

Department of Transportation Federal Aviation Administration  
**Supplemental Type Certificate**

*Number* **SH4986NM**

*This certificate, issued to*

**Onboard Systems  
13915 NW 3<sup>rd</sup> Court  
Vancouver, WA 98685**

*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 29 of the Federal Aviation Regulations (FAR 21.29 and FAR 29 effective 2/1/65 plus Amdt. 29-1 through 29-16)*

*Original Product—Type Certificate Number:*

**H13EU**

*Make:*

**Messerschmitt-Bolkow-Blohm GMBH**

*Model:*

**MBB-BK 117 A-1, MBB-BK 117 A-3, MBB-BK 117 A-4,  
and MBB-BK 117 B-1**

*Description of the Type Design Change:* **Fabrication OF Onboard Systems Model E-74 Cargo Hook Load Weigh System, P/N 200-062-01, in accordance with FAA-approved Onboard Systems Master Drawing List No. 155-017-00, Revision 7 dated March 7, 2007, or later FAA-approved revision; and, Installation of this system in accordance with FAA-approved Onboard Systems Owners Manual No. 120-023-00, Revision 5 dated December 1, 2006, or later FAA-approved revision. Inspect load cell in accordance with Section 5 of Onboard Systems Owners Manual No. 120-023-00, dated December 1, 2006, or later FAA-approved revision.**

*Limitations and Conditions:* Approval of this change in type design applies to only those models listed above, which are equipped with a 117-80127 cargo hook. This approval should not be extended to other rotorcraft of these models on which other previously approved modifications are incorporated unless it is determined by the installer that the relationship between this change and any of those other previously approved modifications, including changes in type design, will introduce no adverse effect upon the airworthiness of that helicopter. Rotorcraft modified in accordance with this STC must be operated in accordance with an FAA-approved copy of Onboard Systems Rotorcraft Flight Manual Supplement (RFMS) 121-040-00, Revision 0, dated October 1, 2007, or later FAA-approved revision. A copy of this certificate, FAA-approved RFMS, and Maintenance Manual must be maintained as part of the permanent records of the modified rotorcraft.

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 5, 1990

*Date reissued:*

*Date of issuance:* October 24, 1990

*Date amended:* November 21, 1990, October 2, 2007



*By direction of the Administrator*

(Signature)

**Acting Manager, Seattle 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.

This certificate may be transferred in accordance with FAR 21.47.