

# 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.

<b>Sponsor</b>	
<b>FAA ID</b>	
<b>Aircraft Designation</b>	
<b>Qualification Document</b>	
<b>Qualification Level</b>	
<b>Expiration Date</b>	

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.

Federal Aviation Administration  
National Simulator Program

FSTD INFORMATION & CONFIGURATION

Sponsor Name:	Liberty University, School of Aeronautics
Designator:	L48S
FAAID:	1396
Make/Model/Series:	CE-172-S
Evaluation Interval:	24

Section 1. Sponsor | FSTD Location | Contact Information

<b>FSTD Location</b>			
Training Facility Name:	Liberty Univeristy Lynchburg Campus		
Address:	205 Arthur S. Demoss DR		
City:	LYNCHBURG		
State/Prov/Terr:	VA		
Country:	USA		
ZIP:	24515		
<b>Local FAA Authority / FAA Training Program Approval Authority (TPAA)</b>			
Name:	Dows, Michael		
Address:	5707 Huntsman Rd		
City:	RICHMOND		
State/Prov/Terr:	VA	Office:	(804) 222-7494
Country:	USA	Cell:	
ZIP:	23250	Email:	Mchael.l.dows@faa.gov
<b>FAA Alternate POC (APM, FTPM, if applicable)</b>			
Name:			
Address:			
City:			
State/Prov/Terr:		Office:	
Country:		Cell:	
ZIP:		Email:	
<b>Sponsor FSTD Management Representative</b>			
Name:	Martin, Kevin		
Address:	205 Arthur S. Demoss DR		
City:	LYNCHBURG		
State/Prov/Terr:	VA	Office:	(434) 592-7739
Country:	USA	Cell:	
ZIP:	24515	Email:	kmartin5@liberty.edu
<b>Sponsor FSTD Local Contact</b>			
Name:	Martin, Kevin		
Address:	205 Arthur S. Demoss DR		
City:	LYNCHBURG		
State/Prov/Terr:	VA	Office:	(434) 592-7739
Country:	USA	Cell:	
ZIP:	24515	Email:	kmartin5@liberty.edu

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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:	10315-001
Qualification Level:	5	Sponsor's FSTD ID:	10315-001
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 Engine Information

Pri. Engine Type / Thrust:	Textron Lycoming IO-360-L2A	FADEC Version:	
Alt. Engine Type / Thrust:		FADEC Version:	
Alt. Engine Type / Thrust:		FADEC Version:	
Alt. Engine Type / Thrust:		FADEC Version:	

Flight Instrumentation & Systems

<input type="checkbox"/> NVG	<input type="checkbox"/> Other:
<input type="checkbox"/> CPDLC	<input type="checkbox"/> Other:
<input type="checkbox"/> EFB Class:	<input type="checkbox"/> 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	Garmin G1000 w/GFC700 AP		
Standard/Revision	HSDB ICD Revision: Rev Y		

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Flight Management System			
Manufacturer:			
Model:			
Type/Revision:			

Motion System	
Manufacturer:	NA
Type:	NA
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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Except for Non-Qualified items in section 4, 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. Specific use in conjunction with any training program must be approved by the FAA Training Program Approval Authority (TPAA).

**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)**

<b>Area/Function/Maneuver</b>	<b>Requested (Sponsor Use)</b>	<b>Qualified (FAA Use Only)</b>	<b>Remarks (Include Partial Task Limitations if Applicable)</b>
CAT I (Minimums IAW sponsor/operator authorization)	<input type="checkbox"/>	<input type="checkbox"/>	
CAT II (Minimums IAW sponsor/operator authorization)	<input type="checkbox"/>	<input type="checkbox"/>	
CAT III (Minimums IAW sponsor/operator authorization)	<input type="checkbox"/>	<input type="checkbox"/>	
Circling Approach	<input type="checkbox"/>	<input type="checkbox"/>	
Windshear Training	<input type="checkbox"/>	<input type="checkbox"/>	
Auto-Coupled Approach	<input type="checkbox"/>	<input 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 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	<input type="checkbox"/>	<input type="checkbox"/>	
Enhanced Taxi Markings	<input type="checkbox"/>	<input type="checkbox"/>	
RWSL / LAHSO	<input type="checkbox"/>	<input type="checkbox"/>	
LPV GPS WAAS <input type="checkbox"/> LPV <input type="checkbox"/> GPS <input type="checkbox"/> WAAS	<input type="checkbox"/>	<input type="checkbox"/>	
RNP/AR	<input type="checkbox"/>	<input type="checkbox"/>	
ADS-B <input type="checkbox"/> In	<input type="checkbox"/>	<input type="checkbox"/>	
Full Stall (14CFR Part 60 (2016)/FSTD Directive 2)	<input type="checkbox"/>	<input type="checkbox"/>	
UPRT (14CFR Part 60 (2016)/FSTD Directive 2)	<input type="checkbox"/>	<input type="checkbox"/>	
Icing (14CFR Part 60 (2016)/FSTD Directive 2)	<input type="checkbox"/>	<input type="checkbox"/>	
Realistic Gusting Crosswind (14CFR Part 60 (2016)/FSTD Directive 2)	<input type="checkbox"/>	<input type="checkbox"/>	
Bounced Landing (14CFR Part 60 (2016)/FSTD Directive 2)	<input type="checkbox"/>	<input type="checkbox"/>	
Other	<input type="checkbox"/>	<input type="checkbox"/>	
Other	<input type="checkbox"/>	<input type="checkbox"/>	
Other	<input type="checkbox"/>	<input type="checkbox"/>	
Other	<input type="checkbox"/>	<input type="checkbox"/>	

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**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)**

<b>Area/Function/Maneuver</b>	<b>Requested (Sponsor Use)</b>	<b>Qualified (FAA Use Only)</b>	<b>Remarks (Include Partial Task Limitations if Applicable)</b>
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 <input type="checkbox"/> , Class B Lens <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Helicopter Category A Takeoffs	<input type="checkbox"/>	<input type="checkbox"/>	
Other	<input type="checkbox"/>	<input type="checkbox"/>	
Other	<input type="checkbox"/>	<input type="checkbox"/>	
Other	<input type="checkbox"/>	<input type="checkbox"/>	

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**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)
<b>Preflight Procedures</b>			
Preflight Inspection (flight deck only).	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Engine Start	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Pre-takeoff Checks.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
<b>In-Flight Maneuvers</b>			
Approach to Stalls	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	(Level 5 Only)
Engine Failure (procedures only)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	(Level 5 Only)
Specific Flight Characteristics incorporated into user's approved flight training program	<input type="checkbox"/>	<input type="checkbox"/>	
<b>Instrument Procedures</b>			
Standard Terminal Arrival / Flight Management System Arrival	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	(Level 5 Only)
Holding	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	(Level 5 Only)
Precision Instrument, all engines operating	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	(Level 5 Only)
Non-Precision Instrument, all engines operating	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	(Level 5 Only)
Missed Approach	<input checked="" type="checkbox"/>	<input checked="" 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"/>	(Helicopter Only)
<b>Normal and Abnormal Procedures</b>			
Powerplant	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Fuel System.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Electrical System	<input checked="" type="checkbox"/>	<input checked="" 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 checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Automatic Flight Control System, Electronic Flight Instrument System, and Related Subsystems.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Flight Control Systems	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Anti-ice and Deice Systems	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Aircraft and Personal Emergency Equipment	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
<b>Emergency Procedures</b>			
Emergency Descent (Max Rate)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Inflight fire and smoke removal	<input type="checkbox"/>	<input type="checkbox"/>	
Rapid Decompression	<input type="checkbox"/>	<input type="checkbox"/>	
Emergency Evacuation	<input type="checkbox"/>	<input type="checkbox"/>	
<b>Post flight Procedures</b>			
After-Landing Procedures	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Rotor brake operation.	<input type="checkbox"/>	<input type="checkbox"/>	
Abnormal/emergency procedures	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
<b>Other</b>			
Other	<input type="checkbox"/>	<input type="checkbox"/>	

Other	<input type="checkbox"/>	<input type="checkbox"/>	
Other	<input type="checkbox"/>	<input type="checkbox"/>	





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FSTD Evaluation Report

<b>Evaluation End Date:</b>	8/13/2019 4:30:00 PM
<b>FAA ID</b>	1396
<b>Make/Model/Series:</b>	CE-172-S
<b>Sponsor:</b>	Liberty University, School of Aeronautics
<b>Location:</b>	205 Arthur S. Demoss DR VA, LYNCHBURG 24515
<b>Evaluating Inspector:</b>	Brackin, Jon;
<b>Evaluation Type:</b>	Other
<b>Qualification Level Authorized:</b>	5

**EVALUATION INFORMATION**

<b>FSTD Configuration(s) Evaluated</b> CE-172-S		
<b>Was This A BASA-SIP Evaluation?</b>  <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO  <b>For Which Authority:</b>		<b>Outcome Status:</b> Qualified  <b>Next Evaluation Date:</b> 8/14/2021
<b>Notes for next evaluation</b>		
Watts, Taylor Frasca		

**EVALUATION TEAM MEMBERS**

<b>FAA Representatives (Other than Evaluating Inspector)</b>	<b>Sponsor Representatives</b>
	Martin, Kevin

**COMMENTS / NOTES**

Relocation eval.

**NON-QUALIFIED TASKS**

Sponsor DR No.	NSP DR No.	Severity Level	Non-Qualified Task(s) / Discrepancy Description	Date Closed:	Corrective Action Taken:
4602	N1	4	Noted prior to my arrival on preflight- Yoke has excessive play very noticeable during approach to landing, causing over correction. QTG test 2.A.1 is also OOT. NQT'd for takeoff and landings.		

**DISCREPANCIES**

<b>Sponsor DR No.</b>	<b>NSP DR No. No.</b>	<b>Severity Level</b>	<b>Discrepancy Description</b>	<b>Date Closed:</b>	<b>Corrective Action Taken: (For closeouts or extensions)</b>
0	D2	0	No control locks or representation of control locks are in the FTD, yet they are on the check list.		

**RECOMMENDATIONS for SPONSOR**

1. Recommend having a fire extinguisher in the sim bay area.
2. Recommend having EXIT signs over all exit doors.

## Terms and Definitions:

### Evaluation Types

TYPE	CODE	REFERENCE	COMMENTS
Initial	I	Part 60.15	Initial evaluation for new simulator
Continuing	C	Part 60.19	Recurrent evaluation – usually every 12 months
Upgrade	U	QPS (11)	Changing simulator qualification from lower to higher level (ILC to Level D)
Special-Focus	SF	QPS (10b,11q)	Evaluation at the discretion of the NSPM to cover safety concerns (NTSB recommendation or problem are for example)
Special-Restore	SR	Part 60.27	Includes Move, Non-Use, Loss of Continuing Qualification, Missing QTG
Special-Surveillance	SS	QPS (11q)	Like SF, used to gather additional data on simulator and sponsor
Special-Update	SU	Part 60.16	Modifications
Special-Other	SO		Other – not mentioned above

### Evaluation Information

#### FSTD Configuration

Indicate the FSTD configuration evaluated where variable FSTD configurations exist under one FAA ID number (i.e. engine types, propeller type)

#### T001

This is commonly referred to as the Statement of Qualification (SOQ). Check “Yes” if a new SOQ was issued. For most continuing and initial

#### T001A

This is sometimes referred to as the Configuration List. Check “Yes” if the T001A has been changed from the previous official version.

#### BASA-SIP

Bilateral Aviation Safety Agreement – Simulator Implementation Procedures. Check “Yes” if the evaluation you are performing will be sent to a  
There are only two current agreements: UK CAA and Transport Canada.

### Sponsor Feedback

Sponsors are encouraged to leave [Feedback](#) Feedback for the NSPM concerning this evaluation or other matters. Select the Feedback link on this