

United States Of America  
Department of Transportation - Federal Aviation Administration  
**Supplemental Type Certificate**

*Number* SR00328BO

*This Certificate issued to* Firefly, Inc.  
318 Tremont Street  
South Carver, Massachusetts 02366

*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:* H11NM  
*Make:* Robinson Helicopter Company  
*Model:* R44, R44 II

*Description of Type Design Change:*

Installation of Firefly Agricultural Spreader System in accordance with Master Drawing List (MDL) FFI-10000DRMDL Rev. B, dated January 15, 2013, or later FAA approved revision.

*Limitations and Conditions:*

1. Limited to Restricted Category and Day VFR with Firefly Agricultural Spreader System.
2. Instructions for Continued Airworthiness (ICA), Document No. FFI-10000DR-003, dated January 2013 or later FAA accepted revision shall be made available to the operator at the time of installation.

(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, revoked, or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.*

*Date of application:* April 10, 2012

*Date reissued:*

*Date of issuance:* March 19, 2013

*Date amended:*

*By direction of the Administrator*



\_\_\_\_\_  
(Signature)

Robert G. Mann  
Manager  
Boston Aircraft Certification Office

\_\_\_\_\_  
(Title)

United States Of America  
Department of Transportation - Federal Aviation Administration

# Supplemental Type Certificate

(Continuation Sheet)

*Number* SR00328BO

March 19, 2013

INSTRUCTIONS: The transfer endorsement below may be used to notify the appropriate FAA Regional Office of the transfer of the Supplemental Type Certificate.

The FAA will reissue the certificate in the name of the transferee and forward it to him.

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## TRANSFER ENDORSEMENT

Transfer the ownership of Supplemental Type Certificate Number \_\_\_\_\_

to (*Name of transferee*) \_\_\_\_\_

(*Address of transferee*) \_\_\_\_\_

(*Number and street*)

\_\_\_\_\_  
(*City, State, and ZIP code*)

from (*Name of grantor*) (*Print or type*) \_\_\_\_\_

(*Address of grantor*) \_\_\_\_\_

(*Number & street*)

\_\_\_\_\_  
(*City, State, and ZIP code*)

Extent of Authority (if licensing agreement): \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Date of Transfer: \_\_\_\_\_

Signature of grantor (*In ink*): \_\_\_\_\_

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# Supplemental Type Certificate

(Continuation Sheet)

*Number* SR00328BO

March 19, 2013

*Limitations and Conditions:* (continued from Page 1 of 3)

3. Firefly Rotorcraft Flight Manual Supplement for Robinson R44 Series with Firefly Agricultural Spreader System, FFI-10000DR-001, Revision: Initial, dated March 19, 2013, or later FAA approved revision, is required and must be carried in the aircraft during all flights.
4. Installation of STC SR00311BO and STC SR00324BO is a prerequisite or concurrent requirement.
5. Spreading media is limited to Nitrogen/Potash/Potassium (NPK) based on dry granular fertilizer and granular lime.
6. This approval should not be extended to other aircraft of this model on which other previously approved modifications are incorporated unless it is determined by the installer that the interrelationship between this change and any of those other previously approved modifications will produce no adverse effect upon the airworthiness of that aircraft.

*Type Certificate Data Sheet:*

Robinson Helicopter Company TCDS H11NM is modified for this STC as follows:

Model R44/R44 II (Restricted Category Rotorcraft with Firefly Agricultural Spreader System installed)

Airspeed Limits  $V_{NE}$  with Firefly Agricultural Spreader System installed is 50 KIAS

Maximum Operation Altitude 1,500 ft AGL

*Certification Basis:*

Based on 14 CFR § 21.115 and 21.101, and the FAA policy for design changes that are identified as not significant in FAA Order 8110.48, the certification basis for the Robinson R44helicopter is as follows:

- a. The type certification basis for parts **not changed or not affected** by the change is shown on TCDS H11NM.
- b. The modification certification basis for parts **changed or affected** by the change since the reference application date, April 10, 2012, is based upon Part 27 as amended by Amendment 27-46 as follows:

**14 CFR Regulations at the latest amendment level 27-26 through 27-46**

27.143(a)(c), 27.307(a), 27.337, 27.1309(c)(d), 27.1365

**14 CFR Regulations at an intermediate amendment level 27-25**

27.561(a)(d)

**14 CFR Regulations at the amendment level in TCDS H11NM**

27.21, 27.25, 27.171, 27.301(a), 27.303(a)(b), 27.305(a), 27.309(a)(g), 27.601, 27.603(a)(b)(c), 27.605(a), 27.607(a)(b), 27.609(a), 27.611(a), 27.613(a)(b)(c)(d), 27.1301, 27.1351, 27.1357, 27.1367, 27.1435, 27.1503, 27.1529, 27.1581, 27.1583, 27.1585

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.

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