

# 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.

Federal Aviation Administration  
National Simulator Program

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

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

| Section 2. FSTD Information                      |                                               |                                      |                 |
|--------------------------------------------------|-----------------------------------------------|--------------------------------------|-----------------|
| <b>A/C Common Name:</b>                          | BOEING B-747                                  | <b>Manufacturer Name:</b>            | CAE             |
| <b>A/C Alternative Name:</b>                     | B-747-8                                       | <b>Manufactured Year:</b>            | 2012            |
| <b>Qualification Basis:</b>                      | 14 CFR Part 60 (2008), Appendix A             | <b>Manufacture Serial No:</b>        | 2T9T-767        |
| <b>Qualification Level:</b>                      | D                                             | <b>Sponsor's FSTD ID:</b>            | B747-8/400-C-01 |
| <b>FSTD Class:</b>                               | Airplane FFS                                  | <b>Evaluation Base Month:</b>        | Jun             |
| <b>FSTD Seats Available:</b>                     | 6                                             | <b>FSTD Convertible to:</b>          | 1091   1264     |
| FSTD Configuration Information                   |                                               |                                      |                 |
| <b>FSTD Configuration (1):</b>                   | B-747-8                                       |                                      |                 |
| <b>FSTD Configuration (2):</b>                   |                                               |                                      |                 |
| <b>FSTD Configuration (3):</b>                   |                                               |                                      |                 |
| <b>FSTD Configuration (4):</b>                   |                                               |                                      |                 |
| <b>FSTD Configuration (5):</b>                   |                                               |                                      |                 |
| FSTD Engine Information                          |                                               |                                      |                 |
| <b>Pri. Engine Type / Thrust:</b>                | GEhx-2B / 67K                                 | <b>FADEC Version:</b>                |                 |
| <b>Alt. Engine Type / Thrust:</b>                |                                               | <b>FADEC Version:</b>                |                 |
| <b>Alt. Engine Type / Thrust:</b>                |                                               | <b>FADEC Version:</b>                |                 |
| <b>Alt. Engine Type / Thrust:</b>                |                                               | <b>FADEC Version:</b>                |                 |
| Flight Instrumentation & Systems                 |                                               |                                      |                 |
| <input type="checkbox"/> NVG                     |                                               | <input type="checkbox"/> Other:      |                 |
| <input type="checkbox"/> CPDLC                   |                                               | <input type="checkbox"/> Other:      |                 |
| <input checked="" type="checkbox"/> EFB Class: 2 |                                               | <input type="checkbox"/> Other:      |                 |
| Data Sources & Models                            |                                               |                                      |                 |
| <b>Flight Control Data: Model/Revision:</b>      | D611U347-01 Rev G                             |                                      |                 |
| <b>Aero Model: Source/Model/Revision:</b>        | D611U347-01 Vol. 1 (Rev. E) / Vol 5-7 (Rev A) |                                      |                 |
| Visual System                                    |                                               |                                      |                 |
| <b>Image Generator Make/Model:</b>               | CAE Prodigy 6032                              |                                      |                 |
| <b>Display Type:</b>                             | Cross Ckpt, Collimated                        | <b>Visual Projector Type:</b>        | LCoS/LED/DLP    |
| <b>Horizontal Field of View (deg):</b>           | 180                                           | <b>Vertical Field of View (deg):</b> | 40              |

|                          |  |  |  |
|--------------------------|--|--|--|
| <b>Avionics</b>          |  |  |  |
| <b>Manufacturer</b>      |  |  |  |
| <b>Model</b>             |  |  |  |
| <b>Standard/Revision</b> |  |  |  |

|                                 |                 |  |  |
|---------------------------------|-----------------|--|--|
| <b>Flight Management System</b> |                 |  |  |
| <b>Manufacturer:</b>            | HONEYWELL       |  |  |
| <b>Model:</b>                   | Rehosted NG FMS |  |  |
| <b>Type/Revision:</b>           | BP4.0           |  |  |

|                      |                                 |
|----------------------|---------------------------------|
| <b>Motion System</b> |                                 |
| <b>Manufacturer:</b> | CAE True Electric Motion System |
| <b>Type:</b>         | Electric                        |
| <b>Axis:</b>         | 6                               |

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

|                              |            |
|------------------------------|------------|
| <b>Visual Ground Segment</b> |            |
| <b>Airport / Landing RW</b>  | KPDX / 10R |

|                                             |  |
|---------------------------------------------|--|
| <b>Helicopter Non-Airport Landing Areas</b> |  |
| <b>Elevated Surface:</b>                    |  |
| <b>Confined Landing Area:</b>               |  |
| <b>Sloped Surface</b>                       |  |

|                                                                                            |  |  |  |
|--------------------------------------------------------------------------------------------|--|--|--|
| <b>Other National Aviation Authority Qualifications (US-NAA BASA-SIPs Agreements Only)</b> |  |  |  |
| <b>NAA Name:</b>                                                                           |  |  |  |
| <b>NAA FSTD ID No:</b>                                                                     |  |  |  |
| <b>NAA Qualification Level:</b>                                                            |  |  |  |
| <b>NAA Qualification Basis:</b>                                                            |  |  |  |

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| <b>Designator:</b>          | F7NX    |
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| <b>Make/Model/Series:</b>   | B-747-8 |
| <b>Evaluation Interval:</b> | 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<br>(not stated in 14CFR Part 60 Appendix (A,B,C, or D) Attachment 1, Table 1B) |                                     |                                     |                                                             |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------------------------------|
| Area/Function/Maneuver                                                                                                                                                                  | Requested<br>(Sponsor<br>Use)       | Qualified<br>(FAA Use<br>Only)      | Remarks<br>(Include Partial Task Limitations if Applicable) |
| CAT I (Minimums IAW<br>sponsor/operator authorization)                                                                                                                                  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                                             |
| CAT II (Minimums IAW<br>sponsor/operator authorization)                                                                                                                                 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                                             |
| CAT III (Minimums IAW<br>sponsor/operator authorization)                                                                                                                                | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                                             |
| Circling Approach                                                                                                                                                                       | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                                             |
| 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 7.0                                                                                                                                                                    | <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"/> |                                                             |
| 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"/><br>LPV <input checked="" type="checkbox"/><br>GPS <input checked="" type="checkbox"/><br>WAAS                                                     | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                                             |
| RNP/AR                                                                                                                                                                                  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                                             |
| ADS-B <input type="checkbox"/><br>In                                                                                                                                                    | <input type="checkbox"/>            | <input type="checkbox"/>            |                                                             |
| Full Stall (14CFR Part 60 (2016)/FSTD<br>Directive 2)                                                                                                                                   | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                                             |
| UPRT (14CFR Part 60 (2016)/FSTD<br>Directive 2)                                                                                                                                         | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                                             |
| Icing (14CFR Part 60 (2016)/FSTD<br>Directive 2)                                                                                                                                        | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                                             |
| Realistic Gusting Crosswind (14CFR<br>Part 60 (2016)/FSTD Directive 2)                                                                                                                  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                                             |
| Bounced Landing (14CFR Part 60<br>(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<br>(not stated in 14CFR Part 60 Appendix (C or D) Attachment 1, Table 1B) |                            |                             |                                                             |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|-----------------------------|-------------------------------------------------------------|
| Area/Function/Maneuver                                                                                                                                                                        | Requested<br>(Sponsor Use) | Qualified<br>(FAA Use Only) | Remarks<br>(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<br>Class A <input type="checkbox"/><br>, 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<br>(as defined in Table B1B and D1B) |                            |                             |                                                             |
|------------------------------------------------------------------------------------------------------------------------------------|----------------------------|-----------------------------|-------------------------------------------------------------|
| Area/Function/Maneuver                                                                                                             | Requested<br>(Sponsor Use) | Qualified<br>(FAA Use Only) | Remarks<br>(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

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