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	584
Aircraft Designation	B-747-400
Qualification Document	120-40B
Qualification Level	D
Expiration Date	1/31/2027

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:	584
Make/Model/Series:	B-747-400
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:	8700 Freeport Parkway		
City:	Irving		
State/Prov/Terr:	TX	**Office:**	(305) 240-9624
Country:	USA	**Cell:**	(305) 240-9624
ZIP:	75063	**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, Crawley Business Quartter		
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			
A/C Common Name:	BOEING B-747	**Manufacturer Name:**	CAE
A/C Alternative Name:	B-747-400	**Manufactured Year:**	1997
Qualification Basis:	120-40B	**Manufacture Serial No:**	2NE5
Qualification Level:	D	**Sponsor's FSTD ID:**	B747-400-C-02
FSTD Class:	Airplane FFS	**Evaluation Base Month:**	Oct
FSTD Seats Available:	5	**FSTD Convertible to:**	| | |

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

FSTD Engine Information			
Pri. Engine Type / Thrust:	PW4056 / 56K	**FADEC Version:**	SCN5A
Alt. Engine Type / Thrust:	GE CF6-80C2F / 58K	**FADEC Version:**	8.2F
Alt. Engine Type / Thrust:		**FADEC Version:**	
Alt. Engine Type / Thrust:		**FADEC Version:**	

Flight Instrumentation & Systems	
☐ **NVG**	☐ **Other:**
☐ **CPDLC**	☐ **Other:**
☐ **EFB Class:**	☐ **Other:**

Data Sources & Models	
Flight Control Data: Model/Revision:	D611U316 Rev G
Aero Model: Source/Model/Revision:	D611U309 Rev G

Visual System			
Image Generator Make/Model:	Rockwell Collins EP1000		
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	DU700D		
Standard/Revision	831-6546-504		

Flight Management System			
Manufacturer:	Honeywell		
Model:			
Type/Revision:			

Motion System	
Manufacturer:	CAE 60in 6 deg digital
Type:	Hydraulic
Axis:	6

Airport Qualification Models	
1: Airport / Runways / Taxiway:	KSEA / ALL
2: Airport / Runways / Taxiway	KSFO / ALL
3: Airport / Runways / Taxiway	KJFK / ALL

Visual Ground Segment	
Airport / Landing RW	KSFO / 28 R

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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FSTD INFORMATION & CONFIGURATION

Sponsor Name:	Boeing
Designator:	F7NX
FAA ID:	584
Make/Model/Series:	B-747-400
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)	☑	☑	
CAT II (Minimums IAW sponsor/operator authorization)	☑	☑	
CAT III (Minimums IAW sponsor/operator authorization)	☑	☑	
Circling Approach	☑	☑	KJFK - RWY4R Circle to RWY31R
Windshear Training	☑	☑	
Auto-Coupled Approach	☑	☑	
Auto Go Around	☑	☑	
Auto-Land / Roll-Out Guidance	☑	☑	
TCAS/ACAS I / II 7.1	☑	☑	
WX-Radar	☑	☑	
HUD / HGS	☐	☐	
EFVS / SVS	☐	☐	
TAWS (GPWS / EGPWS)	☑	☑	
SMGCS	☑	☑	KSEA-Gate S10 (spot 88) B, C, RWY16L; RWY16C, P or Q, B, G, Spot 88 (Less than RVR 600, Mono-directional)
Enhanced Taxi Markings	☑	☑	
RWSL / LAHSO	☑	☑	
LPV GPS WAAS ☐ LPV ☑ GPS ☐ WAAS	☑	☑	
RNP/AR	☐	☐	
ADS-B In	☐	☐	
Full Stall (14CFR Part 60 (2016)/FSTD Directive 2)	☑	☑	
UPRT (14CFR Part 60 (2016)/FSTD Directive 2)	☑	☑	
Icing (14CFR Part 60 (2016)/FSTD Directive 2)	☑	☑	
Realistic Gusting Crosswind (14CFR Part 60 (2016)/FSTD Directive 2)	☑	☑	
Bounced Landing (14CFR Part 60 (2016)/FSTD Directive 2)	☑	☑	
Other	☐	☐	

Other	☐	☐	
Other	☐	☐	
Other	☐	☐	

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	☐	☐	
Helicopter External Load Operations	☐	☐	
Helicopter Pinnacle Approach to Landings	☐	☐	
Helicopter Night Vision Maneuvers Class A ☐ , Class B Lens ☐	☐	☐	
Helicopter Category A Takeoffs	☐	☐	
Other	☐	☐	
Other	☐	☐	
Other	☐	☐	
Other	☐	☐	

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).	☐	☐	
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	☐	☐	(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, 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			
Other	☐	☐	
Other	☐	☐	
Other	☐	☐	
Other	☐	☐	

Narrative