

DEPARTMENT OF TRANSPORTATION  
FEDERAL AVIATION ADMINISTRATION

H7NM  
Revision 3  
Rotary Rocket Company  
UH-34E  
UH-34D  
May 7, 2003

TYPE CERTIFICATE DATA SHEET NO. H7NM

This data sheet, which is a part of Type Certificate No. H7NM, prescribes conditions and limitations under which the product for which the type certificate was issued meets the airworthiness requirements of the Federal Aviation Regulations.

Type Certificate Holder  
Rotary Rocket Company  
1475 Terminal Way, #E  
Reno, NV 89502

Type Certificate Holder Record:  
Federico Helicopters, Inc.  
2291 Airways Drive, Bldg. 420-A  
Fresno, CA 93727

I. Model U.S. Marines UH-34E (HUS-1A), UH-34-D (HUS-1) (Restricted Category) approved February 4, 1985

Engine  
1. Wright Cyclone R-1820-84A  
2. Wright Cyclone R-1820-84C/989C9HE2  
3. Wright Cyclone R-1820-84D/998C9HE2 (same limitations as for Wright 989C9HE2)

Fuel 115/145, 100/130 minimum grade aviation gasoline

Engine Limits

<u>Fuel Grade 115/145</u>	<u>HP</u>	<u>RPM</u>	<u>M.P.</u> <u>in. Hg.</u>	<u>Alt.</u>
Maximum continuous	1275	2500	47.5	S.L.
Maximum continuous	1275	2500	46.0	3500 ft.
Takeoff (5 minutes)	1525	2800	56.5	S.L.
Takeoff (5 minutes)	1525	2800	55.5	700 ft.

(Straight line manifold pressure variation with altitudes shown.)

<u>Fuel Grade 100/130 (Item (1) required)</u>				
	<u>HP</u>	<u>RPM</u>	<u>M.P.</u> <u>in. Hg.</u>	<u>Alt.</u>
Maximum continuous	1275	2500	47.5	S.L.
Maximum continuous	1275	2500	46.0	3500 ft.
Takeoff (5 minutes)	1425	2800	53.0	S.L.
Takeoff (5 minutes)	1425	2800	52.0	2900 ft.

(Straight line manifold pressure variation with altitudes shown.)

Rotor Limits  
Maximum 258 rpm  
Minimum 170 rpm. See Note 3 for required placard.

Airspeed Limits  
Maximum never exceed,  $V_{ne}$ , 120 knots CAS (117 knots IAS)  
See Note 3 for required Placard.

C.G. Range  
(+129.6) to +146.7)

Empty weight C.G. Range  
None

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

NOTE 1.

Current weight and balance report, including list of equipment included in certificated empty weight, and loading instructions when necessary, must be in each helicopter at the time of original airworthiness certification and at all times thereafter. When changes are made to the helicopter which affect weight and balance, refer to the Flight Manual for instructions.

NOTE 2.

Information essential to the proper maintenance of the helicopter including retirement time of critical components is contained in the Sikorsky S-68 Maintenance Manual provided with each helicopter. Sikorsky Publications No. SA4045-15, Part IV, S-58 Maintenance Manual and Sikorsky Equalized Inspection and Maintenance Program, SA-4047-20. The values of retirement or service life cannot be increased without FAA engineering approval. Component overhaul intervals shall be in accordance with Sikorsky Maintenance Manual, Section IV, Volume II of SA-4045-15 & Sikorsky Equalized Inspection & Maintenance Program, SA-4047-20.

NOTE 3.

The following placards must be displayed on the instrument panel in full view of the pilot.

1. "This helicopter must be operated in compliance with the operating limitations specified in the FAA approved rotorcraft flight manual SA-4045-12."
2. "Avoid fast turns, 15 sec. minimum for 360 degrees."
3. "During extended hovering, close windows and doors and turn vent system on. Close left window during starting and taxiing."
4. "During extending hovering, sideward and rearward flight, close windows and doors and turn vent system on."
5. "Avoid taxi turns below 2400 engine rpm."
6. "Never exceed speeds. Variation of Vne with altitude, engine rpm and manifold pressure."

ALTITUDE	2200 RPM		2300 RPM		2400 RPM		2500 RPM	
	IAS Kn.	M.P. "Hg"	IAS Kn.	M.P. "Hg"	IAS Kn.	M.P. "Hg"	IAS Kn.	M.P. "Hg"
SEA LEVEL	72	35.5	87	38.7	103	42.3	117	47.5
5,000 FT.	--	--	60	37.0	76	41.0	90	F.T.
10,000 FT.	--	--	--	--	--	--	63	F.T.

7. "Maximum baggage permitted 1000 lbs." "See loading information in flight manual." (On baggage compartment door)

NOTE 4.

Prior to civil airworthiness certification, the following must be accomplished:

1. Sikorsky S-58 series ADs must be reviewed for applicability pertinent to model to be certificated and complied with if required. Any follow-on ADs to be complied with.
2. Sikorsky S-58 Service Bulletin must be reviewed for applicability pertinent to model to be certificated and complied with if required by Sikorsky aircraft. Any follow-on service bulletin required by Sikorsky Aircraft to be complied with.
3. Deactivate Automatic Flight Control System if installed.

NOTE 5.

The transmission oil cooler blower may be removed in accordance with Sikorsky Drawing 58080-35001.

Item 1 Flight Manual Supplement No. 5 dated October 9, 1957, reissued June 10, 1958, revised April 23, 1959, (1): to FAA approved Rotorcraft Flight Manual dated August 2, 1956, reissued June 28, 1957, revised August 13, 1972, (RFM 4045-12) required when grade 100/130 fuel is used.

.....END.....