

Federal Aviation Administration National Simulator Program



Statement of Qualification

The Federal Aviation Administration (FAA) National Simulator Program (NSP) has evaluated this Flight Simulation Training Device (FSTD) and found it to meet the standards set forth in the qualification document.

Sponsor	Leonardo S.p.a Helicopters
FAA ID	1772
Aircraft Designation	AGUSTA AW169-AW169
Qualification Document	14 CFR Part 60 (2008), Appendix C
Qualification Level	D
Expiration Date	4/30/2025

With the exception of noted exclusions for which this FSTD has not been subjectively tested, the qualification of this FSTD includes the tasks set out in the applicable qualification document. To maintain qualification, this FSTD must continue to meet all the standards and specifications of the qualification document and is subject to the conditions and limitations in the FSTD Information and Configuration List as well as the last FAA FSTD Evaluation Report. This certificate is not transferable, and unless revoked, suspended, or amended is valid until the expiration date.

Federal Aviation Administration
National Simulator Program

FSTD INFORMATION & CONFIGURATION

Sponsor Name:	Leonardo S.p.a Helicopters
Designator:	UGAW
FAA ID:	1772
Make/Model/Series:	LENRDO-AW169-169
Evaluation Interval:	12

Section 1. Sponsor FSTD Location Contact Information			
FSTD Location			
Training Facility Name:	Leonardo-Philadelphia Training Acad		
Address:	3050 Red Lion Road		
City:	Philadelphia		
State/Prov/Terr:	PA		
Country:	USA		
ZIP:	19114		
Local FAA Authority / FAA Training Program Approval Authority (TPAA)			
Name:	Caballero-Sanabria, Ahmed		
Address:	8427 Southpark Circle		
City:	Orlando		
State/Prov/Terr:	FL	Office:	(786) 393-8439
Country:	USA	Cell:	(689) 244-9583
ZIP:	32819	Email:	ahmed.caballero-sanabria@faa.gov
FAA Alternate POC (APM, FTPM, if applicable)			
Name:			
Address:			
City:			
State/Prov/Terr:		Office:	
Country:		Cell:	
ZIP:		Email:	
Sponsor FSTD Management Representative			
Name:	Cella, Alessandro		
Address:	Via Indipendenza, 2		
City:	Sesto Calende		
State/Prov/Terr:	IT	Office:	+39 0331 915082
Country:	ITA	Cell:	+39 3455 775607
ZIP:	21018	Email:	alessandro.cella@leonardo.com
Sponsor FSTD Local Contact			
Name:	Orsini, Daniele		
Address:	Via Indipendenza, 2		
City:	Sesto Calende		
State/Prov/Terr:	IT	Office:	+39 0331 915097
Country:	ITA	Cell:	+39 340 601 7320
ZIP:	21018	Email:	daniele.orsini@cae.com

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Section 2. FSTD Information			
A/C Common Name:	LENRDO LENRDO-AW169	Manufacturer Name:	Leonardo Helicopters S.p.A.
A/C Alternative Name:	AGUSTA AW169-AW169	Manufactured Year:	2020
Qualification Basis:	14 CFR Part 60 (2008), Appendix C	Manufacture Serial No:	119065-1855
Qualification Level:	D	Sponsor's FSTD ID:	AW169 FS#2
FSTD Class:	Helo FFS	Evaluation Base Month:	Jan
FSTD Seats Available:	5	FSTD Convertible to:	1797
FSTD Configuration Information			
FSTD Configuration (1):	LENRDO-AW169-169		
FSTD Configuration (2):	LENDRO-AW609-609		
FSTD Configuration (3):			
FSTD Configuration (4):			
FSTD Configuration (5):			
FSTD Engine Information			
Pri. Engine Type / Thrust:	2x P&WC PW210A / 1100 hp	FADEC Version:	FADEC SW Ver. 3.1
Alt. Engine Type / Thrust:		FADEC Version:	
Alt. Engine Type / Thrust:		FADEC Version:	
Alt. Engine Type / Thrust:		FADEC Version:	
Flight Instrumentation & Systems			
<input checked="" type="checkbox"/> NVG			<input type="checkbox"/> Other:
<input type="checkbox"/> CPDLC			<input checked="" type="checkbox"/> Other: EFIS
<input type="checkbox"/> EFB Class:			<input type="checkbox"/> Other:
Data Sources & Models			
Flight Control Data: Model/Revision:	AW169 FSTD Flight Controls Data Gathering Report 169F0062T002/2 Rev. A		
Aero Model: Source/Model/Revision:	AW169 FFS Validation Data Roadmap - 169F1920U001 Rev. C		
Visual System			
Image Generator Make/Model:	CAE Medallion 6223		
Display Type:	Direct, Non-Collimated	Visual Projector Type:	LCoS/LED/DLP
Horizontal Field of View (degs):	220	Vertical Field of View (degs):	75
Avionics			
Manufacturer	Leonardo Helicopters		
Model	Avionic system		
Standard/Revision	SW Phase 6.0		

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Flight Management System			
Manufacturer:	Leonardo Helicopters		
Model:	Avionic system		
Type/Revision:	SW Phase 6.0		

Motion System	
Manufacturer:	Moog - CAE Inc.
Type:	Electric
Axis:	6

Airport Qualification Models	
1: Airport / Runways / Taxiway:	KTEB / All / All
2: Airport / Runways / Taxiway	LIRF/ All / All
3: Airport / Runways / Taxiway	

Visual Ground Segment	
Airport / Landing RW	KJFK / 4R

Helicopter Non-Airport Landing Areas	
Elevated Surface:	"Pietralata" and "Ministero della Difesa" – elevated heliports - Italy
Confined Landing Area:	"P. Repubblica" and "S. Pertini" Hospital – confined areas - Italy
Sloped Surface	KTEB - slope area - N 40:45:35.70 / W74:05:19.70

Other National Aviation Authority Qualifications (US-NAA BASA-SIPs Agreements Only)			
NAA Name:	TC		
NAA FSTD ID No:	1121		
NAA Qualification Level:	D		
NAA Qualification Basis:	14CFRPart60(2016)		

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Except for Non-Qualified items, this FSTD is qualified to perform all maneuvers, procedures, tasks, and functions listed in the applicable QPS Appendix, Tables 1B and 1C of 14 CFR Part 60 as amended. Additionally, this FSTD is qualified to perform maneuvers, procedures, tasks, and functions annotated in sections 3a, 3b, or 3c. Specific use in conjunction with any training program must be approved by the FAA Training Program Approval Authority (TPAA).

Section 3a. Level 6 and Above FSTD Additional FSTD Qualified Maneuvers, Procedures, Tasks, and Functions (not stated in 14CFR Part 60 Appendix (A,B,C, or D) Attachment 1, Table 1B)			
Area/Function/Maneuver	Requested (Sponsor Use)	Qualified (FAA Use Only)	Remarks (Include Partial Task Limitations if Applicable)
CAT I (Minimums IAW sponsor/operator authorization)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
CAT II (Minimums IAW sponsor/operator authorization)	<input type="checkbox"/>	<input type="checkbox"/>	
CAT III (Minimums IAW sponsor/operator authorization)	<input type="checkbox"/>	<input type="checkbox"/>	
Circling Approach	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Windshear Training	<input type="checkbox"/>	<input type="checkbox"/>	
Auto-Coupled Approach	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Auto Go Around	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Auto-Land / Roll-Out Guidance	<input type="checkbox"/>	<input type="checkbox"/>	
TCAS/ACAS I / II Ver 7.1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	TCAS II
WX-Radar	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
HUD / HGS	<input type="checkbox"/>	<input type="checkbox"/>	
EFVS / SVS	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Synthetic Vision System (SVS)
TAWS (GPWS / EGPWS)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	HTAWS (EGPWS)
SMGCS	<input type="checkbox"/>	<input type="checkbox"/>	
Enhanced Taxi Markings	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
RWSL / LAHSO	<input type="checkbox"/>	<input type="checkbox"/>	
LPV GPS WAAS <input checked="" type="checkbox"/>			
LPV <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
GPS <input checked="" type="checkbox"/>			
WAAS			
RNP/AR	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	KTEB RNAV (RNP) Z RWY 6
ADS-B <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
In			
Full Stall (14CFR Part 60 (2016)/FSTD Directive 2)	<input type="checkbox"/>	<input type="checkbox"/>	
UPRT (14CFR Part 60 (2016)/FSTD Directive 2)	<input type="checkbox"/>	<input type="checkbox"/>	
Icing (14CFR Part 60 (2016)/FSTD Directive 2)	<input type="checkbox"/>	<input type="checkbox"/>	
Realistic Gusting Crosswind (14CFR Part 60 (2016)/FSTD Directive 2)	<input type="checkbox"/>	<input type="checkbox"/>	
Bounced Landing (14CFR Part 60 (2016)/FSTD Directive 2)	<input type="checkbox"/>	<input type="checkbox"/>	
Other	<input type="checkbox"/>	<input type="checkbox"/>	
Other	<input type="checkbox"/>	<input type="checkbox"/>	
Other	<input type="checkbox"/>	<input type="checkbox"/>	
Other	<input type="checkbox"/>	<input type="checkbox"/>	

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Section 3b. Level 6 and Above FSTD Additional Helicopter FSTD Qualified Maneuvers, Procedures, Tasks, and Functions (not stated in 14CFR Part 60 Appendix (C or D) Attachment 1, Table 1B)			
Area/Function/Maneuver	Requested (Sponsor Use)	Qualified (FAA Use Only)	Remarks (Include Partial Task Limitations if Applicable)
Helicopter Slope Landings	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	KTEB - slope area - N 40:45:35.70 / W074:05:19.70; N 40.45.59 / W 074.05.23
Helicopter External Load Operations	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Helicopter Pinnacle Approach to Landings	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	"Pietralata" and "Ministero della Difesa" – elevated heliports N 40:45:28.85 / W 074:05:21.73; N 40.45.59 / W 074.05.23
Helicopter Night Vision Maneuvers Class A <input type="checkbox"/> , Class B Lens <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Helicopter Category A Takeoffs	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Other Oil Rig	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Other	<input type="checkbox"/>	<input type="checkbox"/>	
Other	<input type="checkbox"/>	<input type="checkbox"/>	
Other	<input type="checkbox"/>	<input type="checkbox"/>	

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Section 3c. Level 4 & 5 FSTD Optionally Qualified Maneuvers, Procedures, Tasks, and Functions (as defined in Table B1B and D1B)			
Area/Function/Maneuver	Requested (Sponsor Use)	Qualified (FAA Use Only)	Remarks (Include Partial Task Limitations if Applicable)
Preflight Procedures			
Preflight Inspection (flight deck only).	<input type="checkbox"/>	<input type="checkbox"/>	
Engine Start	<input type="checkbox"/>	<input type="checkbox"/>	
Pre-takeoff Checks.	<input type="checkbox"/>	<input type="checkbox"/>	
In-Flight Maneuvers			
Approach to Stalls	<input type="checkbox"/>	<input type="checkbox"/>	(Level 5 Only)
Engine Failure (procedures only)	<input type="checkbox"/>	<input type="checkbox"/>	(Level 5 Only)
Specific Flight Characteristics incorporated into user's approved flight training program	<input type="checkbox"/>	<input type="checkbox"/>	
Instrument Procedures			
Standard Terminal Arrival / Flight Management System Arrival	<input type="checkbox"/>	<input type="checkbox"/>	(Level 5 Only)
Holding	<input type="checkbox"/>	<input type="checkbox"/>	(Level 5 Only)
Precision Instrument, all engines operating	<input type="checkbox"/>	<input type="checkbox"/>	(Level 5 Only)
Non-Precision Instrument, all engines operating	<input type="checkbox"/>	<input type="checkbox"/>	(Level 5 Only)
Missed Approach	<input type="checkbox"/>	<input type="checkbox"/>	(Level 5 Only)
Landings and Approaches to Landings			
Visual Approaches (normal, steep, shallow) with visual system	<input type="checkbox"/>	<input type="checkbox"/>	(Helicopter Only)
Normal and Abnormal Procedures			
Powerplant	<input type="checkbox"/>	<input type="checkbox"/>	
Fuel System.	<input type="checkbox"/>	<input type="checkbox"/>	
Electrical System	<input type="checkbox"/>	<input type="checkbox"/>	
Environmental and Pressurization Systems	<input type="checkbox"/>	<input type="checkbox"/>	
Fire Detection and Extinguisher Systems	<input type="checkbox"/>	<input type="checkbox"/>	
Navigation and Avionics Systems	<input type="checkbox"/>	<input type="checkbox"/>	
Automatic Flight Control System, Electronic Flight Instrument System, and Related Subsystems.	<input type="checkbox"/>	<input type="checkbox"/>	
Flight Control Systems	<input type="checkbox"/>	<input type="checkbox"/>	
Anti-ice and Deice Systems	<input type="checkbox"/>	<input type="checkbox"/>	
Aircraft and Personal Emergency Equipment	<input type="checkbox"/>	<input type="checkbox"/>	
Emergency Procedures			
Emergency Descent (Max Rate)	<input type="checkbox"/>	<input type="checkbox"/>	(Level 5 Only)
Inflight fire and smoke removal	<input type="checkbox"/>	<input type="checkbox"/>	(Level 5 Only)
Rapid Decompression	<input type="checkbox"/>	<input type="checkbox"/>	(Level 5 Only)
Emergency Evacuation	<input type="checkbox"/>	<input type="checkbox"/>	
Post flight Procedures			
After-Landing Procedures	<input type="checkbox"/>	<input type="checkbox"/>	
Rotor brake operation.	<input type="checkbox"/>	<input type="checkbox"/>	(Helicopter Only)
Abnormal/emergency procedures	<input type="checkbox"/>	<input type="checkbox"/>	
Other			
Other	<input type="checkbox"/>	<input type="checkbox"/>	
Other	<input type="checkbox"/>	<input type="checkbox"/>	
Other	<input type="checkbox"/>	<input type="checkbox"/>	

Other	<input type="checkbox"/>	<input type="checkbox"/>	
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Narrative

FSTD is a Roll On/Roll Off device sharing a motion and visual platform with FAA ID # 1797