

DEPARTMENT OF TRANSPORTATION  
FEDERAL AVIATION ADMINISTRATION

H11WE  
Revision 1  
LASSEN AIR  
Vertol (Army) CH-21C  
Revised January 24, 2005

TYPE CERTIFICATE DATA SHEET NO. H11WE

This data sheet which is a part of type certificate No. H11WE 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:       Lassen Air  
P.O. Box 179  
Chico, California 95926

I - Model U.S. Army CH-21C (Restricted Category) approved

Engine                                       Wright R-1820-103

Fuel   115/145 or 100/130 min. grade Aviation Gasoline

Engine limits

	<u>HP</u>	<u>RPM</u>	<u>MP</u> <u>IN HG</u>	<u>ALT.</u>
Low Impeller Gear Ratio				
Maximum Continuous	1275	2500	46.5	S.L.
Maximum Continuous	1275	2500	45.5	2200
Take-Off (5 min)	1425	2700	51.5	S.L.
Take-Off (5 min)	1425	2700	50.5	1300

(Straight line manifold pressure variation with altitude).

*NOTE: Operation at 2600 RPM prohibited.*

High Impeller Gear Ratio

Maximum Continuous	980	2500	43.0	10,800
Maximum Continuous	980	2500	42.0	15,600
Take-Off (5 min)	1100	2600	50.0	9,800
Take-Off (5 min)	1100	2600	49.0	13,000

(Straight line manifold pressure variation with altitude).

*NOTE: Operation at 2700 RPM prohibited.*

Rotor Limits and  
Engine Operating  
Speeds

Power Off (Rotor Tach.)	Power On (Engine Tach.)
Maximum 258 RPM	Maximum 2500 RPM
Minimum 233 RPM	Minimum 2300 RPM
	Maximum 2700 RPM; 30 minute limit

Airspeed limits                       Vne (Never exceed) 102 knots IAS Sea Level

C.G. range                               35 in. fwd. (Sta. 319) to 6.5 in. aft  
(Sta. 360.5) of datum

Datum                                     Point midway between rotors (Sta. 354)

Maximum weight                       13,500 pounds

Minimum Crew                         1 (pilot)

Fuel capacity                           Main Fuel Tank 304 Gal. (Sta. 395.0)  
(300 Gal. usable in forward flight)

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Oil capacity	21.5 Gal. (Sta. 540.3)
Other Operating Limitations	Department of the Army Technical Manual TM 55-1520-205-10 "Operator's Manual CH-21Helicopter" dated 1964.
Serial Nos. Eligible	All Army Serial Nos.
Certification basis	FAR 21.25(a)(2) effective 1 February 1965, Restricted Type Certificate No. H11WE issued for special purpose of Agriculture Frost Control by air agitation. Date of Application for Type Certificate 18 March 1977.
Production basis	None. No helicopter may be produced under this type approval. Prior to original Certification of each aircraft, an FAA representative must perform an inspection for workmanship, materials, and conformity with the approved type design.
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. For placards see Department of the Army, Technical Manual TM 55-1520-205-10.
- NOTE 3. This model helicopter must be serviced and maintained in compliance with Department of the Army Technical Manual TM 55-1520-205-20, "Organizational Maintenance Manual CH-21C helicopter" dated 1964.
- The retirement times are listed in Chapter 3, Section IV of the Department of the Army Technical Manual TM 55-1520-205-20.
- NOTE 4. Prior to civil restrictive airworthiness certification, the following must be accomplished:
- (a) The provisions of AD 60-7-8.
  - (b) The provisions of the following service documents:
    - (1) Piasecki Helicopter Corporation SDTM Nos. 1160, 1341, 1377 and 1489.
    - (2) Vertol Aircraft Corporation SDTM Nos. 1568, 1627, 1643, 1662, 1662-1, 1678, 1701, 1714, 1721, 1722, 1727, 1737, 1747, 1750, 1755, 1757, 1773, 1773-1, 1787, 1792A, 1793, 1797, 1798, 1800, 1805, 1815, 1824, 1833, 1834, 1844, 1845 1852, 1859, 1886, 1924, 1952, 1955, 1975, 1980, 1984 and 1986.
    - (3) Boeing Vertol SDTM Nos. 1992, 1999, 1999-1, 2014, 2014-1, 2017, 2025, 2041, 2047, 2047-1, 2052, 2055, 2056, 2056-1 and 2059.
    - (4) Department of the Air Force Technical Order 1H-21-610.
    - (5) Department of the Army Technical Bulletins TB 55-1520-205-20/7, 34/7 and 34/8 Change No. 1.
    - (6) Department of the Army Modification Work Orders MWO 55-1520-205-20/1 Change No. 1, MWO 55-1520-205-20/2, 34/5, 34/11, 34/17, 34/18, MWO 55-1680-200/20/1 Change No. 2, and MWO 55-2800-201-20/1 change No. 1.
- 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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