

# 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:	Avenger Flight Training LLC.
Designator:	O37X
FAAID:	69
Make/Model/Series:	DC-10-10
Evaluation Interval:	12

Section 1. Sponsor | FSTD Location | Contact Information

FSTD Location

Training FacilityName:	AFG DFW
Address:	4649 DIPLOMACY RD
City:	FORT WORTH
State/Prov/Terr:	TX
Country:	USA
ZIP:	76155

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

Name:	Power, Willis		
Address:	8700 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 applicable)

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

Sponsor FSTD Management Representative

Name:	De Leon, Pablo		
Address:	1450 Lee Wagener Blvd.		
City:	FORT LAUDERDALE		
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 Lee Wagener Blvd		
City:	FORT LAUDERDALE		
State/Prov/Terr:	FL	Office:	
Country:	USA	Cell:	(954) 270-6862
ZIP:	33315	Email:	yannique.sinqee@afgsim.com

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Section 2. FSTD Information

A/C Common Name:	DOUG DC-10	Manufacturer Name:	Singer-Link
A/C Alternative Name:	DC-10-10	Manufactured Year:	1983
Qualification Basis:	121-14C	Manufacture Serial No:	DC10-10 FFS
Qualification Level:	C	Sponsor's FSTD ID:	Sim#3
FSTD Class:	Airplane FFS	Evaluation Base Month:	Jan
FSTD Seats Available:	6	FSTD Convertible to:	

FSTD Configuration Information

FSTD Configuration (1):	DC-10-10
FSTD Configuration (2):	
FSTD Configuration (3):	
FSTD Configuration (4):	
FSTD Configuration (5):	

FSTD Engine Information

Pri. Engine Type / Thrust:	GE CF6-8D / 41,500 lbs.	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:	DAC 67498 Rev L
Aero Model: Source/Model/Revision:	DAC 67489, dated 11/30/71

Visual System

Image Generator Make/Model:	Rediffusion/SP1		
Display Type:	Mono View, Collimated	Visual Projector Type:	CRT
Horizontal Field of View (degs):	75	Vertical Field of View (degs):	30

Avionics

Manufacturer	Standard Package		
Model			
Standard/Revision			

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**Flight Management System**

Manufacturer:	N/A		
Model:			
Type/Revision:			

**Motion System**

Manufacturer:	Singer LinkHydraulics/6 DOF
Type:	Hydraulic
Axis:	6

**Airport Qualification Models**

1: Airport / Runways / Taxiway:	KEWR / 04R
2: Airport / Runways / Taxiway:	KLAX 07L
3: Airport / Runways / Taxiway:	KMEM 36L / C, D, E /

**Visual Ground Segment**

Airport / Landing RW	KEWR 04R
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**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:			

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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)	<input checked="" type="checkbox"/>	<input checked="" 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 checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	KMEM - RWY27 Circle to RWY18R
Windshear Training	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Auto-Coupled Approach	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Auto Go Around	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Auto-Land / Roll-Out Guidance	<input type="checkbox"/>	<input type="checkbox"/>	
TCAS/ACAS I / II 7.0	<input checked="" type="checkbox"/>	<input checked="" 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 checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	7.0
SMGCS	<input type="checkbox"/>	<input type="checkbox"/>	
Enhanced Taxi Markings	<input type="checkbox"/>	<input type="checkbox"/>	
RWLS / 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"/>	

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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	<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"/>	

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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)
<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"/>	(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"/>	
<b>Post flight Procedures</b>			
After-Landing Procedures	<input type="checkbox"/>	<input type="checkbox"/>	
Rotor brake operation.	<input type="checkbox"/>	<input type="checkbox"/>	(Helicopter Only)
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"/>	

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Narrative

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**Federal Aviation  
Administration**

**FSTD Evaluation Report**

<b>Evaluation End Date:</b>	1/20/2022 4:30:00 PM
<b>FAA ID:</b>	69
<b>Make/Model/Series:</b>	DC-10-10
<b>Sponsor:</b>	Avenger Flight Training LLC.
<b>Location:</b>	2800 VALLEY VIEW LN IRVING TX 75062
<b>Evaluating Inspector:</b>	Dunwoody, Larry
<b>Evaluation Type:</b>	Restore
<b>Qualification Level Authorized:</b>	C

**EVALUATION INFORMATION**

<b>FSTD Configuration(s) Evaluated:</b> DC-10-10 <b>Was This ABASA-SIP Evaluation?</b> <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <b>For Which Authority:</b>	<b>Outcome Status:</b> Qualified <b>Next Evaluation Date:</b> 3/14/2023
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Notes for next evaluation

**EVALUATION TEAM MEMBERS**

FAA Representatives (Other than Evaluating Inspector)	Sponsor Representatives
Doan, Than	Sin Quee, Yannique

**COMMENTS / NOTES**

SME Kevin Hopf  
 FE Bradley Pace  
 IOS Joaquin Torres

**NON-QUALIFIED TASKS**

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

Sponsor DR No.	NSP DR No.	Severity Level	Discrepancy Description	Date Closed	Corrective Action Taken (For closeouts or extensions)
0	D128	0	Aliasing of visual when on top of overcast.		Close per SQMS.
	D129	2	Unable to demonstrate wet Runway.		Close per SQMS.
	D130	2	No blurring effect in rain.		Close per SQMS.
	D131	2	No refocus defocus in rain.		Close per SQMS.
	D132	1	QTG Test 1.3.1.3 Yaw throughput latency OOT.		Close per SQMS.
	D133	1	QTG Test 910 Freq resp. OOT.		Close per SQMS.
	D134	1	QTG Test 920 Leg Balance OOT.		Close per SQMS.
	D135	1	QTG Test 930 Turn around bump OOT.		Close per SQMS.

**RECOMMENDATIONS FOR SPONSOR**

**Terms and Definitions:**

**Evaluation Types**

TYPE	REFERENCE	COMMENTS
Continuing	Part 60.19	Recurrent evaluation
CQ + MOD	Part 60.19, Part 60.16	Combination of recurrent evaluation and a modification evaluation
Focus	QPS (10b,11q)	Evaluation at the discretion of the NSPM to cover safety concerns (NTSB recommendation or problem are for example)
Initial	Part 60.15	Initial evaluation for new simulator
Modification	Part 60.16	Evaluation to check FSTD Modification(s)

Restore	Part 60.27	Includes Move, Non-Use, Loss of Continuing Qualification, Missing QTG
Surveillance	QPS (11q)	Like Focus, used to gather additional data on simulator and sponsor
Upgrade	QPS (11)	Changing simulator qualification from lower to higher level (ILC to Level D)
Update	Part 60.16	Modifications
Special		Other – not mentioned above
Other		Other – not mentioned above

### **FSTD Configuration**

Indicate the FSTD configuration evaluated where variable FSTD configurations exist under one FAAID number (i.e. engine types, propeller types, avionics 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.

### **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 update 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 goggles, etc. Research and correct DRs that are still open, i.e. sponsor not yet made determination of the issue
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