

## AMC/GM to CS-23, Issue 2 — CHANGE INFORMATION

EASA publishes amendments to certification specifications as consolidated documents. These documents are used for establishing the certification basis for applications made after the date of entry into force of the amendment.

Consequently, the consolidated text of AMC/GM to CS-23 does not allow readers to see the detailed changes introduced by the new issue. To allow readers to also see these detailed changes, this document has been created.

The text of the amendment is arranged to show deleted text, new or amended text as shown below:

- deleted text is ~~struck through~~;
- new or amended text is highlighted in **blue**;
- an ellipsis '[...]' indicates that the rest of the text is unchanged.

## SUBPART A — GENERAL

### AMC1 CS 23.2000 Applicability

[...]

### GM1 CS 23.2010 Accepted means of compliance

For compliance demonstration, applicants will use the issue of the AMC & GM which is current on the date of application, as reflected in the certification programme for the certification basis determined by EASA.

This current issue, however, does not automatically invalidate the previous issues of the AMC & GM to CS-23 Amendment 5, unless this is specifically identified as such in the AMC/GM. Applicants can, therefore, agree with EASA in the certification programme to use such previous issues of the AMC & GM to demonstrate compliance with the certification basis.

Whenever an earlier AMC is no longer considered to be acceptable for the demonstration of compliance, the restrictions on its use will be stated in the remarks column of the specific line for that CS and the related AMC. In particular, AMC2&3 to CS-23/CS-VLA Subpart B to Subpart G (which reflect respectively CS-23 Amendment 4 and CS-VLA Amendment 1) will not be updated to cover new technologies or methods. However, they are still accepted as means of compliance. EASA will restrict their use in the AMC only when they no longer appropriately address new safety concerns or the associated safety levels.

### ~~AMC1~~ GM2 CS 23.2010 Accepted means of compliance

[...]

For example, the ASTM standard accepted by this AMC does not contain provisions that address powered trim system runaways. Therefore, in order to maintain the level of safety that was in CS-23 Amendment 4, applicants proposing the use of ~~F3264-17~~ F3264-18b as a means of complying with CS 23.2300 for an aeroplane with a powered trim system would need to supplement the standards of ~~F3264-17~~ F3264-18b with additional means of compliance to demonstrate safe controllability after a probable trim system runaway. To do this, applicants could use CS 23.677(d) from Amendment 4, or other means accepted under CS 23.2010 of Amendment 5.

Similarly, applicants may propose designs with novel or unusual features for which neither ~~F3264-17~~ F3264-18b nor the EASA Certification Specifications (CS-23 Amendment 4 and CS-VLA Amendment 1) contains appropriate AMC for showing compliance with CS-23 Amendment 5. Therefore, applicants proposing the use of the AMC to CS-23 as a means of complying with CS-23 Amendment 5 for aeroplanes with novel or unusual design features may need to gain acceptance of additional means of compliance under CS 23.2010.

[...]

## AMC1 CS-23 Subpart B — Flight

| CS-23 Amendment 5<br>SUBPART B - Flight   | (Ref ASTM <del>F44 F3264-17</del> <b>F3264-18b</b> Standard Specification for Normal Category Aeroplanes Certification)  | Remarks   |
|---|--|---|
| 23.2100 <i>Mass and centre of gravity</i> | 5.1 <i>Weight/Mass and Centre of Gravity:</i><br><del>F3082/F3082M-17</del> Standard Specification for Weights and Centers of Gravity of Aircraft<br><del>F3114-15</del> Standard Specification for Structures     | <del>With reference to ASTM F3264-17 paragraph 5.1, F3082-17 has been updated to the latest revision and F3114-15 is added as a means of complying with CS 23.2100.</del> |
| 23.2105 <i>Performance data</i>           | 5.2 <i>Performance Data:</i><br><del>F3179/F3179M-16</del> <b>F3179/F3179M-18</b> <del>Standard Specification for Performance of Aeroplanes</del><br><b>Standard Specification for Performance of Aircraft</b>     | <b>F3179 revised from -16 to -18</b>  |
| 23.2110 <i>Stall speed</i>                | 5.3 <i>Stall Speed:</i><br><del>F3179/F3179M-16</del> <b>F3179/F3179M-18</b> <del>Standard Specification for Performance of Aeroplanes</del><br><b>Standard Specification for Performance of Aircraft</b>          | <b>F3179 revised from -16 to -18</b>  |
| 23.2115 <i>Take-off performance</i>       | 5.4 <i>Take-off Performance:</i><br><del>F3179/F3179M-16</del> <b>F3179/F3179M-18</b> <del>Standard Specification for Performance of Aeroplanes</del><br><b>Standard Specification for Performance of Aircraft</b> | <b>F3179 revised from -16 to -18</b>  |
| 23.2120 <i>Climb requirements</i>         | 5.5 <i>Climb Requirements:</i><br><del>F3179/F3179M-16</del> <b>F3179/F3179M-18</b> <del>Standard Specification for Performance of Aeroplanes</del><br><b>Standard Specification for Performance of Aircraft</b>   | <b>F3179 revised from -16 to -18</b>  |
| 23.2125 <i>Climb information</i>          | 5.6 <i>Climb Information:</i><br><del>F3179/F3179M-16</del> <b>F3179/F3179M-18</b> <del>Standard Specification for Performance of Aeroplanes</del><br><b>Standard Specification for Performance of Aircraft</b>    | <b>F3179 revised from -16 to -18</b>  |
| 23.2130 <i>Landing</i>                    | 5.7 <i>Landing:</i><br><del>F3179/F3179M-16</del> <b>F3179/F3179M-18</b> <del>Standard Specification for Performance of Aeroplanes</del><br><b>Standard Specification for Performance of Aircraft</b>              | <b>F3179 revised from -16 to -18</b>  |

| CS-23 Amendment 5<br>SUBPART B - Flight  | (Ref ASTM <del>F44 F3264-17</del> <del>F3264-18b</del> Standard Specification for Normal Category Aeroplanes Certification)   | Remarks                       |
|--|---|-------------------------------|
| 23.2135 Controllability  | 5.8 Controllability:<br><del>F3173/F3173M-15</del> <del>F3173/F3173M-17</del> Standard Specification for Handling Characteristics of Aeroplanes<br>Standard Specification for Aircraft Handling Characteristics   | F3173 revised from -15 to -17 |
| 23.2140 Trim   | 5.9 Trim:<br><del>F3173/F3173M-15</del> <del>F3173/F3173M-17</del> Standard Specification for Handling Characteristics of Aeroplanes<br>Standard Specification for Aircraft Handling Characteristics  | F3173 revised from -15 to -17 |
| 23.2145 Stability  | 5.10 Stability:<br><del>F3173/F3173M-15</del> <del>F3173/F3173M-17</del> Standard Specification for Handling Characteristics of Aeroplanes<br>Standard Specification for Aircraft Handling Characteristics  | F3173 revised from -15 to -17 |
| 23.2150 Stall characteristics, stall warning, and spins                                    | 5.11 Stall Characteristics, Stall Warning, and Spins:<br><del>F3180/F3180M-16</del> <del>F3180/F3180M-18</del> Standard Specification for Low-Speed Flight Characteristics of Aeroplanes<br>Standard Specification for Low-Speed Flight Characteristics of Aircraft | F3180 revised from -16 to -18 |
| 23.2155 Ground and water handling characteristics  | 5.12 Ground and Water Handling Characteristics:<br><del>F3173/F3173M-15</del> <del>F3173/F3173M-17</del> Standard Specification for Handling Characteristics of Aeroplanes<br>Standard Specification for Aircraft Handling Characteristics                          | F3173 revised from -15 to -17 |
| 23.2160 Vibration, buffeting, and high-speed characteristics                               | 5.13 Vibration, Buffeting, and High-Speed Characteristics:<br><del>F3173/F3173M-15</del> <del>F3173/F3173M-17</del> Standard Specification for Handling Characteristics of Aeroplanes<br>Standard Specification for Aircraft Handling Characteristics               | F3173 revised from -15 to -17 |
| 23.2165 Performance and flight characteristics requirements for flight in icing conditions | 5.14 Performance and Flight Characteristics Requirements for Flight in Icing Conditions:<br>F3120/F3120M-15 Standard Specification for Ice Protection for General Aviation Aircraft   |                               |
| 23.2170 Operating limitations  | 5.15 Operating Limitations:<br><del>F3174/F3174M-15</del> <del>F3174/F3174M-18</del> Standard Specification for Establishing Operating Limitations and Information for Aeroplanes   | F3174 revised from -15 to -18 |

## AMC1 CS-23 Subpart C — Structures

| CS-23 Amendment 5<br>SUBPART C - Structure           | (Ref ASTM <del>F44 F3264-17</del> <b>F3264-18b</b> Standard Specification for Normal Category Aeroplanes Certification)  | Remarks  |
|--|--|--|
| 23.2200 <i>Structural design envelope</i>            | 6.1 <i>Structural Design Envelope:</i><br><del>F3116/F3116M-15</del> <b>F3116/F3116M-18</b> Standard Specification for Design Loads and Conditions   | <b>F3116 revised from -15 to -18</b>   |
| 23.2205 <i>Interaction of systems and structures</i> | TBD  | Consensus Standard in development  |
| 23.2210 <i>Structural-design loads</i>               | 6.3 <i>Structural Design Loads:</i><br><del>F3116/F3116M-15</del> <b>F3116/F3116M-18</b> Standard Specification for Design Loads and Conditions  | <b>F3116 revised from -15 to -18</b>   |
| 23.2215 <i>Flight load conditions</i>                | 6.4 <i>Flight Load Conditions:</i><br><del>F3116/F3116M-15</del> <b>F3116/F3116M-18</b> Standard Specification for Design Loads and Conditions   | <b>F3116 revised from -15 to -18</b>   |
| 23.2220 <i>Ground and water load conditions</i>      | 6.5 <i>Ground and Water Load Conditions:</i><br><del>F3116/F3116M-15</del> <b>F3116/F3116M-18</b> Standard Specification for Design Loads and Conditions<br><b>F3331-18</b> Standard Practice for Aircraft Water Loads   | <b>F3116 revised from -15 to -18</b><br><b>F3331 New</b>   |
| 23.2225 <i>Component loading conditions</i>          | 6.6 <i>Component Loading Conditions:</i><br><del>F3061/F3061M-17</del> Standard Specification for Systems and Equipment in Small Aircraft<br><del>F3232/F3232M-17</del> Standard Specification for Flight Controls in Small Aircraft<br><del>F3116/F3116M-15</del> <b>F3116/F3116M-18</b> Standard Specification for Design Loads and Conditions | <b>F3116 revised from -15 to -18</b>   |
| 23.2230 <i>Limit and ultimate loads</i>              | 6.7 <i>Limit and Ultimate Loads:</i><br><del>F3114-15</del> Standard Specification for Structures  |  |
| 23.2235 <i>Structural strength</i>                   | 6.8 <i>Structural Strength:</i><br><del>F3114-15</del> Standard Specification for Structures   |  |
| 23.2240 <i>Structural durability</i>                 | 6.9 <i>Structural Durability:</i><br><del>F3115/F3115M-15</del> Standard Specification for Structural Durability for Small Airplanes<br><del>F3061/F3061M-17</del> Standard Specification for Systems and Equipment in Small Aircraft  | <del>With reference to ASTM F3264-17 paragraph 6.9, F3061-17 has been added as a means of complying with CS 23.2240.</del> |

| CS-23 Amendment 5<br>SUBPART C - Structure        | (Ref ASTM <del>F44 F3264-17</del> <b>F3264-18b</b> Standard Specification for Normal Category Aeroplanes Certification)  | Remarks                              |
|---|--|--------------------------------------|
| 23.2245 <i>Aeroelasticity</i>                     | 6.10 <i>Aeroelasticity:</i><br><a href="#">F3061/F3061M-17</a> Standard Specification for Systems and Equipment in Small Aircraft<br><a href="#">F3093/F3093M-15</a> Standard Specification for Aeroelasticity Requirements  |                                      |
| 23.2250 <i>Design and construction principles</i> | 6.11 <i>Design and Construction Principles:</i><br><a href="#">F3061/F3061M-17</a> Standard Specification for Systems and Equipment in Small Aircraft<br><a href="#">F3232/F3232M-17</a> Standard Specification for Flight Controls in Small Aircraft<br><a href="#">F3114-15</a> Standard Specification for Structures  |                                      |
| 23.2255 <i>Protection of structure</i>            | 6.12 <i>Protection of Structure:</i><br><a href="#">F3061/F3061M-17</a> Standard Specification for Systems and Equipment in Small Aircraft<br><a href="#">F3232/F3232M-17</a> Standard Specification for Flight Controls in Small Aircraft<br><a href="#">F3114-15</a> Standard Specification for Structures<br><del><a href="#">F3066/F3066M-15</a> <a href="#">F3066/F3066M-18</a> Standard Specification for Powerplant Systems Specific Hazard Mitigation</del> <b>Standard Specification for Aircraft Powerplant Installation Hazard Mitigation</b> | <b>F3066 revised from -15 to -18</b> |
| 23.2260 <i>Materials and processes</i>            | 6.13 <i>Materials and Processes:</i><br><a href="#">F3114-15</a> Standard Specification for Structures   |                                      |
| 23.2265 <i>Special factors of safety</i>          | 6.14 <i>Special Factors of Safety:</i><br><a href="#">F3061/F3061M-17</a> Standard Specification for Systems and Equipment in Small Aircraft<br><a href="#">F3114-15</a> Standard Specification for Structures   |                                      |
| 23.2270 <i>Emergency Conditions</i>               | 6.15 <i>Emergency Conditions:</i><br><a href="#">F3061/F3061M-17</a> Standard Specification for Systems and Equipment in Small Aircraft<br><a href="#">F3232/F3232M-17</a> Standard Specification for Flight Controls in Small Aircraft<br><a href="#">F3083/F3083M-16</a> Standard Specification for Emergency Conditions, Occupant Safety and Accommodations   |                                      |

## AMC1 CS-23 Subpart D — Design and Construction

| CS-23 Amendment 5<br><br>SUBPART D – Design and Construction | (Ref ASTM F44 <del>F3264-17</del> <b>F3264-18b</b> Standard Specification for Normal Category Aeroplanes Certification)  | Remarks  |
|--|--|--|
| 23.2300 <i>Flight control systems</i>                        | <p>7.1 <i>Flight Control Systems:</i></p> <p><a href="#">F3061/F3061M-17</a> Standard Specification for Systems and Equipment in Small Aircraft</p> <p><a href="#">F3232/F3232M-17</a> Standard Specification for Flight Controls in Small Aircraft</p> <p><del><a href="#">F3066/F3066M-15</a></del> <a href="#">F3066/F3066M-18</a> <del>Standard Specification for Powerplant Systems Specific Hazard Mitigation</del> <b>Standard Specification for Aircraft Powerplant Installation Hazard Mitigation</b></p> | <p>Except as follows:</p> <p>For Level 1 single-engine airplanes with a stall speed in the landing configuration (<math>V_{S0}</math>) of more than 45 knots, ASTM <del>F3264-17</del> <b>F3264-18b</b>, paragraph 7.1 does not include means for showing that the airplane is protected from loss of control when any one connecting or transmitting element in the primary flight control system fails. If applying for certification of a Level 1 single-engine airplane with a <math>V_{S0}</math> greater than 45 knots, applicants may use the requirements of CS 23.677(b)(1) at Amendment 4 as a means of complying with this aspect of CS 23.2300, or may propose a different means of compliance in accordance with CS 23.2010.</p> <p>For powered trim, applicants may use the provisions of CS 23.677(d) at Amendment 4 as a means of complying with CS 23.2010.</p> <p><b>F3066 revised from -15 to -18</b></p> |
| 23.2305 <i>Landing gear systems</i>                          | <p>7.2 <i>Landing Gear Systems:</i></p> <p><a href="#">F3061/F3061M-17</a> Standard Specification for Systems and Equipment in Small Aircraft</p>  |  |
| 23.2310 <i>Buoyancy for seaplanes and amphibians</i>         | <p>7.3 <i>Buoyancy for Seaplanes and Amphibians:</i></p> <p><a href="#">F3061/F3061M-17</a> Standard Specification for Systems and Equipment in Small Aircraft</p>   |  |

| CS-23 Amendment 5<br><br>SUBPART D – Design and Construction | (Ref ASTM F44 <del>F3264-17</del> <b>F3264-18b</b> Standard Specification for Normal Category Aeroplanes Certification)   | Remarks  |
|--|---|--|
| 23.2315 <i>Means of egress and emergency exits</i>           | 7.4 <i>Means of Egress and Emergency Exits:</i><br><a href="#">F3061/F3061M-17</a> Standard Specification for Systems and Equipment in Small Aircraft<br><a href="#">F3083/F3083M-16</a> Standard Specification for Emergency Conditions, Occupant Safety and Accommodations  |  |
| 23.2320 <i>Occupant physical environment</i>                 | 7.5 <i>Occupant Physical Environment:</i><br><a href="#">F3061/F3061M-17</a> Standard Specification for Systems and Equipment in Small Aircraft<br><a href="#">F3227/F3227M-17</a> Standard Specification for Environmental Systems in Small Aircraft<br><a href="#">F3083/F3083M-16</a> Standard Specification for Emergency Conditions, Occupant Safety and Accommodations<br><a href="#">F3114-15</a> Standard Specification for Structures<br><del>F3117-15</del> <b>F3117-18b</b> Standard Specification for Crew Interface in Aircraft  | <b>F3117 revised from -15 to -18b</b>  |
| 23.2325 <i>Fire protection</i>                               | 7.6 <i>Fire Protection:</i><br><a href="#">F3061/F3061M-17</a> Standard Specification for Systems and Equipment in Small Aircraft<br><a href="#">F3231/F3231M-17</a> Standard Specification for Electrical Systems in Small Aircraft<br><a href="#">F3234/F3234M-17</a> Standard Specification for Exterior Lighting in Small Aircraft<br><del>F3066/F3066M-15</del> <b>F3066/F3066M-18</b> <del>Standard Specification for Powerplant Systems Specific Hazard Mitigation</del> <b>Standard Specification for Aircraft Powerplant Installation Hazard Mitigation</b><br><a href="#">F3083/F3083M-16</a> Standard Specification for Emergency Conditions, Occupant Safety and Accommodations             | <del>With reference to ASTM F3264-17 paragraph 7.6, F3065-15 has been removed and ASTM F3066-15 has been added as a means of complying with CS 23.2325.</del><br><b>F3066 revised from -15 to -18</b>  |
| 23.2330 <i>Fire protection in designated fire zones</i>      | 7.7 <i>Fire Protection in Designated Fire Zones and Adjacent Areas:</i><br><a href="#">F3061/F3061M-17</a> Standard Specification for Systems and Equipment in Small Aircraft<br><a href="#">F3231/F3231M-17</a> Standard Specification for Electrical Systems in Small Aircraft<br><a href="#">F3114-15</a> Standard Specification for Structures<br><del>F3066/F3066M-15</del> <b>F3066/F3066M-18</b> <del>Standard Specification for Powerplant Systems Specific Hazard Mitigation</del> <b>Standard Specification for Aircraft Powerplant Installation Hazard Mitigation</b><br><a href="#">F3083/F3083M-16</a> Standard Specification for Emergency Conditions, Occupant Safety and Accommodations | <b>F3066 revised from -15 to -18</b><br><del>With reference to</del> <b>Different from</b> ASTM <del>F3264-17</del> <b>F3264-18b</b> paragraph 7.7, ASTM <del>F3066-15</del> and F3083-16 have been added as means of complying with CS 23.2325. |

| CS-23 Amendment 5<br><br>SUBPART D – Design and Construction | (Ref ASTM F44 <del>F3264-17</del> F3264-18b Standard Specification for Normal Category Aeroplanes Certification)                       | Remarks         |
|--|--|-----------------|
| 23.2335 <i>Lightning protection</i>                          | 7.8 <i>Lightning Protection:</i><br><a href="#">F3061/F3061M-17</a> Standard Specification for Systems and Equipment in Small Aircraft |                 |
| 23.2340 <i>Design and construction information</i>           | none   | No AMC expected |

## AMC1 CS-23 Subpart E — Powerplant

| CS-23 Amendment 5<br><br>SUBPART E – Powerplant | (Ref ASTM F44 <del>F3264-17</del> F3264-18b Standard Specification for Normal Category Aeroplanes Certification)   | Remarks  |
|---|--|--|
| 23.2400 <i>Powerplant installation</i>          | <p>8.1 <i>Powerplant Installation:</i></p> <p><del>F3062/F3062M-16</del> F3062/F3062M-18 Standard Specification for Installation of Powerplant Systems Standard Specification for Aircraft Powerplant Installation</p> <p><del>F3063/F3063M-16a</del> F3063/F3063M-18a Standard Specification for Design and Integration of Fuel/Energy Storage and Delivery System Installations for Aeroplanes Standard Specification for Aircraft Fuel and Energy Storage and Delivery</p> <p><del>F3064/F3064M-15</del> F3064/F3064M-18a Standard Specification for Control, Operational Characteristics and Installation of Instruments and Sensors of Propulsion Systems Standard Specification for Aircraft Powerplant Control, Operation, and Indication</p> <p><del>F3065/F3065M-15</del> F3065/F3065M-18 Standard Specification for Installation and Integration of Propeller Systems Standard Specification for Aircraft Propeller System Installation</p> <p><del>F3066/F3066M-15</del> F3066/F3066M-18 Standard Specification for Powerplant Systems Specific Hazard Mitigation Standard Specification for Aircraft Powerplant Installation Hazard Mitigation</p> | <p>F3062 revised from -16 to -18</p> <p>F3063 revised from -16a to -18a</p> <p>F3064 revised from -15 to -18a</p> <p>F3065 revised from -15 to -18</p> <p>F3066 revised from -15 to -18</p>  |
| 23.2405 <i>Power or thrust control systems</i>  | <p>8.2 <i>Power or Thrust Control Systems &amp; 8.5 Reversing Systems:</i></p> <p><del>F3062/F3062M-18</del> Standard Specification for Installation of Powerplant Systems Standard Specification for Aircraft Powerplant Installation</p> <p><del>F3064/F3064M-15</del> F3064/F3064M-18a Standard Specification for Control, Operational Characteristics and Installation of Instruments and Sensors of Propulsion Systems Standard Specification for Aircraft Powerplant Control, Operation, and Indication</p> <p><del>F3065/F3065M-15</del> F3065/F3065M-18 Standard Specification for Installation and Integration of Propeller Systems Standard Specification for Aircraft Propeller System Installation</p>   | <p>With reference to <del>ASTM F3264-17</del> paragraph 8.2 and 8.5, <del>ASTM F3066-15</del> has been considered not relevant as a means of complying with CS-23.2405 and therefore not included.</p> <p>F3062 revised from -16 to -18</p> <p>F3064 revised from -15 to -18a</p> <p>F3065 revised from -15 to -18</p> |

| CS-23 Amendment 5<br><br>SUBPART E – Powerplant          | (Ref ASTM F44 <del>F3264-17</del> <del>F3264-18b</del> Standard Specification for Normal Category Aeroplanes Certification)   | Remarks   |
|--|---|---|
| 23.2410 <i>Powerplant installation hazard assessment</i> | 8.3 <i>Powerplant Installation Hazard Assessment:</i><br><del>F3061/F3061M-17</del> Standard Specification for Systems and Equipment in Small Aircraft<br><del>F3062/F3062M-16</del> <del>F3062/F3062M-18</del> Standard Specification for Installation of Powerplant Systems Standard Specification for Aircraft Powerplant Installation<br><del>F3063/F3063M-18a</del> Standard Specification for Design and Integration of Fuel/Energy Storage and Delivery System Installations for Aeroplanes Standard Specification for Aircraft Fuel and Energy Storage and Delivery<br><del>F3064/F3064M-15</del> <del>F3064/F3064M-18a</del> Standard Specification for Control, Operational Characteristics and Installation of Instruments and Sensors of Propulsion Systems Standard Specification for Aircraft Powerplant Control, Operation, and Indication<br><del>F3065/F3065M-15</del> <del>F3065/F3065M-18</del> Standard Specification for Installation and Integration of Propeller Systems Standard Specification for Aircraft Propeller System Installation<br><del>F3066/F3066M-15</del> <del>F3066/F3066M-18</del> Standard Specification for Powerplant Systems Specific Hazard Mitigation Standard Specification for Aircraft Powerplant Installation Hazard Mitigation<br><del>F3117-15</del> <del>F3117-18b</del> Standard Specification for Crew Interface in Aircraft | <del>With reference to ASTM F3264-17 paragraph 8.3, ASTM F3063-16a, F3064-15, F3065-15 and F3117-15 have been added as a means of complying with CS 23.2410.</del><br>F3062 revised from -16 to -18<br>F3063 revised from -16a to -18a<br>F3064 revised from -15 to -18a<br>F3065 revised from -15 to -18<br>F3066-15 revised from -15 to -18<br>F3117 revised from -15 to -18b |
| 23.2415 <i>Powerplant installation ice protection</i>    | 8.4 <i>Powerplant Installation Ice Protection:</i><br><del>F3062/F3062M-16</del> <del>F3062/F3062M-18</del> Standard Specification for Installation of Powerplant Systems Standard Specification for Aircraft Powerplant Installation<br><del>F3063/F3063M-16a</del> <del>F3063/F3063M-18a</del> Standard Specification for Design and Integration of Fuel/Energy Storage and Delivery System Installations for Aeroplanes Standard Specification for Aircraft Fuel and Energy Storage and Delivery<br><del>F3066/F3066M-15</del> <del>F3066/F3066M-18</del> Standard Specification for Powerplant Systems Specific Hazard Mitigation Standard Specification for Aircraft Powerplant Installation Hazard Mitigation   | <del>With reference to</del> Different from ASTM <del>F3264-17</del> <del>F3264-18b</del> paragraph 8.4, ASTM <del>F3063-16a</del> <del>F3063-18a</del> has been added as a means of complying with CS 23.2415.<br>F3062 revised from -16 to -18<br>F3063 revised from -16a to -18a<br>F3066 revised from -15 to -18  |
| 23.2420 <i>reserved</i>                                  | ---   |   |

| CS-23 Amendment 5<br><br>SUBPART E – Powerplant                                 | (Ref ASTM F44 <del>F3264-17</del> <b>F3264-18b</b> Standard Specification for Normal Category Aeroplanes Certification)   | Remarks  |
|---|---|--|
| 23.2425 <i>Powerplant operational characteristics</i>                           | 8.6 <i>Powerplant Operational Characteristics:</i><br><del>F3062/F3062M-16</del> <b>F3062/F3062M-18</b> <del>Standard Specification for Installation of Powerplant Systems</del> <b>Standard Specification for Aircraft Powerplant Installation</b><br><del>F3064/F3064M-15</del> <b>F3064/F3064M-18a</b> <del>Standard Specification for Control, Operational Characteristics and Installation of Instruments and Sensors of Propulsion Systems</del> <b>Standard Specification for Aircraft Powerplant Control, Operation, and Indication</b><br><del>F3065/F3065M-15</del> <b>F3065/F3065M-18</b> <del>Standard Specification for Installation and Integration of Propeller Systems</del> <b>Standard Specification for Aircraft Propeller System Installation</b><br><del>F3066/F3066M-15</del> <b>F3066/F3066M-18</b> <del>Standard Specification for Powerplant Systems Specific Hazard Mitigation</del> <b>Standard Specification for Aircraft Powerplant Installation Hazard Mitigation</b><br><del>F3117-15</del> <b>F3117-18b</b> <del>Standard Specification for Crew Interface in Aircraft</del>                            | <del>With reference to ASTM F3264-17 paragraph 8.6, ASTM F3065-15 and F3117-15 have been added as a means of complying with CS 23.2425</del><br><b>F3062 revised from -16 to -18</b><br><b>F3064 revised from -15 to -18a</b><br><b>F3065 revised from -15 to -18</b><br><b>F3066 revised from -15 to -18</b><br><b>F3117 revised from -15 to -18b</b>   |
| 23.2430 <i>Powerplant installation, energy storage and distribution systems</i> | 8.7 <i>Fuel and Energy Storage and Distribution Systems:</i><br><del>F3062/F3062M-16</del> <b>F3062/F3062M-18</b> <del>Standard Specification for Installation of Powerplant Systems</del> <b>Standard Specification for Aircraft Powerplant Installation</b><br><del>F3063/F3063M-16a</del> <b>F3063/F3063M-18a</b> <del>Standard Specification for Design and Integration of Fuel/Energy Storage and Delivery System Installations for Aeroplanes</del> <b>Standard Specification for Aircraft Fuel and Energy Storage and Delivery</b><br><del>F3064/F3064M-15</del> <b>F3064/F3064M-18a</b> <del>Standard Specification for Control, Operational Characteristics and Installation of Instruments and Sensors of Propulsion Systems</del> <b>Standard Specification for Aircraft Powerplant Control, Operation, and Indication</b><br><del>F3066/F3066M-15</del> <b>F3066/F3066M-18</b> <del>Standard Specification for Powerplant Systems Specific Hazard Mitigation</del> <b>Standard Specification for Aircraft Powerplant Installation Hazard Mitigation</b><br><b>F3114-15</b> <del>Standard Specification for Structures</del> | <del>With reference to</del> <b>Different from</b> ASTM <del>F3264-17</del> <b>F3264-18b</b> paragraph 8.7, ASTM F3061-17 has been considered not relevant as a means of complying with CS 23.2430 and therefore not included.<br><b>F3062 revised from -16 to -18</b><br><b>F3063 revised from -16a to -18a</b><br><b>F3064 revised from -15 to -18a</b><br><b>F3066 revised from -15 to -18</b><br><b>F3114-15 New</b> |
| 23.2435 <i>Powerplant installation support systems</i>                          | 8.8 <i>Powerplant Induction, Exhaust, and Support Systems:</i><br><del>F3062/F3062M-16</del> <b>F3062/F3062M-18</b> <del>Standard Specification for Installation of Powerplant Systems</del> <b>Standard Specification for Aircraft Powerplant Installation</b>   | <del>With reference to</del> <b>Different from</b> ASTM <del>F3264-17</del> <b>F3264-18b</b> paragraph 8.8, ASTM <del>F3066-15</del> <b>F3066-18</b> has been considered not relevant as a means of complying with CS 23.2435 and therefore not included.<br><b>F3062 revised from -16 to -18</b>  |

| CS-23 Amendment 5<br>SUBPART E – Powerplant            | (Ref ASTM F44 <del>F3264-17</del> <b>F3264-18b</b> Standard Specification for Normal Category Aeroplanes Certification)  | Remarks  |
|--|--|--|
| 23.2440 <i>Powerplant installation fire protection</i> | 8.9 <i>Powerplant Installation Fire Protection:</i><br><del>F3061/F3061M-17</del> Standard Specification for Systems and Equipment in Small Aircraft<br><del>F3062/F3062M-16</del> <del>F3062/F3062M-18</del> <del>Standard Specification for Installation of Powerplant Systems</del> <b>Standard Specification for Aircraft Powerplant Installation</b><br><del>F3063/F3063M-16a</del> <del>F3063/F3063M-18</del> <del>Standard Specification for Design and Integration of Fuel/Energy Storage and Delivery System Installations for Aeroplanes</del> <b>Standard Specification for Aircraft Fuel and Energy Storage and Delivery</b><br><del>F3064/F3064M-15</del> <del>F3064/F3064M-18a</del> <del>Standard Specification for Control, Operational Characteristics and Installation of Instruments and Sensors of Propulsion Systems</del> <b>Standard Specification for Aircraft Powerplant Control, Operation, and Indication</b><br><del>F3066/F3066M-15</del> <del>F3066/F3066M-18</del> <del>Standard Specification for Powerplant Systems Specific Hazard Mitigation</del> <b>Standard Specification for Aircraft Powerplant Installation Hazard Mitigation</b> | With reference to ASTM <del>F3264-17</del> <b>F3264-18b</b> paragraph 8.9, ASTM <del>F3063-16a</del> <b>F3063-18</b> has been added as a means of complying with CS 23.2440.<br><b>F3062 revised from -16 to -18</b><br><b>F3063 revised from -16a to -18</b><br><b>F3064 revised from -15 to -18a</b><br><b>F3066 revised from -15 to -18</b> |
| 23.2445 <i>Powerplant installation information</i>     | none   | No AMC expected  |

## AMC1 CS-23 Subpart F — Systems and Equipment

| CS-23 Amendment 5  | (Ref ASTM <del>F44 F3264-17</del> <b>F3264-18b</b> Standard Specification for Normal Category Aeroplanes Certification)  | Remarks   |
|--|--|---|
| <b>SUBPART F – Systems and Equipment</b>                                     |  |   |
| <b>23.2500</b> <i>General requirements on systems and equipment function</i> | <p>9.1 <i>Systems and Equipment Function and Safety Requirements:</i></p> <p><a href="#">F3061/F3061M-17</a> Standard Specification for Systems and Equipment in Small Aircraft</p> <p><a href="#">F3230-17</a> Standard Practice for Safety Assessment of Systems and Equipment in Small Aircraft</p> <p><a href="#">F3231/F3231M-17</a> Standard Specification for Electrical Systems in Small Aircraft</p> <p><a href="#">F3235-17a</a> Standard Specification for Aircraft Storage Batteries</p> <p><a href="#">F3232/F3232M-17</a> Standard Specification for Flight Controls in Small Aircraft</p> <p><a href="#">F3233/F3233M-17</a> Standard Specification for Instrumentation in Small Aircraft</p> <p><a href="#">F3229/F3229M-17</a> Standard Practice for Static Pressure System Tests in Small Aircraft</p> <p><a href="#">F3309/F3309M-18</a> Standard practice for Simplified Safety Assessment of Systems and Equipment in Small Aircraft</p> <p><del>F3064/F3064M-15</del> <del>F3064/F3064M-18a</del> <del>Standard Specification for Control, Operational Characteristics and Installation of Instruments and Sensors of Propulsion Systems</del> <b>Standard Specification for Aircraft Powerplant Control, Operation, and Indication</b></p> <p><del>F3066/F3066M-15</del> <del>F3066/F3066M-18</del> <del>Standard Specification for Powerplant Systems Specific Hazard Mitigation</del> <b>Standard Specification for Aircraft Powerplant Installation Hazard Mitigation</b></p> <p><del>F3117-15</del> <del>F3117-18b</del> Standard Specification for Crew Interface in Aircraft</p> <p><b>F3120—15</b> Standard Specification for Ice Protection for General Aviation Aircraft</p> | <p><del>With reference to ASTM F3264-17 paragraph 9.1, updated ASTM F3235-17a is included as a means of complying with CS 23.2500.</del></p> <p><b>F3309 New</b></p> <p><b>F3064</b> revised from -15* to -18a</p> <p>* <b>F3064-15 § 6.2.1</b> must be complemented. <b>F3064-18 § 6.2.1.6</b> provides this AMC.</p> <p><b>F3066</b> revised from -15 to -18</p> <p><b>F3117</b> revised from -15 to -18b</p> <p><b>F3120-15</b> added as AMC</p> |
| <b>23.2505</b> <i>General requirements on equipment installation</i>         | <p>9.2 <i>Equipment Function and Installation Requirements:</i></p> <p><a href="#">F3061/F3061M-17</a> Standard Specification for Systems and Equipment in Small Aircraft</p> <p><a href="#">F3230-17</a> Standard Practice for Safety Assessment of Systems and Equipment in Small Aircraft</p> <p><a href="#">F3231/F3231M-17</a> Standard Specification for Electrical Systems in Small Aircraft</p> <p><a href="#">F3235-17a</a> Standard Specification for Aircraft Storage Batteries</p> <p><a href="#">F3232/F3232M-17</a> Standard Specification for Flight Controls in Small Aircraft</p> <p><a href="#">F3233/F3233M-17</a> Standard Specification for Instrumentation in Small Aircraft</p> <p><del>F3117-15</del> <del>F3117-18b</del> Standard Specification for Crew Interface in Aircraft</p>   | <p><del>With reference to</del> <b>Different from</b> ASTM <del>F3264-17</del> <del>F3264-18b</del> paragraph 9.2, <del>updated</del> ASTM <del>F3235-17a</del> <del>F3230-17</del> is included as a means of complying with CS 23.2505</p> <p><b>F3117</b> revised from -15 to -18b</p>  |

| CS-23 Amendment 5<br><br>SUBPART F – Systems and Equipment           | (Ref ASTM <del>F44 F3264-17</del> <b>F3264-18b</b> Standard Specification for Normal Category Aeroplanes Certification)   | Remarks  |
|--|---|--|
| 23.2510 <i>Equipment, systems, and installations</i>                 | 9.3 <i>Equipment, Systems, and Installation:</i><br><a href="#">F3061/F3061M-17</a> Standard Specification for Systems and Equipment in Small Aircraft<br><a href="#">F3230-17</a> Standard Practice for Safety Assessment of Systems and Equipment in Small Aircraft<br><a href="#">F3231/F3231M-17</a> Standard Specification for Electrical Systems in Small Aircraft<br><a href="#">F3235-17a</a> Standard Specification for Aircraft Storage Batteries<br><a href="#">F3232/F3232M-17</a> Standard Specification for Flight Controls in Small Aircraft<br><a href="#">F3233/F3233M-17</a> Standard Specification for Instrumentation in Small Aircraft<br><a href="#">F3229/F3229M-17</a> Standard Practice for Static Pressure System Tests in Small Aircraft<br><a href="#">F3227/F3227M-17</a> Standard Specification for Environmental Systems in Small Aircraft | <del>With reference to</del> Different from ASTM <del>F3264-17</del> <b>F3264-18b</b> paragraph 9.3, <del>updated</del> ASTM <del>F3235-17a</del> <b>F3231-17</b> and <b>F3229-17</b> are <del>is</del> included as a means of complying with CS 23.2510 |
| 23.2515 <i>Electrical and electronic system lightning protection</i> | 9.4 <i>Electrical and Electronic System Lightning Protection:</i><br><a href="#">F3061/F3061M-17</a> Standard Specification for Systems and Equipment in Small Aircraft   |  |
| 23.2520 <i>High-intensity radiated fields (HIRF) protection</i>      | 9.5 <i>High Intensity Radiated Fields (HIRF) Protection:</i><br><a href="#">F3061/F3061M-17</a> Standard Specification for Systems and Equipment in Small Aircraft<br><a href="#">F3236-17</a> Standard Specification for High Intensity Radiated Field (HIRF) Protection in Small Aircraft   |  |
| 23.2525 <i>System power generation, storage, and distribution</i>    | 9.6 <i>System Power Generation, Storage, and Distribution:</i><br><a href="#">F2490-05</a> Standard Guide for Aircraft Electrical Load and Power Source Capacity<br><a href="#">F3061/F3061M-17</a> Standard Specification for Systems and Equipment in Small Aircraft<br><a href="#">F3231/F3231M-17</a> Standard Specification for Electrical Systems in Small Aircraft<br><a href="#">F3235-17a</a> Standard Specification for Aircraft Storage Batteries<br><a href="#">F3233/F3233M-17</a> Standard Specification for Instrumentation in Small Aircraft<br><del><a href="#">F3117-15</a></del> <b><a href="#">F3117-18b</a></b> Standard Specification for Crew Interface in Aircraft<br><b><a href="#">F3120—15</a></b> Standard Specification for Ice Protection for General Aviation Aircraft   | <del>With reference to</del> Different from ASTM <del>F3264-17</del> <b>F3264-18b</b> paragraph 9.6, <del>updated</del> ASTM <del>F3235-17a</del> is included as a means of complying with CS 23.2525<br><b><a href="#">F3120-15</a></b> added as AMC    |

| CS-23 Amendment 5<br><br>SUBPART F – Systems and Equipment                                 | (Ref ASTM <del>F44</del> <del>F3264-17</del> <del>F3264-18b</del> Standard Specification for Normal Category Aeroplanes Certification)  | Remarks   |
|--|---|---|
| 23.2530 External and cockpit lighting  | 9.7 External and Cockpit Lighting:<br><a href="#">F3061/F3061M-17</a> Standard Specification for Systems and Equipment in Small Aircraft<br><a href="#">F3233/F3233M-17</a> Standard Specification for Instrumentation in Small Aircraft<br><a href="#">F3234/F3234M-17</a> Standard Specification for Exterior Lighting in Small Aircraft<br><del>F3117-15</del> <a href="#">F3117-18b</a> Standard Specification for Crew Interface in Aircraft<br><a href="#">F3120-15</a> Standard Specification for Ice Protection for General Aviation Aircraft | <a href="#">F3117</a> revised from -15 to -18b<br><a href="#">F3120-15</a> added as AMC |
| 23.2535 Safety equipment   | 9.8 Safety Equipment:<br><a href="#">F3061/F3061M-17</a> Standard Specification for Systems and Equipment in Small Aircraft   |   |
| 23.2540 Flight in icing conditions   | 9.9 Flight in Icing Conditions:<br><a href="#">F3061/F3061M-17</a> Standard Specification for Systems and Equipment in Small Aircraft<br><a href="#">F3233/F3233M-17</a> Standard Specification for Instrumentation in Small Aircraft<br><a href="#">F3120/F3120M-15</a> Standard Specification for Ice Protection for General Aviation Aircraft  |   |
| 23.2545 Pressurised systems elements   | 9.10 Pressurized System Elements:<br><a href="#">F3061/F3061M-17</a> Standard Specification for Systems and Equipment in Small Aircraft<br><a href="#">F3229/F3229M-17</a> Standard Practice for Static Pressure System Tests in Small Aircraft   | <a href="#">F3229-17</a> added as AMC   |
| 23.2550 reserved   |   |   |
| 23.2555 Installation of recorders (e.g. cockpit voice recorders and flight data recorders) | 9.12 Installation of Cockpit recorders:<br><a href="#">F3061/F3061M-17</a> Standard Specification for Systems and Equipment in Small Aircraft<br><a href="#">F3228-17</a> Standard Specification for Flight Data and Voice Recording in Small Aircraft<br>9.13 Installation of Flight Data Recorders:<br><a href="#">F3061/F3061M-17</a> Standard Specification for Systems and Equipment in Small Aircraft<br><a href="#">F3228-17</a> Standard Specification for Flight Data and Voice Recording in Small Aircraft                                  |   |

## AMC1 CS-23 Subpart G — Flight Crew Interface and other Information

| CS-23 Amendment 5  | (Ref ASTM <del>F44 F3264-17</del> <b>F3264-18b</b> Standard Specification for Normal Category Aeroplanes Certification)   | Remarks   |
|--|---|---|
| <b>SUBPART G – Flight Crew Interface and other Information</b> |   |   |
| <b>23.2600</b> <i>Flight crew compartment</i>                  | <p>10.1 <i>Flightcrew Compartment Interface:</i></p> <p><a href="#">F3061/F3061M-17</a> Standard Specification for Systems and Equipment in Small Aircraft</p> <p><a href="#">F3232/F3232M-17</a> Standard Specification for Flight Controls in Small Aircraft</p> <p><del><a href="#">F3062/F3062M-16</a> <a href="#">F3062/F3062M-18</a> Standard Specification for Installation of Powerplant Systems</del> <b>Standard Specification for Aircraft Powerplant Installation</b></p> <p><del><a href="#">F3063/F3063M-16a</a> <a href="#">F3063/F3063M-18a</a> Standard Specification for Design and Integration of Fuel/Energy Storage and Delivery System Installations for Aeroplanes</del> <b>Standard Specification for Aircraft Fuel and Energy Storage and Delivery</b></p> <p><del><a href="#">F3064/F3064M-15</a> <a href="#">F3064/F3064M-18a</a> Standard Specification for Control, Operational Characteristics and Installation of Instruments and Sensors of Propulsion Systems</del> <b>Standard Specification for Aircraft Powerplant Control, Operation, and Indication</b></p> <p><del><a href="#">F3117-15</a></del> <b><a href="#">F3117-18b</a></b> Standard Specification for Crew Interface in Aircraft</p> | <p><b>F3062</b> revised from -16 to -18</p> <p><b>F3063</b> revised from -16a to -18a</p> <p><b>F3064</b> revised from -15 to -18a</p> <p><b>F3117</b> revised from -15 to -18b</p> <p>Except as follows:</p> <p>ASTM F3264-17 does not contain standards for windshield luminous transmittance. Windshield luminous transmittance must be addressed in showing compliance with CS 23.2600(a). Applicants may use the provisions of CS 23.775(e) at amendment as a means of complying with CS 23.2600(a), or may propose a different means of compliance in accordance with CS 23.2010.</p> <p>ASTM F3264-17 does not contain standards that ensure the required pilot compartment view is provided in conditions of fog or frost formation on the internal portion of the windshield and side windows. Pilot compartment view with formation of fog or frost must be addressed in showing compliance with CS 23.2600(a). Applicants may use the provisions of CS 23.773(b) at Amendment 4 as a means of complying with this aspect of CS 23.2600(a), or may propose a different means of compliance in accordance with CS 23.2010.</p> |

| CS-23 Amendment 5<br><br>SUBPART G – Flight Crew Interface and other Information | (Ref ASTM <del>F44 F3264-17</del> <b>F3264-18b</b> Standard Specification for Normal Category Aeroplanes Certification)  | Remarks  |
|--|--|--|
| 23.2605 <i>Installation and operation information</i>                            | <p>10.2 <i>Installation and Operation Information:</i></p> <p><del>F3061/F3061M-17</del> Standard Specification for Systems and Equipment in Small Aircraft<br/> <del>F3232/F3232M-17</del> Standard Specification for Flight Controls in Small Aircraft<br/> <del>F3233/F3233M-17</del> Standard Specification for Instrumentation in Small Aircraft<br/> <del>F3231/F3231M-17</del> Standard Specification for Electrical Systems in Small Aircraft<br/> <del>F3227/F3227M-17</del> Standard Specification for Environmental Systems in Small Aircraft<br/> <del>F3062/F3062M-16</del> <del>F3062/F3062M-18</del> <del>Standard Specification for Installation of Powerplant Systems</del> <b>Standard Specification for Aircraft Powerplant Installation</b><br/> <del>F3063/F3063M-16a</del> <del>F3063/F3063M-18a</del> <del>Standard Specification for Design and Integration of Fuel/Energy Storage and Delivery System Installations for Aeroplanes</del> <b>Standard Specification for Aircraft Fuel and Energy Storage and Delivery</b><br/> <del>F3064/F3064M-15</del> <del>F3064/F3064M-18a</del> <del>Standard Specification for Control, Operational Characteristics and Installation of Instruments and Sensors of Propulsion Systems</del> <b>Standard Specification for Aircraft Powerplant Control, Operation, and Indication</b><br/> <del>F3117-15</del> <b>F3117-18b</b> Standard Specification for Crew Interface in Aircraft<br/> F3120/F3120M-15 Standard Specification for Ice Protection for General Aviation Aircraft</p> | <p><b>F3062</b> revised from -16 to -18<br/> <b>F3063</b> revised from -16a to -18a<br/> <b>F3064</b> revised from -15* to -18a<br/> * F3064-15 § 6.2.1 must be complemented. F3064-18 § 6.2.1.6 provides this AMC.<br/> <b>F3117</b> revised from -15 to -18b</p> |
| 23.2610 <i>Instrument markings, control markings and placards</i>                | <p>10.3 <i>Instrument Markings, Control Markings, and Placards:</i></p> <p><del>F3061/F3061M-17</del> Standard Specification for Systems and Equipment in Small Aircraft<br/> <del>F3063/F3063M-16a</del> <del>F3063/F3063M-18a</del> <del>Standard Specification for Design and Integration of Fuel/Energy Storage and Delivery System Installations for Aeroplanes</del> <b>Standard Specification for Aircraft Fuel and Energy Storage and Delivery</b><br/> <del>F3117-15</del> <b>F3117-18b</b> Standard Specification for Crew Interface in Aircraft<br/> <del>F3120-15</del> <b>Standard Specification for Ice Protection for General Aviation Aircraft</b></p>   | <p><b>F3063</b> revised from -16a to -18a<br/> <b>F3117</b> revised from -15 to -18b<br/> <b>F3120-15</b> added as AMC</p>   |
| 23.2615 <i>Flight, navigation, and powerplant instruments</i>                    | <p>10.4 <i>Flight, Navigation, and Powerplant Instruments:</i></p> <p><del>F3061/F3061M-17</del> Standard Specification for Systems and Equipment in Small Aircraft<br/> <del>F3062/F3062M-16</del> <del>F3062/F3062M-18</del> <del>Standard Specification for Installation of Powerplant Systems</del> <b>Standard Specification for Aircraft Powerplant Installation</b><br/> <del>F3064/F3064M-15</del> <del>F3064/F3064M-18a</del> <del>Standard Specification for Control, Operational Characteristics and Installation of Instruments and Sensors of Propulsion Systems</del> <b>Standard Specification for Aircraft Powerplant Control, Operation, and Indication</b></p>   | <p><b>F3062</b> revised from -16 to -18<br/> <b>F3064</b> revised from -15* to -18a<br/> * F3064-15 § 6.2.1 must be complemented. F3064-18 § 6.2.1.6 provides this AMC.</p>  |

| <b>CS-23 Amendment 5</b><br><br><b>SUBPART G – Flight Crew Interface and other Information</b> | <b>(Ref ASTM F44 <del>F3264-17</del> F3264-18b Standard Specification for Normal Category Aeroplanes Certification)</b>  | <b>Remarks</b>  |
|--|--|---|
| <b>23.2620</b> <i>Aeroplane Flight Manual</i>  | 10.5 <i>Airplane Flight Manual:</i><br><del>F3117-15</del> <del>F3117-18b</del> Standard Specification for Crew Interface in Aircraft<br><del>F3174/F3174M-15</del> <del>F3174/F3174M-18</del> Standard Specification for Establishing Operating Limitations and Information for Aeroplanes<br><u>F3120—15 Standard Specification for Ice Protection for General Aviation Aircraft</u> | <u>F3117 revised from -15 to -18b</u><br><u>F3174 revised from -15 to -18</u><br><u>F3120-15 added as AMC</u> |
| <b>23.2625</b> <i>Instructions for Continued Airworthiness</i>                                 | 10.6 <i>Instructions for Continued Airworthiness:</i><br><u>F3120/F3120M-15</u> Standard Specification for Ice Protection for General Aviation Aircraft<br><del>F3117-15</del> <del>F3117-18b</del> Standard Specification for Crew Interface in Aircraft  | <u>F3117 revised from -15 to -18b</u>   |

## AMC2&3 CS-23/CS-VLA Subpart B — Flight

| CS-23 Amendment 5<br>SUBPART B - Flight          | AMC2 (CS-23 Amendment 4)  | Remarks | AMC3 (CS-VLA Amendment 1)   | Remarks |
|--|---|---------|---|---------|
| <b>23.2100</b> <i>Mass and centre of gravity</i> | 23.21 Proof of compliance<br>23.23 Load distribution limits<br>23.25 Weight limits<br>23.29 Empty weight and corresponding centre of gravity<br>23.31 Removable ballast<br>23.871 Levelling means |         | VLA.21 Proof of compliance<br>VLA.23 Load distribution limits<br>VLA.25 Weight limits<br>VLA.29 Empty weight and corresponding centre of gravity<br>VLA.871 Levelling means |         |
| <b>23.2105</b> <i>Performance data</i>           | 23.45 Performance - General   |         | VLA.45 Performance - General  |         |
| <b>23.2110</b> <i>Stall speed</i>                | 23.49 Stalling speed  |         | VLA.49 Stalling speed   |         |
| <b>23.2115</b> <i>Take-off performance</i>       | 23.51 Take-off speeds<br>23.53 Take-off performance<br>23.55 Accelerate-stop distance<br>23.57 Take-off path<br>23.59 Take-off distance and take-off run<br>23.61 Take-off flight path            |         | VLA.51 Take-off speeds  |         |
| <b>23.2120</b> <i>Climb requirements</i>         | 23.63 Climb: General<br>23.65 Climb: All engines operating  |         | VLA.65 Climb: All engines operating   |         |
| <b>23.2125</b> <i>Climb information</i>          | 23.66 Take-off climb: one engine inoperative<br>23.67 Climb: One engine inoperative<br>23.69 En route climb/descent<br>23.71 Glide: single engine aeroplanes                                      |         | None  |         |
| <b>23.2130</b> <i>Landing</i>                    | 23.73 Reference landing approach speed<br>23.75 Landing distance<br>23.77 Balked landing  |         | VLA.75 Landing distance<br>VLA.77 Balked landing  |         |

| CS-23 Amendment 5<br>SUBPART B - Flight                               | AMC2 (CS-23 Amendment 4)   | Remarks  | AMC3 (CS-VLA Amendment 1)   | Remarks  |
|---|--|--|---|--|
| <b>23.2135</b> <i>Controllability</i>                                 | 23.141 Flight Characteristics -General<br>23.143 Controllability and Manoeuvrability - General<br>23.145 Longitudinal control<br>23.147 Directional and lateral control<br>23.149 Minimum control speed<br>23.151 Acrobatic manoeuvres<br>23.153 Control during landings<br>23.155 Elevator control force in manoeuvres<br>23.157 Rate of roll |  | VLA.141 Flight Characteristics -General<br>VLA.143 Controllability and Manoeuvrability - General<br>VLA.145 Longitudinal control<br>VLA.153 Control during landings<br>VLA.155 Elevator control force in manoeuvres<br>VLA.157 Rate of roll |  |
| <b>23.2140</b> <i>Trim</i>  | 23.161 Trim  |  | VLA.161 Trim  |  |
| <b>23.2145</b> <i>Stability</i>                                       | 23.171 Stability – General<br>23.173 Static longitudinal stability<br>23.175 Demonstration of static longitudinal stability<br>23.177 Static directional and lateral stability<br>23.181 Dynamic stability   |  | VLA.171 Stability – General<br>VLA.173 Static longitudinal stability<br>VLA.175 Demonstration of static longitudinal stability<br>VLA.177 Static directional and lateral stability<br>VLA.181 Dynamic stability                             |  |
| <b>23.2150</b> <i>Stall characteristics, stall warning, and spins</i> | 23.201 Wings level stall<br>23.203 Turning Flight and accelerated turning stalls<br>23.207 Stall Warning<br>23.221 Spinning  | CS 23.2150 (b) and (c) are not covered by AMC2. Applicants may use the provision in ASTM <del>F3180-16</del> F3180-18 to show compliance with CS 23.2150 | VLA.201 Wings level stall<br>VLA.203 Turning Flight and accelerated turning stalls<br>VLA.207 Stall Warning<br>VLA.221 Spinning   | <del>CS 23.2150 (b) and (c) are not covered by AMC3. Applicants may use the provision in ASTM F3180-16 to show compliance with CS 23.2150</del> VLA.221(a) is not accepted as AMC to 23.2150, only VLA.221(b) can be used. |
| <b>23.2155</b> <i>Ground and water handling characteristics</i>       | 23.231 Longitudinal stability and control<br>23.233 Directional stability and control<br>23.235 Operation on unpaved surfaces<br>23.237 Operation on water<br>23.239 Spray characteristics   |  | VLA.231 Longitudinal stability and control<br>VLA.233 Directional stability and control<br>VLA.235 Operation on unpaved surfaces<br>VLA.239 Spray characteristics   |  |

| <b>CS-23 Amendment 5</b>   | <b>AMC2 (CS-23 Amendment 4)</b>  | <b>Remarks</b> | <b>AMC3 (CS-VLA Amendment 1)</b>   | <b>Remarks</b> |
|--|--|----------------|--|----------------|
| <b>SUBPART B - Flight</b>  |  |                |  |                |
| <b>23.2160</b> <i>Vibration, buffeting, and high-speed characteristics</i>                               | 23.251 Vibration and buffeting<br>23.253 High-speed characteristics  |                | VLA.251 Vibration and buffeting  |                |
| <b>23.2165</b> <i>Performance and flight characteristics requirements for flight in icing conditions</i> | 23.1419 Ice Protection   |                | None   |                |
| <b>23.2170</b> <i>Operating limitations</i>  | 23.1501 General<br>23.1505 Airspeed limitations<br>23.1507 Manoeuvring speed<br>23.1511 Flap extended speed<br>23.1513 Minimum control speed<br>23.1519 Weight and centre of gravity<br>23.1527 Maximum operating altitude |                | VLA.1501 General<br>VLA.1505 Airspeed limitations<br>VLA.1507 Manoeuvring speed<br>VLA.1511 Flap extended speed<br>VLA.1519 Weight and centre of gravity |                |



| <b>CS-23 Amendment 5</b>                               | <b>AMC2 (CS-23 Amendment 4)</b>  | <b>Remarks</b>                        | <b>AMC3 (CS-VLA Amendment 1)</b>   | <b>Remarks</b>  |
|--|--|---------------------------------------|--|-----------------|
| <b>SUBPART C - Structure</b>                           |  |                                       |  |                 |
| <b>23.2215</b> <i>Flight load conditions</i>           | 23.331 Symmetrical flight conditions<br>23.333 (c) Flight envelope<br>23.347 Unsymmetrical flight loads<br>23.349 Rolling conditions<br>23.351 Yawing conditions<br>23.367 Unsymmetrical loads due to engine failure   |                                       | VLA.331 Symmetrical flight conditions<br>VLA.333 Flight envelope<br>VLA.347 Unsymmetrical flight loads<br>VLA.349 Rolling conditions<br>VLA.351 Yawing conditions  |                 |
| <b>23.2220</b> <i>Ground and water load conditions</i> | 23.477 Landing gear arrangement<br>23.479 level landing conditions<br>23.481 Tail down landing conditions<br>23.483 One-wheel landing conditions<br>23.485 Side load conditions<br>23.493 Braked roll conditions<br>23.505 Supplementary conditions for ski-planes<br>23.529 Hull and main float landing conditions<br>23.531 Hull and main float take-off conditions<br>23.731 Wheels | With Appendix C<br>With Appendix C, D | VLA.477 Landing gear arrangement<br>VLA.479 level landing conditions<br>VLA.481 Tail down landing conditions<br>VLA.483 One-wheel landing conditions<br>VLA.485 Side load conditions<br>VLA.493 Braked roll conditions<br>VLA.505 Supplementary conditions for skiplanes<br>VLA.731 Wheels   | With Appendix C |
| <b>23.2225</b> <i>Component loading conditions</i>     | 23.302 Canard or tandem wing configurations<br>23.361 Engine torque<br>23.363 Side load on engine mount<br>23.365 Pressurized cabin loads<br>23.369 Rear lift truss<br>23.371 Gyroscopic and aerodynamic loads<br>23.373 Speed control devices<br>23.391 Control surface loads<br>23.393 Loads parallel to hinge line  |                                       | VLA.361 Engine torque<br>VLA.363 Side load on engine mount<br>VLA.369 Rear lift truss<br>VLA.373 Speed control devices<br>VLA.391 Control surface loads<br>VLA.395 Control system loads<br>VLA.397 Limit control forces and torques<br>VLA.399 Dual control system<br>VLA.405 Secondary control system<br>VLA.407 Trim tab effects | With Appendix B |

| CS-23 Amendment 5<br>SUBPART C - Structure     | AMC2 (CS-23 Amendment 4)  | Remarks         | AMC3 (CS-VLA Amendment 1)   | Remarks   |
|--|---|-----------------|---|---|
|  | 23.395 Control system loads<br>23.397 Limit control forces and torques<br>23.399 Dual control system<br>23.405 Secondary control system<br>23.407 Trim tab effects<br>23.409 Tabs<br>23.415 Ground gust conditions<br>23.421 Balancing loads<br>23.423 Manoeuvring loads<br>23.425 Gust loads<br>23.427 Unsymmetrical loads<br>23.441 Manoeuvring loads<br>23.443 Gust loads<br>23.445 Outboard fins or winglets<br>23.455 Ailerons<br>23.459 Special devices<br>23.497 Supplementary conditions for tail wheels<br>23.499 Supplementary conditions for nose wheels<br>23.533 Hull and main float bottom pressures<br>23.535 Auxiliary float loads<br>23.659 Mass Balance | With Appendix I | VLA.409 Tabs<br>VLA.415 Ground gust conditions<br>VLA.421 Balancing loads<br>VLA.423 Manoeuvring loads<br>VLA.425 Gust loads<br>VLA.427 Unsymmetrical loads<br>VLA.441 Manoeuvring loads<br>VLA.443 Gust loads<br>VLA.445 Outboard fins or winglets<br>VLA.447 Combined loads on tail surfaces<br>VLA.449 Additional loads applicable to V-tails<br>VLA.455 Ailerons<br>VLA.457 Wing flaps<br>VLA.459 Special devices<br>VLA.497 Supplementary conditions for tail wheels<br>VLA.499 Supplementary conditions for nose wheels<br>VLA.659 Mass Balance | With Appendix B<br>With Appendix B<br><br>With Appendix B<br>With Appendix B<br><br>With Appendix B |
| <b>23.2230</b> <i>Limit and ultimate loads</i> | 23.301 (a) Loads<br>23.303 Factors of safety  |                 | VLA.301 Loads<br>VLA.303 Factors of safety  |   |
| <b>23.2235</b> <i>Structural strength</i>      | 23.305 Strength and deformation<br>23.307 Proof of structure<br>23.641 Proof of strength - Wings<br>23.651 Proof of strength - Control surfaces<br>23.659 Mass Balance  |                 | VLA.305 Strength and deformation<br>VLA.307 Proof of structure<br>VLA.641 Proof of strength - Wings<br>VLA.651 Proof of strength - Control surfaces<br>VLA.659 Mass Balance   |   |

| CS-23 Amendment 5<br>SUBPART C - Structure               | AMC2 (CS-23 Amendment 4)  | Remarks | AMC3 (CS-VLA Amendment 1)  | Remarks |
|--|---|---------|--|---------|
|  | 23.681 (a) Limit load static tests - Control System<br>23.723 Shock absorption tests<br>23.725 Limit drop tests<br>23.726 Ground load dynamic tests<br>23.727 Reserve energy absorption drop tests<br>23.729 (a) Landing gear extension and retraction system<br>23.737 Skis<br>23.843 (a) Pressurization tests<br>23.1435 (a)(1) Hydraulic Systems   |         | VLA.681 Limit load static tests - Control System<br>VLA.723 Shock absorption tests<br>VLA.725 Limit drop tests<br>VLA.726 Ground load dynamic tests<br>VLA.727 Reserve energy absorption drop tests<br>VLA.729 Landing gear extension and retraction system<br>VLA.737 Skis<br>VLA.1436 Hydraulic manually-powered brake systems |         |
| <b>23.2240</b> <i>Structural durability</i>              | 23.571 Metallic pressurized cabin structures<br>23.572 Metallic wing, empennage, and associated structures<br>23.573 Damage tolerance and fatigue evaluation of structure<br>23.574 Metallic damage tolerance and fatigue evaluation of commuter category aeroplanes<br>23.575 Inspections and other procedures<br>23.627 Fatigue strength<br>23.1461 Equipment containing high-energy rotors |         | VLA.572 Metallic wing, empennage, and associated structures<br>VLA.627 Fatigue strength  |         |
| <b>23.2245</b> <i>Aeroelasticity</i>                     | 23.629 Flutter<br>23.687 Spring devices<br>23.677 (c) Trim systems  |         | VLA.629 Flutter<br>VLA.687 Spring devices<br>VLA.677 Trim systems  |         |
| <b>23.2250</b> <i>Design and construction principles</i> | 23.601 General<br>23.603 Materials and workmanship<br>23.683 Operation tests<br>23.687 Spring devices<br>23.689 Cable systems   |         | VLA.601 General<br>VLA.603 Materials and workmanship<br>VLA.683 Operation tests<br>VLA.687 Spring devices<br>VLA.689 Cable systems   |         |

| CS-23 Amendment 5<br>SUBPART C - Structure      | AMC2 (CS-23 Amendment 4)  | Remarks | AMC3 (CS-VLA Amendment 1)   | Remarks |
|---|---|---------|---|---------|
|   | 23.731 Wheels<br>23.733 (a), (c) Tires<br>23.735 (b) Brakes<br>23.775 (b), (c), (d) Windshields and windows<br>23.783 (b), (c)(1), (e) Doors<br>23.807 (d)(2) Emergency Exits<br>23.859 (b) through (i) Combustion heater fire protection<br>23.1323 Airspeed indicating system<br>23.1325 (a) through (e) Static Pressure System<br>23.1435 (a)(3), (c) Hydraulic Systems<br>23.1445 (a), (b) Oxygen distribution system |         | VLA.731 Wheels<br>VLA.733 Tires<br>VLA.735 Brakes<br>VLA.775 Windshields and windows<br>VLA.783 Exits<br>VLA.807 Emergency Exits<br>VLA.1323 Airspeed indicating system<br>VLA.1325 Static Pressure System<br>VLA.1436 Hydraulic manually-powered brake systems |         |
| <b>23.2255</b> <i>Protection of structure</i>   | 23.607 Fasteners<br>23.609 Protection of Structure<br>23.611 Accessibility<br>23.689 (a)(3) Cable systems   |         | VLA.607 Self-locking nuts<br>VLA.609 Protection of Structure<br>VLA.611 Accessibility<br>VLA.689 Cable systems  |         |
| <b>23.2260</b> <i>Materials and processes</i>   | 23.603 Materials and workmanship<br>23.605 Fabrication methods<br>23.613 Material strength properties and design values   |         | VLA.603 Materials and workmanship<br>VLA.605 Fabrication methods<br>VLA.613 Material strength properties and design values  |         |
| <b>23.2265</b> <i>Special factors of safety</i> | 23.619 Special factors<br>23.621 Casting factors<br>23.623 Bearing factors<br>23.625 Fitting factors<br>23.657 Hinges<br>23.681 (b) Limit load static tests - Control System<br>23.693 Joints   |         | VLA.619 Special factors<br>VLA.621 Casting factors<br>VLA.623 Bearing factors<br>VLA.625 Fitting factors<br>VLA.657 Hinges<br>VLA.681 Limit load static tests - Control System<br>VLA.693 Joints<br>VLA.785 Seats, safety belts, and harnesses                  |         |

| CS-23 Amendment 5<br>SUBPART C - Structure | AMC2 (CS-23 Amendment 4)   | Remarks         | AMC3 (CS-VLA Amendment 1)   | Remarks |
|--|--|-----------------|---|---------|
|  | 23.785 Seats, berths, litters, safety belts, and shoulder harnesses  |                 |   |         |
| 23.2270 <i>Emergency Conditions</i>        | 23.561 Emergency Landing Conditions - General<br>23.562 Emergency landing dynamic conditions<br>23.785 Seats, berths, litters, safety belts, and shoulder harnesses<br>23.787 Baggage and cargo compartments<br>23.1411 (b) Safety equipment - General | With Appendix J | VLA.561 Emergency Landing Conditions - General<br>VLA.785 Seats, safety belts, and harnesses<br>VLA.787 Baggage compartments<br>VLA.1411 Safety equipment - General |         |

## AMC2&3 CS-23/CS-VLA Subpart D — Design and Construction

| CS-23 Amendment 5<br>SUBPART D – Design<br>and Construction | AMC2 (CS-23 Amendment 4)  | Remarks | AMC3 (CS-VLA Amendment 1)  | Remarks |
|---|---|---------|--|---------|
| <b>23.2300</b> <i>Flight control systems</i>                | 23.655 Installation<br>23.671 (a) Control systems - General<br>23.672 (b), (c) Stability augmentation and automatic and power-operated systems<br>23.673 Primary flight controls<br>23.675 Stops<br>23.677 (a), (b) Trim systems<br>23.679 (c) Control system locks<br>23.683 Operation tests<br>23.685 Control system details<br>23.687 Spring devices<br>23.697 Wing flap controls<br>23.701 Flap interconnection<br>23.1329 (b) Automatic Pilot System |         | VLA.655 Installation<br>VLA.671 Control systems - General<br>VLA.673 Primary flight controls<br>VLA.675 Stops<br>VLA.677 Trim systems<br>VLA.679 Control system locks<br>VLA.683 Operation tests<br>VLA.685 Control system details<br>VLA.687 Spring devices<br>VLA.697 Wing flap controls<br>VLA.701 Flap interconnection |         |
| <b>23.2305</b> <i>Landing gear systems</i>                  | 23.721 General<br>23.729 (b), (c), (g) Landing gear extension and retraction system<br>23.735 (a), (b), (c), (e) Brakes<br>23.745 Nose/Tail wheel steering  |         | VLA.729 Landing gear extension and retraction system<br>VLA.735 Brakes   |         |
| <b>23.2310</b> <i>Buoyancy for seaplanes and amphibians</i> | 23.751 Main float buoyancy<br>23.755 Hulls<br>23.757 Auxiliary floats   |         | VLA.751 Main float buoyancy<br>VLA.757 Auxiliary floats  |         |

| CS-23 Amendment 5<br>SUBPART D – Design<br>and Construction      | AMC2 (CS-23 Amendment 4)   | Remarks | AMC3 (CS-VLA Amendment 1)  | Remarks |
|--|--|---------|--|---------|
| <p><b>23.2315</b> <i>Means of egress and emergency exits</i></p> | <p>23.783 (a), (b), (c)(2), (c)(3), (c)(4), (c)(5), (c)(6), (d), (f), (g) Doors<br/> 23.787 Baggage and cargo compartments<br/> 23.803 Emergency evacuation<br/> 23.805 Flight crew emergency exits<br/> 23.807 (a), (b)(1), (b)(2), (b)(3), (b)(4), (b)(5), (b)(6) (d)(1), (d)(3), (d)(4), (c), (e) Emergency exits<br/> 23.811 Emergency exit marking<br/> 23.812 Emergency lighting<br/> 23.813 Emergency exit access<br/> 23.815 Width of aisle</p>  |         | <p>VLA.783 Exits<br/> VLA.787 Baggage compartments<br/> VLA.807 Emergency exits</p>            |         |
| <p><b>23.2320</b> <i>Occupant physical environment</i></p>       | <p>23.831 (a), (b), (c) Ventilation<br/> 23.841 (a), (b)(1), (b)(2), (b)(3), (b)(4), (b)(8), (c), (d)(1), (d)(2), (d)(3) Pressurized cabins<br/> 23.843 Pressurization tests<br/> 23.771 (b), (c) Pilot compartment<br/> 23.775 (a), (h)(1) Windshields and windows<br/> 23.791 Passenger information signs<br/> 23.1441 Oxygen Equipment and supply<br/> 23.1443 Minimum mass flow of supplemental oxygen<br/> 23.1445 Oxygen distribution system<br/> 23.1447 Equipment standards for oxygen dispensing units<br/> 23.1449 Means for determining use of oxygen<br/> 23.1450 (a), (b) Chemical oxygen generators<br/> 23.1451 Fire protection for oxygen equipment<br/> 23.1461 Equipment containing high-energy rotors</p> |         | <p>VLA.831 Ventilation<br/> VLA.771 Pilot compartment<br/> VLA.775 Windshields and windows</p> |         |

| CS-23 Amendment 5<br>SUBPART D – Design<br>and Construction | AMC2 (CS-23 Amendment 4)  | Remarks   | AMC3 (CS-VLA Amendment 1)  | Remarks         |
|---|---|---|--|-----------------|
| 23.2325 <i>Fire protection</i>                              | 23.1453 Protection of oxygen equipment from rupture<br>23.851 Fire extinguishers<br>23.853 Passenger and crew compartment interiors<br>23.855 Cargo and baggage compartment fire protection<br>23.859 (a) Combustion heater fire protection<br>23.863 Flammable Fluid Fire Protection<br>23.1337 (a) Powerplant instruments installation<br>23.1351 Electrical system: General<br>23.1359 (a), (c) Electrical System fire protection<br>23.1383 (d) Taxi and landing lights<br>23.1385 (d) Position light system installation | With Appendix F<br><br>With Appendix F<br><br><br><br><br><br><br>With Appendix F | VLA.853 Passenger and crew compartment interiors<br>VLA.857 Electrical bonding<br>VLA.863 Flammable Fluid Fire Protection<br>VLA.1337 Powerplant instruments installation<br>VLA.1351 Electrical system: General<br>VLA.1384 External lights | With Appendix F |
| 23.2330 <i>Fire protection in designated fire zones</i>     | 23.865 Fire protection of flight controls, engine mounts, and other flight structure<br>23.1359 (a), (b) Electrical System fire protection<br>23.1365 (b) Electrical Cables and equipment   | With Appendix F   | VLA.865 Fire protection of flight controls and other flight structure<br>VLA.1365 Electrical Cables and equipment  |                 |
| 23.2335 <i>Lightning protection</i>                         | 23.867 Electrical bonding and protection against lightning and static electricity<br>23.1365 Electrical Cables and equipment  |   | VLA.857 Electrical bonding<br><br>VLA.1365 Electrical Cables and equipment   |                 |
| 23.2340 <i>Design and construction information</i>          | 23.1523 Minimum Flight Crew<br>23.1524 Maximum passenger seating configuration<br>23.1529 Instructions for continued airworthiness<br>23.1541 Markings and placards: General  | With Appendix G   | VLA.1529 Instructions for continued airworthiness<br>VLA.1541 Markings and placards: General   |                 |

## AMC2&3 CS-23/CS-VLA Subpart E — Powerplant

| CS-23 Amendment 5<br>SUBPART E –              | AMC2 (CS-23 Amendment 4)  | Remarks | AMC3 (CS-VLA Amendment 1)  | Remarks |
|---|---|---------|--|---------|
| <b>23.2400</b> <i>Powerplant installation</i> | 23.33 Propeller speed and pitch limits<br>23.901 Installation<br>23.903 (a), (b), (d) through (g) Engines and auxiliary power units<br>23.905 (a), (b), (d) through (h) Propellers<br>23.907 Propeller vibration<br>23.909 (a), (c), (d), (e) Turbocharger systems<br>23.925 Propeller clearance<br>23.934 Turbojet and turbofan engine thrust reverser systems tests<br>23.943 Negative acceleration<br>23.951 Fuel System - General<br>23.955 Fuel Flow<br>23.957 (b) Flow between interconnected tanks<br>23.963 (b), (c) Fuel tanks: general<br>23.967 (a), (b) Fuel tank installation<br><del>25.975</del> <span style="color: cyan;">23.975</span> Fuel tank vents and carburettor vapour vents<br><del>27.979</del> <span style="color: cyan;">23.979</span> Pressure fuelling systems<br>23.997 (a), (c), (d) Fuel strainer or filter<br>23.999 Fuel system drains<br>23.1001 (a) through (f) Fuel jettisoning system<br>23.1011 Oil system General<br>23.1013 Oil tanks<br>23.1015 Oil tank tests<br>23.1017 Oil lines and fittings<br>23.1019 Oil strainer or filter<br>23.1021 Oil system drains |         | VLA.33 Propeller speed and pitch limits<br>VLA.901 Installation<br>VLA.903 Engine<br>VLA.905 Propeller<br>VLA.907 Propeller vibration<br>VLA.909 Supercharger<br>VLA.925 Propeller clearance<br>VLA.943 Negative acceleration<br>VLA.951 Fuel System - General<br>VLA.955 Fuel Flow<br>VLA.957 Flow between interconnected tanks<br>VLA.963 Fuel tanks: general<br>VLA.967 Fuel tank installation<br>VLA.975 Fuel tank vents and carburettor vapour vents<br>VLA.999 Fuel system drains<br>VLA.1011 Oil system General<br>VLA.1013 Oil tanks<br>VLA.1015 Oil tank tests<br>VLA.1017 Oil lines and fittings<br>VLA.1019 Oil strainer or filter<br>VLA.1021 Oil system drains<br>VLA.1023 Oil radiators<br>VLA.1041 Cooling – General<br>VLA.1047 Cooling test procedures for reciprocating engine aeroplanes<br>VLA.1061 Installation<br>VLA.1063 Coolant tank tests<br>VLA.1101 Carburettor air preheater design |         |

| CS-23 Amendment 5<br>SUBPART E – | AMC2 (CS-23 Amendment 4)   | Remarks | AMC3 (CS-VLA Amendment 1)   | Remarks |
|----------------------------------|--|---------|---|---------|
|                                  | 23.1023 Oil radiators<br>23.1027 Propeller feathering system<br>23.1041 Cooling – General<br>23.1043 Cooling tests<br>23.1045 Cooling test procedures for turbine engine powered aeroplanes<br>23.1047 Cooling test procedures for reciprocating engine powered aeroplanes<br>23.1061 Installation<br>23.1063 Coolant tank tests<br><del>24.1097</del> 23.1097 Carburettor de-icing fluid system capacity<br>23.1099 Carburettor de-icing fluid system detail design<br>23.1101 Induction air preheater design<br>23.1103 Induction system ducts<br>23.1105 Induction system screens<br>23.1107 Induction system filters<br>23.1109 Turbocharger bleed air system<br>23.1111 Turbine engine bleed air system<br>23.1121 Exhaust System - General<br>23.1125 Exhaust heat exchangers<br>23.1141 (b), (c), (d) Powerplant controls: general<br>23.1163 Powerplant accessories<br>23.1165 Engine ignition systems<br>23.1193 Cowling and nacelle<br>23.1197 Fire extinguishing agents<br>23.1199 Extinguishing agent containers<br>23.1201 Fire extinguishing system materials<br>23.1203 (b), (c) Fire detector system |         | VLA.1103 Induction system ducts<br>VLA.1105 Induction system screens<br>VLA.1121 Exhaust System - General<br>VLA.1125 Exhaust heat exchangers<br>VLA.1141 Powerplant controls: general<br>VLA.1163 Powerplant accessories<br>VLA.1165 Engine ignition systems<br>VLA.1193 Cowling and nacelle |         |

| <b>CS-23 Amendment 5<br/>SUBPART E –</b>                        | <b>AMC2 (CS-23 Amendment 4)</b>  | <b>Remarks</b>  | <b>AMC3 (CS-VLA Amendment 1)</b>   | <b>Remarks</b> |
|---|--|-----------------|--|----------------|
| <b>23.2405</b> <i>Power or thrust control systems</i>           | 23.904 Automatic power reserve system<br>23.933 Reversing systems  | With Appendix H | None   |                |
| <b>23.2410</b> <i>Powerplant installation hazard assessment</i> | 23.903(b) through (g) Engines and auxiliary power units<br>23.909(b), (c) Turbocharger systems<br>23.937 Powerplant operating characteristics<br>23.953 Fuel system independence<br>23.955 Fuel flow<br>23.959 Unusable fuel supply<br>23.991 Fuel pumps<br>23.1001(h) Fuel jettisoning system<br>23.1011 General<br>23.1027 Propeller feathering system<br>23.1109 Turbocharger bleed air system<br>23.1141(e) Powerplant controls: general<br>23.1143(g) Engine controls<br>23.1147 Mixture controls<br>23.1163 Powerplant accessories<br>23.1437 Accessories for twin-engine aeroplanes |                 | VLA.903 Engine<br>VLA.909 Supercharger<br>VLA.955 Fuel flow<br>VLA.959 Unusable fuel supply<br>VLA.991 Fuel pumps<br>VLA.1011 General<br>VLA.1141 Powerplant controls: general<br>VLA.1143 Engine controls<br>VLA.1147 Mixture controls<br>VLA.1163 Powerplant accessories |                |
| <b>23.2415</b> <i>Powerplant installation ice protection</i>    | 23.929 Engine installation ice protection<br>23.1093 Induction system icing protection<br>23.975 Fuel tank vents and carburettor vapour vents<br>23.997 Fuel strainer or filter<br>23.1105 Induction system screens  |                 | VLA.1093 Induction system icing protection<br>VLA.975 Fuel tank vents and carburettor vapour vents<br>VLA.1105 Induction system screens  |                |
| <b>23.2420</b> <i>reserved</i>                                  |  |                 |  |                |
| <b>23.2425</b> <i>Powerplant operational</i>                    | 23.903(b), (d) through (g) Engines   |                 | VLA.903 Engine   |                |

| CS-23 Amendment 5<br>SUBPART E –   | AMC2 (CS-23 Amendment 4)   | Remarks                                    | AMC3 (CS-VLA Amendment 1)   | Remarks                                    |
|--|--|--|---|--|
| <i>characteristics</i>   | 23.905(c) Propellers<br>23.909(a) Turbocharger systems<br>23.934 Turbojet and turbofan engine thrust reverser systems tests<br>23.939 Turbopropeller-drag limiting systems<br>23.943 Negative acceleration<br>23.1142 Auxiliary power unit controls<br>23.1145 Ignition switches<br>23.1165 Engine ignition systems  |  | VLA.905 Propeller<br>VLA.909 Supercharger<br>VLA.943 Negative acceleration<br>VLA.1145 Ignition switches<br>VLA.1165 Engine ignition systems  |  |
| <b>23.2430</b> <i>Powerplant installation, energy storage and distribution systems</i> | 23.951 Fuel System - General<br>23.953 Fuel system independence<br>23.954 Fuel system lightning protection<br>23.955 Fuel flow<br>23.957 Flow between interconnected tanks<br>23.959 Unusable fuel supply<br>23.961 Fuel system hot weather operation<br>23.963(a), (d), (e) Fuel tank: general<br>23.965 Fuel tank tests<br>23.967(a), (c), (d), (e) Fuel tank installation<br>23.969 Fuel tank expansion space<br>23.971 Fuel tank sump<br>23.973 Fuel tank filler connection<br>23.975 Fuel tank vents and carburettor vapour vents<br>23.977 Fuel tank outlet<br>23.979 Pressure fuelling systems<br>23.991 Fuel pumps<br>23.993 Fuel system lines and fittings<br>23.994 Fuel system components<br>23.997(b), (d), (e) Fuel strainer or filter<br>23.999 Fuel system drains | Provisions of AMC2 cover only fuel systems | VLA.951 Fuel System - General<br>VLA.955 Fuel flow<br>VLA.957 Flow between interconnected tanks<br>VLA.959 Unusable fuel supply<br>VLA.961 Fuel system hot weather operation<br>VLA.963 Fuel tank: general<br>VLA.965 Fuel tank tests<br>VLA.967 Fuel tank installation<br>VLA.969 Fuel tank expansion space<br>VLA.971 Fuel tank sump<br>VLA.973 Fuel tank filler connection<br>VLA.975 Fuel tank vents and carburettor vapour vents<br>VLA.977 Fuel strainer or filter<br>VLA.991 Fuel pumps<br>VLA.993 Fuel system lines and fittings<br>VLA.999 Fuel system drains<br>VLA.1337 Powerplant instruments | Provisions of AMC3 cover only fuel systems |

| CS-23 Amendment 5<br>SUBPART E –                       | AMC2 (CS-23 Amendment 4)  | Remarks   | AMC3 (CS-VLA Amendment 1)   | Remarks   |
|--|---|---|---|---|
|  | 23.1001(a) through (f) Fuel jettisoning system<br>23.1337(a) Powerplant instruments installation<br>23.721 Landing gear systems - General   |   |   |   |
| 23.2435 <i>Powerplant installation support systems</i> | 23.1091 Air induction system<br>23.1101(a) Induction air preheater design<br>23.1103(a) through (d) Induction system ducts<br>23.1111(b) Turbine engine bleed air system<br>23.1121 Exhaust System - General<br>23.1123 Exhaust system<br>23.1125 Exhaust heat exchangers   | Provisions of AMC2 cover only induction and exhaust systems | VLA.1091 Air induction<br>VLA.1101 Carburettor air preheater design<br>VLA.1103 Induction system ducts<br>VLA.1121 Exhaust System - General<br>VLA.1123 Exhaust manifold<br>VLA.1125 Exhaust heat exchangers  | Provisions of AMC3 cover only induction and exhaust systems |
| 23.2440 <i>Powerplant installation fire protection</i> | 23.995 Fuel valves and controls<br>23.1103(e), (f) Induction system ducts<br>23.1141(f) Powerplant controls: general<br>23.1181 Designated fire zones: regions included<br>23.1182 Nacelle areas behind firewalls<br>23.1183 Lines, fittings, and components<br>23.1189 Shutoff means<br>23.1191 Firewalls<br>23.1192 Engine accessory compartment diaphragm<br>23.1193 Cowling and nacelle<br>23.1195 Fire extinguishing systems<br>23.1197 Fire extinguishing agents<br>23.1201 Fire extinguishing system materials<br>23.1203(a), (e) Fire detector system<br>23.1435(c) Hydraulic Systems |   | VLA.995 Fuel valves and controls<br>VLA.1103 Induction system ducts<br>VLA.1141 Powerplant controls and accessories: general<br>VLA.1182 Nacelle areas behind firewalls<br>VLA.1183 Lines, fittings, and components<br>VLA.1191 Firewalls<br>VLA.1193 Cowling and nacelle |   |
| 23.2445 <i>Powerplant installation information</i>     | 23.1521 Powerplant limitations<br>23.1522 Auxiliary power unit limitations  | With Appendix G   | VLA.1521 Powerplant limitations<br>VLA.1529 Instructions for continued airworthiness  |   |

| CS-23 Amendment 5<br>SUBPART E – | AMC2 (CS-23 Amendment 4)                         | Remarks | AMC3 (CS-VLA Amendment 1) | Remarks |
|----------------------------------|--|---------|---------------------------|---------|
|                                  | 23.1529 Instructions for continued airworthiness |         |                           |         |

## AMC2&3 CS-23/CS-VLA Subpart F — Systems and Equipment

| CS-23 Amendment 5  | AMC2 (CS-23 Amendment 4)  | Remarks   | AMC3 (CS-VLA Amendment 1)   | Remarks  |
|--|---|---|---|--|
| <b>SUBPART F – Systems and Equipment</b>                                     |   |   |   |  |
| <b>23.2500</b> <i>General requirements on systems and equipment function</i> | 23.1301 Function and installation<br>23.1303 Flight and navigation instruments<br>23.1305 Powerplant instruments<br>23.1309(a) Equipment, systems, and installations<br><del>24.1311</del> 23.1311 Electronic display instrument systems<br>23.1321 Arrangement and visibility<br>23.1323 Airspeed indicating system<br>23.1325 Static pressure system<br>23.1327 Magnetic direction indicator<br>23.1329 Automatic pilot system<br>23.1335 Flight director systems<br>23.1351(b), (e), (f), (g) Electrical Systems - General<br>23.1357 Circuit protective devices<br>23.1361 Master switch arrangement<br>23.1367 Switches<br>23.1381 (c) Instrument lights<br>23.1416 Pneumatic de-icer boot system<br>23.729(d) Landing gear extension and retraction system<br>23.843(b) Pressurization tests<br>23.1141(b), (c), (d) Powerplant controls: general<br>23.1201 Fire extinguishing system materials<br>23.1203(e) Fire detector system | 23.1305 must be complemented. F3064-18 § 6.2.1.6 provides this AMC. | VLA.1301 Function and installation<br>VLA.1303 Flight and navigation instruments<br>VLA.1305 Powerplant instruments<br>VLA.1307 Miscellaneous equipment<br>VLA.1309 Equipment, systems, and installations<br>VLA.1321 Arrangement and visibility<br>VLA.1323 Airspeed indicating system<br>VLA.1325 Static pressure system<br>VLA.1327 Magnetic direction indicator<br>VLA.1351 Electrical Systems - General<br>VLA.1357 Circuit protective devices<br>VLA.1361 Master switch arrangement<br>VLA.1367 Switches<br>VLA.729 Landing gear extension and retraction system<br>VLA.1141 Powerplant controls and accessories: general | VLA.1305 must be complemented. F3064-18 § 6.2.1.6 provides this AMC. |

| CS-23 Amendment 5<br>SUBPART F – Systems and Equipment               | AMC2 (CS-23 Amendment 4)   | Remarks | AMC3 (CS-VLA Amendment 1)  | Remarks |
|--|--|---------|--|---------|
| 23.2505 <i>General requirements on equipment installation</i>        | 23.1301 Function and installation<br>23.1437 Accessories for twin-engine aeroplanes  |         | VLA.1301 Function and installation   |         |
| 23.2510 <i>Equipment, systems, and installations</i>                 | 23.1309 Equipment, systems, and installations<br>23.1323 Airspeed indicating system<br>23.1325 Static pressure system<br>23.1329 Automatic pilot system<br>23.1331(b), (c) Instruments using a power source<br>23.1335 Flight director systems<br>23.1337(b), (c) Powerplant instruments installation<br>23.1357 Circuit protective devices<br>23.1431 Electronic equipment<br>23.1437 Accessories for twin-engine aeroplanes<br>23.672(c) Stability augmentation and automatic and power-operated systems<br>23.677 (d) Trim systems<br>23.701 Flap interconnection<br>23.735(d) Brakes<br>23.775(g) Windshields and windows<br>23.831(d) Ventilation<br>23.841(b)(8), (c), (d)(2), (d)(3) Pressurised cabins |         | VLA.1309 Equipment, systems, and installations<br>VLA.1323 Airspeed indicating system<br>VLA.1325 Static pressure system<br>VLA.1331 Instruments using a power supply<br>VLA.1337 Powerplant instruments<br>VLA.1357 Circuit protective devices<br>VLA.1431 Electronic equipment<br>VLA.677 Trim systems<br>VLA.701 Flap interconnection<br>VLA.735 Brakes<br>VLA.775 Windshields and windows<br>VLA.831 Ventilation |         |
| 23.2515 <i>Electrical and electronic system lightning protection</i> | 23.1306 Electrical and electronic system lightning protection  |         | None   |         |

| CS-23 Amendment 5  | AMC2 (CS-23 Amendment 4)   | Remarks | AMC3 (CS-VLA Amendment 1)   | Remarks |
|--|--|---------|---|---------|
| <b>SUBPART F – Systems and Equipment</b>                                 |  |         |   |         |
| <b>23.2520</b> <i>High-intensity radiated fields (HIRF) protection</i>   | 23.1308 High-Intensity Radiated Fields (HIRF) protection   |         | None  |         |
| <b>23.2525</b> <i>System power generation, storage, and distribution</i> | 23.1303 Flight and navigation instruments<br>23.1331(b), (c) Instruments using a power source<br>23.1351(a), (b), (c) Electrical Systems - General<br>23.1353 Storage battery design and installation<br>23.1357 Circuit protective devices  |         | VLA.1303 Flight and navigation instruments<br>VLA.1331 Instruments using a power supply<br>VLA.1351 Electrical Systems - General<br>VLA.1353 Storage battery design and installation<br>VLA.1357 Circuit protective devices |         |
| <b>23.2530</b> <i>External and cockpit lighting</i>                      | 23.1381 Instrument lights<br>23.1383(a), (b), (c) Taxi and landing lights<br>23.1385(a), (b), (c) Position light system installation<br>23.1387 Position light system dihedral angles<br>23.1391 Minimum intensities in the horizontal plane of position lights<br>23.1393 Minimum intensities in any vertical plane of position lights<br>23.1395 Maximum intensities in overlapping beams of position lights<br>23.1397 Colour specifications<br>23.1399 Riding light<br>23.1401 Anti-collision light system |         | VLA.1384 External lights  |         |
| <b>23.2535</b> <i>Safety equipment</i>                                   | 23.1411 Safety Equipment-General<br>23.1415 Ditching equipment   |         | VLA.1411 Safety Equipment-General   |         |

| CS-23 Amendment 5<br>SUBPART F – Systems<br>and Equipment   | AMC2 (CS-23 Amendment 4)  | Remarks | AMC3 (CS-VLA Amendment 1) | Remarks |
|---|---|---------|---------------------------|---------|
| 23.2540 <i>Flight in icing conditions</i>   | 23.1323 Airspeed indicating system<br>23.1325(b), (g) Static pressure system<br>23.1419 Ice protection<br>23.775(f) Windshields and windows |         | None                      |         |
| 23.2545 <i>Pressurised systems elements</i>   | 23.1438 Pressurisation and pneumatic systems<br>23.1435(a)(4), (b) Hydraulic Systems<br>23.1453 Protection of oxygen equipment from rupture |         | None                      |         |
| 23.2550 <i>reserved</i>   |   |         |                           |         |
| 23.2555 <i>Installation of recorders (e.g. cockpit voice recorders and flight data recorders)</i> | 23.1457 Cockpit voice recorders<br>23.1459 Flight recorders   |         | None                      |         |

## AMC2&3 CS-23/CS-VLA Subpart G — Flight Crew Interface and other Information

| CS-23 Amendment 5<br>SUBPART G – Flight Crew Interface and other Information | AMC2 (CS-23 Amendment 4)   | Remarks | AMC3 (CS-VLA Amendment 1)  | Remarks |
|--|--|---------|--|---------|
| <b>23.2600</b> <i>Flight crew compartment</i>                                | 23.671 Control systems - General<br>23.677 (a) Trim systems<br>23.699 Wing flap position indicator<br>23.729 (e) Landing gear extension and retraction system<br>23.745 Nose/Tail wheel steering<br>23.771 (a) Pilot compartment<br>23.773 Pilot compartment view<br>23.775 (e), (h)(2) Windshields and windows<br>23.777 Cockpit controls<br>23.779 Motion and effect of cockpit controls<br>23.781 Cockpit control knob shape<br>23.831 (c) Ventilation<br>23.1141 (g) Powerplant controls: general<br>23.1142 Auxiliary power unit controls<br>23.1143 (a) through (f) Engine controls<br>23.1145 Ignition switches<br>23.1147 Mixture controls<br>23.1149 Propeller speed and pitch controls<br>23.1153 Propeller feathering controls<br>23.1155 Turbine engine reverse thrust and propeller pitch settings below the flight regime<br>23.1157 Carburettor air temperature controls<br>23.1203 (d) Fire detector system<br>23.1329 (d) Automatic pilot system<br>23.1335 Flight director systems |         | VLA.671 Control systems - General<br>VLA.677 Trim systems<br>VLA.699 Wing flap position indicator<br>VLA.729 Landing gear extension and retraction system<br>VLA.745 Nose/Tail wheel steering<br>VLA.771 Pilot compartment<br>VLA.773 Pilot compartment view<br>VLA.775 Windshields and windows<br>VLA.777 Cockpit controls<br>VLA.779 Motion and effect of cockpit controls<br>VLA.781 Cockpit control knob shape<br>VLA.831 Ventilation<br>VLA.1141 Powerplant controls: general<br>VLA.1143 Engine controls<br>VLA.1145 Ignition switches<br>VLA.1147 Mixture controls<br>VLA.1367 Switches |         |

| CS-23 Amendment 5<br>SUBPART G – Flight Crew Interface and other Information | AMC2 (CS-23 Amendment 4)   | Remarks  | AMC3 (CS-VLA Amendment 1)  | Remarks   |
|--|--|--|--|---|
|  | 23.1367 Switches<br>23.1381 (a), (b) Instrument lights<br>23.1419 (d) Ice protection<br>23.1435 (a)(2) Hydraulic Systems<br>23.1523 Minimum Flight Crew  |  |  |   |
| <b>23.2605</b> <i>Installation and operation information</i>                 | 23.671 (b) Control systems - General<br>23.672 (a) Stability augmentation and automatic and power-operated systems<br>23.679 (a), (b) Control system locks<br>23.703 Take-off warning system<br>23.729 (f) Landing gear extension and retraction system<br>23.783 (e)(3) Doors<br>23.841 (b)(5), (b)(6), (d)(4), (d)(5) Pressurised cabins<br>23.991 (c) Fuel pumps<br>23.1142 Auxiliary power unit controls<br>23.1301 (b) Function and installation<br>23.1305 Powerplant instruments<br>23.1309 (d) Equipment, systems, and installations<br>23.1322 Warning, caution and advisory lights<br>23.1326 Pitot heat indication systems<br>23.1329 (h) Automatic pilot system<br>23.1331 (a) Instruments using a power source<br>23.1335 Flight director systems<br>23.1337 (b), (d) Powerplant instruments installation<br>23.1351 (c), (d) Electrical Systems - General<br>23.1416 (c) Pneumatic de-icer boot system | <b>23.1305 must be complemented. F3064-18 § 6.2.1.6 provides this AMC.</b> | VLA.671 Control systems - General<br>VLA.679 Control system locks<br>VLA.729 Landing gear extension and retraction system<br>VLA.783 Doors<br>VLA.991 Fuel pumps<br>VLA.1301 Function and installation<br>VLA.1305 Powerplant instruments<br>VLA.1309 Equipment, systems, and installations<br>VLA.1322 Warning, caution and advisory lights<br>VLA.1331 Instruments using a power supply<br>VLA.1337 Powerplant instruments<br>VLA.1351 Electrical Systems - General<br>VLA.1561 Safety equipment | <b>VLA.1305 must be complemented. F3064-18 § 6.2.1.6 provides this AMC.</b> |

| CS-23 Amendment 5<br>SUBPART G – Flight Crew Interface and other Information | AMC2 (CS-23 Amendment 4)  | Remarks | AMC3 (CS-VLA Amendment 1)  | Remarks |
|--|---|---------|--|---------|
|  | 23.1441 (c) Oxygen Equipment and supply<br>23.1561 Safety equipment   |         |  |         |
| 23.2610 <i>Instrument markings, control markings and placards</i>            | 23.733 Tires<br>23.777 Cockpit controls<br>23.841 (b)(7) Pressurised cabins<br>23.1001 (g) Fuel jettisoning system<br>23.1321 Arrangement and visibility<br>23.1337 (d) Powerplant instruments installation<br>23.1450 (c) Chemical oxygen generators<br>23.1501 General<br>23.1505 Airspeed limitations<br>23.1507 Operating manoeuvring speed<br>23.1511 Flap extended speed<br>23.1513 Minimum control speed<br>23.1519 Weight and centre of gravity<br>23.1521 Powerplant limitations<br>23.1522 Auxiliary power unit limitations<br>23.1523 Minimum flight crew<br>23.1524 Maximum passenger seating configuration<br>23.1525 Kinds of operation<br>23.1527 Maximum operating altitude<br>23.1541 Marking and Placards - General<br>23.1543 Instrument marking: general<br>23.1545 Airspeed indicator<br>23.1547 Magnetic direction indicator<br>23.1549 Powerplant and auxiliary power unit instruments |         | VLA.777 Cockpit controls<br>VLA.1321 Arrangement and visibility<br>VLA.1337 Powerplant instruments<br>VLA.1501 General<br>VLA.1505 Airspeed limitations<br>VLA.1507 Manoeuvring speed<br>VLA.1511 Flap extended speed<br>VLA.1519 Weight and centre of gravity<br>VLA.1521 Powerplant limitations<br>VLA.1525 Kinds of operation<br>VLA.1541 Marking and Placards - General<br>VLA.1543 Instrument marking: general<br>VLA.1545 Airspeed indicator<br>VLA.1547 Magnetic direction indicator<br>VLA.1549 Powerplant instruments<br>VLA.1551 Oil quantity indicator<br>VLA.1555 Control markings<br>VLA.1557 Miscellaneous marking and placards<br>VLA.1559 Operating limitations placard<br>VLA.1561 Safety equipment |         |

| CS-23 Amendment 5<br>SUBPART G – Flight Crew Interface and other Information | AMC2 (CS-23 Amendment 4)   | Remarks   | AMC3 (CS-VLA Amendment 1)  | Remarks  |
|--|--|---|--|--|
|  | 23.1551 Oil quantity indicator<br>23.1553 Fuel quantity indicator<br>23.1555 Control markings<br>23.1557 Miscellaneous marking and placards<br>23.1559 Operating limitations placard<br>23.1561 Safety equipment<br>23.1563 Airspeed placards<br>23.1567 Flight manoeuvre placard  |   |  |  |
| <b>23.2615</b> <i>Flight, navigation, and powerplant instruments</i>         | 23.1141 (g) Powerplant controls: general<br>23.1142 Auxiliary power unit controls<br>23.1303 Flight and navigation instruments<br>23.1305 Powerplant instruments<br>23.1311 Electronic display instrument systems<br>23.1323 Airspeed indicating system<br>23.1325 Static pressure system<br>23.1327 Magnetic direction indicator<br>23.1337 Powerplant instruments installation | 23.1305 must be complemented. F3064-18 § 6.2.1.6 provides this AMC. | VLA.1141 Powerplant controls: general<br>VLA.1303 Flight and navigation instruments<br>VLA.1305 Powerplant instruments<br>VLA.1323 Airspeed indicating system<br>VLA.1325 Static pressure system<br>VLA.1327 Magnetic direction indicator<br>VLA.1337 Powerplant instruments | VLA.1305 must be complemented. F3064-18 § 6.2.1.6 provides this AMC. |
| <b>23.2620</b> <i>Aeroplane Flight Manual</i>                                | 23.1581 Aeroplane Flight Manual and Approved Manual Material - General<br>23.1583 Operating limitations<br>23.1585 Operating procedures<br>23.1587 Performance information<br>23.1589 Loading information  |   | VLA.1581 Aeroplane Flight Manual and Approved Manual Material - General<br>VLA.1583 Operating limitations<br>VLA.1585 Operating procedures<br>VLA.1587 Performance information<br>VLA.1589 Loading information   |  |
| <b>23.2625</b> <i>Instructions for Continued Airworthiness</i>               | 23.1529 Instructions for Continued Airworthiness   | With Appendix G   | VLA.1529 Instructions for Continued Airworthiness  |  |