# 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** | 1370 |
| **Aircraft Designation** | B-747-8 |
| **Qualification Document** | 14 CFR Part 60 (2008), Appendix A |
| **Qualification Level** | D |
| **Expiration Date** | 9/30/2027 |

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:** | 1370 |
| **Make/Model/Series:** | B-747-8 |
| **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-747-8 | **Manufactured Year:** | 2012 |
| **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:** | Jun |
| **FSTD Seats Available:** | 6 | **FSTD Convertible to:** | 1091 \| 1264 \| \| |

| **FSTD Configuration Information** | |
|---|---|
| **FSTD Configuration (1):** | B-747-8 |
| **FSTD Configuration (2):** | |
| **FSTD Configuration (3):** | |
| **FSTD Configuration (4):** | |
| **FSTD Configuration (5):** | |

| **FSTD Engine Information** | | | |
|---|---|---|---|
| **Pri. Engine Type / Thrust:** | GEnx-2B / 67K | **FADEC Version:** | |
| **Alt. Engine Type / Thrust:** | | **FADEC Version:** | |
| **Alt. Engine Type / Thrust:** | | **FADEC Version:** | |
| **Alt. Engine Type / Thrust:** | | **FADEC Version:** | |

| **Flight Instrumentation & Systems** | |
|---|---|
| ☐ **NVG** | ☐ **Other:** |
| ☐ **CPDLC** | ☐ **Other:** |
| ☑ **EFB Class: 2** | ☐ **Other:** |

| **Data Sources & Models** | |
|---|---|
| **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** | | | |
|---|---|---|---|
| **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:** | BP4.0 | | |

| Motion System | |
|---|---|
| **Manufacturer:** | CAE True Electric Motion System |
| **Type:** | Electric |
| **Axis:** | 6 |

| Airport Qualification Models | |
|---|---|
| **1: Airport / Runways / Taxiway:** | KSEA ALL/ALL |
| **2: Airport / Runways / Taxiway** | KPDX ALL/ALL |
| **3: Airport / Runways / Taxiway** | KJFK ALL/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:** | | | |

**Federal Aviation Administration**

**FSTD INFORMATION & CONFIGURATION**

| | |
|---|---|
| **Sponsor Name:** | Boeing |
| **Designator:** | F7NX |
| **FAA ID:** | 1370 |
| **Make/Model/Series:** | B-747-8 |
| **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 | ☑ | ☑ | |
| Windshear Training | ☑ | ☑ | |
| Auto-Coupled Approach | ☑ | ☑ | |
| Auto Go Around | ☑ | ☑ | |
| Auto-Land / Roll-Out Guidance | ☑ | ☑ | |
| TCAS/ACAS I / II 7.0 | ☑ | ☑ | |
| WX-Radar | ☑ | ☑ | |
| HUD / HGS | ☐ | ☐ | |
| EFVS / SVS | ☐ | ☐ | |
| TAWS (GPWS / EGPWS) | ☑ | ☑ | |
| SMGCS | ☑ | ☑ | |
| Enhanced Taxi Markings | ☑ | ☑ | |
| RWSL / LAHSO | ☑ | ☑ | |
| LPV GPS WAAS ☐<br>LPV ☑<br>GPS ☑<br>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<br>Class A ☐<br>, 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