

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.

| | |
|-------------------------------|-----------------------------------|
| Sponsor | Leonardo S.p.a Helicopters |
| FAA ID | 1384 |
| Aircraft Designation | AUGUSTA-AW189-AW189 |
| Qualification Document | 14 CFR Part 60 (2008), Appendix C |
| Qualification Level | D |
| Expiration Date | 6/30/2027 |

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
National Simulator Program

FSTD INFORMATION & CONFIGURATION

| | |
|-----------------------------|----------------------------|
| Sponsor Name: | Leonardo S.p.a Helicopters |
| Designator: | UGAW |
| FAA ID: | 1384 |
| Make/Model/Series: | AGUSTA-AW189-AW189 |
| Evaluation Interval: | 24 |

| | | | |
|--|---------------------------------------|---------|-------------------------------|
| Section 1. Sponsor FSTD Location Contact Information | | | |
| FSTD Location | | | |
| Training Facility Name: | Leonardo Helicopters Training Academy | | |
| Address: | Via Indipendenza, 2 Varese | | |
| City: | Sesto Calende | | |
| State/Prov/Terr: | IT | | |
| Country: | ITA | | |
| ZIP: | 21018 | | |
| Local FAA Authority / FAA Training Program Approval Authority (TPAA) | | | |
| Name: | Keane, Michael | | |
| Address: | 8700 Freeport Parkway | | |
| City: | Irving | | |
| State/Prov/Terr: | TX | Office: | (954) 641-6629 |
| Country: | USA | Cell: | |
| ZIP: | 75063 | Email: | michael.keane@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: | Cella, Alessandro | | |
| Address: | Via Indipendenza, 2 | | |
| City: | Sesto Calende | | |
| State/Prov/Terr: | IT | Office: | |
| Country: | ITA | Cell: | +39 3455 775607 |
| ZIP: | 21018 | Email: | alessandro.cella@leonardo.com |
| Sponsor FSTD Local Contact | | | |
| Name: | Orsini, Daniele | | |
| Address: | Via Indipendenza, 2 | | |
| City: | Sesto Calende | | |
| State/Prov/Terr: | IT | Office: | |

| | | | |
|-----------------|-------|---------------|------------------------|
| Country: | ITA | Cell: | +39 348 691 6248 |
| ZIP: | 21018 | Email: | daniele.orsini@cae.com |

| Section 2. FSTD Information | | | |
|---|-----------------------------------|--|-------------------|
| A/C Common Name: | AGUSTA AGUSTA-AW189 | Manufacturer Name: | CAE |
| A/C Alternative Name: | AUGUSTA-AW189-AW189 | Manufactured Year: | 2014 |
| Qualification Basis: | 14 CFR Part 60 (2008), Appendix C | Manufacture Serial No: | 2ETM-1137 |
| Qualification Level: | D | Sponsor's FSTD ID: | AW189 #1 FFS |
| FSTD Class: | Helo FFS | Evaluation Base Month: | Mar |
| FSTD Seats Available: | 5 | FSTD Convertible to: | |
| FSTD Configuration Information | | | |
| FSTD Configuration (1): | AGUSTA-AW189-AW189 | | |
| FSTD Configuration (2): | | | |
| FSTD Configuration (3): | | | |
| FSTD Configuration (4): | | | |
| FSTD Configuration (5): | | | |
| FSTD Engine Information | | | |
| Pri. Engine Type / Thrust: | 2X GE CT7-2E1/ 1983 SHP | FADEC Version: | Fadec SW ver. 6.0 |
| 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 checked="" type="checkbox"/> Other: CDS | |
| <input type="checkbox"/> CPDLC | | <input checked="" type="checkbox"/> Other: SVS | |
| <input type="checkbox"/> EFB Class: | | <input type="checkbox"/> Other: | |
| Data Sources & Models | | | |
| Flight Control Data: Model/Revision: | THSS-189G1920X001 | | |
| Aero Model: Source/Model/Revision: | THSS-189G1920T003 | | |
| Visual System | | | |
| Image Generator Make/Model: | CAE Medallion 6031 | | |
| Display Type: | Direct, Non-Collimated | Visual Projector Type: | LCoS/LED/DLP |
| Horizontal Field of View (deg): | 210 | Vertical Field of View (deg): | 80 |

| Avionics | | | |
|--------------------------|---------------------------------|--|--|
| Manufacturer | AMMS | | |
| Model | Vers. 5.3.3 FCC Vers. V06R04.0A | | |
| Standard/Revision | AMMS Vers. 8 | | |

| Flight Management System | | | |
|--------------------------|----------------------|--|--|
| Manufacturer: | Leonardo Helicopters | | |
| Model: | Avionics System | | |
| Type/Revision: | SW Phase 8.0 | | |

| Motion System | |
|----------------------|--|
| Manufacturer: | CAE EMM60 with Electric Vibration platform. Electr |
| Type: | Electric |
| Axis: | 6 |

| Airport Qualification Models | |
|--|------------|
| 1: Airport / Runways / Taxiway: | KTEB / ALL |
| 2: Airport / Runways / Taxiway | KHOU / ALL |
| 3: Airport / Runways / Taxiway | LIRF / ALL |

| Visual Ground Segment | |
|-----------------------------|----------|
| Airport / Landing RW | KJFK 04R |

| 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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| Evaluation Interval: | 24 |

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"/> | KJFK RNAV 4R, Circle 31R |
| Windshear Training | <input type="checkbox"/> | <input 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 7.1 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | TCAS II, Ver 7.1 |
| WX-Radar | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | |
| HUD / HGS | <input type="checkbox"/> | <input type="checkbox"/> | |
| EFVS / SVS | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | Synthetic Vision System (SVS) |
| TAWS (GPWS / EGPWS) | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | HTAWS (EGPWS) |
| SMGCS | <input type="checkbox"/> | <input type="checkbox"/> | |
| Enhanced Taxi Markings | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | KJFK / ALL |
| RWSL / LAHSO | <input type="checkbox"/> | <input type="checkbox"/> | |
| LPV GPS WAAS <input checked="" type="checkbox"/> LPV <input checked="" type="checkbox"/> GPS <input checked="" type="checkbox"/> WAAS | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | RNAV / VNAV |
| RNP/AR | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | KTEB RNAV (RNP) Z RWY 6 |
| 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"/> | |

| 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 checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | N41:57:56.19 / E12:29:04.72, KTEB-slope area-N 40:45:35.70/ W74:05:19.70 |
| Helicopter External Load Operations | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | KJFK, Hook and Hoist |
| Helicopter Pinnacle Approach to Landings | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | N40:45:28.85 / W74:05:21.73 |
| 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 checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | |
| Other Off Site | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | "Pietralata" and "Ministero Difesa Aeronautica" – elevated heliports |
| Other Off Site | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | "S. Pertini" and "P. Repubblica" – confined areas |
| Other OSAP | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | Oil Rig Platform 3 |
| 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, | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | |

| | | | |
|---|-------------------------------------|-------------------------------------|-------------------|
| shallow) with visual system | | | (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 checked="" type="checkbox"/> | <input checked="" 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