



United States of America
Department of Transportation
Federal Aviation Administration

Supplemental Type Certificate
IMPORT

Number: SR03664NY

This certificate issued to: Coulson Aircrane Ltd.
4890 Cherry Creek Road
Port Alberni, British Columbia
Canada V9Y 8E9

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.

Original Product – Type Certificate Number: 1H15
Make: Sikorsky Aircraft
Model: S-61N

Description of Type Design Change:

1. Installation of the Engine Inlet Barrier Filter System (IBFS) in accordance with Coulson Aircrane Ltd. Drawing List CAL-IBF-DL-01, Revision B, Transport Canada Civil Aviation (TCCA) approved June 12, 2015 or later TCCA approved revision.
2. Operation of the aircraft with the IBFS installed must be in accordance with TCCA approved Coulson Aircrane Ltd., Rotorcraft Flight Manual Supplement (RFMS) CAL-S61-IBF-FMS-001, Revision B, TCCA approved February 16, 2016, or later TCCA approved revision.

(See Description of Type Design Change continued on Page 3 of 3)

Limitations and Conditions:

1. Maintenance and Inspection of the the IBFS installed must be in accordance with Coulson Aircrane, Ltd. Instructions for Continued Airworthiness (ICA) CAL-S61-ICA-001 Revision A, dated February 15, 2016, or later TCCA accepted revision.
2. Operation of the aircraft with the IBFS installed must be in accordance with TCCA approved Coulson Aircrane Ltd., RFMS CAL-S61-IBF-FMS-001, Revision B, TCCA approved February 16, 2016, or later TCCA approved revision.

(See Limitations and Conditions continued on Page 3 of 3)

This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, and revoked or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.

Date of Application: June 16, 2015

Date Reissued:

Date of Issuance: February 17, 2016

Date Amended: July 15, 2016

By Direction of the Administrator

Signature _____

Title Anthony E. Gallo
Acting Manager
New York Aircraft Certification Office

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 or made available to third persons by licensing agreements in accordance with 14 CFR 21.47. Possession of this Supplemental Type Certificate (STC) document by persons other than the STC holder does not constitute rights to the design data nor to alter an aircraft, aircraft engine, or propeller. The STC's supporting documentation (drawings, instructions, specifications, flight manual supplements, etc.) is the property of the STC holder. An STC holder who allows a person to use the STC to alter an aircraft, aircraft engine, or propeller must provide that person with written permission acceptable to the FAA. (Ref. 14 CFR 21.120).



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INSTRUCTIONS: The transfer endorsement below may be used to notify the appropriate FAA Aircraft Certification Office of the transfer of this Supplemental Type Certificate. The FAA will reissue the certificate in the name of the transferee and forward it to him.

Transfer Endorsement

Transfer the ownership of Supplemental Type Certificate Number: SR03664NY

To (Name and address of transferee)

From (Name and address of grantor)

Extent of Authority (if licensing agreement):

Date of transfer:

Signature of grantor: _____

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 or made available to third persons by licensing agreements in accordance with 14 CFR 21.47. Possession of this Supplemental Type Certificate (STC) document by persons other than the STC holder does not constitute rights to the design data nor to alter an aircraft, aircraft engine, or propeller. The STC's supporting documentation (drawings, instructions, specifications, flight manual supplements, etc.) is the property of the STC holder. An STC holder who allows a person to use the STC to alter an aircraft, aircraft engine, or propeller must provide that person with written permission acceptable to the FAA. (Ref. 14 CFR 21.120).



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Supplemental Type Certificate

(Continuation Sheet)

Number: SR03664NY

Date Amended: July 15, 2016

Description of Type Design Change (continued):

3. Maintenance and Inspection of the the IBFS installed must be in accordance with Coulson Aircrane, Ltd. ICA CAL-S61-ICA-001 Revision A, dated February 15 2016, or later TCCA accepted revision.

Limitations and Conditions (continued):

3. Installation of the IBFS will include the following limitations:
 - a. Power Assurance Check (PAC) must be completed and passed before the first flight of the day. The PAC is considered to pass if there is a T5 margin of +15 degrees Celsius and a Ng margin of +0.6% or greater under the maximum allowable Power Assurance Check target values.
 - b. When Maximum Altitude for Take-off and Landing is 5000 ft or less pressure altitude, IBFS operations are limited to the S-61N Ice Shield Installed Weight Altitude Temperature (WAT) limits.
 - c. When Maximum Altitude for Take-off and Landing is higher than 5000 ft up to a maximum of 8000 ft pressure altitude, IBFS operations are limited to the S-61N Ice Shield Installed WAT limits MINUS 300 pounds. Take-off and Landing at altitudes higher than 8000 ft pressure altitude is prohibited.
4. Rotorcraft equipped with IBFS approved under this STC have not demonstrated a capability for operations with respect to engine air induction system in snow. Flight in ambient temperatures less than, or equal to, +5 degree Celsius (+41 degree Fahrenheit) is prohibited.
5. This STC is effective until December 1, 2016. After December 1, 2016 this STC will need to be surrendered by the holder and will need to be removed from all aircraft incorporating this STC or amended to remove this limitation.
6. The installer must determine whether this design change is compatible with previously approved modifications.
7. If the holder agrees to permit another person to use the certificate to alter the product, the holder shall give the other person written evidence of that permission.

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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 or made available to third persons by licensing agreements in accordance with 14 CFR 21.47. Possession of this Supplemental Type Certificate (STC) document by persons other than the STC holder does not constitute rights to the design data nor to alter an aircraft, aircraft engine, or propeller. The STC's supporting documentation (drawings, instructions, specifications, flight manual supplements, etc.) is the property of the STC holder. An STC holder who allows a person to use the STC to alter an aircraft, aircraft engine, or propeller must provide that person with written permission acceptable to the FAA. (Ref. 14 CFR 21.120).