United States Of America
Department of Transportation
Federal Aviation Administration

Supplemental Type Certificate

Number SR09645RC

This Certificate issued to

Cool City Electronics, Inc.
6300 Columbia Street
Municipal Airport
Mineral Wells, TX 76067-9255

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. (See Continuation Sheets 4 and 5 for certification for specific requirements.)

Original Product Type Certificate Number: H11NM

Make: Robinson Helicopter Company
Model: R44 and R44 II

Description of Type Design Change:

1. Installation of Cool City Electronics Inc. Automatic Flight Control System (AFCS), Stability Control Augmentation System (SCAS), Yaw Damper System and Orbit Mode Model HFC-150LE-001 in accordance with Master Drawing List 6410-0002-11, Revision A, dated April 4, 2014, or later FAA approved revision. Rotorcraft Flight Manual Supplement 6562-0002 Revision -, dated September 08, 2014, or later FAA approved revision is required. Cool City Electronics Instructions for Continued Airworthiness 6530-0002 Revision B, dated May 12, 2014, or later revisions is required.

See continuation sheets 3 and 4.

Limitations and Conditions:

1. The installer must determine whether this design change is compatible with previously approved modifications.

See continuation sheet 4.

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: November 28, 2008
Date of issuance: September 08, 2014

Date reissued:
Date amended:

By direction of the Administrator

Signature Scott A. Horn

Title Manager, Rotorcraft Certificaion Office
Southwest Region

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 supportingdocumentation (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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(Continuation Sheet)

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Date of Issuance: September 08, 2014

Description of Type Design Change-(continued):

2. Installation of Cool City Electronics Inc. Automatic Flight Control System (AFCS), Model HAP-100-001 in accordance with Master Drawing List 6410-0002-1, Revision -, dated Apirl 09, 2014, or later FAA approved revision. Rotorcraft Flight Manual Supplement 6562-0002-1 Revision -, dated September 08, 2014, or later FAA approved revision is required.

3. Installation of Cool City Electronics Inc. Automatic Flight Control System (AFCS), Stability Control Augmentation System (SCAS), HFC-100-001 in accordance with Master Drawing List 6410-0002-2 Revision -, dated April 09, 2014, or later FAA approved revision. Rotorcraft Flight Manual Supplement 6562-0002-2 Revision -, dated September 08, 2014, or later FAA approved revision is required.

4. Installation of Cool City Electronics Inc. Automatic Flight Control System (AFCS), Yaw Damper System Model HAP-150-001 in accordance with Master Drawing List 6410-0002-3, Revision -, dated April 09, 2014, or later FAA approved revision. Rotorcraft Flight Manual Supplement 6562-0002-3, Revision -, dated September 08, 2014, or later FAA approved revision is required.

5. Installation of Cool City Electronics Inc. Automatic Flight Control System (AFCS), Stability Control Augmentation System (SCAS), Yaw Damper System, Model HFC-150-001 in accordance with Master Drawing List 6410-0002-4, Revision -, dated April 09, 2014, or later FAA approved revision. Rotorcraft Flight Manual Supplement 6562-0002-4, Revision -, dated September 08, 2014, or later FAA approved revision is required.

6. Installation of Cool City Electronics Inc. Automatic Flight Control System (AFCS), Yaw Damper System and Orbit Mode Model HAP-150-001 in accordance with Master Drawing List 6410-0002-10, Revision -, dated April 09, 2014, or later FAA approved revision. Rotorcraft Flight Manual Supplement 6562-0002-5, Revision -, dated September 08, 2014, or later FAA approved revision is required.

7. Installation of Cool City Electronics Inc. Stability & Control and Augmentation System SCAS Upgrade-001, when the HAP-100-001 AFCS or HAP-150-001 AFCS/YD or HAP-150LE-001 AFCS/YD/Orbit Mode is previously installed in accordance with Master Drawing List 6410-0002-5, Revision -, dated April 09, 2014, or later FAA approved revision.

8. Installation of Cool City Electronics Inc. Yaw Damper Upgrade-001 when the HAP-100-001 AFCS or HFC-100-001 AFCS/SCAS is previously installed in accordance with Master Drawing List 6410-0002-6, Revision -, dated April 09, 2014, or later FAA approved revision.

9. Installation of Cool City Electronics Inc. Orbit Mode Upgrade-001 when the HAP-150-001 AFCS/YD or HFC-150-001 AFCS/SCAS/YD is previously installed in accordance with Master Drawing List 6410-0002-7, Revision -, dated April 09, 2014, or later FAA approved revision.

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Date of Issuance: September 08, 2014

Description of Type Design Change-(continued):

10. Installation of Cool City Electronics Inc. HFC-100-001, HFC-150-001/HFC-150LE-001, Automatic Flight Guidance System (AFCS), Stability & Control and Augmentation System (SCAS)/Yaw Damper System/Orbit Mode, when Force Trim has been previously installed in accordance with Master Drawing List 6410-0002-12, Revision -, dated April 16, 2014, or later FAA approved revision.

11. Installation of Cool City Electronics Inc. HAP-100-001, HAP-150-001/HAP-150LE-001, Automatic Flight Guidance System (AFCS)/Yaw Damper System/Orbit Mode, when Force Trim has been previously installed in accordance with Master Drawing List 6410-0002-12-1, Revision -, dated April 17, 2014, or later FAA approved revision.

Limitations and Conditions-(continued):

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.

3. This installation is limited to R44 and R44II with hydraulically-boosted main rotor flight controls installed.

Certification Basi:

14CFR 27.1 Amdt 27-37	14CFR 27.683 Amdt -
14CFR 27.21 Amdt 27-21	14CFR 27.685 Amdt 27-26
14CFR 27.29 Amdt 14	14CFR 27.687 Amdt -
14CFR 27.31 Amdt -	14CFR 27.771 Amdt -
14CFR 27.141 Amdt 27-21	14CFR 27.773 Amdt -
14CFR 27.143 Amdt 27-44	14CFR 27.777 Amdt -
14CFR 27.151 Amdt 27-21	14CFR 27.787 Amdt 27-27
14CFR 27.161 Amdt 27-21	14CFR 27.853 Amdt 27-37
14CFR 27.171 Amdt -	14CFR 27.855 Amdt -
14CFR 27.251 Amdt -	14CFR 27.861 Amdt 27-26
14CFR 27.301 Amdt -	14CFR 27.1301 Amdt -
14CFR 27.303 Amdt -	14CFR 27.1307 Amdt -
14CFR 27.305 Amdt -	14CFR 27.1309 Amdt 27-46
14CFR 27.307 Amdt 27-26	14CFR 27.1316 Amdt 27-46
14CFR 27.337 Amdt 27-26	14CFR 27.1317 Amdt -
14CFR 27.391 Amdt 27-34	14CFR 27.1321 Amdt 27-13
14CFR 27.395 Amdt 27-26	14CFR 27.1322 Amdt 27-11
14CFR 27.397 Amdt 27-40	14CFR 27.1325 Amdt 27-13
14CFR 27.399 Amdt -	14CFR 27.1329 Amdt 27-35
14CFR 27.561 Amdt 27-32	14CFR 27.1351 Amdt 27-13

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Certification Basis (Continuted):

14CFR 27.601 Amdt -	14CFR 27.1357 Amdt 27-13
14CFR 27.603 Amdt 27-16	14CFR 27.1365 Amdt 27-35
14CFR 27.605 Amdt 27-16	14CFR 27.1367Amdt -
14CFR 27.607 Amdt 27-4	14CFR 27.1381 Amdt -
14CFR 27.609 Amdt -	14CFR 27.1501 Amdt 27-14
14CFR 27.610 Amdt 27-46	14CFR 27-1523 Amdt -
14CFR 27.611 Amdt -	14CFR 27-1525 Amdt 27-21
14CFR 27.613 Amdt 26	14CFR 27-1527 Amdt 27-14
14CFR 27.619 Amdt -	14CFR 27-1529 Amdt 27-18
14CFR 27.623 Amdt -	14CFR 27-1541 Amdt -
14CFR 27.625 Amdt 35	14CFR 27-1555 Amdt 27-21
14CFR 27.629 Amdt 26	14CFR 27.1557 Amdt 27-11
14CFR 27.671 Amdt -	14CFR 27.1559 Amdt 27-21
14CFR 27.672 Amdt 27-21	14CFR 27.1581 Amdt 27-14
14CFR 27.674 Amdt 27-26	14CFR 27-1583 Amdt 27-16
14CFR 27.675 Amdt 27-16	14CFR 27-1585 Amdt 27-21
14CFR 27.681 Amdt -	

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