

Supplemental Type Certificate

Number SR02160LA

This Certificate issued to CALIFORNIA SHOCK/TRAUMA AIR RESCUE (CALSTAR)
4933 BAILEY LOOP
MC CLELLAN, CALIFORNIA 95652

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 27 of the Federal Aviation Regulations.

Original Product Type Certificate Number: H6NE

Make: Eurocopter

Model: BO 105 LS A-3

Description of Type Design Change: Removal of two (2) Rolls-Royce engine models 250-C28C and installing two (2) Rolls-Royce engine models 250-C30P in accordance with CALSTAR Master Drawing List CAL201, Revision B, dated May 16, 2008, or later FAA-approved revision. See continuation page 3.

Limitations and Conditions: The installation should not be incorporated in any rotorcraft unless it is determined that the interrelationship between this installation and any previously approved configuration will not introduce any adverse effect upon the airworthiness of the rotorcraft. The installer must determine whether this design change is compatible with previously approved modifications. The approval of this modification applies to the above-noted rotorcraft model series only. A copy of this STC must be included in 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. See continuation 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.

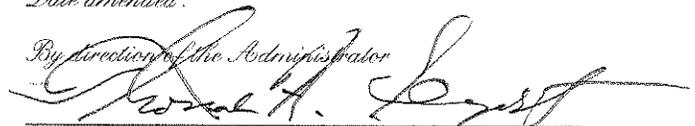
Date of application: April 15, 2006

Date reissued: March 11, 2011

Date of issuance: July 30, 2008

Date amended:



By direction of the Administrator

(Signature)
Manager, Propulsion Branch
Los Angeles 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.

INSTRUCTIONS: The transfer endorsement below may be used to notify the appropriate FAA Regional 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 the Supplemental Type Certificate Number _____

to *(Name of transferee)* _____

(Address of transfer) _____
(Number and street)

(City, State, and Zip code)

from *(Name of grantor) (Print or type)* _____

(Address of grantor) _____
(Number and street)

(City, State, and Zip code)

Extent of Authority (if licensing agreement): _____

Date of Transfer: _____

Signature of grantor *(In ink)*: _____

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Revision Control:

Page No.	1	2	3	4
Rev. No.	-	-	1	-

Description of Design Changes continued:

The following CALSTAR continued airworthiness supplement is applicable to aircraft modified in accordance with this STC:

Installation of (2) Rolls-Royce Engines 250-C30P Engines, Eurocopter Canada Limited BO 105 LS-A-3, Calstar 203-ICA

The CALSTAR FAA-approved Rotorcraft Flight Manual Supplement, CAL204, Revision I/R, dated July 30, 2008, or later FAA-approved revision is required with this installation.

CALSTAR FAA-approved Installation Instructions Rolls-Royce 250-C30P Engine, CAL205, Revision A, dated May 16, 2008, or later FAA-approved revision is required with this installation.

Certification Basis for this modification: See TCDS H6NE.

It was determined that there is no acoustical change in accordance with § 21.93(b) as a result of this modification.

Limitations and Conditions continued:

Installed Engine Limits

Engine and Transmission Power Limitations:

To prevent possible Power Turbine failure, avoid steady-state power turbine (N₂) operation between 72% and 92%.

Dual Torque and Turbine Outlet Temperature (TOT) Indicators:

	Output Shaft Torque % (FT-LBS)	Measured Gas Temp. C° (F°)
<i>Normal Operation</i>		
Take-off Power (5 min.)	75 (343)	768 (1414)
Maximum Continuous	72 (329)	716 (1320)
<i>One Engine Inoperative (OEI)</i>		
Power (2.5 min)	100 (457)	826 (1518)
Power (30 min)	90 (411)	798 (1468)

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Engine RPM (N₁) Indicator:

Maximum Limit	105%
Start Limit	106%

A copy of this certificate must be maintained as part of the permanent records of the modified rotorcraft.

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