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: 1396

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

Qualification Level:5

Issued by the National Simulator Program on December 7, 2018.

Lawrence McDonald

Manager, National Simulator Program

Federal Aviation Administration

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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 March 31, 2021.

Sponsor: Liberty University, School of Aeronautics

FSTD ID: 1396

Aircraft Type: Cessna 172S

Email Form to: 9-ASO-AFS205-NSP-SIMULATOR-SCHEDULING @faa.gov

Sponsor Subm	ission Date: 12/11/2017			
	Section 1. FST	D Sponsor Inforn	nation	
Sponsor Name:	Liberty University School of Aeronautics	FSTD Location:		
Address:	1971 University Boulevard	Physical Address:	939 Airport Road	
City:	Lynchburg	City:	Lynchburg	
State/Prov/Terr:	VA	State:	VA	
Country:	United States	Country:	United States	
ZIP:	24515	ZIP:	24502	
Sponsor ID No: (FAA Certificate Number)	L48S	Nearest Airport: (Apt Code)	KLYH	
Local FAA Authorit	y: FAA Tr <mark>aini</mark> ng Program Approval Author	ity: (TPAA)		
Name:	Michael Dows FSDO 21	1		
Address:	5707 Huntsman Rd. Suite 100	Office Phone	804-222-7494 x255	
City:	Richmond	Cell:	N/A	
State:	VA	Fax:	804-222-4843	
ZIP:	23250	Email:	Michael.l.dows@faa.gov	
FAA Alternate POC	(AP <mark>M,</mark> FTPM, if required)	N DR	Y I	
Name:				
Address :	100	Office Phone	7//	
City/State:	-	Cell:		
State:		Fax:		
ZIP:		Email:		
FSTD Manageme	nt Representative::			
Name:	Kevin Martin	STR		
Address 1:	939 Airport Road	Office Phone	434-592-7739	
City/State:	Lynchburg	Cell:	N/A	
State:	VA	Fax:	N/A	
ZIP:	24502	Email:	krmartin5@liberty.edu	
FSTD Contact:				
Name:	Kevin Martin			
Address 1:	939 Airport Road	Office Phone	434-592-7739	
City/State:	Lynchburg	Cell:	N/A	
State:	VA	Fax:	N/A	
ZIP:	24502	Email:	krmartin5@liberty.edu	

Sponsor:	Liberty University, School of Aeronautics
FSTD ID:	1396
Aircraft Type:	Cessna 172S

Section 2. FSID information								
Aircraft make/model/series:	Cessna 172	S		Common me:	Cessna 172			
Qualification Basis: Qualification Level:	Part 60 Change1 Level 5			nufacture rial No.:	10315-001			
		light Simulator (FFS)		Sponsor's		15-001		
		raining Device (FTD)	TD ID:	1031	J-00 I		
National Aviation Authority	/ Qualificatio	n (For BASA-SIP Eval	uation	s only):				
NAA Name:								
NAA FSTD ID No:				NAA Qualification Basis:				
NAA Qualification Level:				AI.				
Technical Information:		2 PL			100			
FAA FSTD ID No: 1396 (If Applicable)	Convertible	FSTD: □Yes	FS	FSTD Manufacturer:		Frasca International		
□eMQTG	Conv. FAA	FSTD ID No.	Da	Date of Manufacture:		06/11/2012		
FSTD Configurations:	Cessna 172	S	3 2			0		
Pri. Engine Type/Thrust:	Textron Lyo	oming IO-360-L2A						
Alt. Engine Type/Thrust:	180BHP at 2	t 2700RPM		FADEC Version				
Alt. Engine Type/Thrust:	1							
Alt. Engine Type/Thrust:	/							
Flight Instrumentation/Systems:		☐ EFB Class:		S			;	
FSTD seats available: # 4				Fit. control data revision: Part 60 Alternative Data, Table B2B				
FSTD host computer: Intel	Core i7	'NIC	Ae	ro model/data	a: Part	60 Alter	native Data,	Γable B2B
Visual image generator: Frasca/TruVision Global II			Av	Avionics Type/Suite: Garmin G1000 w/GFC700 AP				
Visual system display: CrossCkpt/180x40			Avionics Std/Rev: HSDB ICD Revision: Rev Y					
Visual projector: 3x SANYO	5A	FM	S: Type/Rev					
			Мо	Motion system: Mfgr./Type/Axis				
Airport Qualification Models If illustrations or other presentations are attached please specify:					pecify:			
Airport Qualification Model 1 / Available In-Use Runways /Taxiway:		1 1						
Airport Qualification Model 2 / Available In-Use Runways /Taxiway:		1 1						
Airport Qualification Model 3 / Available In-Use Runways / Taxiway:		1 1						
Visual Ground Segment:		Airport Designator		Landing Runw	/ay			

Sponsor:	Liberty University, School of Aeronautics
FSTD ID:	1396
Aircraft Type:	Cessna 172S

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): Dows			
Area/Function/Maneuver	Requested (Sponsor Use)	Qualified (FAA Use Only)	Remarks (Including Partial Task Limitations)
CAT I: (RVR 2400/1800 ft. DH200 ft)			
CAT II: (RVR 1200 ft. DH 100 ft)			
CAT III: (lowest minimum evaluated) RVR, DH ft.			
Circling Approach : Arp <mark>t/A</mark> ppr <u>/</u> Ldg RW			
Windshear Training:			
Auto-coupled Approa <mark>ch</mark>			
Auto Go Around			
Auto-land / Roll Out <mark>Guidance</mark>			
TCAS/ACAS I / II			
WX-Radar			
HUD / HGS			
EFVS			
TAWS (GPWS / EGPWS)			
SMGCS: Arpt <u>/</u> Taxi Route, Vis <mark>ibility, mono/bidirectional</mark>			
Enhanced Taxi Markings: Arpt <u>/</u> Ta <mark>xi Route</mark>			
RWSL/LAHSO			
☐ LPV ☐ GPS ☐ WAAS			
RNP/AR			
ADS-B			
Full Stall (14 CFR Part 60 (2016)/FSTD Directive 2)			
UPRT (14 CFR Part 60 (2016)/FSTD Directive 2)			
lcing (14 CFR Part 60 (2016)/FSTD Directive 2)			
Realistic Gusting Crosswind(14 CFR Part 60 (2016)/FSTD Directive 2)			
Bounced Landing (14 CFR Part 60 (2016)/FSTD Directive 2)			

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Sponsor:	Liberty University, School of Aeronautics
FSTD ID:	1396
Aircraft Tyne:	Cessna 172S

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					
Helicopter External Load Operations					
Helicopter Pinnacle Approach to Landings					
Helicopter Night Vision Maneuvers					
Evaluated with Class A Lens Class B Lens NVG Confined Area Location:					
Helicopter Category A Takeoffs	П				
Troncoptor category X rancome	пАП				
2 -	П				
Section 3c. Level 4 & 5 FSTD Only Optionally Qual		Duo an duman. To	also and Europtians as defined		
in Table B1B and D1B.	ined Maneuvers,	Procedures, 12	isks, and runctions as defined		
Area/Function/Maneu <mark>ver</mark>	Requested (Sponsor Use)	Qualified (FAA Use Only)	Remarks (Including Partial Task Limitations)		
Preflight Procedures		20			
Preflight Inspection (flight deck only).		\boxtimes			
Engine Start			4		
Pre-takeoff Checks.		\boxtimes			
In-flight Maneuvers					
Approach to Stalls		\boxtimes	Level 5 Only		
Engine Failure (procedures only)		\boxtimes	Level 5 Only		
Specific Flight Characteristics incorporated into the user's approved flight training program					
Instrument Procedures	IL.				
Standard Terminal Arrival/Flight Management System Arrival		\boxtimes	Level 5 Only		
Holding	\boxtimes	\boxtimes	Level 5 Only		
Precision Instrument, all engines operating	\boxtimes	\boxtimes	Level 5 Only		
Non-Precision Instrument, all engines operating	\boxtimes	\boxtimes	Level 5 Only		
Missed Approach	\boxtimes	\boxtimes	Level 5 Only		
Landings and Approaches to Landings					
Visual Approaches (normal, steep, shallow) with visual system			Level 5 Helicopter		
Normal and Abnormal Procedures					
Powerplant	\boxtimes	\boxtimes			
Fuel System.	\boxtimes	\boxtimes			

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Sponsor:	Liberty University, School of Aeronautics
FSTD ID:	1396
Aircraft Type:	Cessna 172S

Area/Function/Maneuver	Requested (Sponsor Use)	Qualified (FAA Use Only)	Remarks (Including Partial Task Limitations)
Electrical System.	\boxtimes	\boxtimes	
Environmental and Pressurization Systems			
Fire Detection and Extinguisher Systems			
Navigation and Avionics Systems	\boxtimes	\boxtimes	
Automatic Flight Control System, Electronic Flight Instrument System, and Related Subsystems.	\boxtimes	\boxtimes	
Flight Control Systems			
Anti-ice and Deice Systems			
Aircraft and Personal Emergency Equipment			
Emergency Procedures			
Emergency Descent (Max Rate)			Level 5 Only
Inflight fire and smoke removal			Level 5 Only
Rapid Decompression			Level 5 Only
Emergency Evacuation			
Post flight Procedures.		A	
After-Landing Procedures			
Rotor brake operation.			Helicopter only
Abnormal/emergency procedures			

Section 4. Non Qualified Tasks

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.

Maneuvers, Procedures, Tasks, and Functions for which this FSTD is NOT Qualified

Area/Function/Maneuver	Remarks
1.	
2.	
3.	
4.	
5.	
6.	