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: Western Michigan University

Location: Battle Creek

Aircraft Type: CIRRUS-SR20-SR20 **FAA Identification Number:** 1427

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

Qualification Level:5

Issued by the National Simulator Program on May 31, 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 <u>June 30, 2019</u>.

Sponsor: Western Michigan University,

College of Aviation

FSTD ID: 1427

Aircraft Type: Cirrus SR20 Level 5 FTD

Sponsor Submission	on Date: 03/31/2016 s	uhmissions to: 0-450	O-AFS205-NSP-SIMULATOR-SCHEDULING @faa.gov		
Ороноот Опринози	Section 1. FSTD Sp	<u> </u>			
Sponsor Name:	Western Michigan University College of Aviation	FSTD Location:			
Address:	1903 West Michigan Avenue	Physical Address:	155 North Helmer Road		
City:	Kalamazoo	City:	Battle Creek		
State/Prov/Terr:	MI	State:	MI		
Country:	USA	Country:	USA		
ZIP:	49008-5314	ZIP:	49037		
Sponsor ID No: (FAA Certificate Number)	JX8S258Q	Nearest Airport: (Apt Code)	KBTL		
FAA Training Progra	am Approva <mark>l Authority: (TPAA)</mark>				
Name:	Marc Webber	Year			
Address:	3196 Kraft Avenue SE	Office Phone	616-974-2517		
City:	Gra <mark>nd</mark> Rapids	Cell:	269-352-4002		
State/Prov/Terr:	MI	Fax:	616-940-3140		
Zip:	49 <mark>51</mark> 2	Email:	marc.webber@faa.gov		
FAA Aircrew Progra	ım <mark>Man</mark> ager (APM) or Fleet <mark>Training Program Ma</mark>	anager (FTPM)	44		
Name:					
Address :		Office Phone			
City:		Cell:	17 /		
State/Prov/Terr:		Fax:			
ZIP:		Email:			
FSTD Managemer	nt Repre <mark>sentative::</mark>		.0		
Name:	Russ Kavalhuna, J.D.				
Address 1:	237 North Helmer Road	Office Phone	269-964-9336		
City:	Battle Creek	Cell:	269-377-5031		
State/Prov/Terr:	Michigan	Fax:	269- 964-4676		
ZIP:	49037	Email:	Russell.kavalhuna@wmich.edu		
FSTD Contact:					
Name:	William M. Feenstra				
Address 1:	237 North Helmer Road	Office Phone	269-964-8790		
City:	Battle Creek	Cell:	269-209-3589		
State/Prov/Terr:	MI	Fax:	269-964-4676		
ZIP:	49037	Email:	William.feenstra@wmich.edu		

Sponsor: Western Michigan University,

College of Aviation

FSTD ID: 1427

Aircraft Type: Cirrus SR20 Level 5 FTD

Section 2. FSTD Information						
Aircraft make/model/series:	Cirrus SR	20	A/C Common Name:	Cirru	s SR20	
Qualification Basis: Qualification Level:	Part 60 Ch	ange1	Manufacture Serial No.:	7568-	-001	
Base Month: MARCH		ight Simulator (FFS)	Sponsor's	7568-	-001	
		Training Device (FTD)	FSTD ID:			
National Aviation Authority	/ Qualificat	ion (For BASA-SIP Evalua	ations only):	•		
NAA Name:	N/A					
NAA FSTD ID No:	N/A		NAA Qualification Basis:		N/A	
NAA Qualification Level:	N/A					
Technical Information:	11	NL	AL			
FAA FSTD ID No: 1427 (If Applicable)	Convertib	le FSTD: ☐Yes	FSTD Manufacturer:		Frasca International, Inc.	
⊠eMQTG	Conv. FAA	A FSTD ID No.	Date of Manufa	cture:	03/01/20 <mark>15</mark>	
FSTD Configurations:	Cirrus SR	20			10	
Pri. Engine Type/Thrust:	Pri. Engine Type/Thrust: Teledyne Continental IO-360-ES			A I	N/A	
Alt. Engine Type/Thrust:	/ 200hp @	2700 rpm				
Flight Instrumentation/Sys	tems:	⊠EFIS □HUD/HG	S 🗆 EVS 🗆	WY D	adar 🗆 NVG	
		The Control of the Co				
		⊠GPS ⊠ GPWS			Ver: CPDLC	
		☐ EFB Class:		Other:		
FSTD seats available:3	2 (pilot /	copilot) and 1	Flt. control data revision: Frasca International			
	IOS cab	seat for	Document CERT149284/Cirrus SR20 Flight Test Report/Rev A			
	instructo	or / inspector	Report/Rev A			
FSTD host computer: Intel Core i7-4930K, Win7 Pro 64 bit			Aero model/data: : Frasca International Document CERT149284/Cirrus SR20 Flight Test Report/Rev A			
Visual image generator: F	rasca <mark>TruV</mark> i	sion Global	Avionics Type/Suite: Avidyne Entegra			
Visual system display: 3-channel, 220-deg direct- projection			Avionics Std/Rev: R9.3			
Visual projector: 3 x Sony VPL-FHZ555 LCD Laser			FMS: FMS900w			
			Motion system: N/A			
Airport Qualification Models If illustrations or other presentations are attached please specify:					are attached please specify:	
Airport Qualification Model 1 / N/A						
Available In-Use Runways /Taxiway:						
Airport Qualification Model 2 / N/A						
Available In-Use Runways /Taxiway:						
Airport Qualification Model 3 / N/A						
Available In-Use Runways Taxiway:	/					
Visual Ground Segment:		N/A	N/A			
	Airport Designator	Landing Run	way			

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Aircraft Type: Cirrus SR20 Level 5 FTD

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): WEBBER			
Area/Function/Maneuver	Requested (Sponsor Use)	Qualified (FAA Use Only)	Remarks (Including Partial Task Limitations)
CAT I: (RVR 2400/1800 ft. DH200 ft)	\boxtimes		To missed approach
CAT II: (RVR 1200 ft. DH 100 ft)			
CAT III: (lowest minimum evaluated) RVR, DH ft.			
Circling Approach : Arpt/Appr/Ldg RW	\boxtimes		To missed approach
Windshear Training:			
Auto-coupled Approach			To missed approach
Auto Go Around			
Auto-land / Roll Out Guidance			
TCAS/ACAS I / II			
WX-Radar WX-Radar			
HUD / HGS			
EFVS			- //
TAWS (GPWS / EGPWS)	\boxtimes		
SMGCS: Arpt <u>/</u> Taxi Route, Visibility, mono/bidirectional			
Enhanced Taxi Markings: Arpt <u>/</u> Taxi Route	\boxtimes		
□ LPV □ GPS □ WAAS	\boxtimes		
RNP/AR			
ADS-B			

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FSTD ID: 1427

Aircraft Type: Cirrus SR20 Level 5 FTD

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			
1 0 7				
Section 3c. Level 4 & 5 FSTD OnlyOptionally Quality Table B1B and D1B.	fied Maneuvers,	Procedures, Ta	sks, and Functions as defined	
Area/Function/Maneuver	Requested (Sponsor Use)	Qualified (FAA Use Only)	Remarks (Including Partial Task Limitations)	
Preflight Procedures	(openior cos)	(17210000111)		
Preflight Inspection (flight deck only).	\boxtimes			
Engine Start	\boxtimes		or I	
Pre-takeoff Checks.	\boxtimes			
In-flight Maneuvers	1	1//		
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	TRP			
Standard Terminal Arrival/Flight Management System Arrival			Level 5 Only	
Holding		\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	\boxtimes	\boxtimes	Level 5	
Normal and Abnormal Procedures				
Powerplant	\boxtimes	\boxtimes		
Fuel System.	\boxtimes	\boxtimes		

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Area/Function/Maneuver	Requested (Sponsor Use)	Qualified (FAA Use Only)	Remarks (Including Partial Task Limitations)
Electrical System.	\boxtimes	\boxtimes	
Environmental and Pressurization Systems	\boxtimes	\boxtimes	
Fire Detection and Extinguisher Systems	\boxtimes	\boxtimes	
Navigation and Avionics Systems	\boxtimes	\boxtimes	
Automatic Flight Control System, Electronic Flight Instrument System, and Related Subsystems.	\boxtimes	\boxtimes	
Flight Control Systems	\boxtimes	\boxtimes	
Anti-ice and Deice Systems			
Aircraft and Personal Emergency Equipment			
Emergency Procedures	1	1	
Emergency Descent (Max Rate)	\boxtimes		Level 5 Only
Inflight fire and smoke removal			Level 5 Only
Rapid Decompression			Level 5 Only
Emergency Evacuation			
Post flight Procedures.		X I	
After-Landing Procedures	\boxtimes		
Rotor brake operation.			Helicopter only
Abnormal/emergency procedures	\boxtimes		
			71
		200	

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.	