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Flight Standardization Board Report

Revision: Original
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Manufacturer
(Restricted Category Type Certificate Data Sheet Holder)

Hagglund Helicopters, LLC

Type Certificate Data Sheet (TCDS)	TCDS Identifier	Marketing Name	Pilot Type Rating
R00031LA	UH-60A	Blackhawk	S-70

Approved by the Aircraft Evaluation Division

Federal Aviation Administration
Rotorcraft Branch
AFS-140

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1. RECORD OF REVISIONS

Revision Number	Section(s)	Date
Original	All	XX/XX/XXXX

2. INTRODUCTION

The Aircraft Evaluation Division (AED) is responsible for working with aircraft manufacturers and modifiers during the development and Federal Aviation Administration (FAA) certification of new and modified aircraft to determine:

- 1) The pilot type rating,
- 2) Flightcrew member training, checking, and currency requirements, and
- 3) Operational suitability.

This report lists those determinations for use by:

- 1) FAA employees who approve training programs,
- 2) FAA employees and designees who certify airmen, and
- 3) Aircraft operators and training providers, to assist them in developing their flightcrew member training, checking, and currency.

3. HIGHLIGHTS OF CHANGE

This is the original Hagglund Helicopters, LLC UH-60A Flight Standardization Board Report (FSBR).

4. BACKGROUND

Former military helicopters that have been sold to civilian entities are being used for firefighting and other special purpose operations. These helicopters have received a Restricted Category (RCAT) type certificate (TC).

The AED, Rotorcraft Branch (AFS-140) is in the process of conducting RCAT Special Project (SP) Flight Standardization Boards (FSB) for all aircraft listed on the FAA Order 8900.1, Volume 5, Chapter 2, Section 19, Figure 5-88, Pilot Certificate Aircraft Type Designations – Provisional Type Rating Designation for Airplane and Helicopter table.

After each FSBR is published, the corresponding TC holder is moved from the “Provisional Type Rating Helicopter table” to the FAA Order 8900.1, Volume 5, Chapter 2, Section 19, Figure 5-88, Pilot Certificate Aircraft Type Designations – Helicopter table.

A TC holder who amends an existing RCAT TC by adding a model is required to coordinate with the AED, Rotorcraft Branch (AFS-140), to schedule an FSB. The resulting FSBR will establish a type rating for the TC holder.

New RCAT TC holders of a UH-60A, EH-60A, HH-60L, or UH-60L are required to coordinate with the AED, Rotorcraft Branch (AFS-140) to complete an FSB. The resulting updated FSBR will establish the type rating for the TC holder.

New RCAT TC holders will not be given a provisional type rating. To be added to the FAA Order 8900.1, Volume 5, Chapter 2, Section 19, Figure 5-88, Pilot Certificate Aircraft Type Designations – Helicopter table, they are required to complete the FSB process.

The AED's goal is to ensure Aircraft Certification and Flight Standards Services are mutually informed of product-specific continued operational safety issues and information. Any additional modifications to these RCAT-type-certificated aircraft may require the AED to update the FSBR.

In June 2026, the AED, Rotorcraft Branch formed an RCAT FSB that evaluated the Hagglund Helicopters, LLC UH-60A as defined in FAA Type Certificate Data Sheet (TCDS) No. R00031LA. The FSB used the methods described in FAA Advisory Circular (AC) 120-53C, Flight Standardization Board Evaluations. At the discretion of the FSB chairman, the T2 test was completed through analysis, without requiring an aircraft flight.

5. ACRONYMS

• 14 CFR	Title 14 of the Code of Federal Regulations
• AC	Advisory Circular
• ACFT	Aircraft
• ACS	Airman Certification Standards
• AED	Aircraft Evaluation Division
• AEO	All-Engines-Operating
• AFCS	Automatic Flight Control System
• ATA	Air Transport Association
• ATP	Airline Transport Pilot
• AV	Audiovisual Presentation
• CPT	Cockpit Procedures Trainer
• CRM	Crew Resource Management
• DEC	Digital Electronic Control
• ECU	Electronic Control Unit
• EDECU	Enhanced Digital Engine Control Unit
• EP	Emergency Procedure
• FAA	Federal Aviation Administration
• FFS	Full Flight Simulator
• FSB	Flight Standardization Board
• FSBR	Flight Standardization Board Report
• FSTD	Flight Simulation Training Device
• FTD	Flight Training Device
• GE	General Electric
• HO	Handout

- ICBI Interactive Computer-Based Instruction
- IFR Instrument Flight Rules
- LODA Letter of Deviation Authority
- MDR Master Differences Requirements
- NAS National Airspace System
- OEI One-Engine-Inoperative
- OSE Operational Suitability Evaluation
- POI Principal Operations Inspector
- PTS Practical Test Standards
- PTT Part Task Trainers
- RCAT Restricted Category
- RFM Rotorcraft Flight Manual
- SP Special Project
- STC Supplemental Type Certificate
- SU Stand-Up Instruction
- TC Type Certificate
- TCBI Tutorial Computer-Based Instruction
- TCDS Type Certificate Data Sheet
- U.S. United States
- VFR Visual Flight Rules
- W&B Weight and Balance

6. DEFINITIONS

These definitions are for the purposes of this report only.

- 6.1 Base Aircraft.** An aircraft identified for use as a reference to compare differences with another aircraft.
- 6.2 Current.** A crewmember meets all requirements to operate the aircraft under the applicable operating part.
- 6.3 Differences Tables.** Describe the differences between a pair of related aircraft, and the minimum levels operators must use to conduct differences training and checking of flightcrew members. Differences levels range from A to E.
- 6.4 Master Differences Requirements (MDR).** Specifies the minimum levels of training and checking required between a pair of related aircraft, derived from the highest level in the Differences Tables.
- 6.5 Mixed Fleet Flying.** The operation of a base aircraft and one or more related aircraft for which credit may be taken for training, checking, and currency events.
- 6.6 Operational Evaluation.** The AED process to determine pilot type rating, minimum flightcrew member training, checking and currency requirements, and unique or special airman certification requirements (e.g., specific flight characteristics, no-flap landing).

- 6.7 Operational Suitability.** The AED determination that an aircraft or system may be used in the National Airspace System (NAS) and meets the applicable operational regulations (e.g., Title 14 of the Code of the Federal Regulations (14 CFR) parts 91, 121, 133, and 135).
- 6.8 Qualified.** A flightcrew member holds the appropriate airman certificate and ratings as required by the applicable operating part.
- 6.9 Related Aircraft.** Any two or more aircraft of the same make with either the same or different TC that have been demonstrated and determined by the Administrator to have commonality.
- 6.10 Seat-Dependent Tasks.** Maneuvers or procedures using controls that are accessible or operable from only one flightcrew member seat.
- 6.11 Special Emphasis Area.** A training requirement unique to the aircraft, based on a system, procedure, or maneuver, which requires additional highlighting during training. It may also require additional training time, specialized flight simulation training devices (FSTD) or training equipment.
- 6.12 Specific Flight Characteristics.** A maneuver or procedure with unique handling or performance characteristics that the FSB has determined must be checked.

7. PILOT TYPE RATING

- 7.1 Type Rating.** The Hagglund Helicopters, LLC UH-60A type rating designation is S-70.
- 7.1.1 Limitation “VFR ONLY” may be added to an existing pilot certificate under the provisions of 14 CFR §§ 61.63(e) and 61.157(g). However, this option is only available for those aircraft which require a pilot type rating and are not capable of demonstrating the instrument maneuvers and procedures required on the practical test.
- 7.1.2 The determination as to whether the practical test is to be visual flight rules (VFR) only is made by the evaluator based on the equipment installed in the aircraft and the maneuvers and procedures required by the applicable Practical Test Standards (PTS) or Airman Certification Standards (ACS). The actual qualification of the aircraft as to instrument flight rules (IFR)/VFR is irrelevant. If the equipment is present to conduct the required maneuvers in the PTS/ACS, then the full instrument practical test is conducted. As stated in 14 CFR § 61.45(b)(2), if an item that is required for the test is not available (inoperative), then an appropriate limitation may be issued (e.g., if the attitude indicator is inoperative and appropriately placarded and logged, the practical test could take place, and the VFR-only limitation could be added to the certificate).
- 7.2 Common Type Ratings.** In accordance with the provisions of FAA Order 8900.1 and AC 120-53 (current edition), the S-70 and the S-70M are separate type ratings that have been determined to have commonality.

7.3 Military Equivalent Designations. Military aircraft that qualify for the S-70 type rating can be found on the FAA Airmen Certification web page at https://www.faa.gov/licenses_certificates/airmen_certification under “Quick Links,” “Pilot Certificate Aircraft Type Designations.” This document is kept up-to-date and can be accessed directly at <https://registry.faa.gov/typeratings/>.

8. RELATED AIRCRAFT

8.1 Related Aircraft on Same TCDS. Hagglund Helicopters, LLC UH-60A.

8.2 Related Aircraft on Different TCDS. The Hagglund Helicopters, LLC UH-60A is related to all RCAT TC holders that have UH-60A, EH-60A, HH-60L, or UH-60L listed on their TCDS and have the designated type rating of S-70 in paragraph 7.1 of their FSB.

NOTE: The S-70M aircraft, derived from the United States (U.S.) Army Model UH-60M, requires a separate type rating.

9. PILOT TRAINING

9.1 Airman Experience. There are no additional airman experience requirements for the Hagglund Helicopters, LLC UH-60A other than those already specified in 14 CFR part 61.

9.2 Special Emphasis Areas. Special emphasis areas are to be accomplished during initial training, differences training, and recurrent training.

9.2.1 Pilots must receive special emphasis on the following areas during initial and recurrent ground training:

- a) RCAT Airworthiness Limitations. Pilots must have a working knowledge of the Special Airworthiness Certificate and an understanding of the Restricted Category/Designation the aircraft has been certificated in. This includes:
 - The approved Special Purpose Operations listed on the Special Airworthiness Certificate, in the Certification Basis section of the Restricted Category TCDS, and in the notes listed in the Restricted Category TCDS.
 - The RCAT Aircraft requirement for a Letter of Deviation Authority (LODA) before the aircraft can be used to conduct flight training and/or testing listed in 14 CFR part 91, § 91.313(h) and the additional requirements listed in 14 CFR part 91, § 91.313(h)(1)(i).
- b) Performance Charts. Preflight performance planning relating to takeoff performance with all-engines-operating (AEO), one-engine-inoperative (OEI), and go-arounds from rejected landings. The Hagglund Helicopter, LLC H-60 Flight Training Program Syllabus (VFR Only) and H-60 Training Program

(VFR Only) manual includes computing aircraft performance data using the Rotorcraft Flight Manual (RFM), tab data, or electronically.

NOTE: No Operational Suitability Evaluation (OSE) was conducted of an electronic program. Operators wishing to use the application will need to perform a validation and request approval from their Principal Operations Inspector (POI). In such cases, pilots must still be trained to proficiency in using the RFM performance and Weight and Balance (W&B) charts.

- c) Knowledge of the various engines that can be found on the UH-60A, EH-60A, HH-60L, and UH-60L along with the differences of each one and the ability to intermix them on the same aircraft.
- d) Emergency Procedure (EP) Knowledge. See paragraph 9.2.2 for additional details.
- e) Crew Resource Management (CRM). Many pilots conducting RCAT operations have been operating as single pilots and will require two-pilot CRM training to address the two-pilot requirement of the Hagglund Helicopters, LLC UH-60A operations.

9.2.2 Pilots must receive special emphasis on, and perform the following areas during initial and recurrent flight training:

- a) Emergency Procedure Training. The Hagglund Helicopter, LLC H-60 Flight Training Program Syllabus VFR ONLY (reviewed as Revision 4 dated 5/29/2024) – “Respond to Emergencies” section establishes standardized procedures for conducting simulated emergency procedure training in the aircraft. These procedures must be trained and followed as they facilitate safe and effective emergency procedure training in the aircraft. Special emphasis should be placed on the training procedures for the following emergencies:
 - Single-engine failures (OEI) at altitude and hover.
 - Stabilator malfunctions.
 - Electronic Control Unit (ECU)/Digital Electronic Control (DEC)/Enhanced Digital Engine Control Unit (EDECU) Lockout.
 - Degraded automatic flight control system (AFCS).

9.3 Specific Flight Characteristics. Maneuvers or procedures required to be checked as referenced in the Airline Transport Pilot (ATP) and Aircraft Type Rating PTS for Rotorcraft Category Helicopter Rating.

9.4 Seat-Dependent Tasks. There are no seat-dependent tasks.

9.5 Regulatory Training Requirements Which Are Not Applicable to the Hagglund Helicopter, LLC UH-60A. None.

9.6 Flight Simulation Training Devices (FSTD). There are no specific systems, procedures, or maneuvers that are unique to the Hagglund Helicopters, LLC UH-60A that require a specific FSTD for training.

9.7 Training Equipment. There are no specific systems or procedures that are unique to the Hagglund Helicopters, LLC UH-60A that require specific training equipment.

9.8 Differences Training Between Related Aircraft. Pilots must receive differences training between Hagglund Helicopters, LLC UH-60A and any other UH-60A, EH-60A, HH-60L, and UH-60L that appear on any other TCDS. This includes differences training on the:

- Engines.
- Main Rotor Transmission.
- Performance.
- Normal Operating Limitations.
- Emergency Procedures.

The level of training is specified in Appendix 3, Differences Tables.

NOTE: After Hagglund Helicopters, LLC purchased the aircraft, they incorporated numerous Supplemental Type Certificates (STC). Those STC installations have not been evaluated in this FSBR. Some of the STCs may require differences training for a pilot to successfully complete a type rating practical test.

10. PILOT CHECKING

10.1 Landing from a No-Flap or Nonstandard Flap Approach. Not applicable.

10.2 Specific Flight Characteristics. Maneuvers or procedures required to be checked, initial and recurrent, as referenced in the ATP and Aircraft Type Rating PTS for Rotorcraft Category Helicopter Rating.

The aircraft standardized procedures for conducting simulated emergency procedure training referred to in paragraph 9.2.2 also apply to pilot checking and must be followed.

10.3 Seat-Dependent Tasks. There are no seat-dependent tasks.

10.4 Other Checking Items. Not applicable.

10.5 Flight Simulation Training Devices (FSTD). There are no specific systems, procedures, or maneuvers that are unique to the Hagglund Helicopters, LLC UH-60A that require a specific FSTD for checking.

10.6 Equipment. There are no specific systems or procedures that are unique to the Hagglund Helicopters, LLC UH-60A that require specific equipment.

10.7 Differences Checking Between Related Aircraft. Pilots must receive differences checking between Hagglund Helicopters, LLC UH-60A and any other UH-60A, EH-60A, HH-60L, and UH-60L that appear on any other TCDS. This includes differences training on the:

- Engines.
- Main Rotor Transmissions.
- Performance.
- Normal Operating Limitations.
- Emergency Procedures.

The level of checking is specified in Appendix 3.

NOTE: After Hagglund Helicopters, LLC purchased the aircraft, they incorporated numerous STCs. Those STC installations have not been evaluated in this FSBR. Some of the STCs may require differences training for a pilot to successfully complete a type rating practical test.

11. PILOT CURRENCY

There are no additional currency requirements for the Hagglund Helicopters, LLC UH-60A other than those already specified in 14 CFR part 61.

11.1 Differences Currency Between Related Aircraft. Not applicable.

12. OPERATIONAL SUITABILITY

The Hagglund Helicopters, LLC UH-60A is operationally suitable for operations under 14 CFR parts 91, 133, and 137. The FSB determined UH-60A operational compliance by conducting an evaluation of aircraft serial number 85-24397 registered as N41FH, on 06/16/2026. The list of operating rules evaluated is on file at the AED, Rotorcraft Branch.

13. MISCELLANEOUS

13.1 Forward Observer Seat. The Hagglund Helicopters, LLC UH-60A does not have a dedicated forward observer seat. However, the cabin can be configured with a forward-facing seat that gives an unobstructed view of the flight deck.

APPENDIX 1. DIFFERENCES LEGEND

Training Differences Legend

Differences Level	Type	Training Method Examples	Conditions
A	Self-Instruction	• Operating manual revision (handout (HO)) • Flightcrew operating bulletin (HO)	• Crew has already demonstrated understanding on base aircraft (e.g., updated version of engine). • Minor or no procedural changes required. • No safety impact if information is not reviewed or is forgotten (e.g., different engine vibration damping mount). • Once called to attention of crew, the difference is self-evident.
B	Aided Instruction	• Audiovisual presentation (AV) • Tutorial computer-based instruction (TCBI) • Stand-up instruction (SU)	• Systems are functionally similar. • Crew understanding required. • Issues need emphasis. • Standard methods of presentation required.
C	Systems Devices	• Interactive (full-task) computer-based instruction (ICBI) • Cockpit Procedures Trainers (CPT) • Part task trainers (PTT) • Level 4 or 5 flight training device (FTD 4-5)	• Training can only be accomplished through systems training devices. • Training objectives focus on mastering individual systems, procedures, or tasks versus highly integrated flight operations or “real-time” operations. • Training devices are required to assure attainment or retention of crew skills to accomplish more complex tasks usually related to aircraft systems.
D	Maneuvers Devices	• Level 6 or 7 flight training device (FTD 6-7) • Level A or B full flight simulator (FFS A-B)	• Training can only be accomplished in flight maneuver devices in a real-time environment. • Training requires mastery of interrelated skills versus individual skills. • Motion, visual, control-loading, and specific environmental conditions may be required.
E	Level C/D FFS or Aircraft	• Level C or D full flight simulator (FFS C-D) • Aircraft (ACFT)	• Motion, visual, control-loading, audio, and specific environmental conditions are required. • Significant full-task differences that require a high-fidelity environment. • Usually correlates with significant differences in handling qualities.

Checking Differences Legend

Differences Level	Checking Method Examples	Conditions
A	None	None
B	• Oral or written exam • Tutorial computer-based instruction (TCBI) self-test	Individual systems or related groups of systems.
C	• Interactive (full-task) computer-based instruction (ICBI) • Cockpit Procedures Trainers (CPT) • Part task trainers (PTT) • Level 4 or 5 flight training device (FTD 4-5)	• Checking can only be accomplished using systems devices. • Checking objectives focus on mastering individual systems, procedures, or tasks.
D	• Level 6 or 7 flight training device (FTD 6-7) • Level A or B full flight simulator (FFS A-B)	• Checking can only be accomplished in flight maneuver devices in a real-time environment. • Checking requires mastery of interrelated skills versus individual skills. • Motion, visual, control-loading, and specific environmental conditions may be required.
E	• Level C or D full flight simulator (FFS C-D) • Aircraft (ACFT)	Significant full-task differences that require a high-fidelity environment.

APPENDIX 2. MASTER DIFFERENCES REQUIREMENTS (MDR) TABLE

These are the minimum levels of training and checking required, derived from the highest level in the Differences Tables in Appendix 3. Differences levels are arranged as training/checking.

From Base Aircraft ↓	To Related Aircraft →	<u>UH-60A</u> (with T700-GE-700 engines)	<u>EH-60A</u> (with T700-GE-700 engines)	<u>UH-60A</u> (with T700-GE-701C or 701D/CC engines)	<u>EH-60A</u> (with T700-GE-701C or 701D/CC engines)	<u>HH-60L</u> (with T700-GE-701C or 701D/CC engines)	<u>UH-60L</u> (with T700-GE-701C or 701D/CC engines)
<u>Hagglund Helicopter, LLC UH-60A</u> (with T700-GE-701C or 701D/CC engines)		B/B	B/B	Not applicable	A/A	B/B	B/B

APPENDIX 3. DIFFERENCES TABLES

This Design Differences Table lists the minimum differences levels operators must use to conduct differences training and checking of flightcrew members.

FROM BASE AIRCRAFT: Hagglund Helicopter, LLC UH-60A (with T700-GE-701C or 701D/CC engines) TO RELATED AIRCRAFT: UH-60A (with T700-GE-700 engines)	DESIGN	REMARKS	FLT CHAR	PROC CHNG	TRAINING	CHECKING
	Air Transport Association (ATA) 71 Powerplant	General Electric T700-GE-700.	No	Yes	B	B

FROM BASE AIRCRAFT: Hagglund Helicopter, LLC UH-60A (with T700-GE- 701C or 701D/CC engines) TO RELATED AIRCRAFT: EH-60A (with T700-GE- 700 engines)	DESIGN	REMARKS	FLT CHAR	PROC CHNG	TRAINING	CHECKING
	ATA 20 Airframe	EH-60A minor system differences.	No	No	A	A
	ATA 71 Powerplant	General Electric T700-GE-700.	No	Yes	B	B

FROM BASE AIRCRAFT: Hagglund Helicopter, LLC UH-60A (with T700-GE- 701C or 701D/CC engines) TO RELATED AIRCRAFT: EH-60A (with T700-GE- 701C or 701D/CC engines)	DESIGN	REMARKS	FLT CHAR	PROC CHNG	TRAINING	CHECKING
	ATA 20 Airframe	EH-60A minor system differences.	No	No	A	A

FROM BASE AIRCRAFT: Hagglund Helicopter, LLC UH-60A (with T700-GE- 701C or 701D/CC engines) TO RELATED AIRCRAFT: HH-60L (with T700-GE- 701C or 701D/CC engines)	DESIGN	REMARKS	FLT CHAR	PROC CHNG	TRAINING	CHECKING
	ATA 63 Rotor Drive	Improved Durability Gearbox (Transmission).	No	Yes	B	B

FROM BASE AIRCRAFT: Hagglund Helicopter, LLC UH-60A (with T700-GE- 701C or 701D/CC engines) TO RELATED AIRCRAFT: UH-60L (with T700-GE- 701C or 701D/CC engines)	DESIGN	REMARKS	FLT CHAR	PROC CHNG	TRAINING	CHECKING
	ATA 63 Rotor Drive	Improved Durability Gearbox (Transmission).	No	Yes	B	B
	ATA 71 Powerplant	General Electric T700-GE-701C.	No	Yes	B	B