

United States of America  
Department of Transportation -- Federal Aviation Administration  
**Supplemental Type Certificate**

*Number* ST02865CH

*This certificate issued to*  
Electronic Cable Specialists  
5300 W. Franklin Drive  
Franklin, WI 53132

*certifies that the change in the type design for the following product with the limitations and conditions therefor as specified hereon meets the airworthiness requirements of Part 25 of the Federal Aviation Regulations. (See Page 3 of 3 for complete certification basis.)*

*Original Product--Type Certificate Number:* A22WE  
*Make:* McDonnell Douglas  
*Model:* MD-11; MD-11F

*Description of Type Design Change:*

Upgrade of the internal core software of the ACARS Communications Management Unit (CMU-900) in accordance with Electronic Cable Specialists Master Data List ECS-208345, Revision D, dated June 30, 2010, or later FAA approved revision.

*Limitations and Conditions:*

- 1) Compatibility of this design change with previously approved modifications must be determined by the installer.
- 2) The Airplane Flight Manual Supplement as listed in Appendix A of Electronic Cable Specialists Master Data List, ECS-208345, Revision D, dated June 30, 2010, or later FAA approved revision, is required on board the modified aircraft.
- 3) If the holder agrees to permit another person to use this certificate to alter the product, the holder shall give the other person written evidence of that permission.

*This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, revoked or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.*

*Date of application:* October 26, 2009

*Date reissued:*

*Date of issuance:* July 12, 2010

*Date amended:*



*By direction of the Administrator*

(Signature)

Steven L. Lardinois  
Manager, Systems and Flight Test Branch  
Chicago Aircraft Certification Office

(Title)

United States of America  
Department of Transportation - Federal Aviation Administration  
**Supplemental Type Certificate**  
(Continuation Sheet)

*Number* ST02865CH

*Date of issuance* : July 12, 2010

*Certification Basis:*

The certification basis for the changed McDonnell Douglas MD-11 and MD-11F as described in this certificate is as follows:

- a. The type certification basis for the McDonnell Douglas MD-11 and MD-11F is shown on TCDS A22WE for parts not changed or not affected by this change.
- b. The certification basis for the parts changed or affected by this change since the reference date of application, October 26, 2009, is shown on TCDS A22WE. In addition, the applicant has complied with 14 CFR Part 25 as amended by Amendment 25-119 and 14 CFR Part 26 amended by Amendment 26-1.

**Regulations at the latest amendment 25-0 through 25-119**

14 CFR §§ 25.981(a)(3); 25.1301(a), (b), (c), (d); 25.1309(a), (b), (c), (d), (g); 25.1322; 25.1333(c); 25.1351(a); 25.1353(a), (b), (d); 25.1355(a), (c); 25.1357(a), (c); 25.1381(a)(1); 25.1431(a), (b), (c), (d); 25.1529; 25.1581(a), (b); 25.1585(a).

**14 CFR Part 26 Regulations**

Based on 14 CFR 21.101(g), applicable provisions of 14 CFR Part 26 are included in the certification basis. For any future 14 CFR Part 26 amendments, the holder of this STC must demonstrate compliance with the applicable sections. As of the issuance date of this STC, compliance has been found for the following regulations 14 CFR §§ 26.11(c) and 26.47(b), (c), (Amdt No, 26-0, through 26-3).

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