

Federal Aviation Administration National Simulator Program



Statement of Qualification

The Federal Aviation Administration (FAA)
National Simulator Program has evaluated the Flight Simulation Training
Device (FSTD) listed below. This FSTD has been found to meet the
standards set forth in the qualification document described below:

Sponsor: Finmeccanica S.p.A.- Helicopter Division (Rotorsim)

Location: Sesto Calende

Aircraft Type: AGUSTA-AW139-AW139

FAA Identification Number: 1281

Qualification Basis: 14 CFR Part 60 Change 1, Appendix C

Qualification Level: D

A handwritten signature in black ink that reads "Lawrence E. McDonald".

Issued by the National Simulator Program
on April 5, 2016.

Lawrence E. McDonald
Manager, National Simulator Program
Federal Aviation Administration

To maintain qualification, the FSTD must meet all of the standards and specifications of the qualification basis and is subject to the conditions and limitations listed in the last FAA FSTD Evaluation Report. This certificate is not transferable, and unless, revoked, suspended, or amended, shall remain in effect until May 31, 2017.

Federal Aviation Administration National Simulator Program Statement of Qualification	Sponsor: Finmeccanica S.p.A. - Helicopter Division /Rotorsim FSTD ID: 1281 Aircraft Type: AW139
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Sponsor Submission Date: 04/05/2016 Submissions to: 9-ASO-AFS205-NSP-SIMULATOR-SCHEDULING@faa.gov

Section 1. FSTD Sponsor Information

Sponsor Name:	Finmeccanica S.p.A. - Helicopter Division d.b.a. Rotorsim s.r.l.	FSTD Location:	
Address:	Via Indipendenza, 2	Physical Address:	Via Indipendenza, 2
City:	Sesto Calende	City:	Sesto Calende
State/Prov/Terr:	VA	State:	VA
Country:	Italy	Country:	Italy
ZIP:	21018	ZIP:	21018
Sponsor ID No: (FAA Certificate Number)	UGAW	Nearest Airport: (Apt Code)	LIMC

Local FAA Authority: FAA Training Program Approval Authority: (TPAA)

Name:	Hollis K. Wynne		
Address:	8700 Freeport Parkway, Suite 200B,	Office Phone	225-932-5903
City:	Irving	Cell:	337-424-3467
State:	Texas	Fax:	225-932-5975
ZIP:	75039	Email:	hollis.k.wynne@faa.gov

FAA Alternate POC (APM, FTPM, if required)

Name:	None		
Address :		Office Phone	
City/State:		Cell:	
State:		Fax:	
ZIP:		Email:	

FSTD Management Representative::

Name:	Alessandro Cella		
Address 1:	Via Indipendenza, 2	Office Phone	+39 0331 915082
City/State:	Sesto Calende (VA)	Cell:	+39 345 5775607
State:	ITALY	Fax:	+39 0331 915454
ZIP:	21018	Email:	alessandro.cella@finmeccanica.com

FSTD Contact:

Name:	Daniele Orsini		
Address 1:	Via Indipendenza, 2	Office Phone	+39 0331 915597
City/State:	Sesto Calende (VA)	Cell:	+39 340 6017320
State:	ITALY	Fax:	+39 0331 915454
ZIP:	21018	Email:	daniele.orsini@cae.com

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Section 2. FSTD Information			
Aircraft make/model/series:	AW139	A/C Common Name:	AW139
Qualification Basis:	14 CFR Part 60 Change 1	Manufacture Serial No.:	2ERJ-1035
Qualification Level:	<u>Level D</u>	Sponsor's FSTD ID:	AW139 #3 FFS
Base Month: April	<input checked="" type="checkbox"/> Full Flight Simulator (FFS) <input type="checkbox"/> Flight Training Device (FTD)		
National Aviation Authority Qualification (For BASA-SIP Evaluations only):			
NAA Name:			
NAA FSTD ID No:		NAA Qualification Basis:	
NAA Qualification Level:			
Technical Information:			
FAA FSTD ID No: 1281 (If Applicable)	Convertible FSTD: <input checked="" type="checkbox"/> Yes	FSTD Manufacturer:	AgustaWestland and CAE
<input checked="" type="checkbox"/> eMQTG	Conv. FAA FSTD ID No.	Date of Manufacture:	May 2012
FSTD Configurations:	Avionic Version 5.6 Avionic Version 7.4		
Pri. Engine Type/Thrust:	PW PT6C-67C	FADEC Version	
Alt. Engine Type/Thrust:	/		
Alt. Engine Type/Thrust:	/		
Alt. Engine Type/Thrust:	/		
Flight Instrumentation/Systems:	<input checked="" type="checkbox"/> EFIS <input type="checkbox"/> HUD/HGS <input type="checkbox"/> EVS <input checked="" type="checkbox"/> WX Radar <input type="checkbox"/> NVG <input checked="" type="checkbox"/> GPS <input checked="" type="checkbox"/> GPWS <input checked="" type="checkbox"/> FMS <input checked="" type="checkbox"/> TCAS Ver: I & II <input type="checkbox"/> CPDLC <input type="checkbox"/> EFB Class: <input type="checkbox"/> Other:		
FSTD seats available: #5	2 Pilots, 1 Instructor, 2 observers	Flt. control data revision: THSS-13G1920X022	
FSTD host computer: AVNET TYAN TEMPEST I5000PX		Aero model/data: VDR THSS-139G1920U003 Rev. B	
Visual image generator: CAE Med. 6220		Avionics Type/Suite: Honeywell Epic Phase 5.6 & 7.4	
Visual system display: Cross Ckpt 210X80		Avionics Std/Rev: 4 Axis with SAR modes	
Visual projector: n° 8 DLP		FMS: Primus Epic Suite – Honeywell Load Rev. 5.6 & 7.4	
		Motion system: CAE Electric 6 DOF	
Airport Qualification Models If illustrations or other presentations are attached please specify: <input type="checkbox"/>			
Airport Qualification Model 1 / Available In-Use Runways /Taxiway:	KTEB / ALL		
Airport Qualification Model 2 / Available In-Use Runways /Taxiway:	LSZH / 16 / 14 / 28		
Airport Qualification Model 3 / Available In-Use Runways / Taxiway:	LIRF / 34 / 25		
Visual Ground Segment:	KJFK Airport Designator	4R Landing Runway	

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Section 3a. Level 6 and Above--Additional FSTD Qualified Maneuvers, Procedures, Tasks, and Functions (For Level 4 and 5 see Section 3c below)
(not stated in 14CFR Part 60 Appendix (A,B,C, or D) Attachment 1, Table 1B)

Except for **Non-Qualified** items stated in section 4 below, 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 below. Specific use of this device in conjunction with any training program must be approved by the FAA Training Program Approval Authority (TPAA).

FAA Qualifying Official(s): Blanton

Area/Function/Maneuver	Requested (Sponsor Use)	Qualified (FAA Use Only)	Remarks (Including Partial Task Limitations)
CAT I: (RVR 2400/1800 ft. DH200 ft)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
CAT II: (RVR 1200 ft. DH 100 ft)	<input type="checkbox"/>	<input type="checkbox"/>	
CAT III: (lowest minimum evaluated) RVR, DH ft.	<input type="checkbox"/>	<input type="checkbox"/>	
Circling Approach : KJFK/LOC04R/RW 31R	<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 I, (Phase 5.6) / TCAS II, (Phase 7.4)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	TCAS I & TCAS II
WX-Radar	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
HUD / HGS	<input type="checkbox"/>	<input type="checkbox"/>	
EFVS	<input type="checkbox"/>	<input type="checkbox"/>	
TAWS (GPWS / EGPWS)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
SMGCS: Arpt/Taxi Route, Visibility, mono/bidirectional	<input type="checkbox"/>	<input type="checkbox"/>	
Enhanced Taxi Markings: KTEB, ALL	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
<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"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	

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Section 3b. 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 (Including Partial Task Limitations)
Helicopter Slope Landings	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
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"/>	
Helicopter Night Vision Maneuvers Evaluated with Class A Lens <input type="checkbox"/> Class B Lens <input type="checkbox"/> NVG Confined Area Location:	<input type="checkbox"/>	<input type="checkbox"/>	
Helicopter Category A Takeoffs	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	MTOW Extended to 6800 kg
Helicopter Hoist Operations	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	

Section 3c. Level 4 & 5 FSTD Only --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 (Including Partial Task Limitations)
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 the 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"/>	Level 5 Helicopter
Normal and Abnormal Procedures			
Powerplant	<input type="checkbox"/>	<input type="checkbox"/>	
Fuel System.	<input type="checkbox"/>	<input type="checkbox"/>	

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Area/Function/Maneuver	Requested (Sponsor Use)	Qualified (FAA Use Only)	Remarks (Including Partial Task Limitations)
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"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	

Section 4. Non Qualified Tasks	
<p>FSTD users should also observe any Non-Qualified Tasks or Missing, Malfunctioning, or Inoperative (MMI) Components noted on the most recent FAA evaluation report or in the Sponsor discrepancy log that may or may not result in a training, testing, or checking restriction.</p>	
<p>Maneuvers, Procedures, Tasks, and Functions for which this FSTD is <u>NOT</u> Qualified</p>	
Area/Function/Maneuver	Remarks
<p>1. Visual eye point parallax was measured 9.75 degrees at a point center of the two pilots. Complications occur during two pilot coordinated crew operations when the eye point is not selected to the center position. Multi Crew Pilot task are not authorized when the eye position is selected for one of the pilot positions which creates an excessive parallax for the other pilot.</p>	<p>CAE has been granted an exemption to 14 CFR Part 60, continuous field of view test by the administrator.</p> <p>Regulatory Docket No. FAA-2011-0814</p>