

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

*Number* ST01138WI

*This certificate issued to* AAE, LTD  
1052 S W Luttrell Rd  
Suite C  
Blue Springs, MO 64015

*Certifies that the change in the type design for the following product with the limitations and conditions therefore as specified hereon meets the airworthiness requirements of Part 25 of the Federal Aviation Regulations.*

*Original Product - Type Certificate Number :* A6WE

*Make :* McDonnell Douglas

*Model :* \*See Approved Model List \*

*Description of Type Design*

*Change:*

Smoke Detection and Fire Suppression Installation on Boeing/McDonnell Douglas DC-9, MD-80 and MD-90 Series airplanes in accordance with AAE, LTD Master Data List TFA10-0058 Revision B, dated November 18, 2003, or later FAA approved revision. This modification approves the installation of Advanced Aircraft Extinguishers, Ltd. (AAE) smoke detection and fire suppression system in the lower cargo compartments of various McDonnell Douglas DC-9, MD-80, and MD-90 Series airplanes in accordance with the attached FAA Approved Models List. Note: This STC is a duplicate issue of Supplemental Type Certificate ST01455AT and uses type design approved previously under STC ST01455AT. The subject STC also complies with the additional requirements for Fire Protection System Halon concentration levels as specified in UKCAA Temporary Guidance Material TGM/25/09, Issue 1 dated November 29, 2000, and the Joint Aviation Authority Notice of Proposed Amendment "NPA 25D, F-316 Cat. 1 Items- Mechanical Systems" dated June 1, 2002.

*Limitations and Conditions:*

This installation must be accompanied by the use of the appropriate Airplane Manual Flight Supplement (AFMS) listed on AAE, LTD Master Data List TFA10-0058, Revision B, dated November 18, 2003, or later FAA approved revision. Compatibility of this design change with previously approved modifications must be determined by the installer. 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 :* January 07, 2003

*Date reissued :* November 18, 2003

*Date of issuance :* August 11, 2003

*Date amended :* November 18, 2003



*By direction of the Administrator*

*Joel M. Ligon*  
(Signature)

Joel M. Ligon  
Program Manager  
Wichita Aircraft Certification Office

(Title)

Aircraft Make	Aircraft Model	AFM Supplement Number	AML Amendment Date
McDonnell Douglas	DC-9-10 DC-9-21 DC-9-30 DC-9-41 DC-9-51 DC-9-81 DC-9-82 DC-9-83 DC-9-87 MD-88 MD-90-30	For Airplane Flight Manual Supplements, Refer to AAE Master Drawing List TFA10-0058, Rev. B, Dated 09/16/03 or Later FAA Approved Revision.	

- Later FAA approved revision

FAA Approved: *Ronald K. Rathgeber*  
 Ronald K. Rathgeber  
 Manager  
 Aircraft Certification Office  
 Federal Aviation Administration  
 Wichita, KS. 67209

Date: NOV. 19, 2003