

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: 1425

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

Qualification Level: 5

Issued by the National Simulator Program
on May 9, 2017.

A handwritten signature in blue ink that reads "Lawrence McDonald".

Lawrence McDonald

Manager, National Simulator Program
Federal Aviation Administration

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 June 30, 2018.

Federal Aviation Administration National Simulator Program Statement of Qualification	Sponsor: Western Michigan University, College of Aviation FSTD ID: 1425 Aircraft Type: Cirrus SR20 Level 5 FTD
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Sponsor Submission Date: 03/25/2016 Submissions to: 9-ASO-AFS205-NSP-SIMULATOR-SCHEDULING@faa.gov

Section 1. FSTD Sponsor Information

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 Program Approval Authority: (TPAA)

Name:	Marc Webber		
Address:	3196 Kraft Avenue SE	Office Phone	616-974-2517
City:	Grand Rapids	Cell:	269-352-4002
State/Prov/Terr:	MI	Fax:	616-940-3140
Zip:	49512	Email:	marc.webber@faa.gov

FAA Aircrew Program Manager (APM) or Fleet Training Program Manager (FTPM)

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

FSTD Management Representative::

Name:	Russ Kalvalhuna, 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

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Section 2. FSTD Information			
Aircraft make/model/series:	Cirrus SR20	A/C Common Name:	Cirrus SR20
Qualification Basis:	Part 60 Change1	Manufacture Serial No.:	7567-001
Qualification Level:	<u>Level 5</u>	Sponsor's FSTD ID:	7567-001
Base Month: MARCH	<input type="checkbox"/> Full Flight Simulator (FFS) <input checked="" type="checkbox"/> Flight Training Device (FTD)		
National Aviation Authority Qualification (For BASA-SIP Evaluations only):			
NAA Name:	N/A		
NAA FSTD ID No:	N/A	NAA Qualification Basis:	N/A
NAA Qualification Level:	N/A		
Technical Information:			
FAA FSTD ID No: 1426 (If Applicable)	Convertible FSTD: <input type="checkbox"/> Yes	FSTD Manufacturer:	Frasca International, Inc.
<input checked="" type="checkbox"/> eMQTG	Conv. FAA FSTD ID No.	Date of Manufacture:	03/01/2015
FSTD Configurations:	Cirrus SR20		
Pri. Engine Type/Thrust:	Teledyne Continental IO-360-ES	FADEC Version	N/A
Alt. Engine Type/Thrust:	/ 200hp @ 2700 rpm		
Flight Instrumentation/Systems:	<input checked="" type="checkbox"/> EFIS <input type="checkbox"/> HUD/HGS <input type="checkbox"/> EVS <input type="checkbox"/> WX Radar <input type="checkbox"/> NVG <input checked="" type="checkbox"/> GPS <input checked="" type="checkbox"/> GPWS <input checked="" type="checkbox"/> FMS <input type="checkbox"/> TCAS Ver: <input type="checkbox"/> CPDLC <input type="checkbox"/> EFB Class: <input type="checkbox"/> Other:		
FSTD seats available:3	2 (pilot / copilot) and 1 IOS cab seat for instructor / inspector	Flt. control data revision: Frasca International Document CERT149284/Cirrus SR20 Flight Test 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: Frasca TruVision 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: <input type="checkbox"/>			
Airport Qualification Model 1 / Available In-Use Runways /Taxiway:	N/A		
Airport Qualification Model 2 / Available In-Use Runways /Taxiway:	N/A		
Airport Qualification Model 3 / Available In-Use Runways / Taxiway:	N/A		
Visual Ground Segment:	N/A Airport Designator	N/A Landing Runway	

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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): TPAA

Area/Function/Maneuver	Requested (Sponsor Use)	Qualified (FAA Use Only)	Remarks (Including Partial Task Limitations)
CAT I: (RVR 2400/1800 ft. DH200 ft)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	To missed approach
CAT II: (RVR 1200 ft. DH 100 ft)	<input type="checkbox"/>	<input type="checkbox"/>	
CAT III: (lowest minimum evaluated) RVR, DH ft.	<input type="checkbox"/>	<input type="checkbox"/>	
Circling Approach : Arpt/Appr/Ldg RW	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	To missed approach
Windshear Training:	<input type="checkbox"/>	<input type="checkbox"/>	
Auto-coupled Approach	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	To missed approach
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 checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
SMGCS: Arpt/Taxi Route, Visibility, mono/bidirectional	<input type="checkbox"/>	<input type="checkbox"/>	
Enhanced Taxi Markings: Arpt/Taxi Route	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/> LPV <input checked="" type="checkbox"/> GPS <input checked="" type="checkbox"/> WAAS	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
RNP/AR	<input type="checkbox"/>	<input type="checkbox"/>	
ADS-B <input type="checkbox"/> In	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	

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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	<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 Evaluated with Class A Lens <input type="checkbox"/> Class B Lens <input type="checkbox"/> NVG Confined Area Location:	<input type="checkbox"/>	<input type="checkbox"/>	
Helicopter Category A Takeoffs	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	
Section 3c. Level 4 & 5 FSTD Only --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 (Including Partial Task Limitations)
Preflight Procedures			
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"/>	
In-flight Maneuvers			
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 the user's approved flight training program	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Instrument Procedures			
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
Landings and Approaches to Landings			
Visual Approaches (normal, steep, shallow) with visual system	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Level 5
Normal and Abnormal Procedures			
Powerplant	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Fuel System.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

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Area/Function/Maneuver	Requested (Sponsor Use)	Qualified (FAA Use Only)	Remarks (Including Partial Task Limitations)
Electrical System.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Environmental and Pressurization Systems	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Fire Detection and Extinguisher Systems	<input checked="" type="checkbox"/>	<input checked="" 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"/>	
Emergency Procedures			
Emergency Descent (Max Rate)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Level 5 Only
Inflight fire and smoke removal	<input type="checkbox"/>	<input type="checkbox"/>	Level 5 Only
Rapid Decompression	<input type="checkbox"/>	<input type="checkbox"/>	Level 5 Only
Emergency Evacuation	<input type="checkbox"/>	<input type="checkbox"/>	
Post flight Procedures.			
After-Landing Procedures	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Rotor brake operation.	<input type="checkbox"/>	<input type="checkbox"/>	Helicopter only
Abnormal/emergency procedures	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	

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 <u>NOT</u> Qualified	
Area/Function/Maneuver	Remarks
1.	
2.	
3.	
4.	
5.	
6.	