

Direct Final Rule

It is the policy of the Rural Housing Service (RHS) to publish rules determined to be non-controversial and unlikely to result in adverse comments as direct final rules. RHS policy for direct final rules was published on March 27, 2003, at 68 FR 14889. No adverse comments are anticipated on the changes in this rule. Adverse comments suggest that the rule should not be adopted or that a change should be made to the rule. Unless an adverse comment is received within 60 days from the date of publication, this rule will be effective 90 days from the date of publication. If RHS receives one or more written adverse comments within 60 days from the date of publication, a document withdrawing the direct final rule prior to its effective date will be published in the **Federal Register** stating that adverse comments were received.

Background

RHS administers the Direct Single Family Housing Loan and Grant program pursuant to 7 CFR part 3550, designed to assist very low and low-income households to obtain modest, decent, safe, and sanitary housing for use as permanent residences in rural areas. Direct loans may be used to buy, build, or improve the applicant's permanent residence. RHS regulations in 7 CFR part 1924, subpart A, contain requirements for construction which is funded with direct RHS loans, including direct single family housing loans. The regulation also applies to larger direct funded construction projects by other agencies in the Rural Development mission area. This regulation was originally promulgated on March 13, 1987 in 52 FR 41833. One of the requirements in this regulation is that for construction work performed by the contract method (where the borrower contracts with a builder for the construction), the builder must obtain a surety bond guaranteeing payment and performance in the amount of the contract when the contract exceeds \$100,000. This amount has remained unchanged since 1987. In 1987, a single family house constructed and financed under the direct single family housing loan program would not exceed \$100,000. Since 1987, construction costs for single family houses financed by RHS have dramatically increased so that now construction costs frequently exceed \$100,000. The requirement that builders obtain surety bonds when the construction contract exceeds \$100,000 has made it difficult for contractors to compete for direct single family housing

projects financed by RHS. While the regulation contains internal exceptions for the \$100,000 requirement, none of these exceptions satisfactorily resolves the cost burden for builders of direct single family housing.

The revision to 7 CFR 1924.6(a)(3)(i)(A) will facilitate the process of construction by raising the threshold when the contractor must acquire surety bonds. The purpose of this regulation is to remove the surety bond requirement for direct funded single family housing. The new threshold will be when the contract exceeds the applicable RHS area single family housing loan limit as established pursuant to 7 CFR 3550.63 and the limit for any particular area is available from any Rural Development office.

The provisions in 7 CFR 1924.6(a)(3)(i) that require payment and performance bonds when construction is under this threshold amount remain unchanged. RHS has determined that changing the threshold for payment and performance bonds provides for more flexibility, is locality based, borrowers are adequately protected, and housing costs are reduced.

List of Subjects in 7 CFR Part 1924

Agriculture, Construction management, Construction and repair, Energy conservation, Housing, Loan programs—Agriculture, Low and moderate income housing.

■ For the reasons set forth in the preamble, chapter XVIII, title 7, of the Code of Federal Regulations is amended as follows:

PART 1924—CONSTRUCTION AND REPAIR

■ 1. The authority citation for part 1924 continues to read as follows:

Authority: 5 U.S.C. 301; 7 U.S.C. 1989; 42 U.S.C. 1480.

Subpart A—Planning and Performing Construction and Other Development

■ 2. Section 1924.6 is amended by revising paragraph (a)(3)(i)(A) to read as follows:

§ 1924.6 Performing development work.

* * * * *

- (a) * * *
- (3) * * *
- (i) * * *

(A) The contract exceeds the applicable Rural Development single Family Housing area loan limit as per 7 CFR 3550.63. (Loan limits are available at the local Rural Development field office.)

* * * * *

Dated: December 12, 2004.

Russell T. Davis,
Administrator, Rural Housing Service.
[FR Doc. 05-325 Filed 1-6-05; 8:45 am]
BILLING CODE 3410-XV-P

DEPARTMENT OF TRANSPORTATION**Federal Aviation Administration****14 CFR Part 23**

[Docket No. CE215, Special Condition 23-154-SC]

Special Conditions; The New Piper Aircraft, Inc.; PA-46-350P and PA-46-500TP; Protection of Systems for High Intensity Radiated Fields (HIRF)

AGENCY: Federal Aviation Administration (FAA), DOT.

ACTION: Final special conditions; request for comments.

SUMMARY: These special conditions are issued to The New Piper Aircraft, Inc.; Vero Beach, Florida, for a type design change for the PA-46-350P and PA-46-500TP model airplanes. These airplanes will have novel and unusual design features when compared to the state of technology envisaged in the applicable airworthiness standards. These novel and unusual design features include the installation of electronic flight instrument system (EFIS) displays Model 700-00006-003 Entegra, manufactured by Avidyne Corporation, Inc., for which the applicable regulations do not contain adequate or appropriate airworthiness 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 the airworthiness standards applicable to these airplanes.

DATES: The effective date of these special conditions is December 23, 2004. Comments must be received on or before February 7, 2005.

ADDRESSES: Comments may be mailed in duplicate to: Federal Aviation Administration, Regional Counsel, ACE-7, Attention: Rules Docket Clerk, Docket No. CE215, Room 506, 901 Locust, Kansas City, Missouri 64106. All comments must be marked: Docket No. CE215. Comments may be inspected in the Rules Docket weekdays, except Federal holidays, between 7:30 a.m. and 4 p.m.

FOR FURTHER INFORMATION CONTACT: Wes Ryan, Aerospace Engineer, Standards Office (ACE-110), Small Airplane

Direktorate, Aircraft Certification Service, Federal Aviation Administration, 901 Locust, Room 301, Kansas City, Missouri 64106; telephone (816) 329-4127.

SUPPLEMENTARY INFORMATION: The FAA has determined that notice and opportunity for prior public comment hereon 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

Interested persons are invited to submit such written data, views, or arguments as they may desire. Communications should identify the regulatory docket or notice number and be submitted in duplicate to the address specified above. All communications received on or before the closing date for comments will be considered by the Administrator. The special conditions may be changed in light of the comments received. All comments received will be available in the Rules Docket for examination by interested persons, both before and after the closing date for comments. A report summarizing each substantive public contact with FAA personnel concerning this rulemaking will be filed in the docket. Commenters wishing the FAA to acknowledge receipt of their comments submitted in response to this notice must include a self-addressed, stamped postcard on which the following statement is made: "Comments to Docket No. CE215." The postcard will be date stamped and returned to the commenter.

Background

The New Piper Aircraft, Inc., Vero Beach, Florida, has made application to revise the type design of the PA-46-350P and PA-46-500TP model airplanes. The models are currently approved under the type certification basis listed on Type Certificate Data Sheets (TCDS) A25SO. The proposed modification incorporates a novel or unusual design feature, such as digital avionics consisting of an EFIS that is vulnerable to HIRF external to the airplane.

Type Certification Basis

Under the provisions of 14 CFR part 21, § 21.101, The New Piper Aircraft,

Inc., must show that affected airplane models, as changed, continue to meet the applicable provisions of the regulations identified on the appropriate TCDS. In addition, the type certification basis of the airplanes embodying this modification, which will include the additional certification basis for installation of the Avidyne Entegra EFIS, is:

PA-46-350P model aircraft: 14 CFR part 23 regulations §§ 23.301, 23.337, 23.341, 23.473, 23.561, 23.607, 23.611, as amended by Amdt. 23-48; §§ 23.305, 23.613, 23.773, 23.1525, 23.1549 as amended by Amdt. 23-45; §§ 23.777, 23.1191, 23.1337 as amended by Amdt. 23-51; §§ 23.867, 23.1303, 23.1307, 23.1309, 23.1311, 23.1321, 23.1323, 23.1329, 23.1351, 23.1353, 23.1359, 23.1361, 23.1365, 23.1431 as amended by Amdt. 23-49; § 23.1305 as amended by Amdt. 23-52; §§ 23.1322, 23.1331, 23.1357 as amended by Amdt. 23-43; §§ 23.1325, 23.1543, 23.1545, 23.1555, 23.1563, 23.1581, 23.1583, 23.1585 as amended by Amdt. 23-50; § 23.1523 as amended by Amdt. 23-34; § 23.1529 as amended by Amdt. 23-26; and the special conditions adopted by this rulemaking action.

PA-46-500TP model aircraft: 14 CFR part 23 regulations § 23.607 as amended by Amdt. 23-48; § 23.613 as amended by Amdt. 23-45; §§ 23.1351, 23.1365, 23.1431 as amended by Amdt. 23-49; §§ 23.1545, 23.1563 as amended by Amdt. 23-50; § 23.1523 as amended by Amdt. 23-34; and the special conditions adopted by this rulemaking action.

Discussion

If the Administrator finds that the applicable airworthiness standards do not contain adequate or appropriate safety standards because of novel or unusual design features of an airplane, special conditions are prescribed under the provisions of § 21.16.

Special conditions, as appropriate, as defined in § 11.19, are issued in accordance with § 11.38 after public notice 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 the applicant apply for a supplemental type certificate to modify any other model already 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 under the provisions of § 21.101.

Novel or Unusual Design Features

The New Piper Aircraft, Inc., plans to incorporate certain novel and unusual

design features into an airplane for which the airworthiness standards do not contain adequate or appropriate safety standards for protection from the effects of HIRF. These features include EFIS, which are susceptible to the HIRF environment, that were not envisaged by the existing regulations for this type of airplane.

Protection of Systems From High Intensity Radiated Fields (HIRF): Recent advances in technology have given rise to the application in aircraft designs of advanced electrical and electronic systems that perform functions required for continued safe flight and landing. Due to the use of sensitive solid-state advanced components in analog and digital electronics circuits, these advanced systems are readily responsive to the transient effects of induced electrical current and voltage caused by the HIRF. The HIRF can degrade electronic systems performance by damaging components or upsetting system functions.

Furthermore, the HIRF environment has undergone a transformation that was not foreseen when the current requirements were developed. Higher energy levels are radiated from transmitters that are used for radar, radio, and television. Also, the number of transmitters has increased significantly. There is also uncertainty concerning the effectiveness of airframe shielding for HIRF. Furthermore, coupling to cockpit-installed equipment through the cockpit window apertures is undefined.

The combined effect of the technological advances in airplane design and the changing environment has resulted in an increased level of vulnerability of electrical and electronic systems required for the continued safe flight and landing of the airplane. Effective measures against the effects of exposure to HIRF must be provided by the design and installation of these systems. The accepted maximum energy levels in which civilian airplane system installations must be capable of operating safely are based on surveys and analysis of existing radio frequency emitters. These special conditions require that the airplane be evaluated under these energy levels for the protection of the electronic system and its associated wiring harness. These external threat levels, which are lower than previous required values, are believed to represent the worst case to which an airplane would be exposed in the operating environment.

These special conditions require qualification of systems that perform critical functions, as installed in aircraft, to the defined HIRF environment in

paragraph 1 or, as an option to a fixed value using laboratory tests, in paragraph 2, as follows:

(1) The applicant may demonstrate that the operation and operational capability of the installed electrical and electronic systems that perform critical functions are not adversely affected when the aircraft is exposed to the HIRF environment defined below:

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 root-mean-square (rms) values.

or, (2) The applicant may demonstrate by a system test and analysis that the electrical and electronic systems that perform critical functions can withstand a minimum threat of 100 volts per meter, electrical field strength, from 10 kHz to 18 GHz. When using this test to show compliance with the HIRF requirements, no credit is given for signal attenuation due to installation.

A preliminary hazard analysis must be performed by the applicant, for approval by the FAA, to identify either electrical or electronic systems that perform critical functions. The term "critical" means those functions whose failure would contribute to, or cause, a failure condition that would prevent the continued safe flight and landing of the airplane. The systems identified by the hazard analysis that perform critical functions are candidates for the application of HIRF requirements. A system may perform both critical and non-critical functions. Primary electronic flight display systems, and their associated components, perform critical functions such as attitude, altitude, and airspeed indication. The HIRF requirements apply only to critical functions.

Compliance with HIRF requirements may be demonstrated by tests, analysis, models, similarity with existing systems, or any combination of these. Service experience alone is not

acceptable since normal flight operations may not include an exposure to the HIRF environment. Reliance on a system with similar design features for redundancy as a means of protection against the effects of external HIRF is generally insufficient since all elements of a redundant system are likely to be exposed to the fields concurrently.

Applicability

As discussed above, these special conditions are applicable to New Piper PA-46-350P and PA-46-500TP model airplanes.

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. For this reason, and 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 23

Aircraft, Aviation safety, Signs and symbols.

Citation

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

Authority: 49 U.S.C. 106(g), 40113 and 44701; 14 CFR 21.16 and 21.17; and 14 CFR 11.38 and 11.19.

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 New Piper PA-46-350P and PA-46-500TP model airplanes modified by installation of the factory optional Avidyne Entegra EFIS system.

1. Protection of Electrical and Electronic Systems From High Intensity

Radiated Fields (HIRF). Each system that performs critical functions must be designed and installed to ensure that the operations, and operational capabilities of these systems to perform critical functions, are not adversely affected when the airplane is exposed to high intensity radiated electromagnetic fields external to the airplane.

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 Kansas City, Missouri on December 23, 2004.

David R. Showers,

Acting Manager, Small Airplane Directorate, Aircraft Certification Service.

[FR Doc. 05-294 Filed 1-6-05; 8:45 am]

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DEPARTMENT OF TRANSPORTATION

Federal Aviation Administration

14 CFR Part 39

[Docket No. 2001-NM-74-AD; Amendment 39-13861; AD 2004-23-06]

RIN 2120-AA64

Airworthiness Directives: Boeing Model 757-200, -200PF, -200CB, and -300 Series Airplanes

AGENCY: Federal Aviation Administration, DOT.

ACTION: Final rule; correction.

SUMMARY: This document corrects two typographical errors that appeared in airworthiness directive (AD) 2004-23-06 that was published in the **Federal Register** on November 16, 2004 (69 FR 67047). The errors resulted in an incorrect reference to an amendment number and an incorrect reference to a service bulletin. This AD applies to certain Boeing Model 757-200, -200PF, -200CB, and -300 series airplanes. This AD requires inspection for damage of the W2800 wire bundle insulation, wire conductor, the wire bundle clamp bracket, and the BACC10GU() clamp, and repair or replacement with new or serviceable parts, if necessary. This AD also requires installation of spacers between the clamp and the bracket.

DATES: Effective December 21, 2004.

FOR FURTHER INFORMATION CONTACT:

Elias Natsiopoulos, Aerospace Engineer, Systems and Equipment Branch, ANM-130S, FAA, Seattle Aircraft Certification Office, 1601 Lind Avenue, SW., Renton,