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	Avenger Flight Training LLC.
FAA ID	1498
Aircraft Designation	B-737-800
Qualification Document	14 CFR Part 60 (2008), Appendix A
Qualification Level	D
Expiration Date	11/30/2025

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:	Avenger Flight Training LLC.				
Designator:	O37X				
FAA ID:	1498				
Make/Model/Series:	B-737-800				
Evaluation Interval:	12				

Section 1. Sponsor FSTD Location Contact Information								
FSTD Location								
Training Facility Name:	AFG l	AFG DFW						
Address:	4649 I	4649 DIPLOMACY RD						
City:	Fort W	vorth						
State/Prov/Terr:	TX							
Country:	USA	USA						
ZIP:	76155							
Local FAA Authority / FAA Training Program	n Appr	oval Authority (TPAA)						
Name:	Power	, Willis						
Address:	8700 F	Freeport Parkway Suite 200B						
City:	Irving							
State/Prov/Terr:	TX	Office:	214 277 8469					
Country:	USA	Cell:	817 657 4788					
ZIP:	75063 Email: willis.h.power@faa.gov							
FAA Alternate POC (APM, FTPM, if applica	ble)							
Name:								
Address:								
City:								
State/Prov/Terr:		Office:						
Country:		Cell:						
ZIP:		Email:						
Sponsor FSTD Management Representative								
Name:	De Le	on, Pablo						
Address:	1450 I	ee Wagener Blvd.						
City:	Fort L	auderdale						
State/Prov/Terr:	FL	Office:						
Country:	USA	Cell:	(954) 483-7614					
ZIP:	33315 Email: pablodeleon@afgsim.com							
Sponsor FSTD Local Contact								
Name:	Sin Quee, Yannique							
Address:	1450 I	ee Wagener Blvd						
City:	Fort Lauderdale							
State/Prov/Terr:	FL	Office:						

Country:	USA	Cell:	(954) 270-6862
ZIP:	33315	Email:	yanniquesinquee@afgsim.com

Section 2. FSTD Information									
A/C Common Name:	BOEING B-737	Manufacturer Name:	CAE						
A/C Alternative Name:	B-737-800	Manufactured Year:	2016						
Qualification Basis:	14 CFR Part 60 (2008), Appendi	109820-1392							
Qualification Level:	D	Sponsor's FSTD ID:	B737#1						
FSTD Class:	Airplane FFS	Evaluation Base Month:	Aug						
FSTD Seats Available:	5	FSTD Convertible to:							
FSTD Configuration Informati									
FSTD Configuration (1):	B-737-800								
FSTD Configuration (2):	800W								
FSTD Configuration (3):									
FSTD Configuration (4):									
FSTD Configuration (5):									
FSTD Engine Information	<u>'</u>								
Pri. Engine Type / Thrust:	CFM56-7B / 27K	FADEC Version:							
Alt. Engine Type / Thrust:		FADEC Version:							
Alt. Engine Type / Thrust:									
Alt. Engine Type / Thrust:	FADEC Version:								
Flight Instrumentation & Syste	ems								
□ _{NVG}		Other:							
□ CPDLC		Other:							
EFB Class:		Other:							
Data Sources & Models									
Flight Control Data:									
Model/Revision:	D611A001 Vol 1 Rev M - Aerody	ynamic Data and Flight							
Aero Model: Source/Model/Revision:	D611A001 Vol 1 Rev M, Vol 6 Rev A, D611A019 Rev H, D611A024 F								
Visual System									
Image Generator Make/Model:	CAE/Tropos XR								
Display Type:	Cross Ckpt, Collimated	Visual Projector Type:	LCoS/LED/DLP						
Horizontal Field of View (degs):	200	Vartical Field of View							

Avionics									
Manufacturer	Rockwell C	Rockwell Collins							
Model									
Standard/Revisi	on Collins								
Flight Manageme	Flight Management System								
Manufacturer:	Smiths								
Model:									
Type/Revision:	U10.8A								
M 41 G 4									
Motion System									
Manufacturer:			CAE						
Type:			Electric						
Axis:			6						
Airport Qualifica	tion Models								
1: Airport / Run	ways / Taxiway	:		KJ	FK / ALL / ALL				
2: Airport / Run	ways / Taxiway	,		KI	LAX / ALL / ALL				
3: Airport / Run	ways / Taxiway	r		KS	SEA / ALL / ALL				
Visual Ground So	egment								
Airport / Landir	ng RW			KJ	FK 04R				
Helicopter Non-A	irport Landing	g Areas							
Elevated Surfac	e:								
Confined Landi	Confined Landing Area:								
Sloped Surface									
Other National Aviation Authority Qualifications (US-NAA BASA-SIPs Agreements Only)									
NAA Name:									
NAA FSTD ID N	No:								
NAA Qualificati	on Level:								
NAA Qualificati	on Basis:								
1					1				

Federal Aviation Administration National Simulator Program

FSTD INFORMATION & CONFIGURATION

Sponsor Name:	Avenger Flight Training LLC.				
Designator:	O37X				
FAA ID:	1498				
Make/Model/Series:	B-737-800				
Evaluation Interval:	12				

Except for Non-Qualified items, 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)	V	V				
CAT II (Minimums IAW sponsor/operator authorization)	V	V				
CAT III (Minimums IAW sponsor/operator authorization)	V	V				
Circling Approach	V	V	demo KMEM Rwy 27 to 18R			
Windshear Training	V	V				
Auto-Coupled Approach	V	✓				
Auto Go Around	V	✓				
Auto-Land / Roll-Out Guidance	V	✓	No Roll Out Guidance			
TCAS/ACAS I / II 7.1	V	✓				
WX-Radar	V	√				
HUD / HGS	V	V				
EFVS / SVS						
TAWS (GPWS / EGPWS)	V	V				
SMGCS	V	V	demo KSEA: Gate N 16, Spot 55, B, C, RWY16L; RWY16C, Q or P, B, Spot 55, < RVR 500, mono-directional)			
Enhanced Taxi Markings	V	V				
RWSL / LAHSO	V	V	demo RWSL-KSEA/LAHSO-KDFW			
LPV GPS WAAS LPV GPS WAAS	V	V	GPS. No WAAS			
RNP/AR	V	V				
ADS-B In						
Full Stall (14CFR Part 60 (2016)/FSTD Directive 2)	V	7				
UPRT (14CFR Part 60 (2016)/FSTD Directive 2)	V	7				
Icing (14CFR Part 60 (2016)/FSTD Directive 2)	V	7				
Realistic Gusting Crosswind (14CFR Part 60 (2016)/FSTD Directive 2)	V	V				
Bounced Landing (14CFR Part 60 (2016)/FSTD Directive 2)	V	V				

Other			
Other			
Other			
Other			
		·	
			FSTD Qualified Maneuvers, Procedures, Tasks, and Functions dix (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			
Area/Function/Maneuver	(as Requested (Sponsor	defined in Ta Qualified (FAA Use	ble B1B and D1B) Remarks (Include Partial Task Limitations if Applicable)
Preflight Procedures	Use)	Only)	(include Fartar Fask Elimitations if Applicable)
Preflight Inspection (flight deck only).			
Engine Start			
Pre-takeoff Checks.			
In-Flight Maneuvers			
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		Ш	(Level 5 Only)
Holding			(Level 5 Only)
Precision Instrument, all engines operating			(Level 5 Only)
Non-Precision Instrument, all engines operating			(Level 5 Only)
Missed Approach			(Level 5 Only)
Landings and Approaches to Landings Visual Approaches (normal, steep,			
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)		(Level 5 Only)
Inflight fire and smoke removal		(Level 5 Only)
Rapid Decompression		(Level 5 Only)
Emergency Evacuation		
Post flight Procedures		
After-Landing Procedures		
Rotor brake operation.		(Helicopter Only)
Abnormal/emergency procedures		
Other		
Narrative		



Evaluation End Date:	10/8/2024
FAA ID:	1498
Make/Model/Series:	B-737-800
Sponsor:	Avenger Flight Training LLC.
Location:	4649 DIPLOMACY RD Fort Worth TX 76155
Evaluating Inspector:	Chiabotti, Mike
Evaluation Type:	Continuing
Qualification Level Authorized:	D

FSTD Evaluation Report

EVALUATION INFORMATION								
FSTD Co	onfiguration(s) Evaluated:	B-737-800					
Was This	A BASA-SIP	Evaluation?	YES NO			Outcome St	tatus:	Qualified
	For Which	h Authority:						
			EVALUATIO	N T	EAM MEMB	ERS		
FAA Repres	sentatives (Ot	her than Eval	uating Inspector)		Sponsor Rep	oresentatives		
					De Leon,	Pablo		
					Sin Quee, Yannique			
			EVALUATION		ODT COM	MENITO.		
			EVALUATION 1	(EF	ORI COMM	IEN15		
IOS P DeLec	on							
SME B Swar	SME B Swanson							
Dan Fortino								
NON-QUALIFIED TASKS								
Sponsor	NSP DR	Severity	Non-Qualified Task(s			Date		Corrective Action Taken

NON-QUALIFIED TASKS					
Sponsor	NSP DR	Severity	Non-Qualified Task(s) / Discrepancy	Date	Corrective Action Taken
DR No.	No.	Level	Description	Closed	

DISCREPANCIES					
Sponsor DR No.	NSP DR No.	Severity Level	Discrepancy Description	Date Closed	Corrective Action Taken (For closeouts or extensions)
0	D44	3	Motion Noise very apparent on the ground taxing and during flight maneuvers such as stalls and UPRT.		Close per SQMS.
	D45	2	UPRT maneuver nose high with a bank, 10000 feet; got a stab out of trim light when trimming was finished.		Close per SQMS.
	D46	2	Captain's seat vertical adjustment handle not releasing occasionally for		Close per SQMS.

DISCREPANCIES					
Sponsor DR No.	NSP DR No.	Severity Level	Discrepancy Description	Date Closed	Corrective Action Taken (For closeouts or extensions)
			adjustment.		
	D47	2	KMEM 36R. Gusty crosswinds are not noticeable prior to takeoff.		Close per SQMS.
	D48	3	Take off windshear labeled non recoverable is recoverable		Close per SQMS.
	D49	2	Patchy ice is subjectively to slippery.		Close per SQMS.
	D50	2	KSEA Gate N 16: SMGCS pushback does not leave aircraft able to taxi to spot 55		Close per SQMS.

RECOMMENDATIONS FOR SPONSOR

Terms and Definitions:

Evaluation Types

ТҮРЕ	REFERENCE	COMMENTS
ACQP	60.19	An alternative continuing evaluation.
ACQP+MOD	60.19, 60.16	An alternative continuing evaluation that includes a modification(s) check.
AIQP	60.15	An alternative initial qualification. Typically performed via virtual means.
AIQP Relook	60.15 M-20-19	An evaluation following AIQP that allows an FAA Aviation Safety Inspector to conduct a hands-on qualitative assessment of the FSTD.
Continuing	60.19	Recurrent evaluation (CQ).
CQ+EASA	60.19, 60.37	Recurrent evaluation that includes EASA special conditions. This category used as indicator to ensure we line up dates during the implementation period of the EASA agreement.
CQ + MOD	60.19, 60.16	Combination of continuing evaluation and a modification evaluation.
Focus	QPS (10b,11q)	Evaluation at the discretion of the NSPM to cover safety related concerns.
Initial	60.15	Initial evaluation of FSTD.
Modification	60.16	Evaluation to check FSTD Modification(s).
Modification- Virtual	60.16	Evaluation to check FSTD Modification(s). Performed via virtual means.
Restore	60.27	Includes Move, Non-Use, Loss of Continuing Qualification, Missing QTG.
Surveillance	QPS (11q)	Observation of the FSTD training session(s), FSTD records, or sponsor processes.
Upgrade	QPS (11)	Changing simulator qualification from lower to higher level (ILC to Level D for example).
Update	60.16	Used for Modifications mainly. Mostly replaced by "Modification" type listed above.
Special		Other – not mentioned above
Other		Other – not mentioned above

FSTD Configuration

Indicate the FSTD configuration evaluated where variable FSTD configurations exist under one FAA ID number (i.e. engine types, propeller types, avionic suites or FMS, etc).

BASA-SIP

Bilateral Aviation Safety Agreement – Simulator Implementation Procedures. Click "Yes" if the evaluation you are performing will be sent to another National Aviation Authority. Selecting BASA-SIP and identifying the appropriate NAA indicates that all special conditions have been evaluated in accordance with the applicable agreement.

Sponsor Feedback

Sponsors are encouraged to submit feedback to the NSPM concerning this evaluation or other matters. Select the Feedback link at the NSP Public Website.

NSP Evaluation Discrepancy Instructions:

- Sponsors should updated the NSP with the sponsor's designated DR number for each discrepancy as soon as practical using NSP Form T069. Also use this form to report discrepancy or NQT closures when required or for extension requests.
- Where the sponsor is operating under an NSPM-Authorized DPS, an update reflecting status must be submitted if a self-authorized extension is being exercised.
- The NSP requires an update when any of the following conditions exist:
 - -- All discrepancies with required closure period in the action-required column have been corrected.
 - -- A discrepancy with a "Non-qualified Task" is corrected.
 - -- It is determined that a discrepancy with a required closure period will not be corrected in the prescribed time and an extension is being requested.
 - -- **DPS Sponsors Only:** If a self-authorized extension is being exercised.
- Extension requests must include: An explanation of accomplishments to date, work remaining, and proposed further action; in the "Extension Request" field, enter the additional time requested.
- Sponsors are urged to submit the request at least two days prior to the discrepancy due date. If the discrepancy due date is on a
 Saturday, Sunday, or a holiday, the FAA will extend the deadline until the next business day. The NSP should respond to the
 sponsor's request for extension within five business days. During this time, the sponsor retains implied authorization from the NSP
 to continue operating the FSTD.

Severity Levels:

Severity Level	Description	Example(s)
0	No severity.	Research and correct DRs still open, i.e. sponsor has not made determination of the issue. FSTD evaluation findings or observations that require no corrective action.
1	Low severity. Very minor issue with no FSTD fidelity impact.	Dirty windscreens, worn seats, worn seatbelts, one (of two) bulbs burned out, scratched smoke googles, etc.
2	Minor Visual issue or lights burned out (both bulbs), missing emergency equipment, etc.	Blend zones, color balance, aliasing, missing large/major geographical items.
3	Single minor sub-system inoperative (most normal DRs).	Electrical, Air Systems, Hydraulic, Auto-flight, navigation (FMS), systems inoperative or malfunctions not working correctly (possibly affecting training requiring restriction or work-around). Single QTG failure not resolved during evaluation.
4	Single major FSTD system failure during evaluation (with reset).	Motion, Visual or Control Loading failure during eval with a reset. Any cockpit freeze-ups requiring a system reset, reposition, or reload. Multiple QTG failures not resolved during evaluations.
5	Most severe. Multiple major FSTD system failures during evaluation.	Multiple (two or more) major system failures with resets or any one failure unable to be reset. Also, FSTD AOG before or during the evaluation.

Discrepancy closures not requiring NSP notification:

Notification of a discrepancy closure is not required if the "Action Required" block states, "Close per Sponsor's SQMS" with no closure period indicated. The sponsor should document the discrepancy in the sponsor's discrepancy log, prioritize, and take corrective actions in accordance with their Simulator Quality Management System (SQMS). The NSP may periodically conduct inspections to review the status of these discrepancies. The determination to assign a specific closure date will be at the discretion of the evaluating NSP Inspector or Engineer taking the following criteria into consideration:

- -- Severity and number of discrepancies identified during an NSP evaluation
- -- Severity and number of open discrepancies in the sponsor's discrepancy log
- -- Demonstrated effectiveness of the sponsor's Quality Management System

Sponsor Reportable MMI Instructions:

Sponsors should use NSP Form T068 to report MMI status in accordance with \$60.25 when an MMI condition has exceeded 30 days and the sponsor is seeking authorization to operate the FSTD. If you are unsure whether a reportable MMI situation exists, see FSTD Guidance Bulletin 08-01.

- -- Sponsors shall forward a copy of the report to the local Training Program Approval Authority (TPAA)
- -- MMI conditions corrected within the 30-day window do not require NSP notification.
- -- The NSP will respond within five business days. Authorization is implied during this period.

Additional References:

NSP Guidance Bulletin 07-01, Discrepancy Closure and Request for Due Date Extension NSP Guidance Bulletin 08-01, Missing, Malfunctioning, or Inoperative (MMI) Component Reporting