

DATA ITEM DESCRIPTION

**Title: Federal Aviation Administration Airworthiness
Substantiation Data**

Number: DI-SAFT-80901B	Approval Date: 20121025
AMSC Number: N9291	Limitation: N/A
DTIC Applicable: N/A	GIDEP Applicable: N/A
Office of Primary Responsibility: AS/PMA-207	
Applicable Forms: N/A	

Use/Relationship:

This Data package shall include the data required to substantiate the FAA Airworthiness Certification and existing engineering data developed for commercial derivative aircraft, aircraft systems, engines, and components. This Data package is used for airworthiness certification, modifications, testing, and flight clearance substantiation for commercial derivative aircraft owned by the US Government.

This Data Item Description (DID) contains the format, content, and intended use information, and content preparation instructions for the data product resulting from the work task described in the contract Statement of Work or Performance Work Statement.

Requirements:

1. **Format:** The Data shall be in Contractor format or as designated per FAA regulations.

2. **Content:** The following FAA airworthiness certification data and existing engineering data for a public use-commercial derivative aircraft, aircraft systems, engines, and components are to be provided per contract requirements:
 - (a) Aerodynamic Performance Reports
 - (b) Aerodynamic Analysis and Test Report
 - (c) Stability and Control analysis and Test Report
 - (d) Airframe Stress Analysis and Test Report
 - (e) Airframe Fatigue Analysis and Test Report
 - (f) Structural Description and Design Report
 - (g) Aerodynamic Description and Design Report
 - (h) Wind Tunnel Test Report
 - (i) Landing Gear system Design and Analysis Report

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- (j) Landing Gear System Test Report
- (k) Flutter Analysis and Test Report
- (l) Mechanical and Electrical Source Control Drawings
- (m) General Arrangement Drawings
- (n) Inboard Profile Drawings
- (o) Structural Loads Internal and External Report
- (p) Propulsion Design and Description
- (q) Engine Installation description
- (r) Engine Performance Analysis and Test Report
- (s) APU Installation Description
- (t) APU Design, Analysis, and Test Report
- (u) Ancillary Propulsion Equipment Design and Test Report
- (v) Hydraulic Systems Design, Analysis, and Test
- (w) Pneumatic Systems Design, Analysis, and Test Report
- (x) Flight Control System Design, Analysis, and Test Report
- (y) Environmental Control Systems Design, Analysis, and Test Report
- (z) Materials Verification Report
- (aa) Electrical Loads Analysis and Test Reports
- (bb) Electromagnetic Interference Test Report
- (cc) Electrical Wiring Diagram
- (dd) Antennae System and Location Design, Analysis, and Test Report
- (ee) Weight and Balance Report
- (ff) Fire Protection Analysis Report
- (gg) Fuel Tank Safety (SFAR 88) Analysis Report
- (hh) Lightning Protection Analysis Report
- (ii) Ice Protection Report
- (jj) Oxygen Systems Design, Analysis, and Test Report
- (kk) Flight Data Recorder System Design, Analysis, and Test Report
- (ll) Human Factors Analysis Report
- (mm) Environmental Analysis Report
- (nn) Safety Assessment Report
- (oo) Ground Vibration/Dynamic/Rap or Plink Report
- (pp) HERO Test Report

3. End of DI-SAFT-80901B.