

# 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:** Leonardo S.p.a Helicopters

**Location:** Sesto Calende

**Aircraft Type:** AGUSTA-A109-E

**FAA Identification Number:** 974

**Qualification Basis:** 120-63

**Qualification Level:** D

Issued by the National Simulator Program  
on November 3, 2015.

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

Lawrence 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 February 28, 2017.

<b>Federal Aviation Administration National Simulator Program Statement of Qualification</b>	<b>Sponsor:</b> Leonardo S.p.a. – Helicopters d.b.a. Rotorsim <b>FSTD ID:</b> 974 <b>Aircraft Type:</b> A109E
------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------

Sponsor Submission Date: 07/12/2016 Submissions to: [9-ASO-AFS205-NSP-SIMULATOR-SCHEDULING@faa.gov](mailto:9-ASO-AFS205-NSP-SIMULATOR-SCHEDULING@faa.gov)

### Section 1. FSTD Sponsor Information

<b>Sponsor Name:</b>	Leonardo S.p.a. – Helicopters d.b.a. Rotorsim s.r.l.	<b>FSTD Location:</b>	
<b>Address:</b>	Via Indipendenza, 2	<b>Physical Address:</b>	Via Indipendenza, 2
<b>City:</b>	Sesto Calende	<b>City:</b>	Sesto Calende
<b>State/Prov/Terr:</b>	VA	<b>State:</b>	VA
<b>Country:</b>	Italy	<b>Country:</b>	Italy
<b>ZIP:</b>	21018	<b>ZIP:</b>	21018
<b>Sponsor ID No:</b> (FAA Certificate Number)	UGAW	<b>Nearest Airport:</b> (Apt Code)	LIMC
<b>Local FAA Authority: FAA Training Program Approval Authority: (TPAA)</b>			
<b>Name:</b>	Hollis K. Wynne		
<b>Address:</b>	8700 Freeport Parkway, Suite 200B,	<b>Office Phone</b>	225-932-5903
<b>City:</b>	Irving	<b>Cell:</b>	337-424-3467
<b>State:</b>	Texas	<b>Fax:</b>	225-932-5975
<b>ZIP:</b>	75039	<b>Email:</b>	<a href="mailto:hollis.k.wynne@faa.gov">hollis.k.wynne@faa.gov</a>
<b>FAA Alternate POC (APM, FTPM, if required)</b>			
<b>Name:</b>			
<b>Address :</b>		<b>Office Phone</b>	
<b>City/State:</b>		<b>Cell:</b>	
<b>State:</b>		<b>Fax:</b>	
<b>ZIP:</b>		<b>Email:</b>	
<b>FSTD Management Representative::</b>			
<b>Name:</b>	Alessandro Cella		
<b>Address 1:</b>	Via Indipendenza, 2	<b>Office Phone</b>	+39 0331 915082
<b>City/State:</b>	Sesto Calende	<b>Cell:</b>	
<b>State/Country:</b>	Italy	<b>Fax:</b>	+39 0331 915454
<b>ZIP:</b>	21018	<b>Email:</b>	<a href="mailto:alessandro.cella@leonardocompany.com">alessandro.cella@leonardocompany.com</a>
<b>FSTD Contact:</b>			
<b>Name:</b>	Daniele Orsini		
<b>Address 1:</b>	Via Indipendenza, 2	<b>Office Phone</b>	+39 0331 915597
<b>City/State:</b>	Sesto Calende	<b>Cell:</b>	
<b>State/Country:</b>	Italy	<b>Fax:</b>	+39 0331 915454
<b>ZIP:</b>	21018	<b>Email:</b>	<a href="mailto:daniele.orsini@cae.com">daniele.orsini@cae.com</a>

<b>Federal Aviation Administration</b> <b>National Simulator Program</b> <b>Statement of Qualification</b>	<b>Sponsor:</b> Leonardo S.p.a. – Helicopters d.b.a. Rotorsim <b>FSTD ID:</b> 974 <b>Aircraft Type:</b> A109E
------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------

Section 2. FSTD Information			
<b>Aircraft make/model/series:</b>	A109E	<b>A/C Common Name:</b>	A109E
<b>Qualification Basis:</b>	AC120-63	<b>Manufacture Serial No.:</b>	2EAH-549
<b>Qualification Level:</b>	<u>Level D</u>	<b>Sponsor's FSTD ID:</b>	A109E FFS
<b>Base Month:</b> October	<input checked="" type="checkbox"/> Full Flight Simulator (FFS) <input type="checkbox"/> Flight Training Device (FTD)		
<b>National Aviation Authority Qualification (For BASA-SIP Evaluations only):</b>			
<b>NAA Name:</b>			
<b>NAA FSTD ID No:</b>		<b>NAA Qualification Basis:</b>	
<b>NAA Qualification Level:</b>			
<b>Technical Information:</b>			
<b>FAA FSTD ID No:</b> 974 (If Applicable)	<b>Convertible FSTD:</b> <input type="checkbox"/> Yes	<b>FSTD Manufacturer:</b>	CAE Inc.
<input type="checkbox"/> eMQTG	<b>Conv. FAA FSTD ID No.</b> 974	<b>Date of Manufacture:</b>	May 2006
<b>FSTD Configurations:</b>			
<b>Pri. Engine Type/Thrust:</b>	Pratt & Whitney PW206C	<b>FADEC Version</b>	
<b>Alt. Engine Type/Thrust:</b>	/		
<b>Alt. Engine Type/Thrust:</b>	/		
<b>Alt. Engine Type/Thrust:</b>	/		
<b>Flight Instrumentation/Systems:</b>	<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 type="checkbox"/> GPWS <input type="checkbox"/> FMS <input type="checkbox"/> TCAS Ver: <input type="checkbox"/> CPDLC <input type="checkbox"/> EFB Class: <input type="checkbox"/> Other:		
<b>FSTD seats available: #5</b>	2 Pilots, 1 Instructor, 2 observers	<b>Flt. control data revision:</b> Technical Report 03-04 Rev.1	
<b>FSTD host computer:</b>	SIM XXI/NETTS	<b>Aero model/data:</b> 109G0290T074/2	
<b>Visual image generator:</b>	CAE Medallion 6220	<b>Avionics Type/Suite:</b> Rogerson-Kratos and AMETEK	
<b>Visual system display:</b>	FoV 220 deg H, 60 deg V	<b>Avionics Std/Rev:</b>	
<b>Visual projector:</b>	5 x LCOS Barco sim7-Q	<b>FMS:</b> N/A	
		<b>Motion system:</b> CAE Series 660 6 DOF with 3 DOF Vibration Platform	
<b>Airport Qualification Models</b> If illustrations or other presentations are attached please specify: <input type="checkbox"/>			
<b>Airport Qualification Model 1 / Available In-Use Runways /Taxiway:</b>	KTEB 19R & 06		
<b>Airport Qualification Model 2 / Available In-Use Runways /Taxiway:</b>	KSNA 20R & 20L		
<b>Airport Qualification Model 3 / Available In-Use Runways / Taxiway:</b>	LIRF 25 & 16L "Pietralata" and "Ministero Difesa Aeronautica" – elevated heliports "S. Pertini" and "P. Repubblica" – confined areas Oil Rig (LAT N041:45.36.03 LONG E011:39.43.02)		
<b>Visual Ground Segment:</b>	KHOU Airport Designator	04 Landing Runway	

<b>Federal Aviation Administration</b>	<b>Sponsor:</b> Leonardo S.p.a. – Helicopters d.b.a. Rotorsim
<b>National Simulator Program</b>	<b>FSTD ID:</b> 974
<b>Statement of Qualification</b>	<b>Aircraft Type:</b> A109E

**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 : KTEB 19&06 / ILS 19 / RW 06	<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 type="checkbox"/>	<input type="checkbox"/>	
Auto-land / Roll Out Guidance	<input type="checkbox"/>	<input type="checkbox"/>	
TCAS/ACAS I / II	<input type="checkbox"/>	<input type="checkbox"/>	
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 type="checkbox"/>	<input type="checkbox"/>	
SMGCS: Arpt/Taxi Route, Visibility, mono/bidirectional	<input type="checkbox"/>	<input type="checkbox"/>	
Enhanced Taxi Markings: Arpt/Taxi Route	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/> LPV <input checked="" type="checkbox"/> GPS <input type="checkbox"/> WAAS	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GPS Trimble 2101 Approach Plus
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"/>	

<b>Federal Aviation Administration</b> <b>National Simulator Program</b> <b>Statement of Qualification</b>	<b>Sponsor:</b> Leonardo S.p.a. – Helicopters d.b.a. Rotorsim
	<b>FSTD ID:</b> 974
	<b>Aircraft Type:</b> A109E

<b>Section 3b. Additional Helicopter FSTD Qualified Maneuvers, Procedures, Tasks, and Functions</b> (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"/>	
<b>Helicopter Night Vision Maneuvers</b> 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"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	

<b>Section 3c. Level 4 &amp; 5 FSTD Only --Optionally Qualified Maneuvers, Procedures, Tasks, and Functions</b> as defined in Table B1B and D1B.			
Area/Function/Maneuver	Requested (Sponsor Use)	Qualified (FAA Use Only)	Remarks (Including Partial Task Limitations)
<b>Preflight Procedures</b>			
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"/>	
<b>In-flight Maneuvers</b>			
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"/>	
<b>Instrument Procedures</b>			
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
<b>Landings and Approaches to Landings</b>			
Visual Approaches (normal, steep, shallow) with visual system	<input type="checkbox"/>	<input type="checkbox"/>	Level 5 Helicopter
<b>Normal and Abnormal Procedures</b>			
Powerplant	<input type="checkbox"/>	<input type="checkbox"/>	
Fuel System.	<input type="checkbox"/>	<input type="checkbox"/>	

<b>Federal Aviation Administration</b> <b>National Simulator Program</b> <b>Statement of Qualification</b>	<b>Sponsor:</b> Leonardo S.p.a. – Helicopters d.b.a. <b>Rotorsim</b>
	<b>FSTD ID:</b> 974
	<b>Aircraft Type:</b> A109E

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"/>	
<b>Emergency Procedures</b>			
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"/>	
<b>Post flight Procedures.</b>			
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	
<b>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.</b>	
Maneuvers, Procedures, Tasks, and Functions for which this FSTD is <u>NOT</u> Qualified	
Area/Function/Maneuver	Remarks
1.	
2.	
3.	
4.	
5.	
6.	