

**DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION**

R00003AC
Pickering Aviation, Inc.
EH-60A
UH-60A
Revision: 1
02/11/2021

TYPE CERTIFICATE DATA SHEET R00003AC

This data sheet, which is a part of Type Certificate No. R00003AC prescribes conditions and limitations under which the product for which the type certificate was issued meets the airworthiness requirements of the 14 Code of Federal Aviation Regulations (14 CFR).

TYPE CERTIFICATE (TC) Pickering Aviation, Inc.
HOLDER: 1811 Sussex Way
 Corinth, Texas 76210

TYPE CERTIFICATE (TC)
HOLDER RECORD: N/A

I – MODEL NUMBER: EH-60A (Restricted Category Military Rotorcraft) Approved May 13, 2019

ENGINES: (2) General Electric T700-GE-700 Original
 (2) General Electric T700-GE-701C Alternate
 (2) General Electric T700-GE-701D/CC Alternate
 *See NOTE 9 for alternate engine information.

FUEL: Aviation Kerosene JP-4, JP-5, JP-8, Jet A, Jet A-1 or Jet B
 *See NOTE 16 for alternate and emergency fuels.

ENGINE LIMITS: (T700-GE-700)	SHAFT HP	POWER TURBINE RPM	GAS GEN RPM	POWER TURBINE INLET (TGT)
Military Power (30 min.)	1,561	20,900	44,700	850° C
Normal Cont. Cruise	1,318	20,900	44,700	775° C

ENGINE LIMITS: (T700-GE-701C)	SHAFT HP	POWER TURBINE RPM / %	GAS GEN RPM / %	POWER TURBINE INLET (TGT)
Contingency Rated Power (CRP) (2 1/2 min. OEI)	1,940	20,900 / 100	44,700 / 102	903° C
Maximum Rating (10 Min. dual)	1,890	20,900 / 100	44,700 / 102	878° C
Intermediate Rated Power (IRP) (30 min dual)	1,800	20,900 / 100	44,700 / 102	851° C
Maximum Continuous Power (MCP)	1,662	20,900 / 100	44,700 / 102	810° C

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ENGINE LIMITS: (T700-GE-701D/CC)	SHAFT HP	POWER TURBINE RPM / %	GAS GEN RPM / %	POWER TURBINE INLET (TGT)
Contingency Rated Power (CRP) (2 1/2 min. OEI)	1,940	20,900 / 100	44,700 / 102	903° C
Maximum Rating (10 Min. dual)	1,890	20,900 / 100	44,700 / 102	878° C
Intermediate Rated Power (IRP) (30 min dual)	1,800	20,900 / 100	44,700 / 102	851° C
Maximum Continuous Power (MCP)	1,662	20,900 / 100	44,700 / 102	810° C

TRANSMISSION LIMITS:

TORQUE:

110% Single Engine (No Time Limit)

100% Dual Engine (No Time Limit)

ROTOR LIMITS:

POWER OFF:

Max. 265 RPM (110%)

Min. 217 RPM (90%)

POWER ON:

Max. 258 RPM (107%)

Min. 232 RPM (96%)

AIRSPEED LIMITS:

V_{ne} POWER ON:

193 knots IAS, (221 MPH).

Refer to PA-1-1520-237-10, Operator's Manual for the Restricted Category Aircraft Model EH-60A, UH-60A Helicopter, Rev. 1, Dated May 15, 2020, or later FAA approved revisions, for variations of V_{ne} with gross weight, pressure altitude, and temperature.

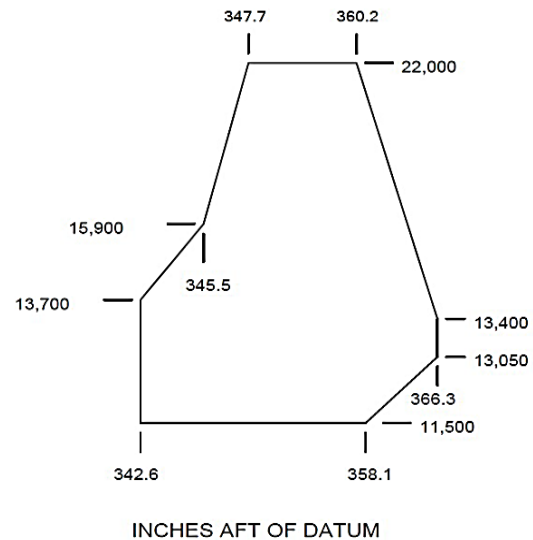
Refer to PA-1-1520-237-10, Operator's Manual for the Restricted Category Aircraft Model EH-60A, UH-60A Helicopter, Rev. 1, Dated May 15, 2020, or later FAA approved revisions, for additional limitation data.

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EMPTY WEIGHT C.G. RANGE:

None.

DATUM:

341.2 inches forward of the main rotor centroid.

LEVELING MEANS:	Plumb bob in L/H cabin door frame to leveling plate on cabin floor or electronic leveling means in accordance with PA-1-1520-237-23&P Rev. 0, Dated November 1, 2018 or later FAA approved revisions.		
MAXIMUM WEIGHT:	22,000 lbs. *See NOTE 15		
MINIMUM CREW:	2 (Pilot in Command and Second in Command) both located at aircraft station 227. *See NOTE 14		
NUMBER OF SEATS:	OEM established locations: 2 at Sta. 227.1; 1 at Sta. 262.0; 3 at Sta. 282.0; 3 at Sta. 320.7; 4 at Sta. 339.8; 4 at Sta. 387.2. No Passengers permitted. *See NOTE 11		
MAX COMPARTMENT WEIGHT:	<u>Compartment C</u> Sta. 247 to Sta. 288 6460 lbs.	<u>Compartment D</u> Sta. 288 to Sta. 343 8370 lbs.	<u>Compartment E</u> Sta. 343 to Sta. 398 8370 lbs.
FUEL CAPACITY:	361.5 gallons; 2 tanks (LH & RH interchangeable) 359.7 gallons; 2 tanks (LH & RH interchangeable) (with fuel boost pumps installed) STA. 420.75		
OIL CAPACITY:	7 quarts each engine at STA. 375.0		
OTHER LIMITS:	Refer to PA-1-1520-237-10, Operator's Manual for the Restricted Category Aircraft Model EH-60A, UH-60A Helicopter Rev. 1 Dated, May 15, 2020, or later FAA approved revisions. <i>Reference the Note Section for additional limitations.</i>		

II – MODEL NUMBER: UH-60A (Restricted Category Military Rotorcraft) Approved February 11, 2021

ENGINES:	(2) General Electric T700-GE-700 Original (2) General Electric T700-GE-701C Alternate (2) General Electric T700-GE-701D/CC Alternate *See NOTE 9 for alternate engine information.
FUEL:	Aviation Kerosene JP-4, JP-5, JP-8, Jet A, Jet A-1 or Jet B *See NOTE 16 for alternate and emergency fuels.

ENGINE LIMITS: (T700-GE-700)	SHAFT HP	POWER TURBINE RPM	GAS GEN RPM	POWER TURBINE INLET (TGT)
Military Power (30 min.)	1,561	20,900	44,700	850° C
Normal Cont. Cruise	1,318	20,900	44,700	775° C
ENGINE LIMITS: (T700-GE-701C)	SHAFT HP	POWER TURBINE RPM / %	GAS GEN RPM / %	POWER TURBINE INLET (TGT)
Contingency Rated Power (CRP) (2 1/2 min. OEI)	1,940	20,900 / 100	44,700 / 102	903° C
Maximum Rating (10 Min. dual)	1,890	20,900 / 100	44,700 / 102	878° C
Intermediate Rated Power (IRP) (30 min dual)	1,800	20,900 / 100	44,700 / 102	851° C
Maximum Continuous Power (MCP)	1,662	20,900 / 100	44,700 / 102	810° C

ENGINE LIMITS: (T700-GE-701D/CC)	SHAFT HP	POWER TURBINE RPM / %	GAS GEN RPM / %	POWER TURBINE INLET (TGT)
Contingency Rated Power (CRP) (2 1/2 min. OEI)	1,940	20,900 / 100	44,700 / 102	903° C
Maximum Rating (10 Min. dual)	1,890	20,900 / 100	44,700 / 102	878° C
Intermediate Rated Power (IRP) (30 min dual)	1,800	20,900 / 100	44,700 / 102	851° C
Maximum Continuous Power (MCP)	1,662	20,900 / 100	44,700 / 102	810° C

TRANSMISSION LIMITS:

TORQUE:

110% Single Engine (No Time Limit)

100% Dual Engine (No Time Limit)

ROTOR LIMITS:

POWER OFF:

Max. 265 RPM (110%)

Min. 217 RPM (90%)

POWER ON:

Max. 258 RPM (107%)

Min. 232 RPM (96%)

AIRSPEED LIMITS:

V_{ne} POWER ON:

193 knots IAS, (221 MPH).

Refer to PA-1-1520-237-10, Operator's Manual for the Restricted Category Aircraft Model EH-60A, UH-60A Helicopter Rev. 1, Dated May 15, 2020, or later FAA approved revisions, for variations of V_{ne} with gross weight, pressure altitude, and temperature.

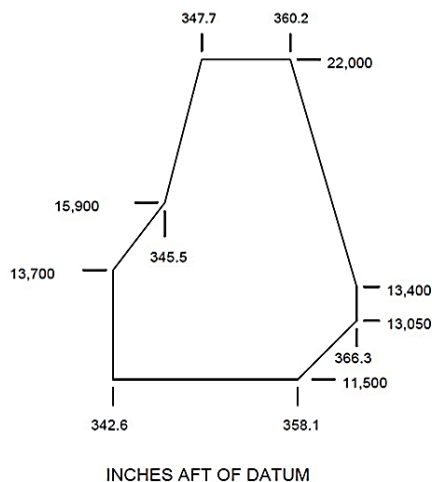
Refer to PA-1-1520-237-10, Operator's Manual for the Restricted Category Aircraft Model EH-60A, UH-60A Helicopter Rev. 1, Dated May 15, 2020, or later FAA approved revisions, for additional limitation data.

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EMPTY WEIGHT C.G. RANGE:

None.

DATUM:

341.2 inches forward of the main rotor centroid.

LEVELING MEANS:

Plumb bob in L/H cabin door frame to leveling plate on cabin floor or electronic leveling means in accordance with PA-1-1520-237-23&P Rev 0, Dated November 1, 2018 or later FAA approved revisions.

MAXIMUM WEIGHT:

22,000 lbs. *See NOTE 15

MINIMUM CREW:	2 (Pilot in Command and Second in Command) both located at aircraft station 227. *See NOTE 14		
NUMBER OF SEATS:	OEM established locations: 2 at Sta. 227.1; 1 at Sta. 262.0; 3 at Sta. 282.0; 3 at Sta. 320.7; 4 at Sta. 339.8; 4 at Sta. 387.2. No Passengers permitted. *See NOTE 11		
MAX COMPARTMENT WEIGHT:	<u>Compartment C</u> Sta. 247 to Sta. 288 6460 lbs.	<u>Compartment D</u> Sta. 288 to Sta. 343 8370 lbs.	<u>Compartment E</u> Sta. 343 to Sta. 398 8370 lbs.
FUEL CAPACITY:	361.5 gallons; 2 tanks (LH & RH interchangeable) 359.7 gallons; 2 tanks (LH & RH interchangeable) (with fuel boost pumps installed) STA. 420.75		
OIL CAPACITY:	7 quarts each engine at STA. 375.0		
OTHER LIMITS:	Refer to PA-1-1520-237-10, Operator's Manual for the Restricted Category Aircraft Model EH-60A, UH-60A Helicopter Rev. 1, Dated May 15, 2020, or later FAA approved revisions. <i>Reference the Note Section for additional limitations.</i>		

DATA PERTINENT TO ALL MODELS

SERIAL NO. APPROVED:	Refer to the latest FAA approved revision of Pickering Aviation, Inc. Document No. PA-03 Approved Serial Numbers List for the listing of all EH-60A and UH-60A serial numbers that are approved by the FAA to be conformed under this Restricted Category Type Certificate.
CERTIFICATION BASIS:	<p>Title 14 CFR part 21 §21.25(a)(2) effective February 1, 1965, including Amendments 21-1 through 21-42 for the special purposes listed in 14 CFR §21.25 (b)(1)(2)(7).</p> <p>§ 21.25(b)(1) <i>Agriculture Operations</i> § 21.25(b)(2) <i>Forest & Wildlife Conservation</i> § 21.25(b)(7) <i>External Loads</i></p> <p>In accordance with 14 CFR §36.1(a)(4), compliance with the noise requirements as not shown. Therefore, in accordance with section 36.1(a)(4), aircraft certificated under this Type Certificate are only eligible for (1) agricultural operations as defined in § 137.3; (2) aerial dispensing of liquids and firefighting materials; and (3) external loads as defined in § 133.1(b)</p> <p>Any alteration to the aircraft for Special Purpose operations not identified above require further FAA approval and in addition, may require noise and/or flight testing.</p> <p>Any subsequent modifications to the helicopters type certified under this Type Certificate are to have the certification basis for that modification established under 14 CFR §21.101. Otherwise non-significant modifications are to meet the requirements of 14 CFR part 29 airworthiness standards, transport category rotorcraft and 14 CFR §29.1529, Instructions for Continued Airworthiness.</p>
EQUIPMENT:	The basic required equipment necessary for the particular special purpose operation must be installed for certification.
NOTE 1:	A current weight and balance report including a list of equipment included in the certified empty weight, and loading instructions when necessary, just be provided for each helicopter at the time of original airworthiness certification.
NOTE 2:	The following placards must be prominently displayed in the cockpit in full view of the pilots:

PLACARD NO. 1

THIS HELICOPTER MUST BE OPERATED IN COMPLIANCE WITH THE OPERATING LIMITATIONS SPECIFIED IN THE APPROVED HELICOPTER OPERATIONS MANUAL.

PLACARD NO. 2

THIS HELICOPTER MUST BE OPERATED IN ACCORDANCE WITH THE RESTRICTED CATEGORY OPERATING LIMITATIONS OF 14 CFR PART 91.313 OR PART 133 FOR EXTERNAL LOAD OPERATIONS.

PLACARD NO. 3

EXTERNAL LOADS OPERATIONS: VNE WILL BE DETERMINED FOR EACH PROPOSED EXTERNAL LOAD APPLICATION.

- NOTE 3: The helicopter(s) must be serviced, maintained, inspected, repaired, and overhauled in accordance with the requirements specified in Pickering Aviation, Inc. Document no. PA-04 Instructions for Continued Airworthiness Rev. 2, Dated December 8, 2020, or later FAA approved revisions, or inspected in accordance with other FAA approved inspection programs. The service life limited parts overhaul and retirement intervals for these helicopters are specified in Pickering Aviation, Inc. Document no. PA-04 Instructions for Continued Airworthiness Rev. 2, Dated December 8, 2020, or later FAA approved revisions. The latest FAA approved ICA must be provided with each helicopter at delivery and all later FAA approved revisions must be provided to the helicopter owner and operator.
- NOTE 4: The TC Holder's data plate required by 14 CFR §45.13 must be installed in accordance with Pickering Aviation, Inc. Data Plate Drawing No. PA-H60-DP Rev. IR, Dated December 13, 2018, or later FAA approved revisions.
- NOTE 5: The helicopter(s) must be operated in accordance with the Operator Manual comprised of the following:

PA-1-1520-237-10, Operator's Manual for Restricted Category Aircraft Model EH-60A, UH-60A Helicopter, Rev. 1, Dated May 15, 2020, or later FAA approved. revisions.
- NOTE 6: Prior to obtaining an original Airworthiness Certificate:
- A. Each helicopter must pass a conformity inspection in accordance with Pickering Aviation, Inc. Document no. PA-09 Aircraft TC Inspection Checklist Rev. 2 Dated March 20, 2020 or later revisions.
 - B. Each helicopter must complete the Engineering Configuration Report, Document no. PA-07 Rev. 2 Dated March 20, 2020 or later revisions. The ECR provides evidence of the aircraft's critical historical records, at the time of TC conformity, to show it is safe for its attended use.
 - C. Each helicopter must pass an inspection for any possible hidden damage and the Military records reviewed for acceptability of any repairs or alterations.
 - D. The maintenance, overhaul, and modification records of each helicopter must be reviewed for military changes that may affect the airworthiness of the helicopter. Modifications and changes of equipment that affect the safety or performance of the helicopter must be approved by the FAA.
 - E. After the required inspections, the aircraft must be found to be in a good state of preservation, repair, and in a condition for safe operation.
- NOTE 7: Restricted Category helicopter may not be operated in a foreign country without the express written approval of that country's Civil Air Authority.
- NOTE 8: This helicopter has not been shown to meet the requirements of the applicable comprehensive and detailed airworthiness code as provided by Annex 8 to the Convention on International Civil Aviation.

- NOTE 9: The alternate engines T700-GE-701C and T700-GE-701D/CC were approved in accordance with Order 8110.56B, para 4-15, as modifications “previously qualified by the U.S. Armed Forces.”
- Installation of the approved alternate engines must be in accordance with MWO 1-1520-237-20-3. T700-GE-701C and T700-GE-701D/CC performance information and limitations are contained in Chapter 7A of PA-1-1520-237-10, Operator’s Manual for Restricted Category Aircraft Model EH-60A, UH-60A Helicopter, Rev. 1, Dated May 15, 2020, or later FAA approved revisions.
- NOTE 10: All applicable FAA ADs and Military Safety Messages listed in Pickering Aviation, Inc. Document no. PA-05 Airworthiness Directives & Military Safety Messages, Rev. 2 Dated: March 20, 2020, or later revisions, must be complied with prior to original airworthiness certification.
- NOTE 11: No person may be carried onboard this aircraft unless that person is a flight crewmember; is a flight crewmember trainee, performs an essential function in connection with a special purpose operation for which the aircraft is certificated, or is necessary to accomplish the work activity directly associated with that special purpose. Reference 14 CFR §91.313(d)(1)(2)(3)(4).
- NOTE 12: Any alteration to the type design of this aircraft may require an FAA approved Instructions for Continued Airworthiness. These instructions must be submitted and accepted by the Administrator, prior to approval for return to service.
- NOTE 13: The established life limits for the products and articles of the Pickering Aviation, Inc. EH-60A and UH-60A are based on the satisfactory service history as designed and operated by the US Armed Forces.
- Therefore, it is mandatory to constantly track and comply with the current life limits of certain critical components as identified in the FAA approved Airworthiness Limitation Section of Pickering Aviation, Inc. Instructions for Continued Airworthiness Document no. PA-04, Rev. 2, Dated December 8, 2020, or later FAA approved revisions.
- NOTE 14: Pilot in Command and Second in Command rating requirements:
- Pilot in Command must comply with 14 CFR § 61.31
Second in Command must comply with 14 CFR § 61.55
- NOTE 15: UH-60A and EH-60A maximum gross weight can be extended from 20,250 pounds to 22,000 pounds only when wedge mounted pitot-static probes and either/or MWO 55-1520-237-50-58 or MWO 1-1520-237-50-73 are installed.
- NOTE 16: Alternative and emergency fuels are listed in PA-1-1520-237-10, Operator’s Manual for Restricted Category Aircraft Model EH-60A, UH-60A Helicopter, Rev. 1, Dated May 15, 2020, or later FAA approved. revisions.

- END -