C. 2152). Section 150.30 also issued under sec. 234, 83 Stat. 444 (42 U.S.C. 2282).

5. In § 150.3, the paragraph designations are removed, the definitions are arranged in alphabetical order, and the definition of *Foreign obligations* is added to read as follows:

§ 150.3 Definitions.

* * * * *

Foreign obligations means the commitments entered into by the U.S. Government under Atomic Energy Act (AEA) section 123 agreements for cooperation in the peaceful uses of atomic energy. Imports and exports of material or equipment pursuant to such agreements are subject to these commitments, which in some cases involve an exchange of information on imports, exports, retransfers with foreign governments, peaceful end-use assurances, and other conditions placed on the transfer of the material or equipment. The U.S. Government informs the licensee of obligations attached to material.

* * * * *

6. In § 150.17, paragraphs (a) and (b) are revised to read as follows:

§ 150.17 Submission to Commission of source material reports.

(a) Except as specified in paragraph (d) of this section and § 150.17a, each person who, pursuant to an Agreement State specific license, transfers or receives or adjusts the inventory in any manner by 1 kilogram or more of uranium or thorium source material with foreign obligations or who imports or exports 1 kilogram or more of uranium or thorium source material shall complete and submit in computer-readable format Nuclear Material Transaction Reports in accordance with instructions (NUREG/BR-0006 and NMMSS Report D-24, "Personal Computer Data Input for NRC Licensees"). Copies of the instructions may be obtained from the U.S. Nuclear Regulatory Commission, Division of Nuclear Security, Washington, DC 20555-0001. Each person who transfers the material shall submit a Nuclear Material Transaction Report in computer-readable format in accordance with instructions no later than the close of business the next working day. Each person who receives the material shall submit a Nuclear Material Transaction

Report in computer-readable format in accordance with instructions within ten (10) days after the material is received. The Commission's copy of the report must be submitted to the address specified in the instructions. These prescribed computer-readable forms replace the DOE/NRC Form 741 which has been previously submitted in paper form.

(b) Except as specified in paragraph (d) of this section and § 150.17a, each person authorized to possess at any one time and location, under an Agreement State license, more than 1,000 kilograms of uranium or thorium, or any combination of uranium or thorium, shall submit to the Commission within 30 days after September 30 of each year or with the licensee's material status reports on special nuclear material filed under part 74, a statement of the licensee's source material inventory with foreign obligations as defined in this part. This statement must be submitted to the address specified in the reporting instructions (NUREG/BR-0007), and include the Reporting Identification Symbol (RIS) assigned by the Commission to the licensee. Copies of the reporting instructions may be obtained from the U.S. Nuclear Regulatory Commission, Division of Nuclear Security, Washington, DC 20555-0001.

* * * * *

Dated at Rockville, Maryland, this 21st day of February, 2003.

For the Nuclear Regulatory Commission.

William D. Travers,

Executive Director for Operations.

[FR Doc. 03-5168 Filed 3-4-03; 8:45 am]

BILLING CODE 7590-01-P

DEPARTMENT OF TRANSPORTATION

Federal Aviation Administration

14 CFR Part 25

[Docket No. NM244, Special Conditions No. 25-228-SC]

Special Conditions: Learjet Model 24/25 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 the Learjet Model 24/25 Series airplanes, modified by Avcon Industries, Inc. These modified airplanes will have novel and unusual design features 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 and Support, Inc., Air Data Display Units, and a single Innovative Solutions and Support, Inc., Analog Interface Unit that performs 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 February 20, 2003. Comments must be received on or before April 4, 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. NM244, 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. NM244.

FOR FURTHER INFORMATION CONTACT: Mark Quam, FAA, Standardization Branch, ANM-113, Transport Airplane Directorate, Aircraft Certification Service, 1601 Lind Avenue, SW., Renton, Washington, 98055-4056; telephone (425) 227-2145; facsimile (425) 227-1149.

SUPPLEMENTARY INFORMATION:

Comments Invited

The FAA has determined that notice and opportunity for prior public comment are 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 10, 2002, Avcon Industries, Inc., P.O. Box 748, Newton, Kansas 67144, applied for a supplemental type certificate (STC) to modify Learjet Model 24/25 series airplanes. These models are currently approved under Type Certificate No. A10CE. The Learjet model 24 series airplanes have two aft-mounted General Electric Turbojet engines, a maximum operating altitude of 45,000 feet, and carries a crew of two with a maximum of six passengers. The Learjet model 25 series airplanes have two aft-mounted General Electric Turbojet engines, a maximum operating altitude of 51,000 feet, and carries a crew of two with a maximum of eight passengers. The modification incorporates the installation of dual Innovative Solutions and Support, Inc. (IS&S) Air Data Display Units (ADDU) and a single IS&S Analog Interface Unit (AIU) that are replacements for the existing altimetry system. The dual IS&S ADDU and a single IS&S AIU system use electronics to a far greater extent than the original altimetry system and may be more susceptible to electrical and magnetic interference caused by high-intensity radiated fields (HIRF) external to the airplane. This disruption of these signals could result in loss of altitude, or present misleading information to the pilot.

Type Certification Basis

Under the provisions of 14 CFR 21.101, Amendment 21-69, effective September 16, 1992, Avcon Industries, Inc., must show that the Learjet Model 24/25 series airplanes, as changed,

continue to meet the applicable provisions of the regulations incorporated by reference in Type Certificate No. A10CE, 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 Learjet Model 24/25 Series airplanes includes § 21.29; 14 CFR part 25 effective February 1, 1965, as amended by Amendments 25-2 and 25-4. Other applicable amendments, regulations, and special conditions are noted in Type Certificate Data Sheet (TCDS) A10CE.

If the Administrator finds that the applicable airworthiness regulations (that is, part 25, as amended) do not contain adequate or appropriate safety standards for the Learjet Model 24/25 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 Learjet Model 24/25 series airplanes must comply with the fuel vent and exhaust emission requirement of 14 CFR part 34 and the noise certification requirement 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(b)(2), Amendment 21-69, effective September 16, 1991.

Special conditions are initially applicable to the model for which they are issued. Should Avcon Industries, Inc., apply at a later date for a supplemental type certificate to modify any other model already included on Type Certificate Data Sheet (TCDS) A10CE to incorporate the same or similar novel or unusual design features, these special conditions would also apply to the other model under the provisions of § 21.101(a)(1), Amendment 21-69, effective September 16, 1991.

Novel or Unusual Design Features

The Learjet Model 24/25 Series airplanes modified by Avcon Industries, Inc., will incorporate installation of dual IS&S Air Data Display Units (ADDU), and a single IS&S Analog Interface Unit (AIU) that will perform critical functions. These advanced systems use electronics to a far greater extent than the original altimetry system and 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, these systems are considered to be novel or unusual design features.

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 the Learjet Model 24/25 series airplanes, modified by Avcon Industries, Inc. These special conditions require that new sensitive 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 digital 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 Learjet Model 24/25 series airplanes modified by Avcon Industries, Inc. Should Avcon Industries, Inc., apply at a later date for a supplemental type certificate to modify any other model already included on Type Certificate A10CE to incorporate the same novel or unusual design features, these special conditions would apply to that model as well under the provisions of § 21.101(a)(1), Amendment 21–69, effective September 16, 1991.

Conclusion

This action affects only certain novel or unusual design features on Learjet Model 24/25 series airplanes modified by Avcon Industries, 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 the special conditions for this airplane has been subjected to 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 Learjet Model 24/25 series airplanes modified by Avcon Industries, 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 February 20, 2003.

Ali Bahrami,

Acting Manager, Transport Airplane Directorate, Aircraft Certification Service.

[FR Doc. 03–5129 Filed 3–4–03; 8:45 am]

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DEPARTMENT OF TRANSPORTATION

Federal Aviation Administration

14 CFR Part 71

[Docket No. FAA–2003–14463; Airspace Docket No. 03–ACE–16]

Modification of Class D Airspace; and Modification of Class E; Dubuque, IA

AGENCY: Federal Aviation Administration (FAA), DOT.