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 (2016), Appendix B
Qualification Level	D
Expiration Date	4/30/2022

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.

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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 FacilityName:	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:	Wynne, Hollis		
Address:	8700 Freeport Parkway, Suite 200B,		
City:	IRVING		
State/Prov/Terr:	TX	**Office:**	225-932-5903
Country:	USA	**Cell:**	337-424-3467
ZIP:	75039	**Email:**	hollis.kwynne@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@leonardocompany.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 (2016), Appendix B	**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:**	| | |

FSTD Configuration Information

FSTD Configuration (1):	LENRDO-AW169-169
FSTD Configuration (2):	
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

☑ **NVG**	☐ **Other:**
☐ **CPDLC**	☑ **Other: EFIS**
☐ **EFB Class:**	☐ **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. B

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 4.0		

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Flight Management System

Manufacturer:	Leonardo Helicopters		
Model:	Avionic system		
Type/Revision:	SW Phase 4.0		

Motion System

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

Airport Qualification Models

1: Airport / Runways / Taxiway:	KTEB / All / All
2: Airport / Runways / Taxiway	LIRU / 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:	EASA		
NAA FSTD ID No:	EU-A0271		
NAA Qualification Level:	D		
NAA Qualification Basis:	CS-FSTD(H)		

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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)	☑	☑	
CAT II (Minimums IAW sponsor/operator authorization)	☐	☐	
CAT III (Minimums IAW sponsor/operator authorization)	☐	☐	
Circling Approach	☑	☑	
Windshear Training	☐	☐	
Auto-Coupled Approach	☑	☑	
Auto Go Around	☑	☑	
Auto-Land / Roll-Out Guidance	☐	☐	
TCAS/ACAS I / II II	☑	☑	TCAS II
WX-Radar	☑	☑	
HUD / HGS	☐	☐	
EFVS / SVS	☑	☑	Synthetic Vision System (SVS)
TAWS (GPWS / EGPWS)	☑	☑	HTAWS (EGPWS)
SMGCS	☐	☐	
Enhanced Taxi Markings	☑	☑	
RWSL / LAHSO	☐	☐	
LPV GPS WAAS ☑ LPV ☑ GPS ☑ WAAS	☑	☑	
RNP/AR	☑	☑	KTEB RNAV (RNP) Z RWY 6
ADS-B ☐ In	☐	☐	
Full Stall (14CFR Part 60 (2016)/FSTD Directive 2)	☐	☐	
UPRT (14CFR Part 60 (2016)/FSTD Directive 2)	☐	☐	
Icing (14CFR Part 60 (2016)/FSTD Directive 2)	☐	☐	
Realistic Gusting Crosswind (14CFR Part 60 (2016)/FSTD Directive 2)	☐	☐	
Bounced Landing (14CFR Part 60 (2016)/FSTD Directive 2)	☐	☐	
Other	☐	☐	
Other	☐	☐	
Other	☐	☐	
Other	☐	☐	

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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	☑	☑	KTEB - slope area - N 40:45:35.70 / W74:05:19.70
Helicopter External Load Operations	☑	☑	
Helicopter Pinnacle Approach to Landings	☑	☑	"Pietralata" and "Ministero della Difesa" – elevated heliports N 40:45:28.85 / W 74:05:21.73
Helicopter Night Vision Maneuvers Class A ☐, Class B Lens ☑	☑	☑	
Helicopter Category A Takeoffs	☑	☑	
Other Oil Rig	☑	☑	
Other	☐	☐	
Other	☐	☐	
Other	☐	☐	

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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).	☐	☐	
Engine Start	☐	☐	
Pre-takeoff Checks.	☐	☐	
In-Flight Maneuvers			
Approach to Stalls	☐	☐	(Level 5 Only)
Engine Failure (procedures only)	☐	☐	(Level 5 Only)
Specific Flight Characteristics incorporated into user's approved flight training program	☐	☐	
Instrument Procedures			
Standard Terminal Arrival / Flight Management System Arrival	☐	☐	(Level 5 Only)
Holding	☐	☐	(Level 5 Only)
Precision Instrument, all engines operating	☐	☐	(Level 5 Only)
Non-Precision Instrument, all engines operating	☐	☐	(Level 5 Only)
Missed Approach	☐	☐	(Level 5 Only)
Landings and Approaches to Landings			
Visual Approaches (normal, steep, shallow) with visual system	☐	☐	(Helicopter Only)
Normal and Abnormal Procedures			
Powerplant	☐	☐	
Fuel System.	☐	☐	
Electrical System	☐	☐	
Environmental and Pressurization Systems	☐	☐	
Fire Detection and Extinguisher Systems	☐	☐	
Navigation and Avionics Systems	☐	☐	
Automatic Flight Control System, Electronic Flight Instrument System, and Related Subsystems.	☐	☐	
Flight Control Systems	☐	☐	
Anti-ice and Deice Systems	☐	☐	
Aircraft and Personal Emergency Equipment	☐	☐	
Emergency Procedures			
Emergency Descent (Max Rate)	☐	☐	
Inflight fire and smoke removal	☐	☐	
Rapid Decompression	☐	☐	
Emergency Evacuation	☐	☐	
Post flight Procedures			
After-Landing Procedures	☐	☐	
Rotor brake operation.	☐	☐	
Abnormal/emergency procedures	☐	☐	
Other			
Other	☐	☐	
Other	☐	☐	
Other	☐	☐	
Other	☐	☐	

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Narrative