



**U.S. Department  
of Transportation**  
Federal Aviation  
Administration

# Advisory Circular

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**Subject:** Minimum Equipment Requirements  
for General Aviation Operations  
Under 14 CFR Part 91, § 91.213

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**Change:**

This advisory circular (AC) describes acceptable methods for the operation of aircraft with certain inoperative instruments and equipment items, which are not essential for safe operations under Title 14 of the Code of Federal Regulations (14 CFR) part [91](#), [133](#), or [137](#) (including part 91 operations conducted by parts [141](#) and [142](#) certificate holders (CH)).

The contents of this document do not have the force and effect of law and are not meant to bind the public in any way, and the document is intended only to provide information to the public regarding existing requirements under the law or agency policies.

This AC describes an acceptable means, but not the only means, to operate an aircraft with certain inoperative instruments and equipment items that are not essential. While using the means described in this AC is not mandatory, an operator that voluntarily elects to use the means described in this AC must follow, in all respects, the terms, conditions, and processes provided in the AC.

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## CHAPTER 1. INTRODUCTION

- 1.1 Purpose of This Advisory Circular (AC).** This AC describes acceptable ways in which an aircraft can be operated under Title 14 of the Code of Federal Regulations (14 CFR) part [91](#), [133](#), or [137](#) (including part 91 operations conducted by parts [141](#) and [142](#) certificate holders (CH)) with certain inoperative instruments and equipment items that are not essential for safe operations, in accordance with part 91, § [91.213](#). The methods described are not the only means to comply with § 91.213. The Federal Aviation Administration (FAA) will consider other means of compliance an operator may present.
- 1.1.1 Effects of Guidance.** The contents of this document do not have the force and effect of law and are not meant to bind the public in any way, and the document is intended only to provide information to the public regarding existing requirements under the law or agency policies. While using the means of compliance described in this AC is not mandatory, an operator that voluntarily elects to use the means of compliance described in this AC must follow, in all respects, the terms, conditions, and processes described in the AC. The use of terms such as “shall” and “must” throughout the AC do not impose any regulatory requirement.
- 1.2 Audience.** This AC applies only to aircraft operated under parts 91, 133, and 137 (including part 91 operations conducted by parts 141 and 142 CHs) with certain inoperative instruments and equipment.
- Note:** Unless otherwise stated, the term “operator,” used throughout this AC, applies to part 91 operators, parts 133 and 137 CHs, and part 141 pilot schools or provisional pilot schools. This AC uses the singular term “operator” for simplicity.
- 1.2.1 Applicability.** This AC does not apply to part 91 subpart [K](#) (part 91K) program managers or CHs under 14 CFR part [121](#), [125](#) (including part 125 Letter of Deviation Authority (LODA) holders), or [135](#). These operators are required to comply with their approved minimum equipment list (MEL), even when the operation is conducted under part 91. Refer to § 91.213(c).
- 1.2.2 Foreign Air Carriers and Foreign Operators of U.S. Registered Aircraft Engaged in Common Carriage (14 CFR Part [129](#)).** Foreign air carriers and foreign operators of U.S. registered aircraft engaged in common carriage should refer to AC [129-4](#), Maintenance Programs for U.S. Registered Aircraft Operated Under 14 CFR Part 129, for information regarding their MELs.
- 1.3 Where You Can Find This AC.** You can find this AC on the FAA’s website at [https://www.faa.gov/regulations\\_policies/advisory\\_circulars](https://www.faa.gov/regulations_policies/advisory_circulars) and the Dynamic Regulatory System (DRS) at <https://drs.faa.gov>.
- 1.4 What This AC Cancels.** AC 91-67, Minimum Equipment Requirements for General Aviation Operations Under FAR Part 91, dated June 18, 1991, was canceled on November 3, 2017.

**1.5 Related 14 CFR Sections.** All regulatory references in this AC are found in 14 CFR unless otherwise indicated. The following 14 CFR sections are related to this AC. You can download the full text of these regulations at the U.S. Government Publishing Office (GPO) Electronic Code of Federal Regulations (e-CFR) website at <https://ecfr.gov>. You can order a paper copy by sending a request to the U.S. Superintendent of Documents, U.S. Government Publishing Office; by calling the telephone number 202-512-1800; or by sending a request by facsimile at 202-512-2104.

- Part [21](#), §§ [21.19](#), [21.197](#), and [21.199](#).
- Part [43](#), §§ [43.3](#), [43.7](#), [43.9](#), [43.11](#), and [43.13](#).
- Part [91](#), §§ [91.7](#), [91.205](#), [91.213](#), [91.405](#), [91.417](#), and [91.501](#).

**1.6 Related Documents (current editions).**

- Master Minimum Equipment List (MMEL) Policy Letter [\(PL\)-25](#), MMEL/MEL Definitions.
- MMEL [PL-36](#), 14 CFR Part 91 MEL Approval and Preamble.
- AC [43-9](#), Maintenance Records.
- AC [43-12](#), Preventive Maintenance.
- AC [91-70](#), Oceanic and Remote Continental Airspace Operations.

**1.7 Background.** The airworthiness certification of an aircraft is conditioned on the aircraft conforming to its type certificate (TC) and being in a condition for safe operation. While items installed in an aircraft must be operative for the aircraft to conform to its TC, an approved MEL allows an operator to operate the aircraft with certain items inoperative. An approved MEL, as authorized by a Letter of Authorization (LOA) under § 91.213(a), constitutes an approved change to the type design without requiring recertification.

**1.7.1 Airworthiness.** Under § 91.7, an operator cannot operate an aircraft unless it is in an airworthy condition. As noted above, to be airworthy, the aircraft must conform to its TC and be in a condition for safe operation. Except as provided in § 91.213(d) and (e), an inoperative item present on the aircraft would result in a violation of § 91.7, unless the inoperative item or equipment is listed on the operator's approved MEL. As such, compliance with all applicable criteria of an MEL is necessary when taking advantage of the relief an MEL provides; in the absence of such compliance, the FAA would not consider the aircraft airworthy.

**1.7.2 Acceptable Level of Safety (ALoS).** The FAA developed the concept of the MEL after recognizing that under certain circumstances, a flight or series of flights might occur safely with certain inoperable instruments and equipment. In certain specific situations, an ALoS can be met because not all of an aircraft's installed instruments and equipment are necessary for every type of operation. For example, a flight that is not being conducted in icing conditions would not require operable airframe deicing or anti-icing equipment. Similarly, an aircraft that will not operate at night may receive relief from the

requirement to have an operable landing light. In other words, the MEL requirements and related processes are independent from an aircraft's operating requirements and an MEL cannot authorize a deviation from operating rules.

- 1.7.3** Requirement for Items to be Operative. All items related to the airworthiness of the aircraft that are not included in an approved MEL are required to be operative in accordance with the aircraft's TC. An MEL does not include obviously required items, such as wings, rudders, flaps, engines, landing gear, etc. Except as provided in § 91.213(d) and (e), and described in Chapter 4, an aircraft is not airworthy when any item that is not included in the MEL is inoperative.
- 1.7.4** Repair Inoperative Items at Earliest Opportunity. The MEL is intended to permit operations with inoperative items of equipment for the minimum period of time necessary until repairs can be accomplished. It is important that repairs be accomplished at the earliest opportunity to return the aircraft to its design level of safety and reliability.
- 1.7.5** MEL Development. The MEL is developed from an MMEL for the aircraft type. The operator uses the MMEL as the baseline to develop the MEL and the operational and maintenance procedures and lists the items installed in the operator's aircraft. The MEL is developed by the operator for their particular type of operation (i.e., instrument flight rules (IFR), visual flight rules (VFR), Category (CAT) II, over water, etc.). The MEL is approved by the responsible Flight Standards office.
- 1.8** **Definitions and Terminology.** For additional MMEL and MEL definitions, refer to MMEL PL-25.
- 1.8.1** Airworthiness Directive (AD). ADs are legally enforceable regulations issued by the FAA in accordance with 14 CFR part 39 to correct an unsafe condition in a product. Part 39 defines a product as an aircraft, engine, propeller, or appliance.
- 1.8.2** Air Transport Association of America (ATA)/Joint Aircraft System/Component (JASC) Coded System Section Components. MMEL system sections are organized by aircraft system according to the ATA or JASC coded numbering system. MMEL system numbers use the ATA/JASC codes that are standardized for each aircraft system. The ATA/JASC numbering system provides an industrywide standard for numbering aircraft systems and is relevant for all aircraft. ATA changed its name to Airlines for America (A4A) in 2011; however, the acronym "ATA" is still used for coded aircraft systems. The acronyms "ATA" and "A4A" are considered interchangeable. The alternate format for aircraft system coding is the JASC codes, which are a modified version of the ATA codes.
- 1.8.3** Aircraft Evaluation Division (AED). The inspectors in the AED serve as technical subject matter experts for operational and engineering activities of the FAA's Flight Standards Service (FS). These inspectors coordinate and assist with aircraft certification and continued airworthiness programs and serve as a liaison with the responsible Aircraft Certification Service office during the initial certification of an aircraft and throughout the service life of the aircraft.



- 1.8.4** Configuration Deviation List (CDL). A CDL is a list of externally exposed aircraft parts that may be missing for flight. A CDL allows continued operation with missing externally exposed nonstructural parts by defining restrictions, limitations, or performance penalties, while the aircraft remains airworthy. See Chapter [12](#) for additional information on the CDL.
- 1.8.5** Deferral. The term “deferral” is used to describe the authorization for an operator to delay repair and continue operating with a required item inoperative, under the authority of their FAA-approved MEL. Authority to defer an inoperative item is subject to specific conditions and limitations, as described in the associated proviso.
- 1.8.6** Dynamic Regulatory System (DRS). DRS is an FAA website that contains regulatory, policy, and guidance information. DRS can be accessed at <https://drs.faa.gov>.
- 1.8.7** Flight Operations Evaluation Board (FOEB). An FOEB is comprised of technically qualified specialists, engineering representatives, and aviation safety inspectors (ASI) responsible for developing MMELs from the proposed MMEL provided by the aircraft manufacturer. An aircraft MMEL is usually developed during initial aircraft certification. FOEBs are also responsible for developing MMEL revisions. FOEBs coordinate with internal and external stakeholders, such as the responsible Aircraft Certification Service office, Flight Standards offices, aircraft and engine manufacturers, operators, and private-sector groups.
- 1.8.8** Global Change (GC). A GC is newly developed or changed relief for an item, usually applicable to numerous MMELs (hence “global”) to allow operators to obtain MEL relief prior to the release of a revised MMEL. Incorporation of a GC into an operator’s MEL is optional until the GC is incorporated in the aircraft’s MMEL. GCs may be used to provide immediate relief for items required by a new regulatory requirement, policy change, or new technology.
- 1.8.9** Kinds of Operations Equipment List (KOEL). Aircraft certificated under 14 CFR part [23](#) or [27](#) may have a KOEL. The KOEL specifies the kinds of operations (e.g., VFR, IFR, day, or night) in which the aircraft can be operated. The KOEL also indicates the installed equipment that may affect any operating limitation. Although the certification rules require this information, there is no standard format; consequently, the manufacturer may furnish it in various ways. Inoperative equipment, when required by the KOEL for a particular type of operation (e.g., VFR, IFR, day, or night), may not be deferred for that operation under § 91.213.
- 1.8.10** Letter of Authorization (LOA). The term “LOA,” used throughout this AC, refers to an operator-specific LOA, which is the MEL-authorizing document containing conditions and limitations the operator must comply with in order to conduct aircraft operations with specific inoperative items. When used in this AC, the term “LOA” refers to all LOAs issued under the provisions of § 91.213(a) to part 91 operators, part 133 rotorcraft external-load operators, part 137 agricultural aircraft operators, and part 141 pilot schools or provisional pilot schools.

**Note:** The part 142 training specification (TSpec) D095 has been decommissioned. Part 142 training centers holding TSpec A003, Aircraft Authorization, and seeking MEL authorization must do so under the appropriate operating rule (e.g., part 91, 121, or 135).

**1.8.11** Maintenance (M) Procedure. The (M) symbol indicates a specific maintenance procedure that must be accomplished prior to operation with the listed item inoperative. Normally, (M) procedures are accomplished by qualified maintenance personnel; however, other personnel may be qualified and authorized to perform certain functions. Procedures requiring specialized knowledge or skill, or requiring the use of tools or test equipment, should be accomplished by maintenance personnel. The satisfactory accomplishment of all (M) procedures, regardless of who performs them, is the responsibility of the aircraft operator. Appropriate procedures are required as a part of the aircraft operator's MEL. See paragraph [5.4](#), Performing (M) and (O) Procedures.

**1.8.12** Master Minimum Equipment List (MMEL).

**1.8.12.1** The term "MMEL," used throughout this AC, means an FAA-approved, aircraft make, model, and series (M/M/S)-specific master list of aircraft instrument and equipment items that may be inoperative under certain operational conditions, while maintaining the airworthiness of the aircraft and providing an ALoS. An MMEL is the baseline document used by operators to develop their own aircraft-specific MEL. Operators may download MMELs from the "MMELs and AED Guidance Documents" section in DRS at <https://drs.faa.gov>.

**1.8.12.2** The United States may enter a Bilateral Aviation Safety Agreement (BASA) with a foreign government when there is a need for technical cooperation with the foreign government's Civil Aviation Authority (CAA), and if the foreign authority's civil aviation safety oversight is substantially comparable to the FAA's. BASAs are carried out through associated implementation procedures. Refer to country-specific BASAs for MMEL considerations relating to foreign type-certificated aircraft validated under Implementation Procedures for Airworthiness (IPA). The BASAs and associated IPAs may be found at [https://www.faa.gov/aircraft/air\\_cert/international/bilateral\\_agreements/](https://www.faa.gov/aircraft/air_cert/international/bilateral_agreements/).

**1.8.13** Minimum Equipment List (MEL). The term "MEL," used throughout this AC, means a document listing items that may be inoperative during flight for a specific aircraft or a fleet of aircraft. Operation of the aircraft under the MEL is authorized by an operator-specific LOA. As provided in § 91.213(a)(2), an MEL and the associated LOA constitute a Supplemental Type Certificate (STC) for the aircraft. Operators will base their MEL on the MMEL applicable to the aircraft M/M/S. An operator's MEL may be more restrictive than the MMEL, but it will not be less restrictive. Unless specified otherwise, the term "MEL," used throughout this AC, refers to both: (1) the MEL approval under LOA D095, MMEL Used as an MEL, consisting of an MMEL and a procedures document, and (2) the MEL approval under LOA D195, Minimum Equipment List (MEL), consisting of an operator-developed MEL. When required for clarity, this

AC will distinguish between an MEL approval under LOA D095 or D195 by using the terms “procedures document,” or “operator-developed MEL,” respectively.

**Note:** MEL approvals under LOA D095 meet the International Civil Aviation Organization (ICAO) MEL requirements of Annex 6, Parts II and III. However, some CAAs may not accept LOA D095 as a valid MEL approval.

- 1.8.14** MMEL Policy Letters (PL). PLs clarify FAA MMEL policy regarding specific kinds of equipment that may be deferred. While developing its MEL, an operator may need to refer to one or more aircraft or equipment-specific PLs with a GC designation, as these PLs may provide additional relief for items until the MMEL is revised. Operators may download PLs from the “MMELs and AED Guidance Documents” section in DRS at <https://drs.faa.gov>.
- 1.8.15** Make, Model, and Series (M/M/S). M/M/S is a common abbreviation used when referring to a manufacturer’s particular model or type and series of given aircraft.
- 1.8.16** Nonessential Equipment and Furnishings (NEF) Program. An operator’s MEL program may also include an NEF program that allows relief for nonessential items. An NEF program allows operators to use the authority granted by their MEL LOA to provide relief for nonessential items located throughout the aircraft. See Chapter [11](#) for additional information on an NEF program.
- 1.8.17** Operational Control. As defined in 14 CFR part [1](#), § [1.1](#), operational control, “with respect to a flight, means the exercise of authority over initiating, conducting or terminating a flight.”
- 1.8.18** Operations (O) Procedure. The (O) symbol indicates a specific operations procedure that must be accomplished prior to operation with the listed item inoperative. Normally, these procedures are accomplished by the flightcrew; however, other personnel may be qualified and authorized to perform certain functions. These procedures may be required for flight planning purposes, or they may require action by the flightcrew. Additionally, MEL items affecting the aircraft Weight and Balance (W&B) and cargo loading may require procedures for additional personnel, such as those involved with aircraft load control. The satisfactory accomplishment of all (O) procedures, regardless of who performs them, is the responsibility of the aircraft operator. Appropriate procedures are required as a part of the aircraft operator’s MEL. See paragraph [5.4](#).
- 1.8.19** Procedures Document. The procedures document is based on the MMEL applicable to the aircraft M/M/S. The procedures document, the MMEL, and the MEL LOA D095 together constitute an approved MEL. The procedures document contains:
- The name of the operator,
  - The aircraft serial and registration numbers (or “Fleet”),
  - The aircraft M/M/S,
  - The MMEL revision number on which the MEL is based,

- (M) and (O) procedures that correspond with the (M) and (O) symbols and/or provisos listed in the MMEL,
  - A list of all MMEL items that contain the statement “as required by 14 CFR,”
  - All applicable definitions, per MMEL PL-25, and
  - The preamble, per current MMEL PL-36.
- 1.8.20** Principal Base of Operations. The term “principal base of operations” used throughout this AC is the physical address where an operator or pilot school conducts business or resides. It is a physical location where the FAA can contact the operator (i.e., a post office box is not an acceptable principal base of operations). While the principal base of operations may coincide with the place where the aircraft is located, this is not always the case. Depending upon the applicable 14 CFR part, this location may be an operator’s residence, business address, home base of operations, or a pilot school’s principal business office. For simplicity, this AC uses the singular term “principal base of operations” to refer to all these locations.
- 1.8.21** Principal Inspector (PI). PIs are FAA personnel, within the operator’s responsible Flight Standards office, who are assigned primary responsibility for oversight of an operator’s safety of operations. PIs specialize in the three general areas of aircraft operations according to their qualifications, either as a Principal Avionics Inspector (PAI), Principal Maintenance Inspector (PMI), or Principal Operations Inspector (POI). PIs have FAA administrative authority to evaluate and approve an operator’s manuals, including the MEL.
- 1.8.22** Responsible Flight Standards Office. The term “responsible Flight Standards office,” used throughout this AC, refers to the Flight Standards office responsible for issuance and oversight of all LOAs for the operator. This is typically the Flight Standards office with a Service Area (SA) covering the location of the operator’s principal base of operations. FAA office locations are available at [https://www.faa.gov/about/office\\_org/field\\_offices/fsdo/](https://www.faa.gov/about/office_org/field_offices/fsdo/) and [https://www.faa.gov/about/office\\_org/field\\_offices/ifo/](https://www.faa.gov/about/office_org/field_offices/ifo/).
- 1.8.23** Responsible Person (Part 91 Only). The term “Responsible Person,” used throughout this AC, is the person who has legal authority to sign the LOA on behalf of a part 91 operator. Such person should have ongoing knowledge of the operations of the aircraft. The Responsible Person may be the individual who acts as operator or, if the operator is a legal entity, an officer, employee, or person duly designated to act on behalf of the operator. The person assumes responsibility for ensuring the operator complies with all applicable regulations, requirements, limitations, and provisions. If the Responsible Person relinquishes responsibility, the LOA is no longer valid.
- 1.8.24** Supplemental Type Certificate (STC). An STC is a TC issued by the FAA to a person who applies for a major change to a type design when the proposed change does not require an application for a new TC under § 21.19. The STC, which incorporates by reference the related TC, approves not only the modification but also how that modification affects the original design.

**1.9 AC Feedback Form.** For your convenience, the AC Feedback Form is the last page of this AC. Note any deficiencies found, clarifications needed, or suggested improvements regarding the contents of this AC on the Feedback Form.

## CHAPTER 2. MASTER MINIMUM EQUIPMENT LIST (MMEL)

### 2.1 General.

- 2.1.1 MEL Is Based on an MMEL.** An M/M/S-specific MMEL is the document on which an operator will base their aircraft-specific MEL. MMELs are developed for most FAA type-certificated aircraft in general service today. Most multiengine airplanes have an MMEL specific to their type design (e.g., Mitsubishi MU-2B).
- 2.1.2 Single-Engine Airplanes MMEL.** The AED has developed a Single-Engine Airplanes MMEL (generic) for single-engine airplanes that do not have an M/M/S-specific MMEL. The Single-Engine Airplanes MMEL (generic) cannot be used for an airplane that has its own M/M/S-specific MMEL. If an operator is using the Single-Engine Airplanes MMEL (generic), and an MMEL is subsequently published for that specific make and model single-engine airplane, the operator's MEL must be revised to conform to the new M/M/S-specific MMEL within 90 calendar days of new M/M/S-specific MMEL publication.
- Note:** Operators base their MEL on the MMEL applicable to the aircraft M/M/S or the Single-Engine Airplanes MMEL (generic), as appropriate.
- 2.1.3 Items Listed in an MMEL.** The MMEL includes those items of equipment related to airworthiness and operating regulations and other items of equipment, which may be inoperative, and yet maintain an ALoS by appropriate conditions and limitations; it does not contain obviously required items, such as wings and rudders. Additionally, an MMEL does not include items required to be operative by an AD, unless the AD specifically allows for their inclusion.
- 2.2 ATA/JASC Coded System Section Components.** These sections are organized by aircraft system according to the ATA or JASC coded numbering system (see Figure [2-1](#), Example MMEL ATA/JASC Coded System Section Page) and contain the following components:

Figure 2-1. Example MMEL ATA/JASC Coded System Section Page

AIRCRAFT: (insert aircraft make and model)		TABLE KEY			
		1. REPAIR CATEGORY	2. NO. INSTALLED	3. NO. REQUIRED FOR DISPATCH	4. REMARKS OR EXCEPTIONS
<b>31. INDICATING/RECORDING SYSTEMS</b>					
Sequence No.	Item	1	2	3	4
-30-01 ***	Flight Data Recorder (Cont'd)				
-03	Flight Data Recorder (FDR) Parameters required by 14 CFR operating rule	A	-	-	Up to three recording parameters may be inoperative provided: a) Cockpit Voice Recorder (CVR) operates normally, and b) Repair are made within 20 calendar days.
-04	Flight Data Recorder (FDR) Parameters not required by 14 CFR operating rule	A	-	-	May be inoperative provided repairs are made prior to completion of next scheduled inspection of FDR.
-05	Underwater Locator Device (ULD)	D	-	0	May be inoperative or missing provided device is not required by 14 CFR operating rule.
-40-01	Amber CHECK MAINTENANCE CAS Message Displayed (Collins Pro Line Fusion Equipped Airplanes)	C	1	0	(O) May be inoperative provided CHECK MAINTENANCE procedure in the AFM is followed to determine APM Fail message is displayed.  NOTE: Check Maintenance amber caution CAS message may be displayed.

**2.2.1 ATA/JASC System Code Numbers.** MMEL system numbers use the ATA or JASC codes that are standardized for each aircraft system. The ATA numbering system provides an industrywide standard for numbering aircraft systems and is relevant for all aircraft. The alternate format for aircraft system coding is the JASC codes, which are a modified version of the ATA codes.

**2.2.2 Individual Item Sequence Numbers.** Individual item sequence numbers are the unique identification for each item within an ATA/JASC system category. The numbering scheme may be modified to align with the aircraft operator’s specific MEL format and may differ from the MMEL. They are not required to match ATA/JASC system code numbers. A triple asterisk (\*\*\*) below the sequence number in the first column of an MMEL indicates that an item, which is not required by regulation, has been installed on some models of a particular aircraft.

**2.2.3 Item.** An item is an instrument, piece of equipment, a system, component, or function of an instrument, piece of equipment, system, or component on an aircraft. An MMEL may contain multiple versions of particular items (e.g., flight deck display systems, navigation

equipment, or engine instrumentation) installed on different models or series of the aircraft covered by the MMEL.

- 2.2.4** Repair Categories. The repair category intervals indicated by the letters A, B, C, and D in column 1 of the MMEL are not applicable to an MEL approved under the provisions of § 91.213(a), but operators must comply with any provisos defining a repair interval (e.g., flights, flight legs, cycles, hours, days, etc.). The operator must have any inoperative items, which are permitted to be inoperative, either repaired, replaced, removed, or inspected within the proviso-defined repair interval period, or at the next required aircraft inspection, whichever comes first. Refer to § 91.405(c).
- 2.2.5** Number of Items Installed (Number Installed). Column 2 of an MMEL lists the number (quantity) of the specified item normally installed on the aircraft. This number typically represents the aircraft configuration used to develop the aircraft MMEL.
- 2.2.6** Variable Number Installed. A dash (-) for the number installed indicates a variable number (quantity) of the installed item.
- 2.2.7** Number Required for Dispatch. Column 3 of an MMEL reflects the minimum number (quantity) of items required to be operable for flight, provided the conditions specified in the “Remarks or Exceptions” are met.
- 2.2.8** Variable Number of Items Required for Dispatch. A dash (-) indicates a variable number required for dispatch.
- 2.2.9** Remarks or Exceptions. Column 4 includes provisos, notes, “as required by 14 CFR” statements, and Maintenance (M) and Operations (O) symbols. Some MMEL “Remarks or Exceptions” are intentionally general to accommodate a variety of operators and operating rules.
- 2.3** **Obtaining a Current MMEL**. Operators may download MMELs from the “MMELs and AED Guidance Documents” section in DRS at <https://drs.faa.gov>.
- 2.4** **Aircraft for Which No MMEL Has Been Developed**. Some aircraft, for which no MMEL has been developed, may be operated under the provisions of § 91.213(d).

**Note 1:** Operators of single-engine reciprocating and turbine-powered airplanes that do not have an MMEL for their specific M/M/S may use the Single-Engine Airplanes MMEL (generic).

**Note 2:** An operator may not operate an aircraft for which the FAA issued an original experimental Airworthiness Certificate with inoperative items unless specifically authorized in the aircraft’s operating limitations.

- 2.5** **MMEL PLs**. MMEL PLs communicate FAA policy for matters related to the development and approval of MMELs and MELs. The primary audience for PLs is the FOEB Chair and members. However, sometimes PLs apply to operators and are specific to MEL considerations.



- 2.5.1 Mandatory MMEL PLs.** Operators must include applicable information from MMEL [PL-25](#) (definitions) and MMEL [PL-36](#) (preamble) in their MEL. See Chapters [7](#) and [8](#) for additional information. Except for MMEL PL-25 and PL-36, or unless specifically mandated in the PL, an operator is not required to include MMEL PL information in their MEL.
- 2.5.2 Where to Find MMEL PLs.** Operators may download MMEL PLs from the “MMELs and AED Guidance Documents” section in DRS at <https://drs.faa.gov>.
- 2.6 MMEL PL Global Change (GC) Designation.** A GC is newly developed or changed MMEL relief for an item which may or may not be time sensitive. The sole purpose of a GC designation is to allow operators to obtain timely MEL relief for installed items referenced in an MMEL PL prior to the release of a revised MMEL or applicable STC Relief Approval Letter (e.g., Design Change Approval Letter). GCs are applicable to many MMELs and will specify applicability (inclusion or exclusion) when not applicable to all aircraft types. GCs may be used to provide immediate relief for items required by a new regulatory requirement, policy change, or new technology. GCs will not typically occur in great number or regularity, and their application and use will typically be limited. An operator is not required to include GC designation relief in their MEL.
- 2.6.1 GC Designation Identification.** MMEL PLs with a GC designation are identified by the letters “GC” after the MMEL PL revision number on the title page. For example, “MMEL [PL-54](#), Revision 10 GC.” MMEL PLs with a GC designation will contain a header box explaining their applicability (e.g., to what types of aircraft, operators, and/or operations the GC applies). The header box will also contain requirements on how to apply the sample proviso(s) of the GC to an operator’s MEL. See Figure 2-2.

**Figure 2-2. Sample Global Change Header Box**

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MMEL GLOBAL CHANGE (GC)

This is an approved addendum to all existing MMEL documents. Operators may seek use of the specific relief contained in this PL by revising their minimum equipment list (MEL). In doing so, each applicable sample proviso stating the relief in this PL must be copied verbatim in the operator’s MEL. Approval of a revised MEL is gained utilizing established procedures through the assigned Principal Operations Inspector (POI). This GC expires 9/13/2025.

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- 2.6.2 GC Designation Applicability.** An MMEL PL with a GC designation is typically applicable to all aircraft. MMEL PLs will specify applicability (inclusion or exclusion) when the GC designation is not applicable to all aircraft types. The Principal Operations Inspector (POI) has the authority to approve the inclusion of an installed item in the operator’s MEL on the basis that an MMEL PL with a current GC designation is an approved addendum to the existing MMEL. The POI should contact the FOEB Chair prior to approving the MEL if there is a concern about the applicability of the GC designation for that specific aircraft.

**2.6.3** GC Designation Expiration. The GC designation typically has an expiration date. In that case, after the expiration date, GC relief is no longer available for an operator to add to their MEL. An exception exists if the FOEB Chair agrees to extend the GC expiration date. An operator that would like to add GC relief after the expiration date of a GC can submit a request for an expiration date extension to the FOEB Chair. Certain GC policy letters may be published without an expiration date. In those cases, the GC relief remains available to operators for use in their MELs until the policy letter is revised or canceled.

**2.6.4** GC Designation Validity. The MEL relief available in an MMEL PL with a GC designation is valid until any of the following occur:

- The aircraft's MMEL is revised to include information in the applicable MMEL PL;
- An applicable STC Relief Approval Letter is issued; or
- The MMEL PL GC designation is revised, canceled, or expired.

## CHAPTER 3. MINIMUM EQUIPMENT LIST (MEL)

**3.1 General.** An MEL allows an operator to continue to operate an aircraft with certain inoperative items or to reposition the aircraft to a place where repairs can be made. The MEL is intended to permit operations with inoperative items of equipment for the minimum period of time necessary until repairs can be accomplished. It is important that repairs be accomplished at the earliest opportunity in order to return the aircraft to its design level of safety and reliability.

**Note:** Unless specified otherwise, the term “MEL,” used throughout this AC, refers to both: (1) the MEL approval under LOA D095, consisting of an MMEL and a procedures document, and (2) the MEL approval under LOA D195, consisting of an operator-developed MEL. When required for clarity, this AC will distinguish between an MEL approval under LOA D095 or D195 by using the terms “procedures document,” or “operator-developed MEL,” respectively.

**3.1.1 Requirement for All Aircraft Equipment to be Operative.** Except as provided in §§ [21.197](#) and [91.213\(d\)](#), or under the provisions of an MEL and LOA, all instruments or equipment items installed on an aircraft in compliance with the airworthiness standards or operating rules must be operative for takeoff. For information about operating in accordance with § 91.213(d), see Chapter [4](#).

**3.1.2 MEL Characteristics.** An MEL and its associated LOA issued under the provisions of § 91.213(a) constitute an approved STC for the aircraft. An MEL allows an operator to continue a flight (or series of flights) with certain items inoperative or to reposition to a place where repairs can be made. An operator’s MEL may be more restrictive than the MMEL, but it will not be less restrictive.

**3.1.3 MEL Development and Content.** MEL development is the responsibility of the operator. Operators base their MEL on the MMEL applicable to the aircraft M/M/S, or the Single-Engine Airplanes MMEL (generic), as appropriate. When developing an MEL, the operator should list all MMEL items for which the operator requests relief, based on their aircraft configuration and operation. See Chapters [7](#) and [8](#) for detailed information concerning MEL content. Except for NEF program items, MEL relief is only available for items listed in:

1. The MMEL,
2. An applicable STC Relief Approval Letter (e.g., Design Change Approval Letter), or
3. An applicable MMEL PL with a current GC designation.

**Note:** See Chapter [10](#) for information on how to obtain relief for an item not listed in items 1–3 above.

**3.1.4 MEL Restrictions.** An operator’s MEL will not be in any way less restrictive than the following:

- The MMEL from which it was developed;
- Title 14 CFR operating rule;
- The operator's LOA D095 or D195;
- The approved flight manual limitations and emergency procedures;
- Applicable MMEL PLs with current GC designation;

**Note:** Use of MMEL PL with a GC designation is not mandatory; however, if used, the MEL relief may not be less restrictive than the MMEL PL relief.

- STC/instructions for continued airworthiness (ICA) (as applicable); and
- Applicable ADs.

**3.1.5 MEL Conflicts with ADs.** Occasionally, an AD applies to an item that may be authorized to be inoperative under the MEL. In those cases, the operator must fully comply with the terms of the AD or an FAA-approved alternative method of compliance (AMOC) with the AD. When provisions of an AD allow operation of the aircraft on the condition certain installed items be used or be operative, those affected items must be operative, even if the MEL provides for the deferral of repair.

**3.1.6 MEL Management Program Not Required.** An operator, as defined by this AC, is not required to have an MEL management program. However, a means of recording discrepancies and corrective actions must be available to the pilot in command (PIC) when operating under the provisions of § 91.213(a).

### **3.2 Three Methods for Operating an Aircraft with Inoperative Equipment.**

Section 91.213 provides three methods for operating an aircraft with inoperative instruments or equipment installed. The relief could be obtained:

- Through an MEL and LOA;
- Under the provisions of § 91.213(d); or
- Under a special flight permit (SFP) issued in accordance with §§ 21.197 and [21.199](#).

**3.2.1 Experimental Aircraft.** An operator may not operate an aircraft for which the FAA issued an original experimental Airworthiness Certificate with inoperative items unless specifically authorized in the aircraft's operating limitations.

**3.3 MEL LOA.** The FAA indicates approval of an MEL under the provisions of § 91.213(a) through the issuance of an LOA authorizing the operation of the specific aircraft with inoperative items in accordance with the MEL and the conditions and limitations of the LOA. The MEL and the LOA together constitute an STC for the aircraft.

**3.3.1 LOA D095 Versus LOA D195.** For aircraft operated under parts [91](#), [133](#), and [137](#) (including part 91 operations conducted by parts [141](#) and [142](#) CHs), the FAA provides

two types of approvals for MELs under the provisions of § 91.213(a): LOA D095 and D195.

- 3.3.1.1 MEL Approval Under LOA D095.** The MEL approved under LOA D095 consists of the LOA, the aircraft M/M/S-specific MMEL, and the procedures document. See Chapter [7](#) for detailed information regarding procedures document content.
- 3.3.1.2 MEL Approval Under LOA D195.** The MEL approved under LOA D195 consists of the LOA and the operator-developed MEL document, which is based on the aircraft M/M/S-specific MMEL. See Chapter [8](#) for detailed information on operator-developed MEL content.
- 3.3.2 Multiple Aircraft for a Single Operator.** If an operator has multiple aircraft or more than one type of aircraft, the aircraft serial number, registration number, and M/M/S will be entered on the LOA for each aircraft. It is possible for an operator to have some aircraft with an MEL approved under LOA D095 and other aircraft with an MEL approved under LOA D195. Only one LOA D095 and one LOA D195 can be issued per operator.
- 3.3.3 Operational Control.** LOAs are issued to the operator exercising operational control of the aircraft. For example, under an aircraft dry lease agreement, the lessee assumes operational control of the aircraft. Since the lessee is the operator of the aircraft, the lessee may use only an MEL LOA specifically issued to them. The lessee cannot use an MEL authorization issued to any other person (e.g., the lessor or another lessee).
- 3.3.4 Multiple Operators of a Single Aircraft.** An MEL LOA is issued to a specific operator for a specific aircraft. It is common for multiple operators to use a single aircraft on a nonexclusive basis (e.g., multiple dry leases for the use of any one aircraft can be in place at one time). In such instances, each individual operator is required to request an MEL LOA in their own name. An operator may operate only under the MEL LOA issued to it. Under timesharing, interchange, or joint ownership agreements, as defined in § [91.501\(c\)](#), the LOA is issued to the person exercising operational control.
- 3.4 Aircraft Operated Under Multiple 14 CFR Parts.** Section 91.213(c) requires an operator who has an approved MEL issued under either part [91K](#), [121](#), [125](#) (including part 125 LODA holders), or [135](#) to use that MEL for part 91 operations. Only the approved operator may use their MEL in part 91 operations. If a part 91K, 121, 125, or 135 operator (the lessor) dry leases their aircraft to another operator (the lessee), the lessee should obtain their own MEL and LOA since they cannot operate under the lessor's MEL. MEL authorizations are issued to the person exercising operational control.
- 3.5 Fleet MEL.** An operator may develop a fleet MEL for multiple aircraft of the same M/M/S. The operator is not required to list aircraft serial or registration numbers on a fleet MEL. When a fleet MEL is used, aircraft of the same M/M/S may have differing numbers of specific items installed. Operators may use a fleet MEL to reflect all of the items applicable to a specific aircraft fleet type. This is allowable, provided the MMEL

applies to all of the M/M/S aircraft contained in the fleet. For example, the MMEL applies to all Textron Aviation 500 Series Models: 500, 501, 550, S550, and 560 aircraft.

- 3.5.1 Identify Each Model and Configuration Difference.** A fleet MEL will identify each aircraft configuration difference, when appropriate. Operators may use whatever methodology they deem appropriate to distinguish the applicability of individual MEL items to aircraft within the fleet. Methods include, but are not limited to, registration number, serial number, pre/post-Service Bulletin (SB) accomplishment, or system characteristics (e.g., three-display configuration and five-display configuration). The method chosen should make it clear to users which individual MEL item applies.
- 3.5.2 Modifications Within a Fleet.** The aircraft manufacturer determines the configuration of the aircraft, items installed, and official parts listed during the initial aircraft type certification process conducted at the time of manufacture. Any subsequent installation or removal of items is accomplished through the use of an STC or other FAA-approved/accepted data (as appropriate). Operators with a fleet MEL may continue to operate under the provisions of the current fleet MEL with new items installed in one or more fleet aircraft. However, operators may not defer repair of the new items until the items are included in the MMEL, STC Relief Approval Letter, or any design change approval described in Chapter [10](#), and the fleet MEL is revised to include the additional items.

## CHAPTER 4. CONDUCTING OPERATIONS WITHOUT AN MEL

**4.1 Operating Without an MEL.** This chapter provides guidance for operators who elect to conduct flight operations under the provisions of § [91.213\(d\)](#).

**4.1.1 No Application Required.** No application, written request, or approval is required to operate under § 91.213(d).

**4.1.2 Section 91.213(d).** Operators who do not have an MEL per § 91.213(a) or (c) may takeoff an aircraft with inoperative instruments or equipment items provided the conditions detailed in § 91.213(d)(1)–(4) are met.

**4.1.2.1** The following aircraft may be operated under § 91.213(d):

- Rotorcraft, non-turbine-powered airplane, glider, lighter-than-air aircraft, powered parachute, or weight-shift-control aircraft, for which an MMEL has not been developed.
- Small rotorcraft, non-turbine-powered small airplane, glider, or lighter-than-air aircraft for which an MMEL has been developed.

**4.1.2.2** Certain aircraft may not be operated under § 91.213(d), including:

- Turbine-powered airplanes.
- Large rotorcraft for which an MMEL has been developed.
- Large non-turbine-powered airplanes for which an MMEL has been developed.

**Note:** An operator may not operate an aircraft for which the FAA issued an original experimental Airworthiness Certificate with inoperative items unless specifically authorized in the aircraft's operating limitations.

**4.1.2.3** In addition to the above, § 91.213(d) requires:

- Instruments and equipment required by § 91.213(d)(2) must be operative;
- The maintenance action required by § 91.213(d)(3) has occurred; and
- A determination has been made in accordance with § 91.213(d)(4) that the inoperative instrument or equipment does not constitute a hazard to the aircraft.

**4.2 Removal, Deactivation, and Placarding.** When an operator elects to operate without an MEL, any inoperative instrument or equipment items must either be repaired, removed, deactivated, or inspected, and then placarded. Repair, removal, deactivation, or inspection must be performed by a person authorized to perform aircraft maintenance in accordance with § [43.3](#).

**4.2.1** Removal. Removal of any item requires an appropriately authorized person under § 43.7 to:

- Properly record the removal of the item in maintenance records in accordance with § 43.9;
- Properly adjust the aircraft's W&B information and equipment list, if required;
- Placard the cockpit controls or indicators, as appropriate;
- Complete and submit an FAA Form 337, Major Repair and Alteration (Airframe, Powerplant, Propeller, or Appliance), as appropriate; and
- Approve the aircraft for return to service, as appropriate.

**4.2.2** Deactivation. When an item is “deactivated” or “secured,” or both, the specified item must be put into an acceptable condition for safe flight. Deactivation may involve more than simply turning off a system switch, which does not remove power from the system. Deactivation may involve pulling and securing the circuit breaker and/or removing the equipment. Deactivation of an inoperative system is not preventive maintenance as described in part 43 appendix A. Regardless of the method of deactivation, a person authorized to approve the aircraft for return to service under § 43.7 must make the maintenance record entry required by § 43.9. No person may operate the aircraft without the entry required by § 43.9.

- Only appropriately qualified maintenance personnel may conduct procedures requiring specialized knowledge or skill, or requiring the use of tools or test equipment. The satisfactory accomplishment of all maintenance procedures, regardless of who performs them, is the responsibility of the operator.
- An appropriately authorized person must accomplish the deactivation.

**4.2.3** Placarding. Each inoperative item must be placarded (e.g., marked “inoperative”) to inform and remind the flightcrew and maintenance personnel of the item's condition. To the extent practical, placards will be securely affixed to a location adjacent to the control or indicator for the item affected. The placard is not required to be in a particular form, but it will be legible and visible to the flightcrew. The placard may not obscure other controls or indicators and should not interfere with aircraft operation. Unless otherwise specified, placard wording and location will be determined by the aircraft operator.

**4.3** **Continued Operation with Inoperative Items**. The operator of the aircraft must ensure any inoperative instrument or item of equipment, permitted to be inoperative by § 91.213(d)(2), is repaired, replaced, removed, or inspected at the next required inspection, and when listed discrepancies include inoperative instruments or equipment, shall ensure that a placard has been installed, as required by § 43.11.



- The person performing the required inspection must give the aircraft owner or lessee a signed and dated list of all discrepancies not repaired.
- The person performing the required inspection must ensure each inoperative item that remains inoperative is placarded appropriately.

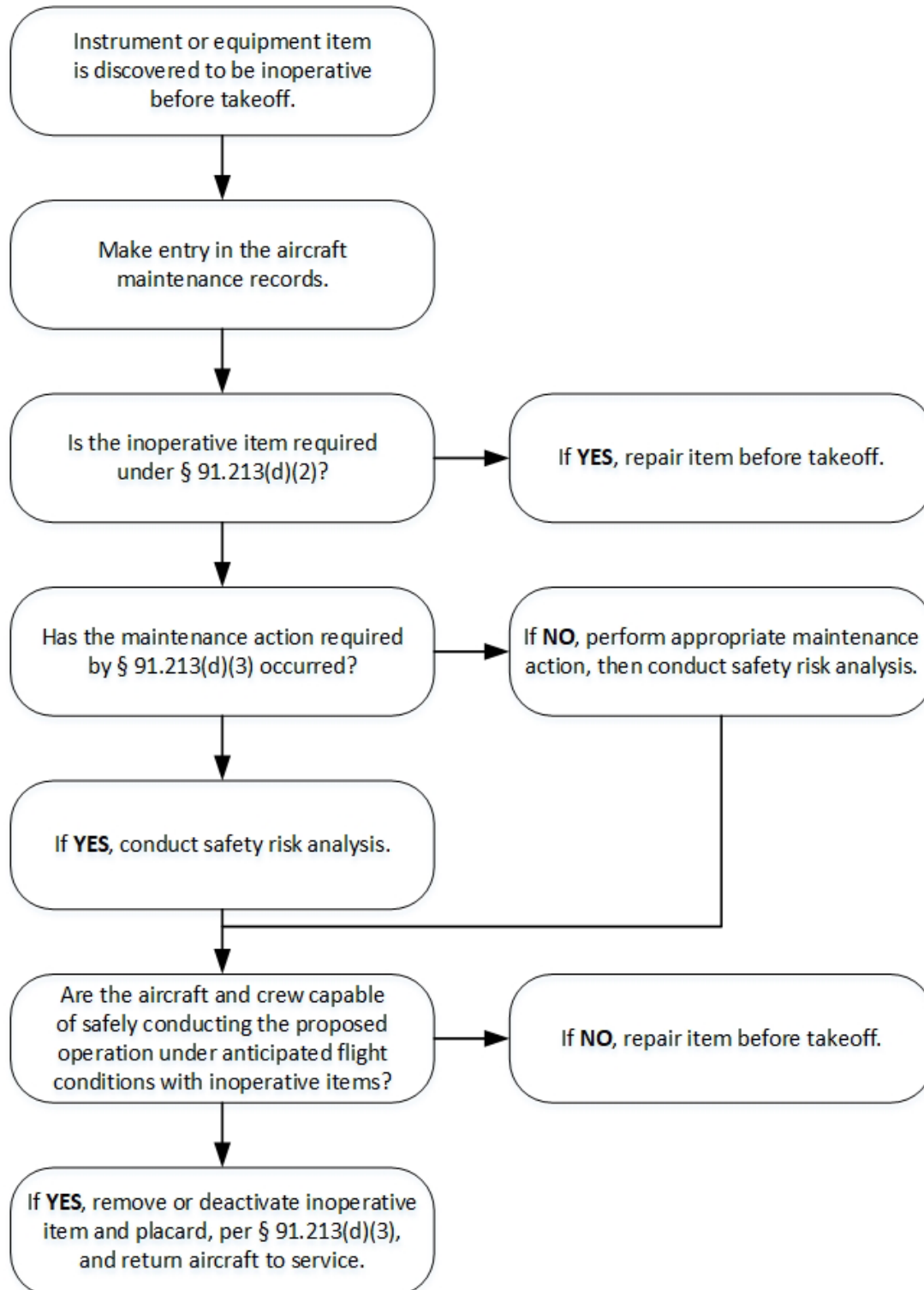
#### **4.4 Safety Risk Analysis of Proposed Operation with Inoperative Equipment Items.**

Before operating an aircraft with inoperative items permitted under § 91.213(d), the operator should carefully evaluate whether the aircraft and crew are capable of safely conducting the proposed operation under anticipated flight conditions with the inoperative equipment. The safety risk analysis should include:

- A determination that the inoperative instrument or equipment, including failure conditions, does not constitute a hazard to the operation;
- A determination that the inoperative instrument or equipment is not required for the planned operation, such as oceanic/remote, or international operations;
- Interrelationship and effects of multiple instrument or equipment item failures;
- Adverse weather;
- Night operations;
- Departure and destination airports and their surrounding environment;
- En route environment;
- Diversion and alternate airport options;
- Additional crew workload caused by inoperative items;
- Crew fatigue; and
- Other human factor considerations.

**Figure 4-1. PIC Decision Sequence**

Figure 4-1 illustrates the sequence of events involved in operating an aircraft under § 91.213(d) with inoperative items.



## CHAPTER 5. CONDUCTING OPERATIONS WITH AN MEL

- 5.1 Operating with an MEL.** If the aircraft has an MEL and LOA, the PIC may defer allowable inoperative items by following the MEL procedures. When operating under the provisions of § [91.213\(a\)](#), the MEL and LOA must be accessible to the PIC. The MEL may be available in hardcopy (printed) or digital format. Indirect methods of MEL and LOA access, such as telephone, radio, or data link, are not acceptable.
- 5.1.1 Applicability.** MEL item relief may be applied to newly identified inoperative items up until takeoff. Takeoff, for the purposes of this AC, is defined as the act of beginning a flight in which an aircraft is accelerated from a state of rest to that of flight. For the purposes of MEL relief, this means the point at which the pilot begins to apply power to initiate the takeoff from the runway or takeoff surface.
- 5.1.2 Item Failures During or After Engine Start, During Taxi, or Any Time Prior to Takeoff.** The MEL does not allow a flight to continue if a discrepancy is discovered before takeoff, but not yet addressed by repair or deferral. An aircraft must not takeoff with inoperative items until the MEL deferral process has been completed. For instance, if the MEL procedures for a specific item require a mechanic's inspection, takeoff would be prohibited until the required inspection is complete.
- 5.1.3 Item Failures After Takeoff.** MEL relief does not apply for item failures occurring after takeoff. After takeoff, the flightcrew should handle item failures in accordance with the Airplane Flight Manual (AFM)/Rotorcraft Flight Manual (RFM)/Pilot's Operating Handbook (POH)-approved procedures. A record of the equipment failure must be made in the aircraft's maintenance records. Before the next takeoff, the inoperative item must either be repaired, or the PIC must follow MEL deferral procedures. Therefore, any item failure that occurs after takeoff, must be addressed before the subsequent takeoff.
- 5.1.4 Safety Risk Analysis of Proposed Operation with Inoperative Items.** Before operating an aircraft with inoperative items using an MEL, the operator should carefully evaluate whether the aircraft and crew are capable of safely conducting the proposed operation under anticipated flight conditions with the inoperative equipment. The safety risk analysis should include, but is not limited to:
- A determination that the inoperative instrument or equipment, including the failure condition, does not constitute a hazard to the operation;
  - A determination that the inoperative instrument or equipment is not required for the planned operation, such as oceanic, remote, or international operations;
  - Interrelationship and effects of multiple instrument or equipment item failures;
  - Adverse weather;
  - Night operations;
  - Departure and destination airports and their surrounding environment;
  - En route environment;

- Diversion and alternate airport options;
- Additional crew workload caused by inoperative items;
- Crew fatigue; and
- Other human factor considerations.

**5.2 Documentation of Deferred Items.** A means of recording discrepancies and corrective actions must be in the aircraft and available to the PIC when operating under the provisions of § 91.213(a). Additionally, when an instrument or equipment item is discovered to be inoperative, an entry must be made in the aircraft maintenance records. Since some operators do not carry aircraft logbooks in the aircraft, a discrepancy record or log is an acceptable alternative. When an operator uses this type of discrepancy log in lieu of the aircraft maintenance records, the operator must retain the log as a part of the aircraft's records, per § [91.417\(b\)](#). If the operator elects to use the aircraft maintenance record to log inoperative items, that portion of the record must be available to the pilot during all operations.

**5.3 Placarding.** Each inoperative item must be placarded (e.g., marked as “inoperative”) to inform and remind the flightcrew and maintenance personnel of the item's condition. To the extent practical, placards will be securely affixed to a location adjacent to the control or indicator for the item affected. The placard is not required to be in a particular form, but will be legible and visible to the flightcrew; may not obscure other controls or indicators; and should not interfere with aircraft operation. Unless otherwise specified (e.g., in an MEL proviso), placard wording and location will be determined by the aircraft operator.

**5.4 Performing (M) and (O) Procedures.** The presence of either (M) or (O) symbols (as explained below) in the “Remarks or Exceptions” column of the MEL indicate a specific (M) or (O) procedure is required to be accomplished. In addition to carrying the documents that comprise the MEL onboard the aircraft, the operator must have accessible any applicable technical manuals needed to accomplish (M) and (O) procedures when operating under the provisions of § 91.213(a).

**5.4.1 (M) Procedures.** The (M) symbol indicates a specific maintenance procedure that must be accomplished prior to operation with the listed item inoperative. Normally, (M) procedures are accomplished by qualified maintenance personnel; however, other personnel may be qualified and authorized to perform certain functions. Procedures requiring specialized knowledge or skill, or requiring the use of tools or test equipment, should be accomplished by maintenance personnel. The satisfactory accomplishment of all (M) procedures, regardless of who performs them, is the responsibility of the aircraft operator. Appropriate procedures are required as a part of the aircraft operator's MEL.

**5.4.2 (O) Procedures.** The (O) symbol indicates a specific operations procedure that must be accomplished prior to operation with the listed item inoperative. Normally, these procedures are accomplished by the flightcrew; however, other personnel may be qualified and authorized to perform certain functions. These procedures may be required for flight planning purposes, or they may require action by the flightcrew. Additionally,

MEL items affecting the aircraft W&B and cargo loading may require procedures for additional personnel, such as those involved with aircraft load control. The satisfactory accomplishment of all (O) procedures, regardless of who performs them, is the responsibility of the aircraft operator. Appropriate procedures are required as a part of the aircraft operator's MEL.

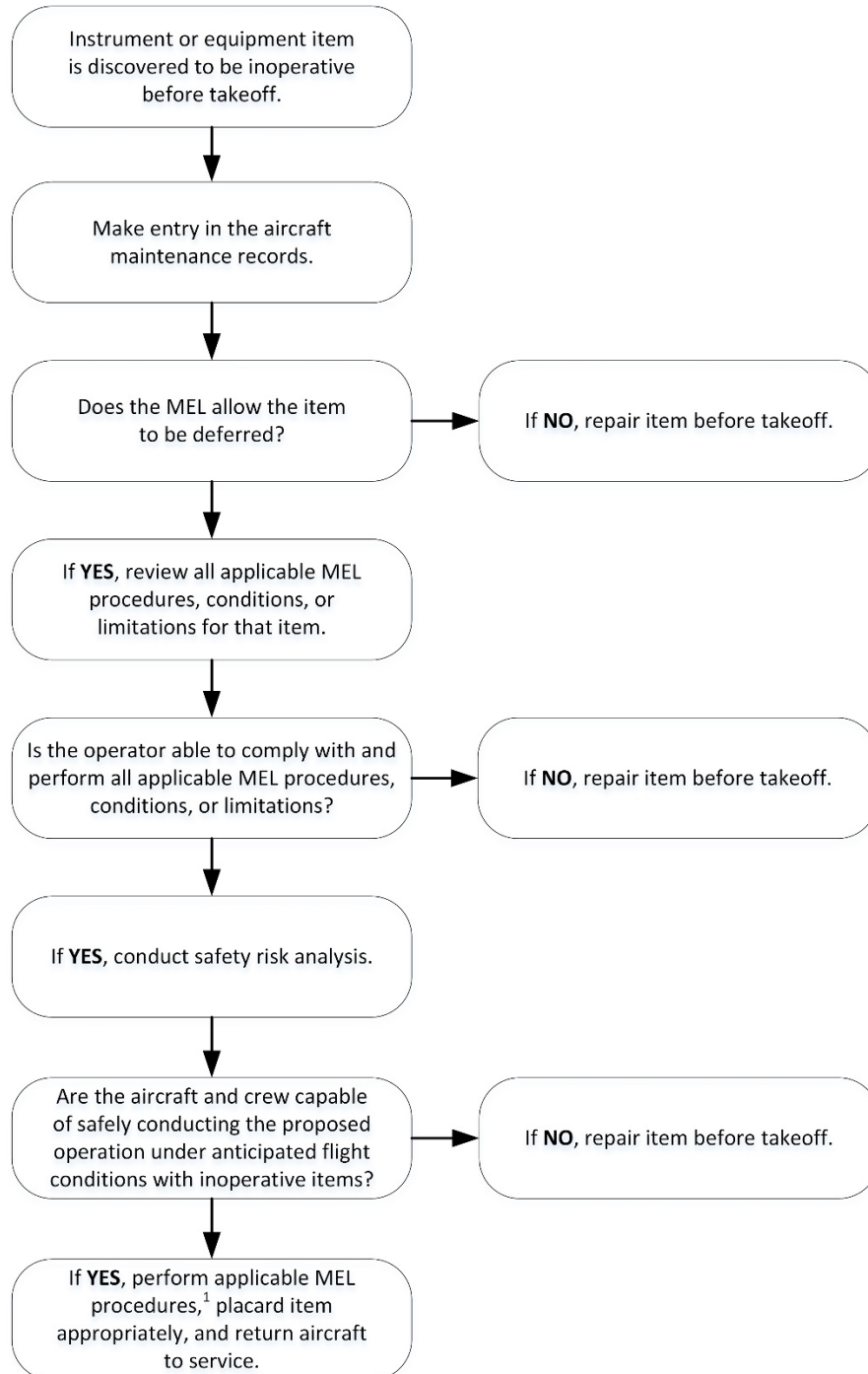
**5.5 Repair of Deferred Instruments or Equipment Items.** The MEL is intended to permit operations with inoperative items for the minimum period of time necessary until repairs can be accomplished. It is important repairs be accomplished at the earliest opportunity in order to return the aircraft to its design level of safety and reliability.

**5.5.1 Accomplishing Repair, Replacement, Removal, or Inspection of Deferred Items.** The repair category intervals indicated by the letters A, B, C, and D in column 1 of the MMEL are not applicable to an MEL approved under the provisions of § 91.213(a), but operators must comply with any provisos defining a repair interval (e.g., flights, flight legs, cycles, hours, days, etc.). The operator must have any inoperative items, which are permitted to be inoperative, either repaired, replaced, removed, or inspected within the proviso-defined repair interval period or at the next required aircraft inspection, whichever comes first. If an operator chooses to defer maintenance on an inoperative item beyond a required aircraft inspection, certificated maintenance personnel must inspect the item for conformance with the requirements of the MEL and § [43.11\(b\)](#).

- The person performing the required inspection must give the aircraft owner or lessee a signed and dated list of all discrepancies not repaired.
- The person performing the required inspection must ensure each inoperative item that remains inoperative is placarded appropriately.

### Figure 5-1. PIC Decision Sequence

Figure 5-1 illustrates the sequence of events involved in using an MEL to operate an aircraft with inoperative items. This chart is not required to be part of the operator's MEL.



<sup>1</sup> The PIC must ensure all applicable (M) and/or (O) procedures are performed and must comply with applicable conditions or limitations listed in the "Remarks or Exceptions" column of the MEL.

## CHAPTER 6. APPLICATION FOR MEL LETTER OF AUTHORIZATION (LOA)

- 6.1 Application for an MEL Approval Issued Under LOA D095.** An operator applying for an MEL approval issued under LOA D095 must submit a signed, written request for issuance of LOA D095 to the responsible Flight Standards office having jurisdiction over the area in which the operator's principal base of operations is located. An electronic signature, or a signed and scanned request transmitted via email is acceptable. The operator's request must contain the information described in Figure [6-1](#), Sample LOA D095 Request Letter. Except for reapplication after cancellation, rescission, or revocation, the operator is not required to submit the procedures document to the FAA. See Chapter [7](#) for detailed information on the procedures document content.
- 6.2 Application for an MEL Approval Issued Under LOA D195.** An operator applying for an MEL approval issued under LOA D195 must submit a signed, written request for issuance of LOA D195, along with a copy of the operator-developed MEL (an electronic copy is preferred), to the responsible Flight Standards office having jurisdiction over the area in which the operator's principal base of operations is located. An electronic signature, or a signed and scanned request transmitted via email is acceptable. The operator's request must contain the information described in Figure [6-2](#), Sample LOA D195 Request Letter for an Operator-Developed MEL That Conforms to the Content Described in AC 91-67. Operators who conduct international operations and currently hold an LOA D095 should state so in their request letter. See Chapter [8](#) for detailed information on operator-developed MEL content.
- 6.3 Request for Approval of an MEL That Does Not Conform to This AC.** An operator may request approval of an operator-developed MEL that does not conform to the content described in this AC. If an operator-developed MEL does not conform to the content described in this AC, the operator should:
1. Submit a signed, written request to the responsible Flight Standards office for approval of an MEL that does not conform to this AC (see Figure [6-3](#), Sample MEL Approval Request Letter for an Operator-Developed MEL That Does Not Conform to the Content Described in AC 91-67);
  2. Explain in their request letter how their MEL meets the requirements of § [91.213\(a\)](#);
  3. Provide a copy of the operator-developed MEL (an electronic copy is preferred) with the request; and
  4. Be advised that approval of the MEL may be delayed.
- 6.4 Oversight.** The FAA may request to review a procedures document or operator-developed MEL during normal surveillance activity. If the FAA determines the MEL does not comply with the conditions and limitations of the operator's MEL LOA, the FAA may rescind the LOA.

**Figure 6-1. Sample LOA D095 Request Letter**

To: Responsible Flight Standards Office

I request issuance of a Letter of Authorization (LOA) D095 under the provisions of Title 14 of the Code of Federal Regulations (14 CFR) part 91, § 91.213 to [complete legal name of operator] for the aircraft listed below.

I attest that I have a copy of the [state the make, model, series (M/M/S) Master Minimum Equipment List (MMEL), revision number (e.g., Gulfstream Aerospace GVII-G500/G600 MMEL, revision 3)] and have developed a procedures document for the listed aircraft. The procedures document conforms to the content described in Advisory Circular (AC) 91-67, and contains:

1. The name of the operator, aircraft serial and registration numbers (or “Fleet”), aircraft M/M/S, and the MMEL revision number;
2. Maintenance (M) and Operations (O) procedures that correspond with the (M) and (O) provisos listed in the MMEL;
3. A list of applicable MMEL items that contain the statement “as required by 14 CFR;”
4. Definitions, per current MMEL Policy Letter (PL)-25; and
5. A preamble, per current MMEL PL-36.

Principal base of operations address of the operator:

[Mailing address of the operator, if different from the principal address]:

Responsible Person’s full name, email address, and/or telephone number [part 91 only]:

Aircraft serial number:

Aircraft registration number:

Aircraft M/M/S:

[List information for additional aircraft, if applicable]

Sincerely,

[Signature]

[Full name of the person legally authorized to make the request on behalf of the operator]



**Figure 6-2. Sample LOA D195 Request Letter for an Operator-Developed MEL That Conforms to the Content Described in AC 91-67**

To: Responsible Flight Standards Office

I request issuance of a Letter of Authorization (LOA) D195 under the provisions of Title 14 of the Code of Federal Regulations (14 CFR) part 91, § 91.213 to [complete legal name of operator] for the aircraft listed below.

I attest that the attached minimum equipment list (MEL) conforms to the content described in Advisory Circular (AC) 91-67, is based on the [state the make, model, series (M/M/S) Master Minimum Equipment List (MMEL), revision number (e.g., Gulfstream Aerospace GVII-G500/G600 MMEL, revision 3)], is not less restrictive than the MMEL, and contains:

1. The name of the operator, aircraft serial and registration numbers (or “Fleet”), aircraft M/M/S, and the MMEL revision number on which the MEL is based;
2. A table of contents;
3. A log of revisions;
4. Definitions, per current MMEL Policy Letter (PL)-25;
5. A preamble, per current MMEL PL-36;
6. Control page(s);
7. Air Transport Association of America (ATA) [or Joint Aircraft System/Component (JASC)] coded system sections;
8. Maintenance (M) and Operations (O) procedures that correspond with the (M) and (O) provisos listed in the MMEL; and
9. Applicable MMEL items that contain the statement “as required by 14 CFR.”

Principal base of operations address of the operator:

[Mailing address of the operator, if different from the principal address]:

Responsible Person’s full name, email address, and/or telephone number [part 91 only]:

Aircraft serial number:

Aircraft registration number:

Aircraft M/M/S:

[List information for additional aircraft, if applicable]

Sincerely,

[Signature]

[Full name of the person legally authorized to make the request on behalf of the operator]

**Figure 6-3. Sample LOA D195 Request Letter for an Operator-Developed MEL That Does Not Conform to the Content Described in AC 91-67**

To: Responsible Flight Standards Office

I request review and approval of a Title 14 of the Code of Federal Regulations (14 CFR) part 91 minimum equipment list (MEL) that does not conform to the content described in Advisory Circular (AC) 91-67. Upon review and approval, I request issuance of Letter of Authorization (LOA) D195 under the provisions of part 91, § 91.213 to [complete legal name of operator] for the aircraft listed below.

[Explain how the MEL conforms to the requirements of § 91.213(a)]

I have attached the proposed MEL for your review and approval.

Principal base of operations address of the operator:

[Mailing address of the operator, if different from the principal address]

Responsible Person's full name, email address, and/or telephone number [part 91 only]:

Aircraft serial number:

Aircraft registration number:

Aircraft make, model, and series (M/M/S):

[List information for additional aircraft, if applicable]

Sincerely,

[Signature]

[Full name of the person legally authorized to make the request on behalf of the operator]

## CHAPTER 7. CONTENT OF A PROCEDURES DOCUMENT

**7.1 MEL Approval Under LOA D095.** The MEL approved under LOA D095 consists of three documents: the LOA, the aircraft M/M/S-specific MMEL, and the procedures document.

**Note:** Operators may include MMEL PLs with a current GC designation, STC Relief Approval Letters, or any design change approval described in Chapter 10, as an attachment to the MMEL.

**7.2 Procedures Document Content.** This chapter provides information to ensure the procedures document meets the requirements listed in LOA D095.

1. The procedures document must contain the name of the operator, aircraft serial and registration numbers (or “Fleet”), aircraft M/M/S, and the MMEL revision number on which the MEL is based.
2. The procedures document must include specific content based on the items installed on the operator’s aircraft. The procedures document may omit an MMEL item if the item or configuration is not installed or if the operator elects to not take relief. If the operator does not take relief for an installed item, the procedures document will clearly state that no MEL relief is provided for that item, and it must be operative for takeoff.
3. A procedures document should incorporate the phraseology used in the MMEL, wherever appropriate, to ensure clarity and standardization.

**7.3 Procedures Document Required Sections.** The procedures document must contain the following sections:

**7.3.1 (M) and (O) Procedures.** The presence of either (M) or (O) symbols in the MMEL “Remarks or Exceptions” column indicates specific (M) or (O) procedures are required to be accomplished prior to operation when the item is inoperative. The procedures document must contain (M) and (O) procedures corresponding to the (M) and (O) provisos, if present, listed in the MMEL for all installed equipment for which the operator desires MEL relief. The procedures document’s (M) and (O) procedures:

1. Must meet the intent of the (M) and (O) provisos in the MMEL, if provisos are present.
2. Must never be less restrictive than the (M) and (O) provisos in the MMEL.
3. May be either manufacturer’s (M) and (O) procedures or operator-developed (M) and (O) procedures.

**Note:** It is recommended, although not required, that operators use the Original Equipment Manufacturer’s (OEM) document (e.g., maintenance operational placarding procedures (MOPP), dispatch deviation guide (DDG), MEL procedures manual (MPM), etc.) as the required (M) and (O) procedures element.

4. May be developed from the manufacturer's (M) and (O) procedures or the guidance provided in the manufacturer's AFM, RFM, or Aircraft Maintenance Manual (AMM), manufacturer's recommendations, engineering specifications, or other appropriate sources. Operators are not required to copy the manufacturer's recommended (M) and (O) procedures verbatim in their procedures document. When a manufacturer-recommended procedure exists, the operator may use it as published or develop equivalent procedures for their procedures document.
5. Must comply with all 14 CFR requirements and must not deviate from the AFM/RFM limitations, emergency procedures, or ADs, all of which take precedence over the MEL.
6. Must specify suitable conditions and limitations in the form of placards, maintenance procedures, crew operating procedures, and other restrictions, which must be accomplished by the operator to ensure an ALoS is maintained.
7. May reference a procedure in an FAA-approved or FAA-accepted manual. The manual reference must be preceded by a specific instruction defining the action required and direct the use of that manual to include specific enough information (e.g., chapter, section, task, or paragraph references) for the user to find the proper procedure.

**7.3.2** As Required by 14 CFR. An operator must develop a list of all MMEL items containing the statement "as required by 14 CFR" or any similar statement, based on the items installed on the operator's aircraft for which the operator desires MEL relief. The procedures document will: (1) list the specific 14 CFR part and section (e.g., 14 CFR part [91](#), § [91.209](#)) (and the operator must ensure the applicable 14 CFR section is accessible on board the aircraft), or (2) specify the requirements and/or limitations to conduct the flight in accordance with the appropriate 14 CFR regulations. MMEL [PL-25](#) contains a list of regulatory references according to the ATA chapter number. This list is not all-inclusive.

**Note:** The term "14 CFR" has replaced "Federal aviation regulations (FAR)" as the current reference to Federal regulations pertaining to aviation. Many MMELs and MELs still contain the acronym "FAR" and should be updated to "14 CFR" as they are revised.

**7.3.3** Definitions. MMEL and MEL definitions are contained in MMEL PL-25. Operators must include all applicable definitions in their procedures document. Not all of the MMEL definitions are required to be in a procedures document, as some are related to format issues, specific aircraft types, and certain types of operations. Certain portions of an MMEL definition may be edited or are not required, but the intent of the definition must be the same and must not be less restrictive than the definition in MMEL PL-25. Alternatively, operators may insert the entire MMEL PL-25 in the procedures document. Operators may download MMEL PLs from the "MMELs and AED Guidance Documents" section in DRS at <https://drs.faa.gov>.

**7.3.4 Preamble.** The preamble contained in MMEL [PL-36](#) is applicable to all § [91.213\(a\)](#) MEL approvals under LOA D095. This preamble must be reproduced verbatim in the procedures document and include the aircraft type.

**7.4 Procedures Document Optional Sections.** An operator may include the optional sections listed below. The operator may also include additional sections containing information relevant to their MEL.

**7.4.1 Cover Page.** The cover page format and information may be the same as the MMEL. The cover page content and format may vary due to operator preference.

**7.4.2 Table of Contents.** The table of contents is a list of all the sections/chapters in the procedures document by title and the corresponding page identification. The format may vary due to operator preference.

**7.4.3 Log of Revisions.** The log of revisions contains the revision identification (typically a number and/or letter) and the date of the revision. At the operator’s discretion, it may also contain a list of the revised pages, a block for the initials of the person posting the change, and additional enhancements for use by the operator. The format may vary due to operator preference.

**7.4.4 Control Page (List of Effective Pages (LEP)).** Control pages are used for tracking the status of the MEL and include a record of the revision status or the date of each page of the operator’s MEL. The format may vary due to operator preference.

**7.4.5 Highlights of Change Page.** This page list contains a summary of the changes made by the operator in each revision.

**7.5 Example “As Required by 14 CFR” and (M) and (O) Procedures.** Figures 7-1(a) through [7-3\(b\)](#) are examples of MMEL and corresponding procedures document “as required by 14 CFR” and (M) and (O) procedures. These are examples only and are not intended to be used or depicted as actual MMEL or procedures document procedures.

**Figure 7-1(a). Example MMEL “As Required by 14 CFR” Statement**

AIRCRAFT: (insert make and model)		<b>TABLE KEY</b>				
		1. REPAIR CATEGORY 2. NO. INSTALLED 3. NO. REQUIRED FOR DISPATCH 4. REMARKS OR EXCEPTIONS				
<b>33. LIGHTS</b>						
Sequence No.	Item	1	2	3	4	Change Bar
<b>33-07</b>	Landing Light	<b>C</b>	-	<b>0</b>	As required by 14 CFR	

**Figure 7-1(b). Example Procedures Document “As Required by 14 CFR” Regulatory Reference or Requirement/Limitation**

33-33-07: 14 CFR Reference: 14 CFR 91.205(c)(4) and 91.205(d)(1).  
 [And ensure the applicable 14 CFR section is accessible on board the aircraft.]

Or

33-33-07: The landing light must be operative for night flight operations if the aircraft is being operated for hire.

**Note:** Illustrated in the examples above, the procedures document will: (1) list the specific 14 CFR part and section (and the operator must ensure the applicable 14 CFR section is accessible on board the aircraft), or (2) specify the requirements and/or limitations to conduct the flight in accordance with the appropriate 14 CFR regulations.

**Figure 7-2(a). Example 1 MMEL Maintenance (M) and Operations (O) Symbols and Provisos**

AIRCRAFT: (insert aircraft make and model)		<b>TABLE KEY</b>				
		1. REPAIR CATEGORY 2. NO. INSTALLED 3. NO. REQUIRED FOR DISPATCH 4. REMARKS OR EXCEPTIONS				
<b>78. Engine Exhaust</b>						
Sequence No.	Item	1	2	3	4	Change Bar
-30-01	Thrust Reverser	C	2	0	(M)(O) May be inoperative provided: a) Affected thrust reverser is locked in the forward thrust position, and b) Appropriate performance penalties are applied.	

**Figure 7-2(b). Example 1 Procedures Document Maintenance (M) and Operations (O) Procedures**

78-30-01:

**Maintenance (M) Procedure**

Lock affected thrust reverser in the forward thrust position in accordance with AMM 78-30-12.

**Operations (O) Procedure**

Refer to AFM Performance Section, Thrust Reverser inoperative for applicable takeoff and landing penalties.

**Note:** AMM 78-30-12 and the AFM in the above example are FAA-approved or FAA-accepted manuals.

**Figure 7-3(a). Example 2 MMEL Maintenance (M) Symbol and Proviso**

AIRCRAFT: (insert aircraft make and model)		<b>TABLE KEY</b>				
		1. REPAIR CATEGORY	2. NO. INSTALLED	3. NO. REQUIRED FOR DISPATCH	4. REMARKS OR EXCEPTIONS	
<b>28. FUEL</b>						
Sequence No.	Item	1	2	3	4	Change Bar
28-21-25	XBP Crossfeed Valve	A	2	0	(M) One or more may be inoperative in closed position provided: a) All Booster Pumps are operative, b) Affected XBP Crossfeed Valve is secured in closed position, and c) Repairs are made within 3 consecutive calendar-days.	

**Figure 7-3(b). Example 2 Procedures Document Maintenance (M) Procedure**

28-21-25:

**Maintenance (M) Procedure**

**CROSSFEED VALVE IN CLOSED POSITION:**

1. Open the door 170AB.
2. Check that the inoperative XBP crossfeed valve (400QS/410QS) is in close position (“C”).

NOTE: If not, set the valve to close (“C”) using the lever.

3. Disconnect the electrical connector.
4. Close the door 170AB.

NOTE: Place inoperative placard near MDU.

## CHAPTER 8. CONTENT OF AN OPERATOR-DEVELOPED MEL

- 8.1 MEL Approval Under LOA D195.** The MEL approved under LOA D195 consists of two documents: the LOA and the operator-developed MEL.
- 8.2 MEL Content.** This chapter provides detailed content requirements to ensure the operator-developed MEL meets the requirements listed in LOA D195.
1. The MEL must contain the name(s) of the operator(s), aircraft serial and registration numbers (or “Fleet”), aircraft M/M/S, and the MMEL revision number on which the MEL is based.
  2. Operators may copy the MMEL format outline directly into their MEL. An operator may also customize their MEL format, provided the format does not make the MEL in any way less restrictive than the MMEL. An MEL may contain corrections to MMEL typos, spelling, and punctuation errors.
  3. The MEL must include specific content based on the items installed on the operator’s aircraft. The aircraft operator’s MEL may omit an MMEL item if the item or configuration is not installed or if the operator elects to not take relief.
  4. If an operator elects to take relief for items listed in MMEL PLs with a current CG designation, STC Relief Approval Letter, or any design change approval described in Chapter [10](#), the MEL must comply with the requirements of paragraph [8.5](#) below for those items.
  5. The MEL should incorporate the phraseology used in the MMEL, wherever appropriate, to ensure clarity and standardization.
- 8.3 MEL Required Sections.** The operator-developed MEL must contain the following sections:
- 8.3.1 Table of Contents.** The table of contents is a list of all sections/chapters in the MEL by title and the corresponding page identification. The format may vary due to operator preference.
- 8.3.2 Log of Revisions.** The log of revisions contains the MEL revision identification (typically a number and/or letter) and the date of the MEL revision. At the operator’s discretion, it may also contain a list of the revised pages, a block for the initials of the person posting the change, and additional enhancements for use by the operator. The format may vary due to operator preference.
- 8.3.3 Definitions.** Definitions of the terms used in MMELs and MELs are found in MMEL [PL-25](#). Operators must include all applicable definitions in their MEL. Not all of the MMEL PL-25 definitions are required to be in an operator’s MEL, as some are related to format issues, specific aircraft types, and certain types of operations. Certain portions of a definition may be edited or are not required, but the intent of the definition must be the same and must not be less restrictive than the definition in MMEL PL-25. Operators may download MMEL PLs from the “MMELs and AED Guidance Documents” section in DRS at <https://drs.faa.gov>.



- 8.3.4** Preamble. The preamble contained in MMEL [PL-36](#) is applicable to all § [91.213\(a\)](#) MEL approvals under LOA D195. This preamble must be reproduced verbatim in the MEL.
- 8.3.5** Control Page (LEP). Control pages are used for tracking the status of the MEL and include a record of the revision status or the date of each page of the operator's MEL. It may also be used as a means of conveying FAA approval of the MEL. The format may vary due to operator preference. At a minimum, control pages must contain:
- The name(s) of the operator(s);
  - A listing of all of the pages in the MEL (individually or the range of applicable pages for a given section/chapter), including the date of all pages and their number or revision number; and
  - The MMEL revision number on which the MEL is based.
- 8.3.6** ATA/JASC Coded System Sections. These sections are organized by aircraft system according to the ATA/JASC coded numbering system and include individual item sequence numbers, items, repair categories, number of items installed, number of items required for dispatch, remarks or exceptions, and (M) and (O) procedures. See paragraph 8.5 below for additional information.
- 8.4** **MEL Optional Sections**. The operator-developed MEL may include the optional sections listed below. The operator may also include additional sections containing information relevant to their MEL.
- 8.4.1** Cover Page. The cover page format and information may be the same as the MMEL.
- 8.4.2** Highlights of Change Page. This page list contains a summary of the changes made by the operator in each revision.
- 8.5** **ATA/JASC Coded System Sections**. The operator-developed MEL must be organized using the MMEL ATA/JASC coded numbering system. The MEL ATA/JASC coded system sections will include a list of individual items in the aircraft, together with requirements for operation when the items are inoperative. Each coded system section will be further broken down into individual item sequence numbers.
- 8.5.1** ATA/JASC System Code Numbers. Operators must use the ATA or JASC coded numbering system. The ATA/JASC numbering system provides an industrywide standard for numbering aircraft systems and is relevant for all aircraft.
- 8.5.2** Individual Item Sequence Number and Items. Individual item sequence numbers are the unique identification for each item within an ATA/JASC system category. The numbering scheme may be modified to align with the aircraft operator's specific MEL format and may differ from the MMEL. They are not required to match ATA/JASC system item numbers.

- 8.5.2.1** A triple asterisk (\*\*\*) below the system number in column 1 of an MMEL indicates an item that is not required by regulation has been installed on some models of a particular aircraft M/M/S. An operator may not carry the “\*\*\*” symbol over to the MEL. Operators omit the symbol and use a system sequence number when the item is installed on one or more of the operator’s aircraft.
- 8.5.2.2** An operator is not required to list all MMEL items in their MEL; however, if a particular item is not in the operator’s MEL, then the item must be fully operative at takeoff.
- 8.5.2.3** Operators may add limitations and restrictions to a particular item beyond what is required by the MMEL. An operator’s MEL limitations, conditions, and restrictions must never be less restrictive than the MMEL.
- 8.5.2.4** Operators will typically list an MEL item exactly as it is in the MMEL. If an MMEL uses a generic term to describe a particular item, an operator may use different terminology, provided the operator’s terminology is recognizable and easily identified with the corresponding MMEL item.
- 8.5.2.5** When an MEL item contains multiple components, those components may be listed separately following the item in the MEL.
- 8.5.2.6** Operators must not list duplicate items, or items listed individually elsewhere in the MMEL. For ease of use, cross-referencing is permitted.
- 8.5.2.7** Individual components of an MMEL or MEL item may not be listed as NEF.
- 8.5.3** Repair Categories. The repair category intervals indicated by the letters A, B, C, and D in column 1 of the MMEL are not applicable to an operator-developed MEL, but operators must comply with any provisos defining a repair interval (e.g., flights, flight legs, cycles, hours, days, etc.). At an operator’s discretion, repair category interval letters (e.g., A, B, C, or D) may be omitted from the MEL. If an operator chooses to include repair categories in their MEL, they may comply with the repair category intervals as a best practice, but they are not mandatory. Inoperative equipment in all cases must be repaired, replaced, removed, or inspected by qualified maintenance personnel at the next required inspection. Refer to § [91.405\(c\)](#).
- 8.5.4** Number of Items Installed (Number Installed). The “Number Installed” column of an MEL lists the number (quantity) of the specified item installed on the aircraft.
- 8.5.4.1** **Variable Number Installed.** A dash (-) for the number installed indicates a variable number (quantity) of the installed item. The use of a dash (-) is common in fleet MELs where aircraft of the same M/M/S have differing numbers of specific items. A dash (-) is also used for MEL items that provide relief for fault messages (e.g., Crew Alert System (CAS), engine indicating and crew alerting system (EICAS), and electronic centralized aircraft monitoring (ECAM)). Additionally, operators may use a dash (-) if it is

impractical to show the actual number of the specific items (including but not limited to light bulbs, light-emitting diodes (LED), cabin storage compartments, and cargo lining panels) installed on the aircraft.

**8.5.4.2 Items Listed on the MMEL but Not Installed on the Aircraft.** An operator's MEL does not have to list MMEL items not installed on the operator's aircraft. For number continuity in an MEL, operators may choose to:

1. Simply omit the item from the MEL altogether. The option to either renumber the subsequent individual items or maintain the original MMEL sequence numbering is at the operator's discretion.
2. List the item in the MEL and then show the "Number Installed" as zero (0). In this case, the "Number Required for Dispatch" would also be zero (0), and the remark "Not Installed" noted under "Remarks or Exceptions." Additionally, in this case, the repair category designators would be omitted.

**8.5.5 Number Required for Dispatch.** The "Number Required for Dispatch" column of an MEL reflects the minimum number (quantity) of items required for flight, provided the conditions specified in the "Remarks or Exceptions" are met. The number of items required for dispatch in an MEL may differ from what is required in the MMEL under the following conditions:

1. The item is listed in the MMEL as optional and is not installed on the aircraft. In this case, a zero (0) may be shown as the number required, the "Number Installed" shown as zero (0), and the remark "Not Installed" noted under "Remarks or Exceptions."

**Note:** An operator's MEL does not have to list MMEL items not installed on the operator's aircraft.

2. The "Number Required for Dispatch" is followed by a dash (-) in the MMEL. Where the MMEL shows a variable number (-) required for dispatch, the MEL may reflect the actual number required for dispatch or an alternate means of configuration control approved by the Administrator. An aircraft operator's MEL may contain a dash (-) where the number required is based on the conditions of flight, such as adequate cockpit lighting. Fleet configuration differences (where applicable) and the dispatch requirements must be specified in the "Remarks or Exceptions" section.
3. The number required for dispatch in the MEL is not less restrictive than the MMEL.

**8.5.6 Remarks or Exceptions.** The "Remarks or Exceptions" column includes provisos, notes, "as required by 14 CFR" requirements and/or limitations, and (M) and (O) symbols. Some MMEL "Remarks or Exceptions" are intentionally general to accommodate a variety of operators and operating rules. An MEL must expand upon these general MMEL "Remarks or Exceptions," as required to adequately and safely address an operator's particular operations and operating rules. See the examples in paragraph [8.6](#) below.

- 8.5.6.1 Provisos.** Provisos are conditions or limitations that must be complied with for operation with the listed item inoperative. The term indicates by association that an item may be deferred, provided that certain conditions are met. If more than one proviso applies, they will be listed separately by number or lowercase letter. For example, a proviso may allow an item to be inoperative provided the airplane is not operated in Extended Operations (ETOPS); and another proviso requires the aircraft only be operated under VFR when that same item is inoperative. In most instances, MEL provisos will be written verbatim from the MMEL, but there are cases where it is acceptable to deviate from the MMEL. However, in every case, the operator MEL will not be less restrictive than the MMEL or the relevant 14 CFR requirement. For example, deleting “established and” from the phrase “alternate procedures are established and used” would not be less restrictive since the inclusion of the procedure in the MEL meets the requirement to “establish” the procedure.
- 8.5.6.2 Notes.** Notes provide additional information for flightcrew or maintenance consideration. Notes are used to identify applicable material intended to assist with compliance but do not relieve the aircraft operator of the responsibility for compliance with all applicable requirements. Additional notes may be added to the aircraft operator’s MEL, as appropriate. Some notes in the MMEL may not be appropriate in an aircraft operator’s MEL and may be amended or deleted. Notes are not a part of the proviso. Where more than one note is included, they will be numbered accordingly (e.g., NOTE 1, NOTE 2). Notes are repeated, as necessary, following each applicable MEL sub-item.
- 8.5.6.2.1** Notes may contain a suggestion to aid with compliance such as: “The operator’s alternate procedures should include reviewing wind shear avoidance and wind shear recovery procedures.”
- 8.5.6.2.2** Notes may be more specific such as: “Flight level (FL) 310 or below must be maintained if normal operating pack fails,” or, “When FCMC 2 is inoperative, fuel quantity indication can have dashes on the two last digits.”
- 8.5.6.2.3** As appropriate, the operator includes the MMEL note in the MEL, or bases their (M) and (O) procedures on the information contained in the note.
- 8.5.6.2.4** The information within a note must remain within the scope of the definition of “notes” in MMEL PL-25.
- 8.5.6.3 As Required by 14 CFR.** The MEL must address all items listed in the MMEL containing the statement “as required by 14 CFR,” or any similar statement, based on the items installed on the operator’s aircraft for which the operator desires MEL relief. If the phrase “as required by 14 CFR,” or any similar statement, is used in an MEL, it must accompany information that clearly specifies the regulatory requirement. The MEL will: (1) list the specific 14 CFR part and section (e.g., 14 CFR part [91](#), § [91.209](#)) and the

operator must ensure the applicable 14 CFR section is accessible on board the aircraft, or (2) specify the requirements and/or limitations to conduct the flight in accordance with the appropriate 14 CFR regulations. MMEL PL-25 contains a list of regulatory references according to ATA chapter number. This list is not all-inclusive.

**Note:** The term “14 CFR” has replaced “Federal aviation regulations (FAR)” as the current reference to Federal regulations pertaining to aviation. Many MMELs and MELs still contain the acronym “FAR” and should be updated to “14 CFR” as they are revised.

**8.5.6.4 (M) and (O) Symbols and Procedures.** The presence of either (M) or (O) symbols in the MMEL “Remarks or Exceptions” column indicates specific (M) or (O) procedures are required to be accomplished prior to operation with the listed item inoperative. The MEL must contain (M) and (O) procedures corresponding to the (M) and (O) provisos listed in the MMEL for all installed equipment for which the operator desires MEL relief.

**8.5.6.5 MEL (M) and (O) Procedures.** The MEL (M) and (O) procedures:

1. Must meet the intent of the (M) and (O) provisos in the MMEL.
2. Must never be less restrictive than the (M) and (O) provisos in the MMEL.
3. May be either manufacturer’s (M) and (O) procedures or operator-developed (M) and (O) procedures.
4. May be developed from the manufacturer’s (M) and (O) procedures or the guidance provided in the manufacturer’s AFM, RFM, or AMM, manufacturer’s recommendations, engineering specifications, and other appropriate sources. Operators are not required to copy the manufacturer’s recommended (M) and (O) procedures verbatim in their MEL. When a manufacturer-recommended procedure exists, the operator may use it as published or develop equivalent procedures for their MEL.
5. Must comply with all 14 CFR requirements and must not deviate from the AFM/RFM limitations, emergency procedures, or AD, all of which take precedence over the MEL.
6. Must specify suitable conditions and limitations in the form of placards, maintenance procedures, crew operating procedures, and other restrictions, which must be accomplished by the operator. As part of the review and approval process, the FAA may ask the operator to include additional instructions within the procedure to ensure that deferral procedures will continue to provide an ALoS.
7. May be presented in a variety of formats and locations at the discretion of the operator. For example, they may be placed in separate columns, below the MEL table or included in an appendix to the MEL. They may be

included in the “Remarks or Exceptions” column, but must be clearly distinct from the (M) and (O) provisos.

8. Are subject to FAA review and validation to ensure they are adequate for the relief sought.
9. May be fully depicted in the operator’s MEL or in another manual. If a procedure is contained in another manual, the MEL should provide a specific reference to that manual. See paragraph 8.5.6.6 below.

**8.5.6.6 Reference to an FAA-Approved or FAA-Accepted Manual.** An operator may include a reference to the appropriate FAA-approved or FAA-accepted manual that contains the procedure(s) required to address a particular MEL item. Only FAA-approved or FAA-accepted manuals may be referenced in the MEL. The following requirements apply when referencing these manuals:

1. Manual references must be preceded by either a proviso(s) or specific instruction(s) defining the action required. A single proviso or specific instruction may have more than one manual reference associated with it.
2. Manual references must direct the use of that manual, including adequate information (e.g., chapter, section, task, or paragraph references) for the user to find the proper procedure. The actual revision level/date of the manual is not required in the MEL.
3. The proviso or specific instruction and manual reference in the MEL is considered the means of compliance for MEL purposes and is FAA-approved. The actual procedure referenced is either FAA-approved or FAA-accepted depending on the status of the manual referenced.

**8.6 Example Proviso, “As Required by 14 CFR,” and (M) and (O) Procedures.**

Figures [8-1\(a\)](#) through [8-4\(c\)](#) demonstrate the differences between general information contained in the MMEL “Remarks or Exceptions” column and specific operator-developed MEL information. These are examples only and are not intended to be used or depicted as actual MMEL or MEL procedures.

**8.6.1 Example Provisos.** When an MMEL contains general remarks, such as, “May be inoperative provided procedures do not require its use,” or “May be inoperative or missing if alternate procedures are established and used,” the operator must be specific in the MEL.

**8.6.1.1** If there are no operator procedures that rely on the item listed in the MMEL, then the MEL may simply state, “Procedures do not require its use; may be inoperative,” or use a similar statement.

**8.6.1.2** If there are operator procedures that rely on the item listed in the MMEL, then the MEL remark states the conditions or limitations which apply to operations with that equipment inoperative. For example, “May be inoperative provided overwater operations are not conducted,” or, “May be inoperative provided long-range communications procedures do not require its use.”

- 8.6.1.3** If there are operator procedures that rely on the item listed in the MMEL, but there is alternate equipment that could be used, then the MEL remark notes the use of that equipment (and thus, must be operative). For example, “HDG HOLD Mode. May be inoperative provided HDG SEL or LNAV autopilot/flight director mode(s) is operative.”
- 8.6.1.4** There may be cases where the dispatch decision needs to be made by the PIC based on conditions at the departure or destination airport, or along the route of flight. These conditions could result from Notice to Air Missions (NOTAM) information or ground-based equipment outages. These situations would be known only to the pilot when preparing for specific flights; therefore, a more general proviso would be appropriate. For example, “May be inoperative provided departure, en route, or arrival/approach procedures do not require its use.”
- 8.6.1.5** Where the MMEL contains an unconditional statement, such as, “May be inoperative or missing,” the MEL may leave the statement unmodified, or even omit the statement if the operator’s procedures or operations do not require the item’s use.

**8.6.2** Example “As Required by 14 CFR” Statements.

**Figure 8-1(a). Example MMEL General “As Required by 14 CFR” Statement**

AIRCRAFT: (insert aircraft make and model)		<b>TABLE KEY</b>				
		1. REPAIR CATEGORY 2. NO. INSTALLED 3. NO. REQUIRED FOR DISPATCH 4. REMARKS OR EXCEPTIONS				
<b>33. LIGHTS</b>						
Sequence No.	Item	1	2	3	4	Change Bar
33-07	Landing Light	C	-	0	As required by 14 CFR	

**Figure 8-1(b). Example MEL Specific “As Required by 14 CFR” Regulatory Reference**  
(The operator must ensure the applicable 14 CFR section is accessible on board the aircraft.)

AIRCRAFT: (insert aircraft make and model)		<b>TABLE KEY</b>				
		1. REPAIR CATEGORY 2. NO. INSTALLED 3. NO. REQUIRED FOR DISPATCH 4. REMARKS OR EXCEPTIONS				
<b>33. LIGHTS</b>						
Sequence No.	Item	1	2	3	4	Change Bar
33-07	Landing Light		1	0	14 CFR Reference: 14 CFR 91.205(c)(4) and 91.205(d)(1).	

**Figure 8-1(c). Example MEL Specific “As Required by 14 CFR” Requirement/Limitation**

AIRCRAFT: (insert aircraft make and model)		<b>TABLE KEY</b>				
		1. REPAIR CATEGORY 2. NO. INSTALLED 3. NO. REQUIRED FOR DISPATCH 4. REMARKS OR EXCEPTIONS				
<b>33. LIGHTS</b>						
Sequence No.	Item	1	2	3	4	Change Bar
33-07	Landing Light		1	0	The landing light must be operative for night flight operations if the aircraft is being operated for hire.	

**Note:** Illustrated in the examples above, the MEL will: (1) list the specific 14 CFR part and section (and the operator must ensure the applicable 14 CFR section is accessible on board the aircraft), or (2) specify the requirements and/or limitations to conduct the flight in accordance with the appropriate 14 CFR regulations.

**8.6.3 Example (M) and (O) Symbols and Procedures.**

**Figure 8-2(a). Example 1 MMEL General Maintenance (M) and Operations (O) Symbols and Provisos**

AIRCRAFT: (insert aircraft make and model)		<b>TABLE KEY</b>				
		1. REPAIR CATEGORY 2. NO. INSTALLED 3. NO. REQUIRED FOR DISPATCH 4. REMARKS OR EXCEPTIONS				
<b>78. Engine Exhaust</b>						
Sequence No.	Item	1	2	3	4	Change Bar
-30-01	Thrust Reverser	C	2	0	(M)(O) May be inoperative provided: a) Affected thrust reverser is locked in the forward thrust position, and b) Appropriate performance penalties are applied.	



**Figure 8-2(b). Example 1 MEL Specific Maintenance (M) and Operations (O) Symbols and Provisos**

AIRCRAFT: (insert aircraft make and model)		<b>TABLE KEY</b>				
		1. REPAIR CATEGORY 2. NO. INSTALLED 3. NO. REQUIRED FOR DISPATCH 4. REMARKS OR EXCEPTIONS				
<b>78. Engine Exhaust</b>						
Sequence No.	Item	1	2	3	4	Change Bar
-30-01	Thrust Reverser		2	0	(M)(O) May be inoperative provided: a) Affected thrust reverser is locked in the forward thrust position, and b) Appropriate performance penalties are applied.	

**Figure 8-2(c). Example 1 MEL Specific Maintenance (M) and Operations (O) Procedures**

78-30-01:

**Maintenance (M) Procedure**

Lock affected thrust reverser in the forward thrust position in accordance with AMM 78-30-12.

**Operations (O) Procedure**

Refer to AFM Performance Section, Thrust Reverser inoperative for applicable takeoff and landing penalties.

**Note:** AMM 78-30-12 and the AFM in the above example are FAA-approved or FAA-accepted manuals.

**Figure 8-3(a). Example 2 MMEL General Maintenance (M) Symbol and Proviso**

AIRCRAFT: (insert aircraft make and model)		<b>TABLE KEY</b>				
		1. REPAIR CATEGORY 2. NO. INSTALLED 3. NO. REQUIRED FOR DISPATCH 4. REMARKS OR EXCEPTIONS				
<b>28. FUEL</b>						
Sequence No.	Item	1	2	3	4	Change Bar
28-21-25	XBP Crossfeed Valve	A	2	0	(M) One or more may be inoperative in closed position provided: a) All Booster Pumps are operative, b) Affected XBP Crossfeed Valve is secured in closed position, and c) Repairs are made within 3 consecutive calendar-days.	

**Figure 8-3(b). Example 2 MEL Specific Maintenance (M) Symbol and Proviso**

AIRCRAFT: (insert aircraft make and model)		<b>TABLE KEY</b>				
		1. REPAIR CATEGORY 2. NO. INSTALLED 3. NO. REQUIRED FOR DISPATCH 4. REMARKS OR EXCEPTIONS				
<b>28. FUEL</b>						
Sequence No.	Item	1	2	3	4	Change Bar
28-21-25	XBP Crossfeed Valve		2	0	(M) One or more may be inoperative in closed position provided: a) All Booster Pumps are operative, b) Affected XBP Crossfeed Valve is secured in closed position, and c) Repairs are made within 3 consecutive calendar-days.	

**Figure 8-3(c). Example 2 MEL Specific Maintenance (M) Procedure**

28-21-25:

**Maintenance (M) Procedure**

**CROSSFEED VALVE IN CLOSED POSITION:**

1. Open the door 170AB.
2. Check that the inoperative XBP crossfeed valve (400QS/410QS) is in close position (“C”).

NOTE: If not, set the valve to close (“C”) using the lever.

3. Disconnect the electrical connector.
4. Close the door 170AB.

NOTE: Place inoperative placard near MDU.

**Figure 8-4(a). Example 3 MMEL General Operation (O) Symbol and Proviso**

AIRCRAFT: (insert aircraft make and model)		<b>TABLE KEY</b>				
		1. REPAIR CATEGORY 2. NO. INSTALLED 3. NO. REQUIRED FOR DISPATCH 4. REMARKS OR EXCEPTIONS				
<b>23. COMMUNICATIONS</b>						
Sequence No.	Item	1	2	3	4	Change Bar
-43-01	Flight Deck to Ground Interphone System	B	1	0	(O) May be inoperative provided alternative procedures are established and used.	

**Figure 8-4(b). Example 3 MEL Specific Operations (O) Symbol and Proviso**

AIRCRAFT: (insert aircraft make and model)		<b>TABLE KEY</b>				
		1. REPAIR CATEGORY 2. NO. INSTALLED 3. NO. REQUIRED FOR DISPATCH 4. REMARKS OR EXCEPTIONS				
<b>23. COMMUNICATIONS</b>						
Sequence No.	Item	1	2	3	4	Change Bar
-43-01	Flight Deck to Ground Interphone System		1	0	(O) May be inoperative provided alternative ground communications procedures are used.	

**Figure 8-4(c). Example 3 MEL Specific Operations (O) Procedure**

23-43-01:

**Operations (O) Procedure**

May be inoperative provided:

1. Verify to ground crew personnel before main cabin door is closed that ECAM message NW STRG DISC is displayed.
2. Use company hand signals as required. Refer to Ramp Operations Manual, Chapter 1, for a complete list of company hand signals.

**Note 1:** The Ramp Operations Manual in the above example is an FAA-approved or FAA-accepted manual.

**Note 2:** The proviso in the above MEL example was changed from the MMEL proviso because alternative procedures “are established.”

## CHAPTER 9. MEL REVISIONS

**9.1 General.** MEL revisions may be initiated by either the FAA or the operator. The revision to an operator's MEL must comply with the conditions and limitations of the operator's MEL LOA.

- MEL revisions for an MMEL used as an MEL under LOA D095 consist of using the latest mandatory MMEL revision and revising the procedures document, as required.
- MEL revisions for an operator-developed MEL under LOA D195 consist of revising the operator-developed MEL.

**9.1.1 Operator Responsibility to Obtain MMEL Revisions.** It is the responsibility of an operator to obtain the latest revisions to their MMEL, applicable STC Relief Approval Letter, and applicable MMEL PLs. Operators may download these documents from the "MMELs and AED Guidance Documents" section in DRS at <https://drs.faa.gov>.

**Note:** Operators may keep informed of MMEL revisions by subscribing to receive automatic email notifications for their aircraft. To subscribe, visit <https://service.govdelivery.com/accounts/USFAAMMEL/subscriber/new>.

**9.1.2 Submission of Revised Operator-Developed MEL to the FAA for Approval.** Operators must submit revisions to an operator-developed MEL under LOA D195 to the responsible Flight Standards office for approval. An electronic copy is preferred. The revised MEL may not be used prior to FAA approval. Holders of LOA D095 are not required to submit a revised procedures document to the FAA.

**Note:** MEL revisions solely for the purpose of documenting the inapplicability of a mandatory MMEL revision, or to incorporate revised MMEL [PL-25](#) or [PL-36](#) content, are not required to be submitted to the FAA. If the control page is revised, the operator will retain the previous FAA-signed MEL control page(s) or LEP within the MEL.

**9.2 FAA-Initiated MEL Revisions.** An FAA-initiated MEL revision may be due to an MMEL revision, MMEL PL revision, AD, or deficiencies discovered in the MEL.

**9.2.1 MMEL Revision.** There are two types of MMEL revisions: nonmandatory/interim, and mandatory/standard.

**9.2.1.1 Nonmandatory/Interim MMEL Revision.** A nonmandatory/interim MMEL revision means that revision to an operator's MEL is optional and not required. If the relief granted by the nonmandatory/interim MMEL revision is applicable to an operator's aircraft operations, then it is advisable the operator revise their MEL to incorporate the MMEL revision. If the nonmandatory/interim MMEL revision is not applicable to an operator's aircraft operations, they may disregard the MMEL revision altogether. For example, a nonmandatory/interim MMEL revision is issued to provide for optional equipment such as logo lights, which are not installed on all aircraft

of a particular type. Operators operating an aircraft without logo lights may simply ignore the MMEL revision. Operators operating an aircraft with logo lights may choose to incorporate the MMEL revision if the operator would like MEL relief for inoperative logo lights.

1. A nonmandatory/interim MMEL revision is identified by the current standard revision number plus a lowercase letter. For example, a nonmandatory/interim revision following revision 5 will be identified as revision 5a. There may be subsequent interim revisions to the same standard revision. These subsequent revisions carry the next lowercase letter (e.g., 5b, 5c, or 5d).
2. The operator's MEL revision number does not have to match the MMEL revision number. Operators may use their own revision numbering system.
3. If an MMEL revision results in a change to the system number, sequence item number, repair interval, or proviso, the operator does not need to modify or close an open MEL item and reinitiate it. Instead, the item may continue to be tracked under its original deferral until the item is repaired and the deferral cleared.

**9.2.1.2 Mandatory/Standard MMEL Revision.** A mandatory/standard MMEL revision means that revision to an operator's MEL is required. A mandatory/standard MMEL revision includes changes applicable to all operators using an MEL for a specific aircraft type.

**9.2.1.2.1** A mandatory/standard MMEL revision is identified by the next successive change to the basic MMEL revision number. For example, the next mandatory/standard revision following nonmandatory/interim revision 6a, 6b, or 6c is revision 7. The next mandatory/standard revision following revision 7 is revision 8.

**9.2.1.2.2** The operator is required to review the mandatory/standard MMEL revision to determine if the more restrictive revised content is applicable to their aircraft and operation. If so, the operator must revise their MEL as follows:

1. For an MMEL used as an MEL under LOA D095: Within 90 calendar days of the date of the MMEL revision, the operator must revise their procedures document. The revision must address (M) and (O) or "as required by 14 CFR" procedures, as applicable. If no changes are determined to be applicable to the aircraft or operator, then the operator is not required to update the procedures document. However, the FAA recommends the operator make a statement in the procedures document that the mandatory revision has been reviewed and determined not to apply. Regardless, the procedures document must contain the MMEL revision number on which the MEL is based.

2. For an operator-developed MEL under LOA D195:
  - a. If the revised content of the mandatory/standard MMEL revision is applicable, the operator must revise their MEL and incorporate applicable changes and submit it to the responsible Flight Standards office for approval within 90 calendar days of the date of the MMEL revision. The revised MEL may not be used prior to FAA approval.
  - b. If the revised content of the mandatory/standard MMEL revision is not applicable, within 90 calendar days of the revision, the operator must document its inapplicability. Revise the MEL control page(s) or LEP to indicate the MEL is in compliance with the required MMEL revision. The operator will retain the previous FAA-signed MEL control page(s) or LEP within the MEL.
  - c. Irrespective of applicability, the operator-developed MEL must contain the MMEL revision number on which the MEL is based.

**9.2.1.2.3** If an MMEL revision results in a more restrictive proviso, the operator does not have to close and reinitiate an existing open MEL item affected by the revision. Existing MEL items may remain open in accordance with the original proviso under which the item was initially deferred until such time as the item is repaired or replaced and the MEL item is closed.

**9.2.1.2.4** If an MMEL revision results in a change to the system number or sequence item number, the operator does not need to modify or close an open MEL item and reinitiate it under its new number. Instead, the item may continue to be tracked under its original item number until the item is repaired and the deferral cleared.

**9.2.2** Revisions as a Result of an MMEL PL with a GC Designation. An operator may revise their MEL based on relief available in an MMEL PL with a current GC designation. An operator is not required to include GC designation relief in their MEL. See paragraph [2.6](#) above for detailed information on MMEL PLs with a GC designation.

**9.2.3** Revisions Initiated by the Responsible Flight Standards Office. The responsible Flight Standards office may initiate an MEL revision for reasons such as the issuance of an AD, upon discovery of deficiencies in the operator's MEL (including (M) and (O) procedures), or upon discovery that the operator has modified their aircraft.

**9.2.3.1** The responsible Flight Standards office will inform the operator of the need to revise their MEL in writing and provide the reasons why the revision must be accomplished.

**9.2.3.2** The responsible Flight Standards office will allow the operator 90 calendar days to complete the revision process. An operator may request an extension for developing an MEL revision. If the responsible Flight Standards office determines the safety of flight could be affected (e.g., AD), they may specify a shorter period of time.

**9.2.4** MMEL PL-25 (Definitions) or MMEL PL-36 (Preamble) Revision. A revision to MMEL PL-25 does not necessitate immediate revision of the operator's MEL. However, the current revision to MMEL PL-25 should be incorporated in the next FAA or operator-initiated MEL revision. A revision to MMEL PL-36 would necessitate a revision to a procedures document under LOA D095 or an operator-developed MEL under LOA D195. MEL revisions solely for the purpose of incorporating revised MMEL PL-25 or PL-36 content need not be submitted to the FAA.

**9.3 Operator-Initiated MEL Revisions.** An operator may revise their MEL for a number of reasons. An operator-initiated MEL revision will not be, in any way, less restrictive than the MMEL.

**9.3.1** Major Aircraft Modifications. An operator may elect to initiate an MEL revision due to major aircraft modifications, such as an STC, a major alteration (refer to FAA Form [337](#)), or a modification to the TC.

**9.3.2** Installation of Additional Items. An operator may initiate a change based on the installation of additional items. An operator may add an item to their MEL only if it is listed in:

1. The MMEL,
2. An applicable STC Relief Approval Letter, or
3. An applicable MMEL PL with a current CG designation.

**Note:** See Chapter [10](#) for information on how to obtain relief for an item not listed in items 1–3 above.

**9.3.3** Changes in Operational Complexity. An operator may need to revise their MEL due to changes in their operational complexity, such as adding a type of operation (e.g., Reduced Vertical Separation Minimum (RVSM), CAT II/III landing minimums, etc.). An operator may need to revise their MEL for the purpose of adding or revising (M) and (O) procedures based on operational complexity.

**9.4 Vertical Bar (Change Bar).** A vertical bar denotes a change in content. For MMELs, a vertical bar is placed in the right margin; location in the operator's MEL is a matter of choice. A change due to copy editing (e.g., punctuation, spelling, or grammatical structure) does not need a vertical bar in an MMEL or MEL. All vertical bars applicable to the previous revision of the MMEL are removed at the next revision. It is permissible to issue an MMEL or MEL revision without vertical bars when the revision affects most or all relief items. In which case, in lieu of vertical bars, a note is added to the "Highlights of Change" page instructing operators to consider all content revised and indicating that vertical bars are not used. Other alternate means of compliance may be used if approved by the Administrator.

## CHAPTER 10. MEL RELIEF FOR ITEMS INSTALLED AFTER TYPE CERTIFICATION

- 10.1 General.** The aircraft design approval holder (DAH) determines the configuration of the aircraft, the items installed, and the official parts listed during the initial aircraft type certification process conducted at the time of manufacture. Subsequent installation or removal of items may be accomplished through an STC, an Engineering Order (EO), a field approval, or other FAA-approved methods, as appropriate.
- 10.2 Operator NEF Items or Administrative Control Items (ACI).** Items listed on an operator's NEF program are excluded from the requirements in this chapter. With respect to ACIs, relief is listed elsewhere in the operator's manual system, and they are also excluded from the guidance in this chapter.
- 10.3 MEL Relief for Items Installed via a Change to a Type Design.** Operators may add relief for items resulting from changes to type design to their MELs, and may exercise MEL relief for such items, when that relief has been evaluated by the operator's responsible Flight Standards office or the AED, and the operator's MEL is approved by the POI. Requested relief must meet or exceed the original level of safety.
- 10.3.1** An operator may add relief for an STC or for another design change to an MEL through the normal MEL revision process, when:
1. The change in type design is specifically listed in the applicable aircraft's MMEL (i.e., STC XXX, etc.);
  2. An approval letter from the AED is in DRS at <https://drs.faa.gov> (or a paper copy) for the specific change in type design; or
  3. An MMEL PL with a current GC designation contains relief for the item(s).
- Note:** Upon evaluation and approval of a design change, the AED will submit an approval letter directly to DRS. Operators may download STC Relief Approval Letters from the "MMELs and AED Guidance Documents" section in DRS at <https://drs.faa.gov>. Paper copies of the AED approval letter are also acceptable in lieu of the DRS database. The approval letter will contain the allowed relief, including conditions and provisos, along with remarks or exceptions. Approval letters will be dated and have revision numbers. Operators may amend their MEL(s) with the relief for the STC(s) in accordance with the AED approval letter. MMEL [PL-109](#) provides additional information on how to obtain MMEL/MEL relief for items associated with STCs.
- 10.3.2** If the operator is unable to obtain relief as described above, they should submit a request to the responsible Flight Standards office and include enough supporting information to allow for a thorough evaluation of the risk associated with operating the aircraft with the item inoperative. For a detailed list of the information required, operators should contact their responsible Flight Standards office. Once a request is received, PIs will first determine if relief for the unevaluated item requires AED evaluation. If required, PIs will coordinate with the applicable AED office before approving MEL relief. Requested or



pending MEL relief for items associated with recent or imminent changes to the type design may not be added to an operator's MEL, or exercised by the operator, until the relief has been approved by the POI.

## CHAPTER 11. NONESSENTIAL EQUIPMENT AND FURNISHINGS (NEF) PROGRAM

- 11.1 Definition.** NEF are those items installed on the aircraft as part of the original TC, STC, EO, or other form of alteration that have no effect on the safe operation of flight and would not be required by the applicable certification or operational rules. These are items that, if inoperative, damaged, or missing, have no effect on the aircraft's ability to be operated safely under all operational conditions. NEF items are not items already identified in the MEL or CDL of the aircraft. NEF do not include items that are functionally required to meet the certification rule or for compliance with any operational rule.
- 11.2 Background.** The NEF program originated from an earlier form called Passenger Convenience Items (PCI) program. PCIs were items related to passenger convenience, comfort, or entertainment located in the passenger compartment, galley, and lavatory areas. The PCI program did not allow for nonessential items that were missing or inoperative located elsewhere in the aircraft. Due to the limited nature of PCI, the FAA replaced the PCI title in ATA/JASC code 25 in all MMELs with the acronym NEF. An NEF program allows operators to use the deferral authority granted by virtue of their MEL LOA to provide deferral relief for nonessential items located throughout the aircraft.
- 11.3 The NEF Program Under § 91.213(a).** An operator's MEL approved under the provisions of § 91.213(a) may include an NEF program that allows relief for nonessential items. An NEF program is supplemental to the MEL approval under § 91.213(a); it is not a standalone program. An NEF program is developed by an operator to meet their individual needs. An operator's NEF program is a supplement to the operator's MEL. The NEF program encompasses: (1) an (optional) list of NEF items located in the operator's MEL, (2) a process for evaluating an item in accordance with NEF requirements, and (3) policies and procedures for repair and/or replacement. Operators may choose to use the recommended method of evaluation shown in Figure [11-2](#), NEF Item Selection Criteria Elements Flowchart, or they may use an alternative method that is acceptable to the FAA. If an operator's NEF program is insufficient or systemically problematic, the FAA may cancel, rescind, or revoke the operator's MEL LOA.
- 11.3.1** NEF items are:
- Items installed on the aircraft that have no effect on the safe operation of the aircraft.
  - Items installed as part of the original TC, STC, EO, or other form of alteration, not required by certification or operational rules.
  - Items that if inoperative, damaged, or missing, have no effect on the safe operation of the aircraft under all operational conditions.

- Nonessential items located throughout the aircraft, including the flight deck area, service areas, cargo areas, and crew rest areas, in addition to the passenger compartment, lavatories, and galley areas.
- Cosmetic items not associated with an MEL or CDL item.

**Note:** Cosmetic items may have associated fire retardant/blocking requirements to be considered before listing them as an NEF item.

#### 11.3.2 NEF items are not:

- Instrument and equipment already identified in the MMEL, MEL, or CDL of the applicable aircraft.
- Instruments and equipment functionally required for meeting any certification rule.
- Instruments and equipment required for compliance with any operational rule.
- Items deferred contrary to an operator's Continuous Airworthiness Maintenance Program (CAMP).
- Paint (mismatched, bad, or worn condition).

**Note:** Paint is addressed in other maintenance documents utilized for determining airworthiness; the NEF program is not applicable.

- Rodent or pest (bug) infestations of any type.
- Items which are only dirty or soiled (e.g., carpet, seats, interior sidewalls, dirty garbage can, etc.).

**Note:** An NEF item is not to be used as an ACI. An ACI is listed in the MEL for tracking and informational purposes. (Refer to MMEL [PL-25](#) for more information regarding ACIs.)

**11.4 Deferral Authority.** Authority for an operator's NEF program is inherent in their MEL LOA; therefore, the NEF program does not need to be submitted to the FAA with the operator's MEL LOA application. An operator may defer NEF items in accordance with their operator-developed NEF program.

**11.4.1** Although the NEF program is included in ATA/JASC chapter 25, it may address items that fall under other ATA/JASC chapters.

**11.4.2** The operator's NEF deferral procedures and processes may not provide for deferral of items within serviceable limits identified in the manufacturer's maintenance manual, Structural Repair Manual (SRM), ADs, or operator's maintenance program (e.g., CAMP).

**11.4.3** NEF items are deferred under the operator's NEF program, not under the authority of an Airframe and Powerplant (A&P) certificate.

- 11.5 NEF Program Development.** Operators develop, implement, maintain, and revise their NEF program. The NEF program provides for the ability to defer NEF items whose failure would otherwise result in a non-airworthy status until repair (or replacement) of an item not affecting safety of flight. The FAA may conduct surveillance on an operator's NEF program at any time. An operator's failure to comply with their NEF program may result in the cancellation, rescission, or revocation of the operator's MEL LOA.
- 11.6 Required NEF Program Contents.** Operators will design their NEF program to fit the scope and depth of operation, including, at a minimum, the following nine processes and procedures:
- 11.6.1 Method of Tracking NEF Items.** A list or other equivalent method of tracking NEF items may be used. Although an operator does not need to develop and maintain a list, nor include the specific NEF items inside the MEL, a list reduces both the FAA and operator's time spent analyzing recurring deferrals of the same item. Operators who choose not to develop an NEF list will be required to treat each NEF deferral as a newly discovered NEF item, as outlined in their individual NEF program.
- 11.6.1.1** If used, the NEF item list should be comprehensive but may be listed in general terms. For example, "cosmetic trim-strips" may be listed rather than identifying each strip individually on the NEF item list.
- 11.6.1.2** Operators are not required to submit changes to their NEF item list to the FAA, and the FAA is not required to review changes to the list.
- 11.6.1.3** The NEF item list does not have to be part of the MEL and may be kept in a form and manner determined by the operator.
- 11.6.1.4** Whether in paper or electronic format, the applicable portions of the NEF item list and NEF process must be available to the flight and cabin crews, maintenance, and flight operations personnel, as appropriate, when items are being deferred in accordance with the operator's NEF program.
- 11.6.2 Identifying Deferrals.** Procedures and processes for identifying NEF items that may be deferred.
- 11.6.3 Tracking Deferrals.** Procedures for tracking program deferrals.
- 11.6.4 Documentation Procedures.** Documentation procedures for inoperative, damaged, or missing NEF items.
- 11.6.5 (M) and (O) Procedures.** Appropriate (M) and (O) procedures.
- 11.6.6 Follow-Up Maintenance.** Procedures for follow-up maintenance, repair, and replacement.
- 11.6.7 Repair Intervals.** Operators may use the current MEL deferral categories, in accordance with paragraph [2.2.4](#), at their discretion or an alternate method acceptable to the Administrator.

- 11.6.8** Title 14 CFR Part [43](#), § [43.13](#) **Compliance.** Any portions of an NEF program that reference maintenance or a maintenance procedure must comply with acceptable practices, as set forth in § 43.13.
- 11.6.9** **NEF Proviso.** The following proviso to an NEF program (see Figure 11-1 below) is included in the operator-developed MEL ATA/JASC chapter 25, or in the case of an MMEL used as an MEL, included in the procedures document. The reference proviso must be copied verbatim. However, as indicated in the proviso, the aircraft operator’s manual where the NEF program is found will contain specific processes and procedures.

**Figure 11-1. Required NEF MEL Proviso for an Operator’s NEF Program**

System & Sequence Numbers 25 Equipment/ Furnishings	Repair Interval	Number Installed	Number Required for Dispatch	Remarks or Exceptions
Nonessential Equipment and Furnishings (NEF)	-	-	0	<p>May be inoperative, damaged, or missing provided that the item(s) is deferred in accordance with the NEF deferral program. The NEF program, procedures, and processes are outlined in the operator’s [insert name] Manual. (M) and (O) procedures, if required, must be available to the flightcrew and included in the aircraft operator’s appropriate document.</p> <p>NOTE: Exterior lavatory door ash trays are not considered NEF items.</p>

- 11.7 NEF Program Approval.** An operator is not required to submit their NEF program, or NEF program revisions, to the FAA, and the FAA is not required to review it. However, the FAA may conduct surveillance on an operator’s NEF program at any time.
- 11.8 Criteria for Selection of NEF Items.** NEF items are not safety-of-flight items. They have not been evaluated by the FAA through the normal AED review process. Therefore, before an operator can list an item as being deferrable under the NEF program, they will follow their NEF program procedures. When reviewing items for inclusion in an operator’s NEF item list, operators should ask the following questions:

- Is the item required for the operational rules in which the aircraft is operated?
- Does the item create the potential for fire/smoke or other hazardous condition?
- Could the item have an adverse effect on other required systems or components?

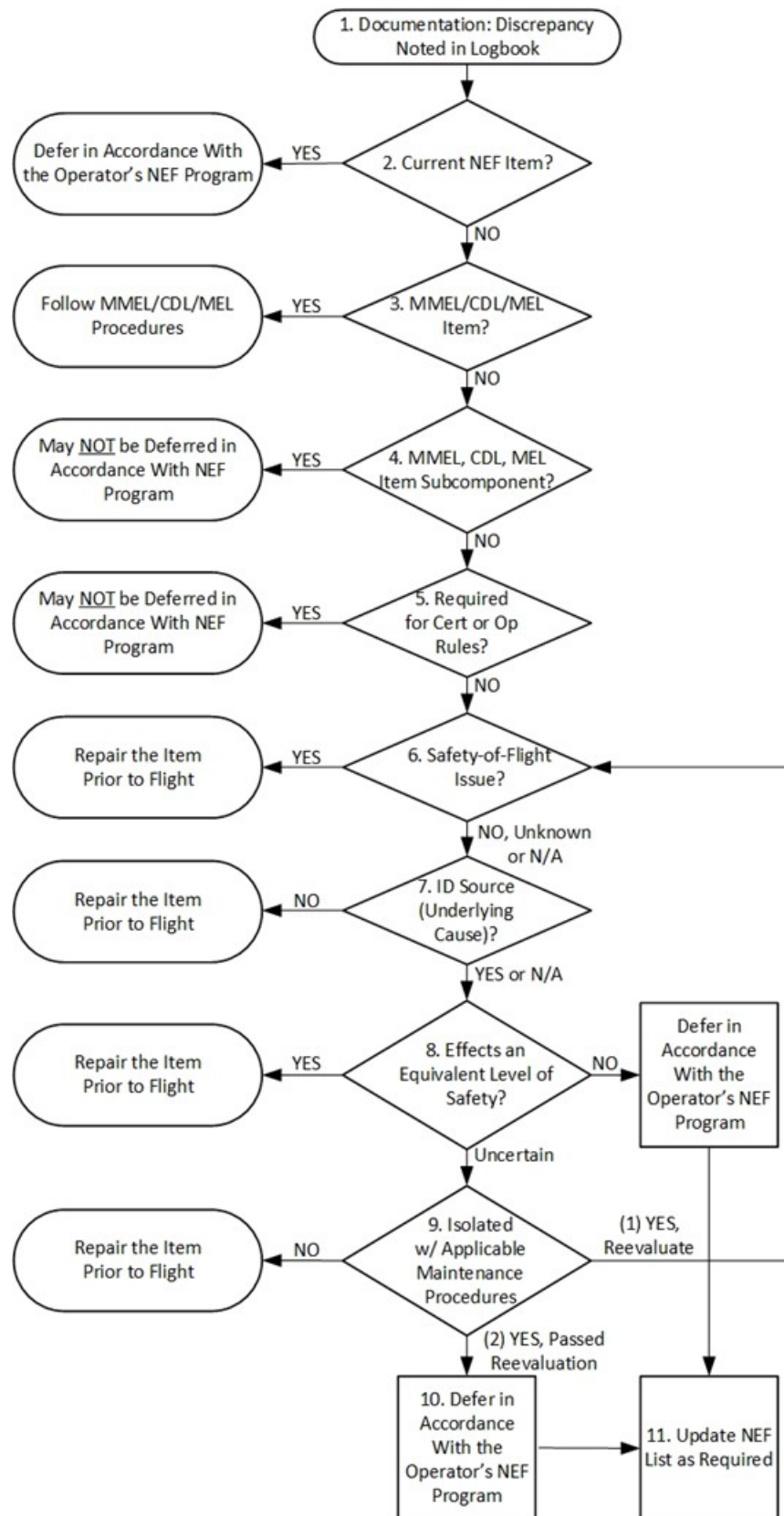
- Does the item's condition potentially affect the safety of passengers, crew, or service personnel?
- Could the item have a negative impact on emergency or abnormal procedures?
- Does the item create an additional workload for the crew at critical times of flight or flight preparation?
- Does the flightcrew need to evaluate the deferred NEF item on a flight-by-flight basis?

**11.9 NEF Deferral Process.** See Figure [11-2](#) for a flowchart that includes the following elements in sequence. The flowchart is a guide for developing an NEF deferral process. The process may be modified to facilitate inclusion in an operator's overall MEL deferral program with the intent of the elements outlined in the flowchart below being addressed.

- 11.9.1 Documentation.** For an inoperative, damaged, or missing item to be considered for inclusion in an NEF program, the discrepancy will be documented in the aircraft logbook (or other approved location) per the operator's discrepancy reporting system. This action is completed by the flightcrew, company maintenance personnel, or personnel authorized and approved to perform such functions as outlined in the operator's maintenance program.
- 11.9.2 Current NEF Items.** If the inoperative, damaged, or missing item is already on the NEF item list (if used), the established procedures for NEF deferral of the item will be followed.
- 11.9.3 MMEL, CDL, or MEL Items.** An MMEL, CDL, or MEL item may not be deferred in accordance with the operator's NEF program. The operator must follow the deferral procedures for inoperative, damaged, or missing items listed in the MMEL, MEL, or CDL, as per § 91.213(a)(5).
- 11.9.4 Subcomponents of MMEL, CDL, or MEL Items.** If the inoperative, damaged, or missing item is a subcomponent of, and supports the primary function of, a system identified in the MMEL/MEL/CDL, where no previous relief was authorized, the subcomponent may not be deferred in accordance with the operator's NEF program.
- 11.9.5 Required by Certification or Operational Rules.** If the item is required by any applicable certification or operational rules, the item may not be deferred in accordance with the operator's NEF program.
- 11.9.6 Safety-of-Flight Issues.** If it is evident from a maintenance or operational perspective that an item could have an adverse effect on safety of flight; or if there is a safety of flight issue with an inoperative, damaged, or missing item, that item may not be deferred.
- 11.9.7 Source (Underlying Cause).** If the presence of a safety-of-flight issue is unknown, not present, or not applicable, ascertain whether the source (underlying cause) for the inoperative, damaged, or missing item can be identified and further evaluated. If the source (underlying cause):

- 11.9.7.1** Cannot be identified, that item may not be deferred in accordance with the operator's NEF program and must be repaired prior to flight.
- 11.9.7.2** Can be identified, determine whether that source (underlying cause) affects an equivalent level of safety (ELOS). If the source (underlying cause) is not applicable, evaluate the effect of the item on an ELOS.
- 11.9.8** Effects on ELOS. If the item has no impact on safety of flight, that item may be deferred in accordance with the operator's NEF program.
- 11.9.9** Isolated with Applicable Maintenance Procedures. If the item can be isolated and reevaluated using applicable maintenance procedures and a determination made that there is no safety of flight concern, it may be deferred in accordance with the operator's NEF program.
- 11.9.10** Defer in Accordance with the Operator's NEF Program.
- 11.9.11** Update the NEF Item List, as Required.

Figure 11-2. NEF Item Selection Criteria Elements Flowchart





## CHAPTER 12. CONFIGURATION DEVIATION LIST (CDL)

- 12.1 Purpose of the CDL.** The CDL is a list of externally exposed nonstructural aircraft parts that may be missing and is tailored for each model aircraft. The CDL evolved over several years from what was commonly known as a “missing parts list,” which was a list of nonstructural external parts of an aircraft that were found missing after flight. The missing parts list is known today as the CDL. A CDL allows continued operation with missing externally exposed nonstructural parts by defining restrictions, limitations, or performance penalties, while the aircraft remains airworthy.
- 12.2 Development.** The aircraft manufacturer develops a CDL during the initial certification process. This is not a requirement for aircraft certification. The manufacturer makes the decision to develop or not to develop a CDL. The responsible Aircraft Certification Service office has final approval of all FAA-approved CDLs and all requests for revisions to an FAA-approved CDL.
- 12.2.1 Which Aircraft Has a CDL.** A CDL is developed for most U.S.-built transport category 14 CFR part [25](#) aircraft and many part [23](#) aircraft by aircraft manufacturers during the initial certification process. However, they are not a required element for aircraft certification. The manufacturer makes the decision to develop or not to develop a CDL. If deemed necessary, the aircraft manufacturer develops a proposed CDL and coordinates submission with the responsible Aircraft Certification Service office and the AED. The responsible Aircraft Certification Service office and the AED review, evaluate, and may conduct or oversee any required testing and data collection necessary to approve proposed CDL items. Approval of a CDL is by the responsible Aircraft Certification Service office or through an OEM Organization Designation Authorization (ODA) program.
- 12.2.2 U.S.-Manufactured Aircraft.** For U.S.-manufactured aircraft, an FAA-approved CDL is either:
- Incorporated into the limitations section of the AFM,
  - Published as an appendix to the AFM, or
  - Published as a supplement to the AFM.
- 12.2.3 Aircraft Manufactured Outside the United States.** The CDL may be a standalone document that is part of the SRM or another manufacturer’s document.
- 12.3 CDL Versus MEL.** An MEL and a CDL are separate documents. An MEL is approved by the responsible Flight Standards office. A CDL is approved by the responsible Aircraft Certification Service office, or through an OEM’s ODA program. An MEL and a CDL may be kept in the same binder but will be clearly partitioned as two separate “standalone” documents. If an operator desires an amendment to the CDL, the request should be made to the responsible Aircraft Certification Service office, or directly to the aircraft manufacturer.

**12.4 CDL Management Program.** Operators will ensure they comply with all penalties, limitations, and restrictions associated with a CDL. An operator may develop procedures more restrictive than the CDL. An operator is not required to have a CDL management program. If an operator chooses to develop a CDL management program, they are not required to submit it to the FAA, and the FAA is not required to review it.

### Advisory Circular Feedback Form

If you find an error in this AC, have recommendations for improving it, or have suggestions for new items/subjects to be added, you may let us know by contacting the General Aviation and Commercial Division at 9-AFS-800-Correspondence@faa.gov or the Flight Standards Directives Management Officer at 9-AWA-AFB-120-Directives@faa.gov.

Subject: AC 91-67A, Minimum Equipment Requirements for General Aviation Operations Under 14 CFR Part 91, § 91.213

Date: \_\_\_\_\_

*Please check all appropriate line items:*

An error (procedural or typographical) has been noted in paragraph \_\_\_\_\_ on page \_\_\_\_\_.

Recommend paragraph \_\_\_\_\_ on page \_\_\_\_\_ be changed as follows:

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In a future change to this AC, please cover the following subject:  
(Briefly describe what you want added.)

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Other comments:

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I would like to discuss the above. Please contact me.

Submitted by: \_\_\_\_\_

Date: \_\_\_\_\_