

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

Number ST01455AT

This certificate issued to AAE, Ltd.  
1412 West 40 Highway  
Blue Springs, MO 64015

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.

Original Product--Type Certificate Number : A6WE  
Make : McDonnell Douglas  
Model : See attached FAA Approved Model List (AML) No. ST01455AT, dated June 12, 2000, or later FAA approved revisions for the list of approved aircraft models.

*Description of Type Design Change:*

This modification approves the installation of Advanced Aircraft Extinguishers, Ltd (AAE)'s smoke detection and fire suppression systems in the lower cargo compartments, in accordance with AAE's Master Drawing List TFA10-0051, Rev E, dated October, 1997, or later FAA approved revision.

*Limitations and Conditions:* This installation must be accompanied by the appropriate AAE, Ltd. Airplane Flight Manual Supplement (AFMS) listed on the attached FAA Approved Model List, dated April 16, 1999, or later FAA approved revisions. Compatibility of this design change with the 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 : April 25, 1997

Date reissued : April 06, 2000

Date of issuance : August 15, 1997

Date amended : September 22, 1997; October 9, 1997; April 29, 1998; April 16, 1999; July 12, 1999; April 6, 2000; June 12, 2000; February 14, 2001; September 21, 2001.



By direction of the Administrator

*Eugene L. Bollin*  
(Signature)

*for* Eugene L. Bollin  
Associate Manager, ACE-116A  
Atlanta Aircraft Certification Office

(Title)

Original Issue Date: April 16, 1999  
 Revision Date: \_\_\_\_\_, 2001

| Aircraft Make     | Aircraft Model   | AFM Supplement Number  | AML Amendment Date |
|-------------------|--|--|--------------------|
| McDonnell Douglas | DC-9-10<br>DC-9-21<br>DC-9-30<br>DC-9-41<br>DC-9-51<br>DC-9-81<br>DC-9-82<br>DC-9-83<br>DC-9-87<br>MD-88<br>MD-90-30 | For Airplane Flight Manual Supplements, Refer to AAE Master Drawing List TFA10-0051, Rev. HH, Dated 12/19/01 or Later FAA Approved Revision. |                    |

• Later FAA approved revision

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

Date: Jan. 18, 2001