

United States of America
Department of Transportation -- Federal Aviation Administration

Supplemental Type Certificate

Number SR00436WI-D

This certificate issued to: MD Helicopters, Inc.
455 East McDowell Road
Mesa, Arizona 85215-9734

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 27 of the Federal Aviation Regulations and additional requirements as specified on TCDS H19NM.

Original Product - Type Certificate Number: H19NM

Make: MDHS

Model: MD-900

Description of Type Design Change:

Installation of a Bendix/King® Avionics System (KAD 480 Air Data, EFS 40 EFIS, KX 165/165A NAV/COMM, KT 70/71 Transponder, KRA 405/405B Radar Altimeter, LCR-92 AHRs, KLN 90B GPS, KR 87 ADF, KN 63 DME, KMR 675 Marker Beacon, ART 2000 Weather Radar, KMD 550/850 MFD) and KFC 900 Rotorcraft Flight Control System.

(See Continuation Sheet 3 of 4.)

Limitations and Conditions:

- 1) This approval should not be extended to other specific aircraft of this model on which other previously approved modifications are incorporated, unless it is determined that the interrelationship between this change and any of those other previously approved modifications will introduce no adverse effect upon the airworthiness of that aircraft.
- 2) 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.

(See Continuation Sheet 4 of 4.)

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: June 7, 1995

Date reissued: February 28, 2000; February 12, 2008

Date of issuance: May 24, 1996

Date amended: December 27, 1996; April 11, 1997;
March 19, 1999; January 23, 2001



By direction of the Administrator

Harvey E. Nero
(Signature)

Harvey E. Nero
Program Manager
Wichita Aircraft Certification Office

(Title)

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both.

Supplemental Type Certificate

(Continuation Sheet)

Number **SR00436WI-D**

Date of Issuance: May 24, 1996
Date Amended: December 27, 1996
Date Amended: April 11, 1997
Date Amended: March 19, 1999
Date Reissued: February 28, 2000
Date Amended: January 23, 2001
Date Reissued: February 12, 2008

Description of Type Design Change (continued from page 1):

REQUIRED DATA, CONFIGURATION A, AIRWORTHINESS APPROVAL FOR VFR OPERATIONS ONLY:

- 1) Master Drawing List 159-08140-0001, revision 5, dated 05/10/96.
- 2) Rotorcraft Flight Manual Supplement 006-00845-0002, revision 0, dated 05/24/96 for KFC 900 SAS/FD.
- 3) Rotorcraft Flight Manual Supplement 006-00845-0001, revision 0, dated 05/24/96 for KLN 90B GPS.
- 4) Installation Bulletin 402, 600-09402-0000, original issue 04/1997. Incorporation of Installation Bulletin 402 is at the option of the installer and required Rotorcraft Flight Manual Supplement 006-00845-0002, revision 2, dated 04/11/97 for the KFC 900 SAS/FD in lieu of Item 2 above.

Later FAA approved revisions to the above listed data are incorporated without further revision to this STC.

REQUIRED DATA, CONFIGURATION B, AIRWORTHINESS APPROVAL FOR CATEGORY B HELICOPTER INSTRUMENT FLIGHT:

- 1) Master Drawing List 159-08140-0001, revision 7, dated 10/30/96.
- 2) Rotorcraft Flight Manual Supplement 006-00845-0000, revision 0, dated 12/27/96 for the Bendix/King IFR Avionics Package and KFC 900 Flight Control System.
- 3) Rotorcraft Flight Manual Supplement 006-00845-0001, revision 0, dated 05/24/96 for the KLN 90B GPS NAV.

Later FAA approved revisions to the above listed data are incorporated without further revision to this STC.

REQUIRED DATA, CONFIGURATION C, AIRWORTHINESS APPROVAL FOR CATEGORY A HELICOPTER INSTRUMENT FLIGHT:

- 1) Master Drawing List 159-08140-0001, revision AC, dated 03/15/99.
- 2) Rotorcraft Flight Manual Supplement 006-00845-0004, revision --, dated 03/11/99 for the Category A IFR Avionics/KFC 900 Flight Control System.
- 3) Rotorcraft Flight Manual Supplement 006-00845-0001, revision 0, dated 05/24/96 for the KLN 90B GPS NAV.

Later FAA approved revisions to the above listed data are incorporated without further revision to this STC.

Supplemental Type Certificate

(Continuation Sheet)

Number **SR00436WI-D**

Date of Issuance: May 24, 1996
Date Amended: December 27, 1996
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Limitations and Conditions (continued from page 1):

- 3) This alteration has been found to be compatible with, and is approved for installation with, all available MDHS options for the MD-900 helicopter under Type Certificate H19NM as of December 27, 1996; the rescue hoist available from MDHS and approved under STC ST00134NM is included in this determination.
- 4) This approval is limited to aircraft serial numbers 900-00010 and after.
- 5) The electrical system modifications incorporated as part of Configuration A have been shown to meet VFR airworthiness criteria only as specified in Advisory Circular 27-1 change 4.
- 6) The electrical system modifications incorporated as part of Configuration B have been shown to meet IFR airworthiness criteria as specified in Advisory Circular 27-1 change 4.
- 7) The electrical system modifications incorporated as part of Configuration C have been shown to meet IFR airworthiness criteria as specified in Advisory Circular 27-1 change 4.
- 8) Operation of the aircraft following the installation of Configuration A is limited to Visual Flight Rules (VFR) Day and Night. In addition, where Installation Bulletin 402 is not incorporated, the EADI R circuit breaker must be pulled and the pilot's EADI rendered inoperative for Night and Special VFR operations.
- 9) Category A IFR operations are limited to aircraft serial numbers 52 and subsequent which meet Configuration C and meet the basic aircraft requirements for Category A operations.

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