



Designation: ~~F3264 – 19~~ F3264 – 21

Standard Specification for Normal Category Aeroplanes Certification¹

This standard is issued under the fixed designation F3264; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon (ε) indicates an editorial change since the last revision or reapproval.

1. Scope

1.1 *Applicability:*

1.1.1 This specification identifies the industry standards ~~which that~~ have been determined by consensus to demonstrate compliance to the requirements (“the Rules”) for ~~Level 1, 2, 3, 4~~ Normal Category Aeroplanes.

1.1.2 Only standards that are considered mature enough for general application to certification projects and have been found acceptable by committee consensus to propose to the CAAs for acceptance as a Means of Compliance to their Rules are included.

1.1.3 In the event that a particular CAA’s requirements are not harmonized with the other CAA’s requirements, the standards will be written to include the non-harmonized requirements as well as the harmonized requirements with the applicability defined in the standard.

1.1.4 In addition to identifying the standards that have been approved by the F44 Committee, the structure of this specification follows the structure of the existing performance/objective-based rules for Normal Category aeroplanes as closely as practical. However, due to differences employed by the authorities in structuring the rules, some sections of this specification may parallel the structure of a particular authority’s rules, but not all. The intent was to structure this specification in such a way that the users could identify what standards would be applicable to specific rules with the specifications at the highest level and practices and test methods being at the next level down. Guides that support a specification or practice will be at the next level down from what they support.

1.2 *Civil Aviation Authorities:*

1.2.1 CAAs may accept a specific revision of this specification as an acceptable Means of Compliance (MoC) to their requirements. Acceptance and applicability as a MoC to the CAA’s airworthiness rules remains the decision of the respective CAAs. CAAs may accept this specification, with or without limitations as defined in their specification acceptance document. For information on which CAAs have accepted these standards (in whole or in part) as an acceptable MoC to their Rules, refer to the ASTM F44 webpage (www.astm.org/COMMITTEE/F44.htm) which includes CAA website links.

1.3 *Applicant Responsibility:*

1.3.1 The applicant must seek individual guidance from their respective CAA concerning the use of this specification and any referenced Specifications, Practices, Test Methods, or Guides to show compliance to the CAA rules. Alternatively, an applicant may propose a MoC other than those included in this specification but it is their responsibility to obtain acceptance of their proposed MoC from their CAA.

¹ This specification is under the jurisdiction of ASTM Committee F44 on General Aviation Aircraft and is the direct responsibility of Subcommittee F44.10 on General. Current edition approved Nov. 1, 2019 Aug. 1, 2021. Published December 2019 September 2021. Originally approved in 2017. Last previous edition approved in 2018 2019 as F3264-18b-19. DOI: ~~10.1520/F3264-19~~ 10.1520/F3264-21.

1.4 This international standard was developed in accordance with internationally recognized principles on standardization established in the Decision on Principles for the Development of International Standards, Guides and Recommendations issued by the World Trade Organization Technical Barriers to Trade (TBT) Committee.

2. Referenced Documents

2.1 ASTM Standards:²

NOTE 1—Referenced ASTM standards are listed in Sections 5 – 10 of this specification.

- [F2490 Guide for Aircraft Electrical Load and Power Source Capacity Analysis](#)
- [F3060 Terminology for Aircraft](#)
- [F3061/F3061M Specification for Systems and Equipment in Small Aircraft](#)
- [F3062/F3062M Specification for Aircraft Powerplant Installation](#)
- [F3063/F3063M Specification for Aircraft Fuel Storage and Delivery](#)
- [F3064/F3064M Specification for Aircraft Powerplant Control, Operation, and Indication](#)
- [F3065/F3065M Specification for Aircraft Propeller System Installation](#)
- [F3066/F3066M Specification for Aircraft Powerplant Installation Hazard Mitigation](#)
- [F3082/F3082M Specification for Weights and Centers of Gravity of Aircraft](#)
- [F3083/F3083M Specification for Emergency Conditions, Occupant Safety and Accommodations](#)
- [F3093/F3093M Specification for Aeroelasticity Requirements](#)
- [F3114 Specification for Structures](#)
- [F3115/F3115M Specification for Structural Durability for Small Aeroplanes](#)
- [F3116/F3116M Specification for Design Loads and Conditions](#)
- [F3117/F3117M Specification for Crew Interface in Aircraft](#)
- [F3120/F3120M Specification for Ice Protection for General Aviation Aircraft](#)
- [F3173/F3173M Specification for Aircraft Handling Characteristics](#)
- [F3174/F3174M Specification for Establishing Operating Limitations and Information for Aeroplanes](#)
- [F3179/F3179M Specification for Performance of Aircraft](#)
- [F3180/F3180M Specification for Low-Speed Flight Characteristics of Aircraft](#)
- [F3227/F3227M Specification for Environmental Systems in Aircraft](#)
- [F3228 Specification for Flight Data and Voice Recording in Small Aircraft](#)
- [F3229/F3229M Practice for Static Pressure System Tests in Small Aircraft](#)
- [F3230 Practice for Safety Assessment of Systems and Equipment in Small Aircraft](#)
- [F3231/F3231M Specification for Electrical Systems for Aircraft with Combustion Engine Electrical Power Generation](#)
- [F3232/F3232M Specification for Flight Controls in Small Aircraft](#)
- [F3233/F3233M Specification for Flight and Navigation Instrumentation in Aircraft](#)
- [F3234/F3234M Specification for Exterior Lighting in Small Aircraft](#)
- [F3235 Specification for Aircraft Storage Batteries](#)
- [F3236 Specification for High Intensity Radiated Field \(HIRF\) Protection in Small Aircraft](#)
- [F3239 Specification for Aircraft Electric Propulsion Systems](#)
- [F3254 Specification for Aircraft Interaction of Systems and Structures](#)
- [F3309/F3309M Practice for Simplified Safety Assessment of Systems and Equipment in Small Aircraft](#)
- [F3316/F3316M Specification for Electrical Systems for Aircraft with Electric or Hybrid-Electric Propulsion](#)
- [F3331 Practice for Aircraft Water Loads](#)
- [F3367 Practice for Simplified Methods for Addressing High-Intensity Radiated Fields \(HIRF\) and Indirect Effects of Lightning on Aircraft](#)
- [F3380 Practice for Structural Compliance of Very Light Aeroplanes](#)
- [F3396/F3396M Practice for Aircraft Simplified Loads Criteria](#)
- [F3408/F3408M Specification for Aircraft Emergency Parachute Recovery Systems](#)
- [F3432 Practice for Powerplant Instruments](#)

2.2 Federal Aviation Administration (FAA) Regulations:

- [14 CFR 23, Amendment 64 Airworthiness Standards: Normal Category Airplanes³](#)

² For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For *Annual Book of ASTM Standards* volume information, refer to the [standard's Document Summary](#) page on the ASTM website.

³ Available from U.S. Government Publishing Office (GPO), 732 N. Capitol St., NW, Washington, DC 20401, <http://www.gpo.gov>.

2.3 *European Aviation Safety Agency (EASA) Regulations:*
CS 23, Amendment 5 Certification Specifications for Normal Category Aeroplanes⁴

NOTE 2—The above regulations and requirements are not directly referenced in the specification but are the “relevant applicable regulations” referred to in the Rules definition in 3.2.2.

3. Terminology

3.1 *Unique and Common Terminology*—Terminology used in multiple standards is defined in F3060, Aircraft Terminology Standard. Terminology that is unique to this specification is defined in this section.

3.2 Definitions:

3.2.1 *Means of Compliance (MoC)*—a method or process which is used to show that a rule has been complied with through either design, analysis, test, or a combination of design, analysis and test.

3.2.2 *Rules*—universal reference to the relevant applicable regulations or standards governing airworthiness requirements for Normal Category Aeroplanes issued by the CAAs.

3.3 Abbreviations:

3.3.1 *CAA*—Civil Aviation Authority

3.3.2 *MoC*—Means of Compliance

4. General

4.1 Regulatory Applicability and Definitions:

4.1.1 See the applicable CAA Rules for specific CAAs Applicability and Definitions. There are currently no standards written or anticipated for these requirements.

4.2 Certification of Normal Category Aeroplanes:

4.2.1 This specification will identify in Sections 5 – 10 all standards that are applicable for certifying a Level 1, 2, 3, or 4 Normal Category Aeroplane.

5. Flight

5.1 Weight/Mass and Centre of Gravity:

5.1.1 **F3082/F3082M** – 17 Standard Specification for Weights and Centers of Gravity of Aircraft

5.1.2 **F3114**—~~19~~–21 Standard Specification for Structures

5.2 Performance Data:

5.2.1 **F3179/F3179M**—~~18~~–20 Standard Specification for Performance of Aircraft

5.3 Stall Speed:

5.3.1 **F3179/F3179M**—~~18~~–20 Standard Specification for Performance of Aircraft

⁴ Available from European Aviation Safety Agency (EASA), Postfach 10 12 53, D-50452 Cologne, Germany, <https://www.easa.europa.eu/document-library/certification-specifications/cs-23-amendment-5>.

5.4 *Takeoff Performance:*

- 5.4.1 ~~F3179/F3179M~~—~~18~~—20 Standard Specification for Performance of Aircraft

5.5 *Climb Requirements:*

- 5.5.1 ~~F3179/F3179M~~—~~18~~—20 Standard Specification for Performance of Aircraft

5.6 *Climb Information:*

- 5.6.1 ~~F3179/F3179M~~—~~18~~—20 Standard Specification for Performance of Aircraft

5.7 *Landing:*

- 5.7.1 ~~F3179/F3179M~~—~~18~~—20 Standard Specification for Performance of Aircraft

5.8 *Controllability:*

- 5.8.1 ~~F3173/F3173M~~—~~18~~—21 Standard Specification for Aircraft Handling Characteristics

5.9 *Trim:*

- 5.9.1 ~~F3173/F3173M~~—~~18~~—21 Standard Specification for Aircraft Handling Characteristics

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5.10 *Stability:*

5.10.1 **F3173/F3173M**—18 – 21 Standard Specification for Aircraft Handling Characteristics

5.11 *Stall Characteristics, Stall Warning, and Spins:*

5.11.1 **F3180/F3180M** – 19 Standard Specification for Low-Speed Flight Characteristics of Aircraft

5.12 *Ground and Water Handling Characteristics:*

5.12.1 **F3173/F3173M**—18 – 21 Standard Specification for Aircraft Handling Characteristics

5.13 *Vibration, Buffeting, and High-Speed Characteristics:*

5.13.1 **F3173/F3173M**—18 – 21 Standard Specification for Aircraft Handling Characteristics

5.14 *Performance and Flight Characteristics Requirements for Flight in Icing Conditions:*

5.14.1 **F3120/F3120M**—19 – 20 Standard Specification for Ice Protection for General Aviation Aircraft

5.15 *Operating Limitations:*

5.15.1 **F3174/F3174M** – 19 Standard Specification for Establishing Operating Limitations and Information for Aeroplanes

5.15.2 **F3408/F3408M** – 21 Standard Specification for Aircraft Emergency Parachute Recovery Systems

6. Structures

6.1 *Structural Design Envelope:*

6.1.1 **F3116/F3116M** – 18^{e2} Standard Specification for Design Loads and Conditions

6.1.1.1 **F3396/F3396M** – 20 Standard Practice for Aircraft Simplified Loads Criteria

6.2 *Interaction of Systems and Structure:*

6.2.1 **F3254** – 19 Standard Specification for Aircraft Interaction of Systems and Structures

6.3 *Structural Design Loads:*

6.3.1 **F3116/F3116M** – 18^{e2} Standard Specification for Design Loads and Conditions

6.3.1.1 **F3396/F3396M** – 20 Standard Practice for Aircraft Simplified Loads Criteria

6.3.2 **F3408/F3408M** – 21 Standard Specification for Aircraft Emergency Parachute Recovery Systems

6.4 *Flight Load Conditions:*

6.4.1 **F3116/F3116M** – 18^{e2} Standard Specification for Design Loads and Conditions

6.4.1.1 **F3396/F3396M** – 20 Standard Practice for Aircraft Simplified Loads Criteria

6.5 *Ground and Water Load Conditions:*

6.5.1 **F3116/F3116M** – 18^{e2} Standard Specification for Design Loads and Conditions

6.5.1.1 **F3331** – 18 Standard Practice for Aircraft Water Loads

6.6 *Component Loading Conditions:*

6.6.1 **F3061/F3061M**—19a—20 Standard Specification for Systems and Equipment in Small Aircraft

6.6.1.1 **F3232/F3232M**—19a—20 Standard Specification for Flight Controls in Small Aircraft

6.6.2 **F3116/F3116M** – 18^{e2} Standard Specification for Design Loads and Conditions

6.6.2.1 **F3396/F3396M** – 20 Standard Practice for Aircraft Simplified Loads Criteria

6.7 *Limit and Ultimate Loads:*

6.7.1 **F3114**—19—21 Standard Specification for Structures

6.7.2 **F3408/F3408M** – 21 Standard Specification for Aircraft Emergency Parachute Recovery Systems

6.8 *Structural Strength:*

6.8.1 **F3114**—19—21 Standard Specification for Structures

6.8.2 **F3408/F3408M** – 21 Standard Specification for Aircraft Emergency Parachute Recovery Systems

6.9 *Structural Durability:*

6.9.1 **F3061/F3061M**—19a—20 Standard Specification for Systems and Equipment in Small Aircraft

6.9.2 **F3066/F3066M** – 18 Standard Specification for Aircraft Powerplant Installation Hazard Mitigation

6.9.3 **F3115/F3115M**—19—20 Standard Specification for Structural Durability for Small Aeroplanes

6.9.3.1 **F3380** – 19 Standard Practice for Structural Compliance of Very Light Aeroplanes

6.9.4 **F3116/F3116M** – 18^{e2} Standard Specification for Design Loads and Conditions

6.10 *Aeroelasticity:*

6.10.1 **F3061/F3061M**—19a—20 Standard Specification for Systems and Equipment in Small Aircraft

6.10.2 **F3093/F3093M**—19—21 Standard Specification for Aeroelasticity Requirements

6.11 *Design and Construction Principles:*

6.11.1 **F3061/F3061M**—19a—20 Standard Specification for Systems and Equipment in Small Aircraft

6.11.1.1 **F3232/F3232M**—19a—20 Standard Specification for Flight Controls in Small Aircraft

6.11.2 **F3114**—19—21 Standard Specification for Structures

6.11.2.1 **F3380** – 19 Standard Practice for Structural Compliance of Very Light Aeroplanes

6.11.3 **F3408/F3408M** – 21 Standard Specification for Aircraft Emergency Parachute Recovery Systems

6.12 *Protection of Structure:*

6.12.1 **F3061/F3061M—19a—20** Standard Specification for Systems and Equipment in Small Aircraft

6.12.1.1 **F3232/F3232M—19a—20** Standard Specification for Flight Controls in Small Aircraft

6.12.2 **F3114—19—21** Standard Specification for Structures

6.12.2.1 **F3380 – 19** Standard Practice for Structural Compliance of Very Light Aeroplanes

6.12.3 **F3066/F3066M – 18** Standard Specification for Aircraft Powerplant Installation Hazard Mitigation

6.12.4 **F3408/F3408M – 21** Standard Specification for Aircraft Emergency Parachute Recovery Systems

6.13 *Materials and Processes:*

6.13.1 **F3114—19—21** Standard Specification for Structures

6.13.1.1 **F3380 – 19** Standard Practice for Structural Compliance of Very Light Aeroplanes

6.13.2 **F3408/F3408M – 21** Standard Specification for Aircraft Emergency Parachute Recovery Systems

6.14 *Special Factors of Safety:*

6.14.1 **F3061/F3061M—19a—20** Standard Specification for Systems and Equipment in Small Aircraft

6.14.2 **F3114—19—21** Standard Specification for Structures

6.14.2.1 **F3380 – 19** Standard Practice for Structural Compliance of Very Light Aeroplanes

6.15 *Emergency Conditions:*

6.15.1 **F3061/F3061M—19a—20** Standard Specification for Systems and Equipment in Small Aircraft

6.15.1.1 **F3232/F3232M—19a—20** Standard Specification for Flight Controls in Small Aircraft

6.15.2 **F3083/F3083M—19—20a** Standard Specification for Emergency Conditions, Occupant Safety and Accommodations

6.15.3 **F3408/F3408M – 21** Standard Specification for Aircraft Emergency Parachute Recovery Systems

7. Design and Construction

7.1 *Flight Control Systems:*

7.1.1 **F3061/F3061M—19a—20** Standard Specification for Systems and Equipment in Small Aircraft

7.1.1.1 **F3232/F3232M—19a—20** Standard Specification for Flight Controls in Small Aircraft

7.1.2 **F3066/F3066M – 18** Standard Specification for Aircraft Powerplant Installation Hazard Mitigation

7.1.3 **F3117/F3117M – 20** Standard Specification for Crew Interface in Aircraft

7.2 *Landing Gear Systems:*

7.2.1 **F3061/F3061M—19a—20** Standard Specification for Systems and Equipment in Small Aircraft

7.3 *Buoyancy for Seaplanes and Amphibians:*

- 7.3.1 **F3061/F3061M—19a—20** Standard Specification for Systems and Equipment in Small Aircraft

7.4 *Means of Egress and Emergency Exits:*

- 7.4.1 **F3061/F3061M—19a—20** Standard Specification for Systems and Equipment in Small Aircraft
- 7.4.2 **F3083/F3083M—19—20a** Standard Specification for Emergency Conditions, Occupant Safety and Accommodations

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7.5 *Occupant Physical Environment:*

7.5.1 ~~F3061/F3061M—19a—20~~ Standard Specification for Systems and Equipment in Small Aircraft

7.5.1.1 ~~F3227/F3227M—17—21~~ Standard Specification for Environmental Systems in ~~Small~~ Aircraft

7.5.2 ~~F3083/F3083M—19—20a~~ Standard Specification for Emergency Conditions, Occupant Safety and Accommodations

7.5.3 ~~F3114—19—21~~ Standard Specification for Structures

7.5.4 ~~F3117/F3117M—19—20~~ Standard Specification for Crew Interface in Aircraft

7.6 *Fire Protection:*

7.6.1 ~~F3061/F3061M—19a—20~~ Standard Specification for Systems and Equipment in Small Aircraft

7.6.1.1 ~~F3231/F3231M—19—21~~ Standard Specification for Electrical Systems for Aircraft with Combustion Engine Electrical Power Generation

7.6.1.2 ~~F3234/F3234M—17~~ Standard Specification for Exterior Lighting in Small Aircraft

7.6.1.3 ~~F3316/F3316M—19~~ Standard Specification for Electrical Systems for Aircraft with Electric or Hybrid-Electric Propulsion

7.6.2 ~~F3066/F3066M—18~~ Standard Specification for Aircraft Powerplant Installation Hazard Mitigation

7.6.3 ~~F3083/F3083M—19—20a~~ Standard Specification for Emergency Conditions, Occupant Safety and Accommodations

7.6.4 ~~F3408/F3408M—21~~ Standard Specification for Aircraft Emergency Parachute Recovery Systems

7.7 *Fire Protection in Designated Fire Zones and Adjacent Areas:*

7.7.1 ~~F3061/F3061M—19a—20~~ Standard Specification for Systems and Equipment in Small Aircraft

7.7.1.1 ~~F3231/F3231M—19—21~~ Standard Specification for Electrical Systems for Aircraft with Combustion Engine Electrical Power Generation

7.7.2 ~~F3066/F3066M—18~~ Standard Specification for Aircraft Powerplant Installation Hazard Mitigation

7.7.3 ~~F3114—19—21~~ Standard Specification for Structures

7.8 *Lightning Protection:*

7.8.1 ~~F3061/F3061M—19a—20~~ Standard Specification for Systems and Equipment in Small Aircraft

7.9 *Design and Construction Information:*

7.9.1 ~~F3117/F3117M—19—20~~ Standard Specification for Crew Interface in Aircraft

8. Powerplant

8.1 *Powerplant Installation:*

8.1.1 ~~F3062/F3062M—19—20~~ Standard Specification for Aircraft Powerplant Installation

8.1.2 ~~F3063/F3063M—18a—20~~ Standard Specification for Aircraft Fuel and Energy Storage and Delivery

- 8.1.3 ~~F3064/F3064M–19–21~~ Standard Specification for Aircraft Powerplant Control, Operation, and Indication
- 8.1.4 ~~F3065/F3065M–19–21a~~ Standard Specification for Aircraft Propeller System Installation
- 8.1.5 ~~F3066/F3066M – 18~~ Standard Specification for Aircraft Powerplant Installation Hazard Mitigation
- 8.1.6 ~~F3239 – 19~~ Standard Specification for Aircraft Electric Propulsion Systems

- 8.2 *Power or Thrust Control Systems:*
 - 8.2.1 ~~F3062/F3062M–19–20~~ Standard Specification for Aircraft Powerplant Installation
 - 8.2.2 ~~F3064/F3064M–19–21~~ Standard Specification for Aircraft Powerplant Control, Operation, and Indication
 - 8.2.3 ~~F3065/F3065M–19–21a~~ Standard Specification for Aircraft Propeller System Installation
 - 8.2.4 ~~F3239~~F3117/F3117M – ~~1920~~ Standard Specification for Aircraft Electric Propulsion Systems Crew Interface in Aircraft

- 8.3 *Powerplant Installation Hazard Assessment:*
 - 8.3.1 ~~F3061/F3061M–19a–20~~ Standard Specification for Systems and Equipment in Small Aircraft
 - 8.3.2 ~~F3062/F3062M–19–20~~ Standard Specification for Aircraft Powerplant Installation
 - 8.3.3 ~~F3063/F3063M–18a–20~~ Standard Specification for Aircraft Fuel and Energy Storage and Delivery
 - 8.3.4 ~~F3064/F3064M–19–21~~ Standard Specification for Aircraft Powerplant Control, Operation, and Indication
 - 8.3.5 ~~F3065/F3065M–19–21a~~ Standard Specification for Aircraft Propeller System Installation
 - 8.3.6 ~~F3066/F3066M – 18~~ Standard Specification for Aircraft Powerplant Installation Hazard Mitigation
 - 8.3.7 ~~F3117/F3117M–19–20~~ Standard Specification for Crew Interface in Aircraft
 - 8.3.8 ~~F3239 – 19~~ Standard Specification for Aircraft Electric Propulsion Systems

- 8.4 *Powerplant Installation Ice Protection:*
 - 8.4.1 ~~F3062/F3062M–19–20~~ Standard Specification for Aircraft Powerplant Installation
 - 8.4.2 ~~F3063/F3063M–18a–20~~ Standard Specification for Aircraft Fuel and Energy Storage and Delivery
 - 8.4.3 ~~F3066/F3066M – 18~~ Standard Specification for Aircraft Powerplant Installation Hazard Mitigation
 - 8.4.4 ~~F3239 – 19~~ Standard Specification for Aircraft Electric Propulsion Systems

- 8.5 *Reversing Systems:*
 - 8.5.1 ~~F3062/F3062M–19–20~~ Standard Specification for Aircraft Powerplant Installation
 - 8.5.2 ~~F3065/F3065M–19–21a~~ Standard Specification for Aircraft Propeller System Installation
 - 8.5.3 ~~F3239 – 19~~ Standard Specification for Aircraft Electric Propulsion Systems

- 8.6 *Powerplant Operational Characteristics:*

- 8.6.1 ~~F3062/F3062M—19~~–20 Standard Specification for Aircraft Powerplant Installation
- 8.6.2 ~~F3064/F3064M—19~~–21 Standard Specification for Aircraft Powerplant Control, Operation, and Indication
- 8.6.3 ~~F3065/F3065M—19~~–21a Standard Specification for Aircraft Propeller System Installation
- 8.6.4 ~~F3066/F3066M~~ – 18 Standard Specification for Aircraft Powerplant Installation Hazard Mitigation
- 8.6.5 ~~F3117/F3117M—19~~–20 Standard Specification for Crew Interface in Aircraft
- 8.6.6 ~~F3239~~ – 19 Standard Specification for Aircraft Electric Propulsion Systems
- 8.7 *Fuel and Energy Storage and Distribution Systems:*
- 8.7.1 ~~F3062/F3062M—19~~–20 Standard Specification for Aircraft Powerplant Installation
- 8.7.2 ~~F3063/F3063M—18a~~–20 Standard Specification for Aircraft Fuel and Energy Storage and Delivery
- 8.7.3 ~~F3064/F3064M—19~~–21 Standard Specification for Aircraft Powerplant Control, Operation, and Indication
- 8.7.4 ~~F3066/F3066M~~ – 18 Standard Specification for Aircraft Powerplant Installation Hazard Mitigation
- 8.7.5 ~~F3114—19~~–21 Standard Specification for Structures
- 8.7.6 ~~F3239~~ – 19 Standard Specification for Aircraft Electric Propulsion Systems
- 8.8 *Powerplant Induction, Exhaust, and Support Systems:*
- 8.8.1 ~~F3062/F3062M—19~~–20 Standard Specification for Aircraft Powerplant Installation
- 8.8.2 ~~F3239~~ – 19 Standard Specification for Aircraft Electric Propulsion Systems
- 8.9 *Powerplant Installation Fire Protection:*
- 8.9.1 ~~F3061/F3061M—19a~~–20 Standard Specification for Systems and Equipment in Small Aircraft
- 8.9.2 ~~F3062/F3062M—19~~–20 Standard Specification for Aircraft Powerplant Installation
- 8.9.3 ~~F3063/F3063M~~ – 20 Standard Specification for Aircraft Fuel Storage and Delivery
- 8.9.4 ~~F3064/F3064M—19~~–21 Standard Specification for Aircraft Powerplant Control, Operation, and Indication
- 8.9.5 ~~F3066/F3066M~~ – 18 Standard Specification for Aircraft Powerplant Installation Hazard Mitigation
- 8.9.6 ~~F3239~~ – 19 Standard Specification for Aircraft Electric Propulsion Systems
- 8.10 *Powerplant Installation Information:*
- 8.10.1 ~~F3117/F3117M~~ – ~~19~~20 Standard Specification for Crew Interface in Aircraft
- 8.10.2 ~~F3174/F3174M~~ – 19 Standard Specification for Establishing Operating Limitations and Information for Aeroplanes
- 9. Equipment**
- 9.1 *Systems and Equipment Function and Safety Requirements:*