

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	1071
Aircraft Designation	AGUSTA-AW139-AW139
Qualification Document	120-63
Qualification Level	D
Expiration Date	6/30/2024

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.

Sponsor Name:	Leonardo S.p.a Helicopters
Designator:	UGAW
FAAID:	1071
Make/Model/Series:	AGUSTA-AW139-AW139
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:	Williams, Henry		
Address:	8700 Freeport Parkway		
City:	IRVING		
State/Prov/Terr:	TX	Office:	469-439-8955
Country:	USA	Cell:	214-277-8450
ZIP:	75063	Email:	henry.d.williams@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

FSTD INFORMATION & CONFIGURATION

Sponsor Name:	Leonardo S.p.a Helicopters
Designator:	UGAW
FAA ID:	1071
Make/Model/Series:	AGUSTA-AW139-AW139
Evaluation Interval:	12

Section 2. FSTD Information

A/C Common Name:	AGUSTA AGUSTA-AW139	Manufacturer Name:	CAE
A/C Alternative Name:	AGUSTA-AW139-AW139	Manufactured Year:	2008
Qualification Basis:	120-63	Manufacture Serial No.:	2ECX-745
Qualification Level:	D	Sponsor's FSTD ID:	AW139 FFS#2
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 PT6C-67C / 1872 shp	FADEC Version:	
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 type="checkbox"/> Other:
<input checked="" type="checkbox"/> EFB Class: Portable	<input type="checkbox"/> Other:

Data Sources & Models

Flight Control Data: Model/Revision:	139G0290T036/2
Aero Model: Source/Model/Revision:	AgustaWestland AW139 139G0290T036/2 Rev. B

Visual System

Image Generator Make/Model:	CAE Medallion 6021		
Display Type:	Cross Ckpt, Collimated	Visual Projector Type:	LCoS/LED/DLP
Horizontal Field of View (degs):	220	Vertical Field of View (degs):	60

Avionics

Manufacturer	Honeywell		
Model	Primus EPIC		
Standard/Revision	SWPhase 7.4		

Federal Aviation Administration
National Simulator Program

FSTD INFORMATION & CONFIGURATION

Sponsor Name:	Leonardo S.p.a Helicopters
Designator:	UGAW
FAA ID:	1071
Make/Model/Series:	AGUSTA-AW139-AW139
Evaluation Interval:	12

Flight Management System

Manufacturer:	Honeywell		
Model:	Primus Epic		
Type/Revision:	SW Phase 7.4		

Motion System

Manufacturer:	CAE Series 660 6-DOF with 3-DOF Vibration Platform
Type:	Hydraulic
Axis:	6

Airport Qualification Models

1: Airport / Runways / Taxiway:	KTEB / AII / AII
2: Airport / Runways / Taxiway:	
3: Airport / Runways / Taxiway:	

Visual Ground Segment

Airport / Landing RW	KHOU / 04
----------------------	-----------

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:	608		
NAA Qualification Level:	D		
NAA Qualification Basis:	AC 120-63		

Federal Aviation Administration
National Simulator Program

FSTD INFORMATION & CONFIGURATION

Sponsor Name:	Leonardo S.p.a Helicopters
Designator:	UGAW
FAA ID:	1071
Make/Model/Series:	AGUSTA-AW139-AW139
Evaluation Interval:	12

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

Federal Aviation Administration
National Simulator Program

FSTD INFORMATION & CONFIGURATION

Sponsor Name:	Leonardo S.p.a Helicopters
Designator:	UGAW
FAA ID:	1071
Make/Model/Series:	AGUSTA-AW139-AW139
Evaluation Interval:	12

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 / W74:05:19.70
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"/>	N 40:45:28.85 / W74:05:21.73
Helicopter Night Vision Maneuvers Class A <input type="checkbox"/> , Class B Lens <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N40:45:35.70W74:05:19.70 North of KEWR / South of KTEB
Helicopter Category A Takeoffs	<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"/>	
Other	<input type="checkbox"/>	<input type="checkbox"/>	

Federal Aviation Administration
National Simulator Program

FSTD INFORMATION & CONFIGURATION

Sponsor Name:	Leonardo S.p.a Helicopters
Designator:	UGAW
FAA ID:	1071
Make/Model/Series:	AGUSTA-AW139-AW139
Evaluation Interval:	12

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"/>	

Federal Aviation Administration
National Simulator Program

FSTD INFORMATION & CONFIGURATION

Sponsor Name:	Leonardo S.p.a Helicopters
Designator:	UGAW
FAA ID:	1071
Make/Model/Series:	AGUSTA-AW139-AW139
Evaluation Interval:	12

Narrative
