

Department of Transportation - Federal Aviation Administration

Supplemental Type Certificate

Number SR00286BO*This certificate, issued to***Simplex Manufacturing Company
13340 NE Whitaker Way
Portland, OR 97230**

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 27 of the Federal Aviation Regulations.

<i>Original Product—Type Certificate Number:</i>	H11NM
<i>Make:</i>	Robinson Helicopter Company
<i>Model:</i>	R44, R44 II

Description of the Type Design Change: Fabrication of the Helipod III agricultural spray system in accordance with Simplex Master Drawing List HPR44III25201MDL, Revision D, dated January 9, 2013, or later FAA-approved revision; and Installation in accordance with Simplex Installation Manual PM001-HPR44III-25-008, Revision 4, dated December 30, 2012, or later FAA-approved revision. This modification must be maintained in accordance with Simplex Instructions for Continued Airworthiness (ICA) PM011-HPR44III-25-007, Revision 7, dated February 4, 2013, or later FAA-accepted revision.

Limitations and Conditions: Limited to Restricted Category and Day VFR with agricultural spray system installed. Approval of this change in type design applies to the helicopters listed above only. This approval should not be extended to other helicopters 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 the other previously approved modifications, including changes in type design, will introduce no adverse effect upon the airworthiness of that helicopter. The modified helicopter must be operated in accordance with the FAA-approved Simplex Rotorcraft Flight Manual Supplement (RFMS) for Robinson R44 Series with Helipod III Spray System P/N HRP44III25201-402, Revision 2, signed October 30, 2009, or later FAA-approved revision. A copy of this Certificate, the FAA-approved RFMS, and the ICA, must be maintained as part of the permanent records of the modified helicopter.

(See Continuation Sheet Page 3 of 3 Pages)

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: February 16, 2007*Date reissued:* May 14, 2009; July 1, 2009*Date of issuance:* May 1, 2009*Date amended:* 11/18/09; 2/28/13*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 **SR00286BO**

Simplex Manufacturing Company

Issued: May 1, 2009

Reissued: May 14, 2009; July 1, 2009

Amended: 11/18/09; 2/28/13

Limitations and Conditions Continued:

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.

Certification Basis:

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

Model R44 (Restricted Category Rotorcraft with spray system installed)

Airspeed Limits V_{ne} with spray system installed is 100 KIAS

Airspeed limit to jettison load is 20 KIAS

Center of Gravity (C.G.) Range

Longitudinal C.G. Range			Lateral C.G. Range		
Gross Weight (lb.)	Forward (in.)	Aft (in.)	Long. C. G. (in.)	Left (in.)	Right (in.)
1550	92.1	97.3	92.0	-3.0	+3.0
2000	92.1	97.3	100.0	-3.0	+3.0
2200	92.1	97.3	102.5	-1.5	+1.5
2400	92.1	97.3			

Note: Straight line variation between points shown.

Model R44 II (Restricted Category Rotorcraft with spray system installed)

Airspeed Limits V_{ne} with spray system installed is 100 KIAS

Airspeed limit to jettison load is 20 KIAS

Center of Gravity (C.G.) Range

Longitudinal C.G. Range			Lateral C.G. Range		
Gross Weight (lb.)	Forward (in.)	Aft (in.)	Long. C. G. (in.)	Left (in.)	Right (in.)
1600	92.1	97.3	92.0	-3.0	+3.0
2100	92.1	97.3	100.0	-3.0	+3.0
2300	92.1	97.3	102.5	-1.5	+1.5
2500	92.1	97.3			

Note: Straight line variation between points shown

- END -

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.