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	
FAA ID	
Aircraft Designation	
Qualification Document	
Qualification Level	
Expiration Date	

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.

<table>
<tr><td rowspan="5">Federal Aviation Administration
National Simulator Program

FSTD INFORMATION & CONFIGURATION</td><td>Sponsor Name:</td><td>Liberty University, School of Aeronautics</td></tr>
<tr><td>Designator:</td><td>L48S</td></tr>
<tr><td>FAA ID:</td><td>1397</td></tr>
<tr><td>Make/Model/Series:</td><td>CE-172-S</td></tr>
<tr><td>Evaluation Interval:</td><td>36</td></tr>
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Section 1. Sponsor | FSTD Location | Contact Information

FSTD Location

Training Facility Name:	Liberty University Lynchburg Campus
Address:	205 ARTHUR S. DEMOSS DR
City:	Lynchburg
State/Prov/Terr:	VA
Country:	USA
ZIP:	24515

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

Name:	Dows, Michael		
Address:	5707 Huntsman Rd		
City:	Richmond		
State/Prov/Terr:	VA	**Office:**	(804) 222-7494
Country:	USA	**Cell:**	
ZIP:	23250	**Email:**	Michael.l.dows@faa.gov

FAA Alternate POC (APM, FTPM, if applicable)

Name:	Marchelletta, Michael		
Address:	5707 Huntsman Rd		
City:	Richmond		
State/Prov/Terr:	VA	**Office:**	(804) 222-7494 X-2426
Country:	USA	**Cell:**	
ZIP:	23250	**Email:**	Michael.marchellette@faa.gov

Sponsor FSTD Management Representative

Name:	Williams, Dwight		
Address:	1971 University Blvd		
City:	Lynchburg		
State/Prov/Terr:	VA	**Office:**	434-592-5487
Country:	USA	**Cell:**	
ZIP:	24515	**Email:**	djwilliams26@liberty.edu

Sponsor FSTD Local Contact

Name:			
Address:			
City:			
State/Prov/Terr:		**Office:**	

Country:		Cell:	
ZIP:		Email:	

Section 2. FSTD Information			
A/C Common Name:	CESSNA CE-172	**Manufacturer Name:**	Frasca International, Inc.
A/C Alternative Name:	Cessna 172	**Manufactured Year:**	2012
Qualification Basis:	14 CFR Part 60 (2008), Appendix B	**Manufacture Serial No:**	10319-001
Qualification Level:	5	**Sponsor's FSTD ID:**	10319-001
FSTD Class:	Airplane FTD	**Evaluation Base Month:**	Aug
FSTD Seats Available:	2	**FSTD Convertible to:**	| | |

FSTD Configuration Information	
FSTD Configuration (1):	CE-172-S
FSTD Configuration (2):	
FSTD Configuration (3):	
FSTD Configuration (4):	
FSTD Configuration (5):	

FSTD Engine Information			
Pri. Engine Type / Thrust:	Textron Lycoming IO-360-L2A 180BHP at 2700RPM	**FADEC Version:**	
Alt. Engine Type / Thrust:		**FADEC Version:**	
Alt. Engine Type / Thrust:		**FADEC Version:**	
Alt. Engine Type / Thrust:		**FADEC Version:**	

Flight Instrumentation & Systems	
☐ **NVG**	☐ **Other:**
☐ **CPDLC**	☐ **Other:**
☐ **EFB Class:**	☐ **Other:**

Data Sources & Models	
Flight Control Data: Model/Revision:	Part 60 Alternative Data, Table B2B
Aero Model: Source/Model/Revision:	Part 60 Alternative Data, Table B2B

Visual System			
Image Generator Make/Model:	Frasca/TruVision Global II		
Display Type:	Cross Ckpt, Collimated	**Visual Projector Type:**	LCD
Horizontal Field of View (degs):	210	**Vertical Field of View (degs):**	57

Avionics			
Manufacturer	Garmin		
Model	G1000 w/GFC700 AP		
Standard/Revision	Version 0563.26, version 12.03		

Flight Management System			
Manufacturer:			
Model:			
Type/Revision:			

Motion System	
Manufacturer:	
Type:	
Axis:	0

Airport Qualification Models	
1: Airport / Runways / Taxiway:	
2: Airport / Runways / Taxiway	
3: Airport / Runways / Taxiway	

Visual Ground Segment	
Airport / Landing RW	

Helicopter Non-Airport Landing Areas	
Elevated Surface:	
Confined Landing Area:	
Sloped Surface	

Other National Aviation Authority Qualifications (US-NAA BASA-SIPs Agreements Only)			
NAA Name:			
NAA FSTD ID No:			
NAA Qualification Level:			
NAA Qualification Basis:			

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Designator:	L48S
FAA ID:	1397
Make/Model/Series:	CE-172-S
Evaluation Interval:	36

Except for <u>Non-Qualified</u> 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. <u>Specific use in conjunction with any training program must be approved by the FAA Training Program Approval Authority (TPAA).</u>

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)	☐	☐	
CAT II (Minimums IAW sponsor/operator authorization)	☐	☐	
CAT III (Minimums IAW sponsor/operator authorization)	☐	☐	
Circling Approach	☐	☐	
Windshear Training	☐	☐	
Auto-Coupled Approach	☐	☐	
Auto Go Around	☐	☐	
Auto-Land / Roll-Out Guidance	☐	☐	
TCAS/ACAS I / II	☐	☐	
WX-Radar	☐	☐	
HUD / HGS	☐	☐	
EFVS / SVS	☐	☐	
TAWS (GPWS / EGPWS)	☐	☐	
SMGCS	☐	☐	
Enhanced Taxi Markings	☐	☐	
RWSL / LAHSO	☐	☐	
LPV GPS WAAS ☐ LPV ☐ GPS ☐ WAAS	☐	☐	
RNP/AR	☐	☐	
ADS-B ☐ In	☐	☐	
Full Stall (14CFR Part 60 (2016)/FSTD Directive 2)	☐	☐	
UPRT (14CFR Part 60 (2016)/FSTD Directive 2)	☐	☐	
Icing (14CFR Part 60 (2016)/FSTD Directive 2)	☐	☐	
Realistic Gusting Crosswind (14CFR Part 60 (2016)/FSTD Directive 2)	☐	☐	
Bounced Landing (14CFR Part 60 (2016)/FSTD Directive 2)	☐	☐	

Area/Function/Maneuver	Requested (Sponsor Use)	Qualified (FAA Use Only)	Remarks (Include Partial Task Limitations if Applicable)
Other	☐	☐	
Other	☐	☐	
Other	☐	☐	
Other	☐	☐	

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	☐	☐	
Helicopter External Load Operations	☐	☐	
Helicopter Pinnacle Approach to Landings	☐	☐	
Helicopter Night Vision Maneuvers Class A ☐ , Class B Lens ☐	☐	☐	
Helicopter Category A Takeoffs	☐	☐	
Other	☐	☐	
Other	☐	☐	
Other	☐	☐	
Other	☐	☐	

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).	☑	☑	
Engine Start	☑	☑	
Pre-takeoff Checks.	☑	☑	
In-Flight Maneuvers			
Approach to Stalls	☑	☑	(Level 5 Only)
Engine Failure (procedures only)	☑	☑	(Level 5 Only)
Specific Flight Characteristics incorporated into user's approved flight training program	☐	☐	
Instrument Procedures			
Standard Terminal Arrival / Flight Management System Arrival	☑	☑	(Level 5 Only)
Holding	☑	☑	(Level 5 Only)
Precision Instrument, all engines operating	☑	☑	(Level 5 Only)
Non-Precision Instrument, all engines operating	☑	☑	(Level 5 Only)
Missed Approach	☑	☑	(Level 5 Only)
Landings and Approaches to Landings			
Visual Approaches (normal, steep, shallow) with visual system	☐	☐	(Helicopter Only)

Normal and Abnormal Procedures			
Powerplant	☑	☑	
Fuel System.	☑	☑	
Electrical System	☑	☑	
Environmental and Pressurization Systems	☐	☐	
Fire Detection and Extinguisher Systems	☐	☐	
Navigation and Avionics Systems	☑	☑	
Automatic Flight Control System, Electronic Flight Instrument System, and Related Subsystems.	☑	☑	
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			
After-Landing Procedures	☑	☑	
Rotor brake operation.	☐	☐	(Helicopter Only)
Abnormal/emergency procedures	☑	☑	
Other			
Other	☐	☐	
Other	☐	☐	
Other	☐	☐	
Other	☐	☐	

Narrative