

DepartmentofTransportation_FederalAviationAdministration

Supplemental Type Certificate

Number **SH5758NM**

This certificate, issued to

**Onboard Systems
13915 NW 3rd Court
Vancouver, WA 98685**

*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 * of the * Regulations,*

Original Product—Type Certificate Number:

*See attached Approved Model List (AML)

Make:

No. SH5758NM for list of approved rotorcraft

Model:

models and applicable airworthiness regulations

Description of the Type Design Change:

Fabrication of the Onboard Model 200-095-00 Multi-Channel Electrical Slip-Ring Kit in accordance with Onboard Systems Master Drawing List No. 155-022-00, Revision B, dated March 11, 2010, or later FAA approved revision; and installation of this system in accordance with FAA approved Onboard Systems Owner's Manual No. 120-034-01, Revision 11, dated March 11, 2010, or later FAA approved revision. Inspect the Multi-Channel Slip-Ring Kit in accordance with Section 4 of Onboard Systems Owner's Manual No. 120-034-01, Revision 11, dated March 11, 2010, or later FAA approved revision.

Limitations and Conditions:

Approval of this change in type design applies to only those Bell model rotorcraft listed on AML SH5758NM, amended May 17, 1999, or later FAA approved amendments, which are equipped with an FAA approved installation of Bell cargo hook suspension assembly, P/N 204-072-915-25 or P/N 204-072-915-103, with either Breeze-Eastern Cargo Hook P/N SP7109-12 or SP7109-62. This approval should not be extended to 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 rotorcraft.

(See Continuation Sheet - Page 3)

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: July 10, 1992

Date reissued:

Date of issuance: August 12, 1992

Date amended: 5/17/1999; 1/13/2003; 5/16/2011



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.

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Supplemental Type Certificate

(Continuation Sheet)

Number **SH5758NM**

Onboard Systems

Reissued:

Amended: 5/17/1999; 1/13/2003; 5/16/2011

Limitations and Conditions continued.

Rotorcraft modified in accordance with this STC must be operated in accordance with an FAA approved copy of the Rotorcraft Flight Manual Supplement, revised May 17, 1999, or later FAA approved revision. A copy of the Certificate, Continuation Sheet No. SH5758NM, AML No. SH5758NM, and FAA approved Rotorcraft Flight Manual Supplement must be maintained as part of the permanent records of the modified rotorcraft.

WARNING

The Onboard Multi-Channel Slip-Ring Kit 200-095-00 is offered as a means of passing electrical current across the rotation junction between the rotorcraft cargo hook suspension system and suspended load. This kit must be considered as a electrical part, only, and not as a completed electrical system. Onboard has not evaluated any end-to-end use of this part other than the cargo hook electrical release mechanism defined herein and no other use is assumed or implied.

Accordingly, it is the responsibility of the installer and their Authorized Inspector (AI) to verify that each electrical system incorporating this Slip-Ring kit meets the applicable electrical requirements of the Federal Aviation Regulations. All electrical considerations such as electrical load determinations, voltage drops, electrical interference, electrical buss and circuit protection, etc. are the responsibility of the end user and may require further FAA approval.

Onboard has accomplished satisfactory electrical load testing of the elements of this Slip-Ring kit, only, and has demonstrated maximum load ratings of 10 amps (continuous) and 30 amps (intermittent for 30 seconds) for the standard 28 VDC electrical system. Electrical loading above these currents or time limits may harm kit performance. The cargo hook mechanical and electrical release systems for the Bell model 204-072-915-25 and 204-072-915-103 suspension systems have been evaluated and found to be acceptable with this kit installed.

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 the permission.

- END -

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