

DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

H7WE
Revision 2
Sterling Aircraft
Industries, Inc.
Piasecki
(NAVY) HUP-2
(NAVY) HUP-3/
(ARMY) H-25A
Revised January 24, 2005

TYPE CERTIFICATE DATA SHEET NO. H7WE

This data sheet which is a part of type certificate No. H7WE 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: **This Type Certificate (TC) has been designated as ABANDONED** (See Note 5)

Type Certificate Holder Record: Sterling Aircraft Industries, Inc.
5060 East Falcon Drive
Falcon Field
Mesa, Arizona 85205

I - Model U.S. Navy HUP-2 (Restricted Category), approved January 13, 1971

Engine	Continental R975-46	
Fuel	115/145 or 100/130 Minimum grade aviation gasoline	
Engine Limits	Normal Maximum (30 minute limit) 2350 RPM and 39 in. Hg. (475 HP) Maximum allowable continuous 2350 RPM & 37.5 in. Hg. (450 HP)	
Rotor Limits and engine operating speeds	<u>Power Off (Rotor Tach.)</u>	<u>Power on (Engine Tach.)</u>
	Maximum 360 r.p.m. Minimum 230 r.p.m.	Maximum 2350 r.p.m. Minimum 2100 r.p.m.
Airspeed limits	Vne (never exceed) 75 KIAS	
C.G. Range	14 in. (167.5) forward to 5.5 in. (187.0) aft of datum	
Datum	Point midway between rotors (181.5)	
Maximum weight	5400 lbs.	
Minimum Crew	1 (pilot) (56.0)	
Fuel capacity	150 gal. (900 lb.) (183.0)	
Oil capacity	Engine oil 9.5 gal. (211.05) Forward transmission 3.0 quarts (50.0) Aft transmission 4.0 quarts (318.97)	
Other Operating Limitations	Navy Flight Handbook NW01-250 HCA-1 revised July 1, 1960 and, the FAA Approved Rotorcraft Flight Manual Supplement (Thomas W. DeShong & Homer H. Helton) dated January 13, 1971 or subsequent FAA Approved Revision.	
Serial Nos. Eligible	All Navy Bureau of Aeronautics Serial Numbers identified as Model HUP-2 are eligible for certification.	

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

II - Model U.S. Navy HUP-3/ARMY H-25A (Restricted Category), Approved June 13, 1975

Engine	Continental R975-46	
Fuel	115/145 or 100/130 Minimum grade aviation gasoline	
Engine Limits	Normal Maximum (30 minute limit) 2350 RPM and 39 in. Hg. (475 HP) Maximum allowable continuous 2350 RPM & 37.5 in. Hg. (450 HP)	
Rotor Limits and engine operating speeds	<u>Power Off (Rotor Tach.)</u>	<u>Power On (Engine Tach.)</u>
	Maximum 360 r.p.m. Minimum 230 r.p.m.	Maximum 2350 r.p.m. Minimum 2100 r.p.m.
Airspeed Limits	Vne (never exceed) 75 KIAS	
C.G. Range	14 in. (167.5) forward to 5.5 in. (187.0) aft of datum	
Datum	Point midway between rotor (181.5)	
Maximum Weight	5400 lbs.	
Minimum Crew	1 (pilot) (56.0)	
Fuel Capacity	150 gal. (900 lb.) (183.0)	
Oil Capacity	Engine oil 9.5 gal. (211.05) Forward transmission 3.0 quarts (50.0) Aft transmission 4.0 quarts (318.97)	
Other Operating Limitations	Navy Flight Handbook NW01-250 HCA-1 revised July 1, 1960 and, the FAA Approved Rotorcraft Flight Manual Supplement dated June 13, 1975 or subsequent FAA Approved Revision.	
Serial Numbers Eligible	All Navy Bureau of Aeronautics Serial Numbers identified as Model HUP-3/ARMY H-25A are eligible for certification.	

DATA PERTINENT TO ALL MODELS

Certification Basis	FAR 21.25(a)(2), effective February 1 1965 Type Certificate No. H7WE reissued June 13, 1975 for the special purpose of: Actual aerial photography only. This does not include the transportation of passengers or cargo to and/or from ground sites. Date of application for Type Certificate March 1, 1969, Amendment September 17, 1970 and October 25, 1974.
Production Basis	None. No helicopter may be produced under this type approval.
Equipment	The basic required equipment as prescribed in the applicable airworthiness regulations (see certification basis) must be installed in the Helicopter for certification. In addition, equipment necessary for the particular special purpose must be installed.

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.

NOTE 2. The following placard must be prominently displayed in the cockpit in full view of the pilot:

"This helicopter must be operated in compliance with the operating limitations specified in NAVWEPS 01-250-HCA-1 and the FAA approved Supplement thereto."

- NOTE 3. This helicopter must be serviced and maintained in compliance with Maintenance Handbook NWO1-250HCA-2, revised July 1, 1960, and Inspection Requirements Handbooks NW01-250HCA-6, revised March 15, 1963, and NW01-250HCA-7, revised March 15, 1963.
- NOTE 4. Prior to Civil Airworthiness Certification, the following must be accomplished:
- (a) The alterations as shown on FAA Sealed Drawing Nos. 1202 sheet 1, and Sheet 2, and Sheet 3, and 1203 as applicable to the particular vehicle being presented for Certification.
 - (b) Inspect all rotor blade sets P/N 18R1010-5, P/N 18R1010-6, P/N 18R1010-50, and P/N 18R1010-60 and rework or replace as necessary in accordance with instructions contained in "Handbook - Overhaul and Structural Repair," NAVWEPS 03-95A-501 Revised June 1, 1962, as specifically covered by Section II, paragraphs 2-16B through 2-16F, unless the inspection and rework have been accomplished within six (6) months prior to issuance of the Airworthiness Certificate.
 - (c) Determine that the HUP-2 conforms to the following service documents:
 - 1. Navy HUP Aircraft Service Change 9, 14, 16, 18, 19, 20, 22, 23, 26, 27, 29, 30, 31, 32, 32A, 33, 34, 35, 36, 39, 41, 42, 44, 45, 46, 47, 47A, 48, 51, 53, 54, 55, 56, 57, 57A, 57B, 59, 60, 62, 66, 67, 68, 72, 73, 74, 75, 77, 77A, 82, 84, 85, 86, 86-1, 87, 88, 92, 94, 95B, 96, 97, 100, 101A, 102, 102A, 102B, 102C, 103, 103-1, 104, 104A, 106, 106A, 107, 107A, 108, 109, 111, 111A, 113, 114A, 115, 117, 119, 122, 123, 124, 125A, 126, 127, 127A, 130.
 - 2. Navy HUP Helicopter Component Bulletin Nos: 1, 4, 6, 7, and 8.
 - 3. Navy HUP Aircraft Bulletin Nos: 5, 6, 8, 9, 10, 11, 15, 16, 17, 18, 19, 20, 24.
 - (d) Determine that the HUP-2 and HUP-3/Army H-25A conforms to the following service documents:
 - 1. Navy HUP Aircraft Service Change 61, 64, 65, 71, 71A, 71B, 76, 76A, 78, 80, 83, 83A, 90, 91, 91A, 91B, 93, 93-1, 110, 116, 120, 120A, 121, 125, 125A, 125B, 128, 128C, 129, 131, 132, 135, 137.
 - 2. Navy HUP Helicopter Component Bulletin No: 6.
 - 3. Navy HUP Aircraft Bulletin Nos: 13, 21, 22, 25.
 - (e) Determine that the HUP-3/Army H-25A conforms to the following Service Document Navy HUP Aircraft Service Change No. 133.
- NOTE 5. **This Type Certificate (TC) has been designated "ABANDONED".** A "Notice of Intent To Designate as Abandoned Certain Type Certificates Issued in the Restricted Category," was published by the Federal Aviation Administration (FAA) in the Federal Register on August 8, 2003 (68 FR 47379). That Notice listed this TC. The FAA received no comments on the published Notice. The FAA has been unable to contact this TC holder. Hence, the FAA has determined that this TC holder is not complying with its Continued Operational Safety (COS) responsibilities. Therefore, no additional aircraft will be added to this TC and no additional original airworthiness certificates will be issued based on this TC. The effectiveness of this TC is limited to those aircraft that received original airworthiness certification prior to the incorporation of this note (Date of Incorporation, January 24, 2005). Subsequently, if the TC holder is located and assumes their COS responsibilities, the restriction(s) imposed by this note may be lifted.

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