

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: Liberty University, School of Aeronautics

Location: Lynchburg

Aircraft Type: CE-172-S

FAA Identification Number: 1397

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

Qualification Level: 5

Issued by the National Simulator Program
on December 03, 2014.

A handwritten signature in blue ink that reads "Harlan Gray Sparrow III".

Harlan Gray Sparrow III

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 January 31, 2016.

Federal Aviation Administration National Simulator Program Statement of Qualification	Sponsor: Liberty University, School of Aeronautics FSTD ID: 1397 Aircraft Type: Cessna 172S
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Sponsor Submission Date: 12/03/2014		Submissions to: 9-ASO-AFS205-NSP-SIMULATOR-SCHEDULING@faa.gov	
Section 1. FSTD Sponsor Information			
Sponsor Name:	Liberty University, School of Aeronautics	FSTD Location:	
Address:	1971 University Boulevard	Physical Address:	939 Airport Rd.
City:	Lynchburg	City:	Lynchburg
State/Prov/Terr:	VA	State:	VA
Country:	United States	Country:	United States
ZIP:	24515	ZIP:	24502
Sponsor ID No: (FAA Designator)	L48S	Nearest Airport: (Apt Code)	KLYH
Local FAA Authority:			
FAA Training Program Approval Authority:		<input checked="" type="checkbox"/> POI <input type="checkbox"/> TCPM <input type="checkbox"/> Other: _____	
Name:	Paul Ascoli	Office ID:	AEA-RIC-FSDO-21
Telephone:	804-222-7494 ext. 252	Fax:	804-222-4843
Email:	paul.ascoli@faa.gov		
Sponsor Personnel:			
FSTD Management Representative:			
Name:	Kevin Martin		
Address 1:	939 Airport Rd.	Address 2	
City:	Lynchburg	State:	VA
ZIP:	24502	Email:	Krmartin5@liberty.edu
Tel:	434-582-2183	Fax:	N/A
FSTD Scheduling Contact:			
Name:	Joshua Bryant		
Address 1:	310 Hanger Rd.	Address 2	
City:	Lynchburg	State:	VA
ZIP:	24502	Email:	jtbyrant@liberty.edu
Tel:	434-592-7420	Fax:	N/A
FSTD Technical Contact:			
Name:	Kevin Martin		
Address 1:	939 Airport Rd.	Address 2	
City:	Lynchburg	State:	VA
ZIP:	24502	Email:	Krmartin5@liberty.edu
Tel:	434-582-2183	Fax:	N/A

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Section 2. FSTD Information			
Aircraft make/model/series:	CE-172S	A/C Common Name:	Cessna 172 (Skyhawk)
Qualification Basis: Qualification Level:	Part 60 Change1, Appendix B 5	Mfgr's ID or Serial No.:	10319-001
	<input type="checkbox"/> Full Flight Simulator (FFS) <input checked="" type="checkbox"/> Flight Training Device (FTD)	Sponsor's FSTD ID:	10319-001
National Aviation Authority Qualification (For BASA-SIP Evaluations only):			
NAA Name:	N/A		
NAA FSTD ID No:	N/A	NAA Qualification Basis:	N/A
NAA Qualification Level:	N/A		
Technical Information:			
FAA FSTD ID No: 1397 (If Applicable)	Convertible FSTD: <input type="checkbox"/> Yes	FSTD Manufacturer:	Frasca International, Inc.
<input checked="" type="checkbox"/> eMQTG	Conv. FAA FSTD ID No. N/A	Date of Manufacture:	07/16/2012
FSTD Configurations:	Cessna 172S		
Pri. Engine Type/Thrust:	Textron Lycoming IO-360-L2A / 180 BHP at 2700 RPM	FADEC Version	N/A
Alt. Engine Type/Thrust:	N/A / N/A		
Alt. Engine Type/Thrust:	N/A / N/A		
Flight Instrumentation/Systems:	<input checked="" type="checkbox"/> EFIS <input type="checkbox"/> HUD/HGS <input type="checkbox"/> EVS <input 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:		
FSTD seats available: #	2	Flt. control data revision: Part 60 Alternative Data, Table B2B	
FSTD host computer: Intel Core i7 960	Aero model/data: Part 60 Alternative Data, Table B2B		
Visual image generator: Frasca TruVision Global	Avionics Type/Suite: Garmin G1000 w/ GFC700 AP		
Visual system display: CrossCkpt / 180° x 40°	Avionics Std/Rev: HSDB ICD Revision: Rev Y		
Visual projector: Three Panasonic PT-VX400NTU	FMS: N/A		
Helicopter Chin Windows Functional: <input type="checkbox"/>	Motion system: N/A		
Airport Qualification Models If illustrations or other presentations are attached please specify: <input type="checkbox"/>			
Airport Qualification Model 1 / Available In-Use Runways /Taxiway:	N/A		
Airport Qualification Model 2 / Available In-Use Runways /Taxiway:	N/A		
Airport Qualification Model 3 / Available In-Use Runways / Taxiway:	N/A		
Visual Ground Segment:	N/A Airport Designator	N/A Landing Runway	

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Section 3a. Additional FSTD Qualified Maneuvers, Procedures, Tasks, and Functions
(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. or 3b, 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):

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 : Arpt/Appr/Ldg RW	<input type="checkbox"/>	<input type="checkbox"/>	
Windshear Training:	<input type="checkbox"/>	<input type="checkbox"/>	
Auto-coupled Approach/Auto Go Around	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	No auto go around
Auto-land / Roll Out Guidance	<input type="checkbox"/>	<input type="checkbox"/>	
TCAS/ACAS I / II	<input type="checkbox"/>	<input type="checkbox"/>	
WX-Radar	<input type="checkbox"/>	<input 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 checked="" type="checkbox"/> LPV <input type="checkbox"/> GLS <input checked="" type="checkbox"/> GPS	<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"/> Out	<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 type="checkbox"/>	<input type="checkbox"/>	
Helicopter External Load Operations	<input type="checkbox"/>	<input type="checkbox"/>	
Helicopter Pinnacle Approach to Landings	<input type="checkbox"/>	<input type="checkbox"/>	
Helicopter Night Vision Maneuvers 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 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
1.	
2.	
3.	
4.	
5.	
6.	