

# 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.

<b>Sponsor</b>	Leonardo S.p.a Helicopters
<b>FAA ID</b>	1772
<b>Aircraft Designation</b>	AGUSTA AW169-AW169
<b>Qualification Document</b>	14 CFR Part 60 (2008), Appendix C
<b>Qualification Level</b>	D
<b>Expiration Date</b>	4/30/2027

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

<b>Sponsor Name:</b>	Leonardo S.p.a Helicopters
<b>Designator:</b>	UGAW
<b>FAA ID:</b>	1772
<b>Make/Model/Series:</b>	LENRDO-AW169-169
<b>Evaluation Interval:</b>	24

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:	Keane, Michael		
Address:	8700 Freeport Parkway		
City:	Irving		
State/Prov/Terr:	TX	Office:	(954) 641-6629
Country:	USA	Cell:	
ZIP:	75063	Email:	michael.keane@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:	
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:	

<b>Country:</b>	ITA	<b>Cell:</b>	+39 348 691 6248
<b>ZIP:</b>	21018	<b>Email:</b>	daniele.orsini@cae.com

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

Avionics			
<b>Manufacturer</b>	Leonardo Helicopters		
<b>Model</b>	Avionic system		
<b>Standard/Revision</b>	SW Phase 6.0		

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

Motion System	
<b>Manufacturer:</b>	Moog - CAE Inc.
<b>Type:</b>	Electric
<b>Axis:</b>	6

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

Visual Ground Segment	
<b>Airport / Landing RW</b>	KJFK / 4R

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

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

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National Simulator Program**

**FSTD INFORMATION & CONFIGURATION**

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<b>Evaluation Interval:</b>	24

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"/> GPS <input checked="" type="checkbox"/> WAAS	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
RNP/AR	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	KTEB RNAV (RNP) Z RWY 6
ADS-B <input type="checkbox"/> In	<input type="checkbox"/>	<input type="checkbox"/>	
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"/>	

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 OSAP & HEDA	<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"/>	

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"/>	

Narrative

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