

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	1281
Aircraft Designation	AUGUSTA-AW139-AW139
Qualification Document	14 CFR Part 60 (2008), Appendix C
Qualification Level	D
Expiration Date	6/30/2027

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

Sponsor Name:	Leonardo S.p.a Helicopters
Designator:	UGAW
FAA ID:	1281
Make/Model/Series:	AGUSTA-AW139-AW139
Evaluation Interval:	24

Section 1. Sponsor FSTD Location Contact Information			
FSTD Location			
Training Facility Name:	Leonardo Helicopters Training Academy		
Address:	Via Indipendenza, 2 Varese		
City:	Sesto Calende		
State/Prov/Terr:	IT		
Country:	ITA		
ZIP:	21018		
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:	

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

Section 2. FSTD Information			
A/C Common Name:	AGUSTA AGUSTA-AW139	Manufacturer Name:	CAE
A/C Alternative Name:	AUGUSTA-AW139-AW139	Manufactured Year:	2012
Qualification Basis:	14 CFR Part 60 (2008), Appendix C	Manufacture Serial No:	2ERJ-1035
Qualification Level:	D	Sponsor's FSTD ID:	AW139 #3
FSTD Class:	Helo FFS	Evaluation Base Month:	Mar
FSTD Seats Available:	5	FSTD Convertible to:	
FSTD Configuration Information			
FSTD Configuration (1):	AGUSTA-AW139-AW139		
FSTD Configuration (2):			
FSTD Configuration (3):			
FSTD Configuration (4):			
FSTD Configuration (5):			
FSTD Engine Information			
Pri. Engine Type / Thrust:	2x P&WC PW PT6C-67C / 1872shp	FADEC Version:	
Alt. Engine Type / Thrust:		FADEC Version:	
Alt. Engine Type / Thrust:		FADEC Version:	
Alt. Engine Type / Thrust:		FADEC Version:	
Flight Instrumentation & Systems			
<input type="checkbox"/> NVG		<input checked="" type="checkbox"/> Other: SVS	
<input type="checkbox"/> CPDLC		<input type="checkbox"/> Other:	
<input type="checkbox"/> EFB Class:		<input type="checkbox"/> Other:	
Data Sources & Models			
Flight Control Data: Model/Revision:	AW139 Flight Control Data Gathering Report THSS-139G1920x022		
Aero Model: Source/Model/Revision:	AW139 Flight test for flight simulator development-test Report 139G0290T036/2		
Visual System			
Image Generator Make/Model:	CAE Medallion 6031		
Display Type:	Direct, Non-Collimated	Visual Projector Type:	LCoS/LED/DLP
Horizontal Field of View (degs):	210	Vertical Field of View (degs):	80

Avionics			
Manufacturer	Honeywell	Honeywell	
Model	EPIC Primus	EPIC Primus	
Standard/Revision	SW Phase 8.0	SW Phase 7.4	

Flight Management System			
Manufacturer:	Honeywell	Honeywell	
Model:	Primus Epic	Primus Epic	
Type/Revision:	SW Phase 8.0	SW Phase 7.4	

Motion System	
Manufacturer:	CAE Moog
Type:	Electric
Axis:	6

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

Visual Ground Segment	
Airport / Landing RW	KJFK ILS 04R

Helicopter Non-Airport Landing Areas	
Elevated Surface:	"Pietralata" and "Ministero della Difensa"-elevated heliport-Italy
Confined Landing Area:	“S. Pertini” and “P. Repubblica” – 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:	766		
NAA Qualification Level:	D		
NAA Qualification Basis:	14CFRPart60(2008)		

**Federal Aviation Administration
National Simulator Program**

FSTD INFORMATION & CONFIGURATION

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Designator:	UGAW
FAA ID:	1281
Make/Model/Series:	AGUSTA-AW139-AW139
Evaluation Interval:	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"/>	KJFK RNAV RWY 4R, Circle RWY 31R
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 7.1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
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"/>	
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 type="checkbox"/>	<input type="checkbox"/>	
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"/>	N41:57:56.19 / E12:29:04.72, KTEB-slope area- N40:45:35.70/W74:05:19.70
Helicopter External Load Operations	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Hook and Hoist
Helicopter Pinnacle Approach to Landings	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N40:45:28.85 / W74:05:21.73
Helicopter Night Vision Maneuvers Class A <input type="checkbox"/> , Class B Lens <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Helicopter Category A Takeoffs	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	MTOW Extended to 6800 kg
Other Off Site	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	“Pietralata” and “Ministero Difesa Aeronautica” – elevated heliports
Other OSAP	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Oil Rig Platform 1, In vicinity of KJFK
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,	<input type="checkbox"/>	<input type="checkbox"/>	

shallow) with visual system			(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