# 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.

Federal Aviation Administration National Simulator Program		Sponsor Name:	Liberty University, School of Aeronautics	
		Designator:	L48S	
		FAAID:	1492	
FSTD INFORMATION & CONFIGURATI	ON	Make/Model/Series:	PA-44-180	
		Evaluation Interval:	24	
	Section 1. S	ponsor   FSTD Location   Contac	t Information	
FSTD Location				
Training Facility Name:	Liberty Uni	veristy Lynchburg Campus		
Address:	205 Arthur	S. Demoss DR		
City:	LYNCHBU	LYNCHBURG		
State/Prov/Terr:	VA	VA		
Country:	USA	USA		
ZIP:	24515	24515		
Local FAA Authority / FAA Training Program	m Approval Authority (TPA	44)		
Name:	Dows, Mct	Dows, Mchael		
Address:	5707 Hunts	5707 Huntsman Rd		
City:	RICHMON	RICHMOND		
State/Prov/Terr:	VA	Office:	(804) 222-7494	
Country:	USA	Cell:		
ZIP:	23250	Email:	Michael.I.dows@faa.gov	

#### FAA Alternate POC (APM, FTPM, if applicable)

Name:		
Address:		
City:		
State/Prov/Terr:	Office:	
Country:	Cell:	
ZIP:	Email:	

#### Sponsor FSTD Management Representative

Name:	Martin, Kevi	Vartin, Kevin		
Address:	205 Arthur S	205 Arthur S. Demoss DR		
City:	LYNCHBUF	LYNCHBURG		
State/Prov/Terr:	VA	VA Office: (434) 592-7739		
Country:	USA	Cell:		
ZIP:	24515	Email:	krmartin5@liberty.edu	

#### Sponsor FSTD Local Contact

Name:	Martin, Kevi	Martin, Kevin		
Address:	205 Arthur S	205 Arthur S. Demoss DR		
City:	LYNCHBURG			
State/Prov/Terr:	VA Office: (434) 592-7739			
Country:	USA	Cell:		
ZIP:	24515	Email:	krmartin5@iberty.edu	

# Federal Aviation Administration<br/>National Simulator ProgramSponsor Name:Liberty University, School of AeronauticsDesignator:L48SFAID:1492Make/Model/Series:PA-44-180Evaluation Interval:24

Section 2. FSTD Information						
A/C Common Name:		PIPER PA-44		Manufacturer Name:		Frasca International, Inc.
AC Aternative Name	:	Piper Seminole		Manufactured Year:		2016
Qualification Basis:		14 CFR Part 60 (2016),	Appendix B	Manufacture Serial No:		11780-001
Qualification Level:		5		Sponsor's FSTD ID:		11780-001
FSTD Class:		Airplane FTD		Evaluation Base Month:		Aug
FSTD Seats Available	9:	2		FSTD Convertible to:		
FSTD Configuration I	nformation					
FSTD Configuration	(1):	PA-44-180				
FSTD Configuration	(2):					
FSTD Configuration	(3):					
FSTD Engine Informa	tion					
Pri. Engine Type / Ti	nrust:	Ly coming O-360-A1H6 1	180 HP @2700	FADEC Version:		
At. Engine Type / Th	irust:			FADEC Version:		
At. Engine Type / Th	irust:			FADEC Version:		
At. Engine Type / Th	irust:			FADEC Version:		
Flight Instrumentation & Systems						
NVG	NVG Other:					
CPDLC Other:						
EFB Class:			Other:			
Data Sources & Mode						
Flight Control Data:		Part 60 Alternative Data				
Aero Model: Source/	Aero Model: Source/Model/Revision: Part 60 Alternative Data, Table B2C					
Visual System						
Image Generator Make/Model: Frasca/TruVision Global II						
Display Type: Cross Ckpt, Collimated			Visual Projector Type: LCD		LCD	
Horizontal Field of View (degs): 210			Vertical Field of View (degs):		57	
Avionics		·				
Manufacturer	Garmin					
Model	G1000					
Standard/Revision						

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Flight Management System			
Manufacturer:			
Model:			
Type/Revision:			

Motion System		
Manufacturer:		
Туре:	Electric	
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:				
NAAFSTD ID No:				
NAA Qualification Level:				
NAA Qualification Basis:				

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· · · · · · · · · · · · · · · · · · ·	Evaluation Interval:	24

Except for <u>Non-Qualified</u> 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. <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 (Mnimums 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					
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)					
Other					

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## FSTD INFORMATION & CONFIGURATION

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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)					
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					

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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)	
Preflight Procedures				
Preflight Inspection (flight deck only).		$\checkmark$		
Engine Start				
Pre-takeoff Checks.				
In-Flight Maneuvers	<u> </u>			
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)	
Mssed 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)				
Inflight fire and smoke removal			Engine Fire Only	
Rapid Decompression				
Emergency Evacuation				
Post flight Procedures				
After-Landing Procedures				
Rotor brake operation.				
Abnormal/emergency procedures Other				
Other				

Other		
Other		



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FSTD Evaluation Report

Evaluation End Date: 8/14/2019 4:30:00 PM FAAID 1492 Make/Model/Series: PA-44-180 Sponsor: Liberty University, School of Aeronautics 205 Arthur S. Demoss DR VA, Location: LYNCHBURG 24515 Evaluating Inspector: Brackin, Jon; Evaluation Type: Other **Qualification Level** 5 Authorized:

	EVALUATION INFORMATION		
FSTD Configuration(s) Evaluated PA-44-180			
Was This A BASA-SIP Evaluation? For Which Authority:	☐ YES ☑ NO	Outcome Status: Next Evaluation Date:	Qualified 8/16/2021
Notes for next evaluation			
Watts, Taylor Frasca Hewitt, Jonathan SME/IOS			

EVALUATION TEAM MEMBERS				
FAA Representatives (Other than Evaluating Inspector) Sponsor Representatives				
	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:	

	DISCREPANCIES								
Sponsor DR No.	NSP DR No. No.	Severity Level	Discrepancy Description	Date Closed:	Corrective Action Taken: (For closeouts or extensions)				
0	D1	2	Blend-zones need adjusting.		Close per SQMS				
	D2	1	Visual Screen needs cleaning.		Close per SQMS				
	D3	1	MQTG FSTD information page has the wrong visual system listed.		Close per SQMS				
	D4	1	Visuals are aliasing within the airport environment.		Close per SQMS				

RECOMMENDATIONS for SPONSOR

# Terms and Definitions:

# Evaluation Types

TYPE	CODE	REFERENCE	COMMENTS
Initial	I	Part 60.15	Initial evaluation for new simulator
Continuing	С	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 ty

## <u>T001</u>

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

## <u>T001A</u>

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. Click "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