

Federal Aviation Administration



Statement of Qualification

The Federal Aviation Administration (FAA) has evaluated this Flight Simulation Training Device (FSTD) and found it to meet the standards set forth in the qualification document.

Sponsor	Boeing
FAA ID	1091
Aircraft Designation	B-747-400F
Qualification Document	14 CFR Part 60 (2008), Appendix A
Qualification Level	D
Expiration Date	2/28/2027

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

FSTD INFORMATION & CONFIGURATION

Sponsor Name:	Boeing
Designator:	F7NX
FAA ID:	1091
Make/Model/Series:	B-747-400F
Evaluation Interval:	12

Section 1. Sponsor FSTD Location Contact Information			
FSTD Location			
Training Facility Name:	Boeing Miami		
Address:	6601 NW 36TH ST		
City:	Virginia Gardens		
State/Prov/Terr:	FL		
Country:	USA		
ZIP:	33166		
Local FAA Authority / FAA Training Program Approval Authority (TPAA)			
Name:	Rabei, Thayer		
Address:	2895 SW 145th Avenue		
City:	Miramar		
State/Prov/Terr:	FL	Office:	954-641-6662
Country:	USA	Cell:	954-431-6258
ZIP:	33027	Email:	thayer.rabei@faa.gov
FAA Alternate POC (APM, FTPM, if applicable)			
Name:	Long, Bobbie		
Address:	8700 Freeport Parkway Suite 200B		
City:	Irving		
State/Prov/Terr:	TX	Office:	(602) 740-3403
Country:	USA	Cell:	(602) 740-3403
ZIP:	75063	Email:	bobbie.long@faa.gov
Sponsor FSTD Management Representative			
Name:	Gillbard, Andrew		
Address:	Boeing House		
City:	Crawley		
State/Prov/Terr:	UK	Office:	+44 (0)1293 819029
Country:	GBR	Cell:	+44 (0)7899 968306
ZIP:	RH109AD	Email:	Andrew.b.gillbard@boeing.com
Sponsor FSTD Local Contact			
Name:	Quintero, Adrian		
Address:	6601 NW 36th ST		
City:	Virginia Gardens		
State/Prov/Terr:	FL	Office:	786-265-4920

Country:	USA	Cell:	(305) 903-3415
ZIP:	33166	Email:	Adrian.a.quintero@boeing.com

Section 2. FSTD Information			
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A/C Common Name:	BOEING B-747	Manufacturer Name:	CAE
A/C Alternative Name:	B-747-400F	Manufactured Year:	2008
Qualification Basis:	14 CFR Part 60 (2008), Appendix A	Manufacture Serial No:	2T9T-767
Qualification Level:	D	Sponsor's FSTD ID:	B747-8/400-C-01
FSTD Class:	Airplane FFS	Evaluation Base Month:	Nov
FSTD Seats Available:	6	FSTD Convertible to:	1264 1370

FSTD Configuration Information	
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FSTD Configuration (1):	B-747-400F
FSTD Configuration (2):	B-747-8i
FSTD Configuration (3):	B-747-8F
FSTD Configuration (4):	
FSTD Configuration (5):	

FSTD Engine Information			
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Pri. Engine Type / Thrust:	CF6-80C2B1F	FADEC Version:	
Alt. Engine Type / Thrust:		FADEC Version:	
Alt. Engine Type / Thrust:		FADEC Version:	
Alt. Engine Type / Thrust:		FADEC Version:	

Flight Instrumentation & Systems	
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<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	
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Flight Control Data: Model/Revision:	D611U347-01 Rev G
Aero Model: Source/Model/Revision:	D611U347-01 Vol. 1 (Rev. E) / Vol 5-7 (Rev. A)

Visual System			
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Image Generator Make/Model:	CAE Prodigy 6032		
Display Type:	Cross Ckpt, Collimated	Visual Projector Type:	LCoS/LED/DLP
Horizontal Field of View (degs):	180	Vertical Field of View (degs):	40

Avionics			
Manufacturer			
Model			
Standard/Revision			

Flight Management System			
Manufacturer:	Honeywell		
Model:	Rehosted NG FMS		
Type/Revision:	BP 4.0		

Motion System	
Manufacturer:	CAE True Electric Motion System
Type:	Electric
Axis:	6

Airport Qualification Models	
1: Airport / Runways / Taxiway:	KSEA / All
2: Airport / Runways / Taxiway	KPDX / All
3: Airport / Runways / Taxiway	KJFK / All

Visual Ground Segment	
Airport / Landing RW	KPDX / 10R

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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Designator:	F7NX
FAA ID:	1091
Make/Model/Series:	B-747-400F
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)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
CAT II (Minimums IAW sponsor/operator authorization)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
CAT III (Minimums IAW sponsor/operator authorization)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Circling Approach	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Demonstrated at KJFK RNAV 04R to 31R
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 checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
TCAS/ACAS I / II 7.1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
WX-Radar	<input checked="" type="checkbox"/>	<input checked="" 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"/>	
SMGCS	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Demonstrated at KPDX landing 10R, Exit B8 to spot ET
Enhanced Taxi Markings	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
RWSL / LAHSO	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
LPV GPS WAAS <input type="checkbox"/> LPV <input checked="" type="checkbox"/> GPS <input type="checkbox"/> WAAS	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
RNP/AR	<input type="checkbox"/>	<input type="checkbox"/>	
ADS-B In	<input type="checkbox"/>	<input type="checkbox"/>	
Full Stall (14CFR Part 60 (2016)/FSTD Directive 2)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
UPRT (14CFR Part 60 (2016)/FSTD Directive 2)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Icing (14CFR Part 60 (2016)/FSTD Directive 2)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Realistic Gusting Crosswind (14CFR Part 60 (2016)/FSTD Directive 2)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Bounced Landing (14CFR Part 60 (2016)/FSTD Directive 2)	<input checked="" type="checkbox"/>	<input checked="" 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"/>	

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"/>	

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)
Preflight Procedures			
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"/>	
In-Flight Maneuvers			
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"/>	
Instrument Procedures			
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)
Landings and Approaches to Landings			
Visual Approaches (normal, steep, shallow) with visual system	<input type="checkbox"/>	<input type="checkbox"/>	(Helicopter Only)
Normal and Abnormal Procedures			

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"/>	
Emergency Procedures			
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"/>	
Post flight Procedures			
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"/>	
Other			
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"/>	

Narrative
