

# 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.

FSTD INFORMATION & CONFIGURATION

Sponsor Name:	Western Michigan University
Designator:	JX8S
FAAID:	1426
Make/Model/Series:	CIRRUS-SR20-SR20
Evaluation Interval:	36

Section 1. Sponsor | FSTD Location | Contact Information

FSTD Location

Training FacilityName:	WMU-Battle Creek Campus Flight Simulator Lab
Address:	155 HELMER RD N (W.K. Kellogg Airport East Side)
City:	BATTLE CREEK
State/Prov/Terr:	MI
Country:	USA
ZIP:	49037

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

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

FAA Alternate POC (APM, FTPM, if applicable)

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

Sponsor FSTD Management Representative

Name:	Feenstra, William		
Address:	237 North Helmer Road		
City:	BATTLE CREEK		
State/Prov/Terr:	MI	Office:	(269) 964-8790
Country:	USA	Cell:	(269) 209-3589
ZIP:	49037	Email:	William.feenstra@wmich.edu

Sponsor FSTD Local Contact

Name:	Zoch, Jacob		
Address:	237 North Helmer Road		
City:	BATTLE CREEK		
State/Prov/Terr:	MI	Office:	(269) 964-3951
Country:	USA	Cell:	(269) 719-7187
ZIP:	49037	Email:	jake.zoch@wmich.edu

FSTD INFORMATION & CONFIGURATION

Sponsor Name:	Western Michigan University
Designator:	JX8S
FAA ID:	1426
Make/Model/Series:	CIRRUS-SR20-SR20
Evaluation Interval:	36

Section 2. FSTD Information

A/C Common Name:	CIRRUS CIRRUS-SR20	Manufacturer Name:	
A/C Alternative Name:	CIRRUS-SR20-SR20	Manufactured Year:	2015
Qualification Basis:	14 CFR Part 60 (2008), Appendix B	Manufacture Serial No:	
Qualification Level:	5	Sponsor's FSTD ID:	7567
FSTD Class:	Airplane FTD	Evaluation Base Month:	Mar
FSTD Seats Available:	1	FSTD Convertible to:	

FSTD Configuration Information

FSTD Configuration (1):	CIRRUS-SR20-SR20
FSTD Configuration (2):	
FSTD Configuration (3):	

FSTD Engine Information

Pri. Engine Type / Thrust:		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:	NULL
Aero Model: Source/Model/Revision:	

Visual System

Image Generator Make/Model:		Visual Projector Type:	CRT
Display Type:	Cross Ckpt, Collimated	Vertical Field of View (degs):	0
Horizontal Field of View (degs):	0		

Avionics

Manufacturer			
Model			
Standard/Revision			

FSTD INFORMATION & CONFIGURATION

Sponsor Name:	Western Michigan University
Designator:	JX8S
FAA ID:	1426
Make/Model/Series:	CIRRUS-SR20-SR20
Evaluation Interval:	36

**Flight Management System**

Manufacturer:			
Model:			
Type/Revision:			

**Motion System**

Manufacturer:	
Type:	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:			
NAA FSTD ID No:			
NAA Qualification Level:			
NAA Qualification Basis:			

Federal Aviation Administration  
National Simulator Program

FSTD INFORMATION & CONFIGURATION

Sponsor Name:	Western Michigan University
Designator:	JX8S
FAA ID:	1426
Make/Model/Series:	CIRRUS-SR20-SR20
Evaluation Interval:	36

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)			
Area/Function/Maneuver	Requested (Sponsor Use)	Qualified (FAA Use Only)	Remarks (Include Partial Task Limitations if Applicable)
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 / SVS	<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"/>	

Federal Aviation Administration  
National Simulator Program

FSTD INFORMATION & CONFIGURATION

Sponsor Name:	Western Michigan University
Designator:	JX8S
FAA ID:	1426
Make/Model/Series:	CIRRUS-SR20-SR20
Evaluation Interval:	36

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

Federal Aviation Administration  
National Simulator Program

FSTD INFORMATION & CONFIGURATION

Sponsor Name:	Western Michigan University
Designator:	JX8S
FAA ID:	1426
Make/Model/Series:	CIRRUS-SR20-SR20
Evaluation Interval:	36

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 type="checkbox"/>	<input type="checkbox"/>	
Engine Start	<input type="checkbox"/>	<input type="checkbox"/>	
Pre-takeoff Checks.	<input type="checkbox"/>	<input type="checkbox"/>	
<b>In-Flight Maneuvers</b>			
Approach to Stalls	<input type="checkbox"/>	<input type="checkbox"/>	(Level 5 Only)
Engine Failure (procedures only)	<input type="checkbox"/>	<input 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 type="checkbox"/>	<input type="checkbox"/>	(Level 5 Only)
Holding	<input type="checkbox"/>	<input type="checkbox"/>	(Level 5 Only)
Precision Instrument, all engines operating	<input type="checkbox"/>	<input type="checkbox"/>	(Level 5 Only)
Non-Precision Instrument, all engines operating	<input type="checkbox"/>	<input type="checkbox"/>	(Level 5 Only)
Missed Approach	<input type="checkbox"/>	<input 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 type="checkbox"/>	<input type="checkbox"/>	
Fuel System	<input type="checkbox"/>	<input type="checkbox"/>	
Electrical System	<input type="checkbox"/>	<input 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 type="checkbox"/>	<input type="checkbox"/>	
Automatic Flight Control System, Electronic Flight Instrument System, and Related Subsystems.	<input type="checkbox"/>	<input type="checkbox"/>	
Flight Control Systems	<input type="checkbox"/>	<input type="checkbox"/>	
Anti-ice and Deice Systems	<input type="checkbox"/>	<input type="checkbox"/>	
Aircraft and Personal Emergency Equipment	<input type="checkbox"/>	<input type="checkbox"/>	
<b>Emergency Procedures</b>			
Emergency Descent (Max Rate)	<input type="checkbox"/>	<input 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 type="checkbox"/>	<input type="checkbox"/>	
Rotor brake operation.	<input type="checkbox"/>	<input type="checkbox"/>	
Abnormal/emergency procedures	<input type="checkbox"/>	<input 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"/>	
Other	<input type="checkbox"/>	<input type="checkbox"/>	

Federal Aviation Administration  
National Simulator Program

FSTD INFORMATION & CONFIGURATION

Sponsor Name:	Western Michigan University
Designator:	JX8S
FAA ID:	1426
Make/Model/Series:	CIRRUS-SR20-SR20
Evaluation Interval:	36

Narrative

---