

**DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION**

H2NM
Revision 2
CA DEPT. OF
FORESTRY
UH-1F
AUG. 21, 1987

TYPE CERTIFICATE DATA SHEET NO. H2NM

This data sheet, which is a part of type certificate H2NM 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: California Department of Forestry
1416 Ninth Street
Sacramento, California 95814

Model UH-1F, 11 PCLH, Approved (Restricted Category)

Engine General Electric T-58-3

Fuel JP-4, Mil-T-5624; Jet A-1
JP-5, Mil-T-5624G; Jet B

Engine Limits

	Torque Pressure <u>(P.S.I.)</u>	Output Horsepower <u>(H.P.)</u>	Exhaust Gas Temp <u>(C)</u>	Gas Gen. Speed <u>(R.P.M.)</u>
Take-off (5 min.)	67	1100	678-690	102.5%z
Continuous	54	888	635	Limited by E.G.T.

Rotor Limits

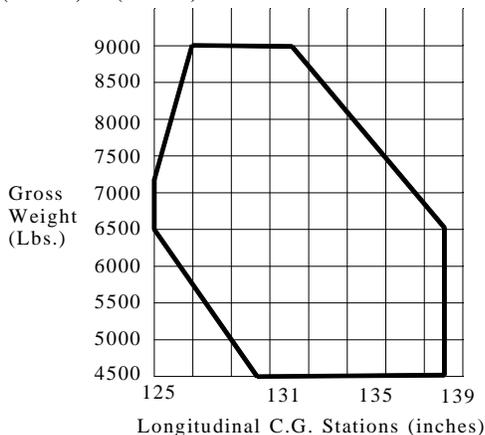
<u>Power Off</u>	<u>Power On</u>
Maximum 339 R.P.M.	Maximum 317 R.P.M.
Minimum 295 R.P.M.	Minimum 295 R.P.M.

Airspeed Limits

Never exceed 120 knots
Above 70 knots, 6200 to 6450 Engine R.P.M. required.

C.G. Range

Longitudinal C.G. Limits:
(+127.0) to (+132.0) to 9000 lbs.
(+125.0) to (+136.0) to 7250 lbs.
(+125.0) to (+138.0) to 6500 lbs.
(+130.0) to (+138.0) to 4500 lbs.



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Maximum Weight	9000 lbs.	
Minimum Crew	1	
Maximum Passengers	10	
Maximum Baggage	400 lbs. in Tail Boom Compartment	
Fuel Capacity	245 Gallons Total (3.0 unusable)	
Oil System Capacity	5.4 Gallons Total (0.8 unusable)	
Rotor Blade & Control Movements	Refer to USAF T.O 1H-1(U)F-2-1	
Serial Numbers Eligible	<u>Bell</u>	<u>USAF</u>
	7013	64-13153
	7033	64-15483
	7040	64-15490
	7046	64-15496
	7048	64-15498
	7058	65-7917
	7062	65-7921
	7074	65-7933
	7079	65-7938
	7081	65-7940
	7088	65-7947
	7090	65-7949
	7093	65-7952
	7095	65-7954
	7104	65-7963
	7108	66-1212
	7109	66-1213
Datum	7.6 inches aft of aircraft nose	
Leveling Means	Drop plumb bob from "key hole" slot in upper left door sill. Reference to 1H-1(U)F-5.	
Certification Basis	FAR 21.25(a)(2) effective February 1, 1965. Type Certificate No. H2NM issued December 23, 1983 for the purpose of:	
	1. Forest and Wildlife conservation which includes external cargo carriage necessary for these operations in accordance with FAR 133.	
Production Basis	None. No helicopter may be produced under this approval.	
Equipment	The basic required equipment as prescribed in the applicable airworthiness regulations (see certification basis) must be in the each type helicopter for certification; in addition, the following is required:	
	(1) U.S. Air Force T.O. 1H-1(U)F01, UH1F Flight Manual.	
	(2) Equipment listed on the sealed master drawing list, drawing 1400-100E, dated December 1, 1983.	
Note 1	Aircraft must be reconfigured in accordance with CDF special inspection "Reconfiguration Build-up" revision "B" dated 11/6/81 or subsequent.	
Note 2	Aircraft shall be maintained in accordance with CDF UH-1F maintenance and inspection program and TO 1H-1(U)F-2-1, organization maintenance.	

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- Note 3 Aircraft shall be operated in accordance with USAF T.O. 1H-1(U)F-1. The operational limits are noted in Section V.
- Note 4 Prior to issuance of an airworthiness certificate for each aircraft and at the prescribed intervals, all inspections and modification must be accomplished per the latest revisions of all California Department of Forestry UH-1F Technical Directive Indexes.
- Note 5 Current weight and balance report, TO 1H-1(U)F-5S-5, including list of equipment included in certificated empty weight and loading instructions must be in each type helicopter at time of original airworthiness certification and at all times thereafter.
- Note 6 Prior to civil certification the following must be accomplished:
- (a) FAA Airworthiness Directives, Bell Service Bulletins for all Bell 204/205 series helicopters, USAF Time Compliance Technical Orders and The General Electric T-58-3 engines must be reviewed for applicability and complied with accordingly.
- Note 7 Continued airworthiness of the UH-1F series helicopters listed by serial number in this TCDS is contingent upon compliance with all FAA airworthiness directives applicable to Bell Helicopter Textron, Inc., Model 204/205 series helicopters, the General Electric CT-58 (military model T-58-3) engine and any component installed thereon.
- Note 8 Type Certificate (TC) and Type Certificate Data Sheet reissued to clearly state that Bell Helicopter Textron, Inc., has no involvement with this TC and that the California Department of Forestry is the original holder of TC No. H2NM. Authority, AWS-100 Memo dated February 22, 1985.

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