

TCDS Compliance Checklist (ICAO Annex 8)

Use this checklist to review any TCDS document. A compliant TCDS should have a clear, affirmative answer for every item.

Section 1: General Identification

- **State of Design Identified:** Is the issuing authority clearly stated (e.g., FAA, EASA, ANAC)?
- **TC Holder Defined:** Are the name and official address of the design organization listed?
- **Type Certificate Number:** Is the unique certificate number prominent?
- **Issue Date:** Is the date of the current revision clearly marked?
- **Model Designation:** Are all covered models/series explicitly listed (e.g., 737-8, A320-271N)?
- **Eligibility:** Does it specify the serial numbers eligible for this certificate?

Section 2: Certification Basis (The Legal Foundation)

- **Primary Airworthiness Code:** Does it cite the specific regulation and amendment level (e.g., *14 CFR Part 25, Amdt 25-140*)?
- **Effective Date:** Is the date established for the certification basis recorded?
- **Special Conditions (SC):** Are non-standard requirements for novel features listed (e.g., *Lithium Battery Safety, Composite Fuselage*)?
- **Exemptions:** Are any rules the aircraft was excused from listed, including the expiration date of the exemption?
- **Equivalent Safety Findings (ESF):** Does it list areas where the design deviates from the rule but meets the safety intent?
- **Noise & Emissions:** Is compliance with ICAO Annex 16 (or local equivalent like *14 CFR Part 36*) confirmed?

Section 3: Technical Configuration (The Hardware)

- **Engines:**
 - o Manufacturer and Model clearly identified?
 - o Engine Type Certificate referenced?
 - o Static Thrust ratings listed (Dry/Wet)?
 - **Propellers** (if applicable): Manufacturer, Model, and TC referenced?
 - **Fuel & Oil:**

- Approved fuel grades listed?
- Usable vs. Unusable fuel capacity defined?
- Oil specification listed?

- **Auxiliary Power Unit (APU)**

Manufacturer & Model:

- Is the APU manufacturer and specific model listed?
- Is the APU Type Certificate (or TSO) referenced?

Installation Limits:

- Are there altitude limits for starting vs. operating the APU?
- Is there a limit on bleed air extraction (e.g., "Bleed air extraction permitted up to 17,000 ft")?
- Is there a limit on electrical load extraction?

Operation Modes:

- Is "Unattended Operation" (on the ground with no crew) explicitly approved or prohibited?
- Are "In-Flight" operations approved (essential for ETOPS) or is it "Ground Use Only"?

Fuel & Oil:

- Are the fuel source (main tanks vs. dedicated) and oil specifications defined?

Exhaust/Noise:

- Is the APU noise signature accounted for in the overall noise certificate?

- **Dimensions:**

- Wing Span, Length, and Height?
- Wing Area?

- **Control Surfaces:** Are deflection angles (travel limits) defined for all primary surfaces (Aileron, Elevator, Rudder)?

Section 4: Operating Limitations (The Safety Envelope)

- **Airspeed Limits:**

- (Max Operating Speed/Mach)?

- (Flap Extended Speeds)?
- (Landing Gear Operating/Extended Speeds)?
- **Weight Limits:**
 - Max Takeoff Weight (MTOW)?
 - Max Landing Weight (MLW)?
 - [] Max Zero Fuel Weight (MZFW)?
- **Center of Gravity (CG):**
 - Forward and Aft limits defined (often as % MAC)?
 - Datum line reference point clearly described?
- **Altitude:** Max operating altitude (pressure altitude)?
- **Crew:** Minimum flight crew required?
- **Passengers:** Max seating capacity (often variable by exit configuration)?

Section 5: Required Documents & Markings

- **Flight Manual:** Is the approved Airplane Flight Manual (AFM) document number referenced?
- **Maintenance Manuals:** Is the Airworthiness Limitations Section (ALS) or Instructions for Continued Airworthiness (ICA) referenced?
- **MMEL:** Is the Master Minimum Equipment List referenced?
- **Placards:** Does it list (or reference a drawing for) mandatory cockpit/cabin placards?

Section 6: Notes & Miscellaneous

- **Import Requirements:** (For validated TCDS) Are there specific requirements for importing this aircraft into the jurisdiction?
- **Modifications:** Does it list major modifications or STCs that are considered part of the "Type Design" for this specific model?
- **Production Basis:** Does it state if the manufacturer produces the aircraft under a Production Certificate (PC)?