

DEPARTMENT OF TRANSPORTATION  
FEDERAL AVIATION ADMINISTRATION  
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M A S T E R   M I N I M U M   E Q U I P M E N T   L I S T

BELL HELICOPTER  
214ST

DEPARTMENT OF TRANSPORTATION  
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Log of Revisions

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|---------|------------|---------------------------------|----------|
| 1       | 07/22/1985 | Complete revision               |          |
| 2       | 08/18/1989 | ALL PAGES                       |          |
| 2a      | 04/19/1991 | HIGHLIGHTS OF REV., DEFINITIONS |          |
| 2a      | 04/19/1991 | 23-1, 23-2                      |          |
| 2b      | 02/05/2001 | HIGHLIGHTS OF REV., DEFINITIONS |          |
| 2b      | 02/05/2001 | 21-1, 22-1, 23-1, 23-2, 24-1    |          |
| 2b      | 02/05/2001 | 25-1, 26-1, 27-1, 28-1, 30-1    |          |
| 2b      | 02/05/2001 | 31-1, 33-1, 33-2, 34-1, 34-2    |          |
| 2b      | 02/05/2001 | 35-1, 52-1, 65-1, 73-1, 77-1    |          |
| 3       | 09/23/2003 | HIGHLIGHTS OF REV., DEFINITIONS |          |
| 3       | 09/23/2003 | 23-1, 28-1, 33-2, 34-1, 34-2    |          |
| 3a      | 08/02/2004 | HIGHLIGHTS OF REV., DEFINITIONS |          |
| 3a      | 08/02/2004 | 25-2                            |          |
| 4       | 03/06/2007 | HIGHLIGHTS OF REV., DEFINITIONS |          |
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## Control Page

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| Preamble                            | XIII | 2       | 06/14/1989   |
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Highlights of Change

ATA 23 item 1 Revised in accordance with Policy Letter 95.

ATA 23 item 5 Added in accordance with Policy Letter 106.

ATA 25 item 11 Added in accordance with Policy Letter 116.

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Definitions

1. System Definitions.

System numbers are based on the Air Transport Association (ATA) Specification Number 100 and items are numbered sequentially.

- a. "Item" (Column 1) means the equipment, system, component, or function listed in the "Item" column.
- b. "Number Installed" (Column 2) is the number (quantity) of items normally installed in the aircraft. This number represents the aircraft configuration considered in developing this MMEL. Should the number be a variable (e.g., passenger cabin items) a number is not required.
- c. "Number Required for Dispatch" (Column 3) is the minimum number (quantity) of items required for operation provided the conditions specified in Column 4 are met.

NOTE: Where the MMEL shows a variable number required for dispatch, the MEL must reflect the actual number required for dispatch or an alternate means of configuration control approved by the Administrator.

- d. "Remarks or Exceptions" (Column 4) in this column includes a statement either prohibiting or permitting operation with a specific number of items inoperative, provisos (conditions and limitations) for such operation, and appropriate notes.
- e. A vertical bar (change bar) in the margin indicates a change, addition or deletion in the adjacent text for the current revision of that page only. The change bar is dropped at the next revision of that page.

2. "Airplane/Rotorcraft Flight Manual" (AFM/RFM) is the document required for type certification and approved by the responsible FAA Aircraft Certification Office. The FAA approved AFM/RFM for the specific aircraft is listed on the applicable Type

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Certificate Data Sheet.

3. "As required by FAR" means that the listed item is subject to certain provisions (restrictive or permissive) expressed in the Federal Aviation Regulations operating rules. The number of items required by the FAR must be operative. When the listed item is not required by FAR it may be inoperative for time specified by repair category.

4. Each inoperative item must be placarded to inform and remind the crewmembers and maintenance personnel of the equipment condition.

NOTE: To the extent practical, placards should be located adjacent to the control or indicator for the item affected; however, unless otherwise specified, placard wording and location will be determined by the operator.

5. "-" symbol in Column 2 and/or Column 3 indicates a variable number (quantity) of the item installed.

6. "Deleted" in the remarks column after a sequence item indicates that the item was previously listed but is now required to be operative if installed in the aircraft.

7. "ER" refers to extended range operations of a two-engine airplane which has a type design approval for ER operations and complies with the provisions of Advisory Circular 120-42A.

8. "Federal Aviation Regulations" (FAR) means the applicable portions of the Federal Aviation Act and Federal Aviation Regulations.

9. "Flight Day" means a 24 hour period (from midnight to midnight) either Universal Coordinated Time (UCT) or local time, as established by the operator, during which at least one flight is initiated for the affected aircraft.

10. "Icing Conditions" means an atmospheric environment that may cause ice to form on the aircraft or in the engine(s).

11. Alphabetical symbol in Column 4 indicates a proviso (condition or limitation) that must be complied with for

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operation with the listed item inoperative.

12. "Inoperative" means a system and/or component malfunction to the extent that it does not accomplish its intended purpose and/or is not consistently functioning normally within its approved operating limit(s) or tolerance(s).

13. "Notes:" in Column 4 provides additional information for crewmember or maintenance consideration. Notes are used to identify applicable material which is intended to assist with compliance, but do not relieve the operator of the responsibility for compliance with all applicable requirements. Notes are not a part of the provisos.

14. Inoperative components of an inoperative system: Inoperative items which are components of a system which is inoperative are usually considered components directly associated with and having no other function than to support that system. (Warning/caution systems associated with the inoperative system must be operative unless relief is specifically authorized per the MMEL).

15. "(M)" symbol indicates a requirement for a specific maintenance procedure which must be accomplished prior to operation with the listed item inoperative. Normally these procedures are accomplished by 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 maintenance procedures, regardless of who performs them, is the responsibility of the operator. Appropriate procedures are required to be published as part of the operator's manual or MEL.

16. "(O)" symbol indicates a requirement for a specific operations procedure which must be accomplished in planning for and/or operating with the listed item inoperative. Normally these procedures are accomplished by the flight crew; however, other personnel may be qualified and authorized to perform certain functions. The satisfactory accomplishment of all procedures, regardless of who performs them, is the responsibility of the operator. Appropriate procedures are



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required to be published as a part of the operator's manual or MEL.

NOTE: The (M) and (O) symbols are required in the operator's MEL unless otherwise authorized by the Administrator.

17. "Deactivated" and "Secured" means that the specified component must be put into an acceptable condition for safe flight. An acceptable method of securing or deactivating will be established by the operator.

18. "Visual Flight Rules" (VFR) is as defined in FAR Part 91. This precludes a pilot from filing an Instrument Flight Rules (IFR) flight plan.

19. "Visual Meteorological Conditions" (VMC) means the atmospheric environment is such that would allow a flight to proceed under the visual flight rules applicable to the flight. This does not preclude operating under Instrument Flight Rules.

20. "Visible Moisture" means an atmospheric environment containing water in any form that can be seen in natural or artificial light; for example, clouds, fog, rain, sleet, hail, or snow.

21. "Passenger Convenience Items" means those items related to passenger convenience, comfort or entertainment such as, but not limited to, galley equipment, movie equipment, ash trays, stereo equipment, overhead reading lamps, etc.

22. Repair Intervals: All users of an MEL approved under FAR 121, 125, 129 and 135 must effect repairs of inoperative systems or components, deferred in accordance with the MEL, at or prior to the repair times established by the following letter designators:

Category A. Items in this category shall be repaired within the time interval specified in the remarks column of the operator's approved MEL.

Category B. Items in this category shall be repaired within three (3) consecutive calendar days (72 hours), excluding the day the malfunction was recorded in the aircraft maintenance

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record/logbook. For example, if it were recorded at 10 a.m. on January 26th, the three day interval would begin at midnight the 26th and end at midnight the 29th.

Category C. Items in this category shall be repaired within ten (10) consecutive calendar days (240 hours), excluding the day the malfunction was recorded in the aircraft maintenance record/logbook. For example, if it were recorded at 10 a.m. on January 26th, the 10 day interval would begin at midnight the 26th and end at midnight February 5th.

Category D. Items in this category shall be repaired within one hundred and twenty (120) consecutive calendar days (2880 hours), excluding the day the malfunction was recorded in the aircraft maintenance log and/or record.

The letter designators are inserted adjacent to Column 2.

## 23. Electronic fault alerting system - General

New generation aircraft display system fault indications to the flight crew by use of computerized display systems. Each aircraft manufacturer has incorporated individual design philosophies in determining the data that would be represented. The following are customized definitions (specific to each manufacturer) to help determine the level of messages affecting the aircraft's dispatch status. When preparing the MEL document, operators are to select the proper Definition No. 23 for their aircraft, if appropriate.

## a. BOEING (B-757/767, B-747-400, B-777)

Boeing airplanes equipped with Engine Indicating and Crew Alerting Systems (EICAS), provide different priority levels of system messages (WARNING, CAUTION, ADVISORY, STATUS and MAINTENANCE). Any messages that affects airplane dispatch status will be displayed at a STATUS message level or higher. The absence of an EICAS STATUS or higher level (WARNING, CAUTION, ADVISORY) indicates that the system/component is operating within its approved operating limits or tolerances.

System conditions that result only in a maintenance level message, i.e. no correlation with a higher level EICAS message,

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do not affect dispatch and do not require action other than as addressed within an operators standard maintenance program.

b. DOUGLAS (MD-11)

Some Douglas aircraft are equipped with an alerting function which is a subsystem within the Electronic Instrument System (EIS). The alerting function provides various levels of system condition alerts (WARNING, CAUTION, ADVISORY, MAINTENANCE and STATUS).

Alerts that affect aircraft dispatch will include WARNING, CAUTION, STATUS or MAINTENANCE level. MAINTENANCE alerts are displayed on the status page of the EIS display panel under the maintenance heading.

A MAINTENANCE alert on the EIS indicates the presence of a system fault which can be identified by the Central Fault Display System (CFDS) interrogation. The systems are designed to be fault tolerant, however, for any MAINTENANCE alert, the MEL must be verified for dispatch purposes.

c. AIRBUS (A-300-600, A-310, A-320/319/321, A-330, A-340)

Airbus aircraft equipped with Electronic Centralized Aircraft Monitoring (ECAM) provide different levels of system condition messages (WARNING, CAUTION, STATUS, and ADVISORY). A-320/319/321, A-330, and A-340 also provide MAINTENANCE status messages.

Any message that effects airplane dispatchability will normally be at the WARNING, CAUTION or STATUS level. MAINTENANCE messages (A-320/319/321, A-330, and A-340 only) are also indicated on ECAM Status Page below the white Maintenance label.

A MAINTENANCE status (Class II) message on ECAM indicates the presence of a system fault which can be identified by CFDS (A-320/319/321) or CMS (A-330/A-340) interrogation. The systems are designed to be fault tolerant, however for any MAINTENANCE status (Class II) message, the A-320/319/321 MEL must be verified for dispatch capability. For the A-330 and A-340, MAINTENANCE status messages do not affect dispatch.

d. FOKKER (FK-100)

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Fokker aircraft are equipped with Multi Function Display System (MFDS) which provides electronic message referring to the different priority levels of system information (WARNING (red), CAUTION (amber), AWARENESS (cyan) AND STATUS (white). Any messages that affects aircraft dispatch will be at the WARNING, CAUTION or AWARENESS level. In these cases the MEL must be verified for dispatch capability and maintenance may be required.

System conditions that only require maintenance are not presented on the flight deck. These maintenance indications/messages may be presented on the Maintenance & Test Panel (MAP) or the Centralized Fault Display Unit (CFDU) and by dedicated Built In Test Evaluation (BITE) of systems.

24. "Administrative control item" means an item listed by the operator in the MEL for tracking and informational purposes. It may be added to an operator's MEL by approval of the Principal Operations Inspector provided no relief is granted, or provided conditions and limitations are contained in an approved document (i.e. Structural Repair Manual, airworthiness directive, etc.). If relief other than that granted by an approved document is sought for an administrative control item, a request must be submitted to the Administrator. If the request results in review and approval by the FOEB, the item becomes an MMEL item rather than an administrative control item.

25. "\*\*\*\*" symbol in Column 1 indicates an item which is not required by regulation but which may have been installed on some models of aircraft covered by this MMEL. This item may be included on the operator's MEL after the approving office has determined that the item has been installed on one or more of the operator's aircraft. The symbol, however, shall not be carried forward into the operator's MEL. It should be noted that neither this policy nor the use of this symbol provide authority to install or remove an item from an aircraft.

26. "Excess Items" means those items that have been installed that are redundant to the requirements of the FARs.

27. "Day of Discovery" is the calendar day an equipment/instrument malfunction was recorded in the aircraft

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maintenance log and or record. This day is excluded from the calendar days or flight days specified in the MMEL for the repair of an inoperative item of equipment. This provision is applicable to all MMEL items, i.e., categories "A, B, C, and D."

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Preamble  
(Effective 6/14/89)

The following is applicable for authorized certificate holders operating under Federal Aviation Regulations (FAR) Parts 121, 125, 129, 135: The FAR require that all equipment installed on an aircraft in compliance with the Airworthiness Standards and the Operating Rules must be operative. However, the Rules also permit the publication of a Minimum Equipment List (MEL) where compliance with certain equipment requirements is not necessary in the interests of safety under all operating conditions. Experience has shown that with the various levels of redundancy designed into aircraft, operation of every system or installed component may not be necessary when the remaining operative equipment can provide an acceptable level of safety. A Master Minimum Equipment List (MMEL) is developed by the FAA, with participation by the aviation industry, to improve aircraft utilization and thereby provide more convenient and economic air transportation for the public. The FAA approved MMEL includes those items of equipment related to airworthiness and operating regulations and other items of equipment which the Administrator finds may be inoperative and yet maintain an acceptable level of safety by appropriate conditions and limitations; it does not contain obviously required items such as wings, flaps, and rudders. The MMEL is the basis for development of individual operator MELs which take into consideration the operator's particular aircraft equipment configuration and operational conditions. Operator MELs, for administrative control, may include items not contained in the MMEL; however, relief for administrative control items must be approved by the Administrator. An operator's MEL may differ in format from the MMEL, but cannot be less restrictive than the MMEL. The individual operator's MEL, when approved and authorized, permits operation of the aircraft with inoperative equipment.

Equipment not required by the operation being conducted and equipment in excess of FAR requirements are included in the MEL with appropriate conditions and limitations. The MEL must not deviate from the Aircraft Flight Manual Limitations, Emergency Procedures or with Airworthiness Directives. It is important to remember that all equipment related to the airworthiness and the operating regulations of the aircraft not listed on the MMEL must be operative.

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Preamble  
(Effective 6/14/89)

Suitable conditions and limitations in the form of placards, maintenance procedures, crew operating procedures and other restrictions as necessary are specified in the MEL to ensure that an acceptable level of safety is maintained.

The MEL is intended to permit operation with inoperative items of equipment for a period of time until repairs can be accomplished. It is important that repairs be accomplished at the earliest opportunity. In order to maintain an acceptable level of safety and reliability the MMEL establishes limitations on the duration of and conditions for operation with inoperative equipment. The MEL provides for release of the aircraft for flight with inoperative equipment. When an item of equipment is discovered to be inoperative, it is reported by making an entry in the Aircraft Maintenance Record/Logbook as prescribed by FAR. The item is then either repaired or may be deferred per the MEL or other approved means acceptable to the Administrator prior to further operation. MEL conditions and limitations, do not relieve the operator from determining that the aircraft is in condition for safe operation with items of equipment inoperative.

When these requirements are met, an Airworthiness Release, Aircraft Maintenance Record/Logbook entry, or other approved documentation is issued as prescribed by FAR. Such documentation is required prior to operation with any item of equipment inoperative.

Operators are responsible for exercising the necessary operational control to ensure that an acceptable level of safety is maintained. When operating with multiple inoperative items, the interrelationships between those items and the effect on aircraft operation and crew workload will be considered.

Operators are to establish a controlled and sound repair program including the parts, personnel, facilities, procedures, and schedules to ensure timely repair.

WHEN USING THE MEL, COMPLIANCE WITH THE STATED INTENT OF THE PREAMBLE, DEFINITIONS, AND THE CONDITIONS AND LIMITATIONS SPECIFIED IN THE MEL IS REQUIRED.

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## Guidelines for (O) &amp; (M) Procedures

The FOEB has identified a need for certain procedures to provide an adequate level of safety while providing relief for some items. Those procedures must be established by the operator. The following guidelines specify the objectives of the required procedures:

- 21-3 (M) Procedure for deactivating and securing system.
- 23-2 (O) Alternate procedure for communicating with passengers.
- 24-1 (M) Procedure for deactivating and securing generator.
- 27-2 (M) Procedure for deactivating and securing systems.
- 33-7.b) (O) Alternate procedure for passenger notification.
- 65-1 (M) Procedure for deactivating and securing system.
- 65-2 (M) Procedure for deactivating and securing system.



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21-1

| SYSTEM &<br>SEQUENCE<br>NUMBERS | ITEM                          | 1. | 2. NUMBER INSTALLED |                              | 4. REMARKS OR EXCEPTIONS   |
|---------------------------------|-------------------------------|----|---------------------|------------------------------|--|
|                                 |                               |    | 3.                  | NUMBER REQUIRED FOR DISPATCH |  |
| 21                              | AIR CONDITIONING              |    |                     |                              |  |
| 1.                              | Cockpit Vent<br>Blowers       | C  | 2                   | 0                            | May be inoperative provided:<br>a) Heated Windshields<br>(Item 30-5) are installed<br>and operative.<br>OR<br>b) Heater/Defog Control Valve<br>(Item 21-2) is operative.   |
| 2.                              | Heater/Defog<br>Control Valve | C  | 1                   | 0                            | May be inoperative provided:<br>a) Outside air temperature is<br>above +5 degrees C<br>(+41 degrees C), and<br>b) Cockpit Vent Blowers<br>(Item 21-1) are operative.<br>OR<br>a) Heated Windshields<br>(Item 30-5) are installed<br>and operative. |
| 3.                              | Air Conditioning<br>System    | C  | -                   | 0                            | (M)May be inoperative provided<br>system is deactivated and<br>secured.  |

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22-1

| SYSTEM &<br>SEQUENCE<br>NUMBERS | ITEM  | 1. | 2. NUMBER INSTALLED             |   | 4. REMARKS OR EXCEPTIONS    |
|---------------------------------|---|----|---------------------------------|---|-----------------------------|
|                                 |   |    | 3. NUMBER REQUIRED FOR DISPATCH |   |                             |
| 22                              | AUTO FLIGHT   |    |                                 |   |                             |
| 1.                              | Attitude/Altitude Retention System (AARS)                                   | C  | 1                               | 0 | May be inoperative for VFR. |
| 2.                              | Attitude/Altitude Retention System (AARS) Heading and/or Altitude Hold Mode | C  | 1                               | 0 |                             |

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| SYSTEM &<br>SEQUENCE<br>NUMBERS | ITEM                                  | 1. |   | 2. NUMBER INSTALLED |   | 3. NUMBER REQUIRED FOR DISPATCH | 4. REMARKS OR EXCEPTIONS   |
|---------------------------------|---------------------------------------|----|---|---------------------|---|---------------------------------|--|
|                                 |                                       |    |   |                     |   |                                 |  |
| 23                              | COMMUNICATIONS                        |    |   |                     |   |                                 |  |
| 1.                              | Communications Systems: (VHF and UHF) | D  | - | -                   | - |                                 | Any in excess of those required by FAR may be inoperative provided it is not powered by the Emergency AC Bus, Emergency DC Bus, Battery Bus, Battery Direct Bus, or the DC Transfer Bus and not required for emergency procedures.   |
| 2.                              | Cockpit Voice Recorder (CVR) System   | A  | 1 | 0                   | 0 |                                 | May be inoperative provided repairs are made within three flight days.   |
| 3.                              | Cabin Public *** Address System Tape  | C  | - | 0                   | 0 |                                 |  |
| 4.                              | Passenger Briefing *** Tape           | C  | - | 0                   | 0 |                                 |  |
| 5.                              | High Frequency (HF) Communication     | D  | - | -                   | - |                                 | Any in excess of those required by FAR may be inoperative.   |
|                                 |                                       | C  | - | 1                   | 1 |                                 | (O) May be inoperative while conducting operations that require two LRCS provided:<br>a) Satcom Voice or Data Link operates normally,<br>b) Alternate procedures are established and used,<br>c) Satcom coverage is available over the intended route of flight, and<br>d) If Inmarsat coeds are not available while using SATCOM voice, prior coordination with the appropriate ATS facility is required. |

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23-2

| SYSTEM &<br>SEQUENCE<br>NUMBERS | ITEM           | 1. | 2. NUMBER INSTALLED | 3. NUMBER REQUIRED FOR DISPATCH | 4. REMARKS OR EXCEPTIONS   |
|---------------------------------|----------------|----|---------------------|---------------------------------|--|
| 23                              | COMMUNICATIONS |    |                     |                                 | NOTE: SATCOM is to be used only as a backup to normal HF communications unless otherwise authorized by the appropriate ATS facilities. |

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24-1

| SYSTEM &<br>SEQUENCE<br>NUMBERS | ITEM             | 1. | 2. NUMBER INSTALLED |                                 | 4. REMARKS OR EXCEPTIONS   |
|---------------------------------|------------------|----|---------------------|---------------------------------|--|
|                                 |                  |    |                     | 3. NUMBER REQUIRED FOR DISPATCH |  |
| 24                              | ELECTRICAL POWER |    |                     |                                 |  |
| 1.                              | Generators       | B  | 2                   | 1                               | (M)One may be inoperative provided:<br>a) For day VFR, and<br>b) Generator is deactivated and secured. |
| 2.                              | Inverters        | B  | 2                   | 1                               | One may be inoperative for day VFR.  |

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25-1

| SYSTEM & SEQUENCE NUMBERS | ITEM                          | 1. | 2. NUMBER INSTALLED | 3. NUMBER REQUIRED FOR DISPATCH | 4. REMARKS OR EXCEPTIONS   |
|---------------------------|-------------------------------|----|---------------------|---------------------------------|--|
| 25                        | EQUIPMENT/FURNISHINGS         |    |                     |                                 |  |
| 1.                        | Helicopter Flotation Devices  | C  | - 0                 | 0                               | As required by FAR.  |
| 2.                        | Passenger Seat Belts          | C  | - 0                 | 0                               | One for each occupied seat. If belt is inoperative or missing, seat must be blocked & placarded.   |
| 3.                        | Crewmember Shoulder Harness   | B  | - 0                 | 0                               | If a harness becomes inoperative, aircraft shall not depart airport where repairs or replacements can be made.   |
| 4.                        | Cargo Suspension System       | C  | - 0                 | 0                               |  |
| 5.                        | Hoist System                  | C  | - 0                 | 0                               |  |
| 6.                        | ELT                           | C  | - 0                 | 0                               |  |
| 7.                        | EMS Equipment                 | C  | - 0                 | 0                               | May be inoperative provided system is deactivated and secured. (M) and (O) procedures may be required and included in the air carrier's appropriate document.  |
| 8.                        | Passenger Convenience Item(s) |    | - 0                 | 0                               | Passenger convenience items, as expressed in this MMEL are those related to passenger convenience, comfort or entertainment such as, but not limited to, galley equipment, movie equipment, ash trays, stereo equipment, overhead reading lamps, etc. Items addressed elsewhere in this document shall not be included. (M) and (O) procedures may be required and included in the air carrier's appropriate document. |

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| SYSTEM & SEQUENCE NUMBERS | ITEM   | 1. | 2. NUMBER INSTALLED | 3. NUMBER REQUIRED FOR DISPATCH | 4. REMARKS OR EXCEPTIONS  |
|---------------------------|--|----|---------------------|---------------------------------|---|
| 25                        | EQUIPMENT/FURNISHINGS  |    |                     |                                 |   |
| 9.<br>***                 | Fuselage Mounted Passenger Steps<br>(With or Without Emergency Floats Installed) | C  | - 0                 | (M)                             | May be inoperative provided:<br>a) Steps are in the stowed position, and<br>b) System is deactivated and secured.   |
| 10.<br>***                | Skid Mounted Passenger Entry Steps   | C  | - 0                 | (M)                             | May be inoperative provided:<br>a) Steps are in the stowed position, and<br>b) System is deactivated and secured.   |
| 11.                       | Passenger Convenience Items<br>(Expires on November 1, 2007)                     |    | - -                 |                                 | Passenger convenience items as expressed in this MMEL, are those related to passenger convenience, comfort, or entertainment such as, but not limited to, galley equipment, movie equipment, ashtrays, stereo equipment, overhead reading lamps. Items addressed elsewhere in this document shall not be included.<br>(M) and/or (O) procedures may be required and included in the air carrier's appropriate document. |
|                           |  |    |                     |                                 | NOTE: EXTERIOR LAVATORY DOOR ASH TRAYS ARE NOT CONSIDERED CONVENIENCE ITEMS.  |

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| SYSTEM &<br>SEQUENCE<br>NUMBERS | ITEM   | 1. | 2. NUMBER INSTALLED | 3. NUMBER REQUIRED FOR DISPATCH | 4. REMARKS OR EXCEPTIONS  |
|---------------------------------|--|----|---------------------|---------------------------------|---|
| 25                              | EQUIPMENT/FURNISHINGS  |    |                     |                                 | <p>May be inoperative, damaged, or missing provided that the item(s) is deferred in accordance with the operator's NEF deferral program. The NEF program, procedures, and processes are outlined in the operators (insert name) Manual. (M) and/or (O) procedures, if required, must be available to the flight crew and included in the operator's appropriate document.</p> |
|                                 | <p>Non-Essential<br/>Equipment &amp;<br/>Furnishings (NEF)<br/><br/>(Before or after<br/>November 1, 2007)</p> |    |                     |                                 | <p>NOTE: EXTERIOR LAVATORY DOOR ASH TRAYS ARE NOT CONSIDERED NEF ITEMS.</p>   |



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| SYSTEM &<br>SEQUENCE<br>NUMBERS | ITEM   | 1. | 2. NUMBER INSTALLED             |   | 4. REMARKS OR EXCEPTIONS                             |
|---------------------------------|--|----|---------------------------------|---|--|
|                                 |  |    | 3. NUMBER REQUIRED FOR DISPATCH |   |  |
| 26                              | FIRE PROTECTION                                  |    |                                 |   |  |
| 1.                              | Baggage<br>Compartment Smoke<br>Detector Systems | C  | 2                               | 0 | May be inoperative provided<br>compartment is empty. |

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| SYSTEM &<br>SEQUENCE<br>NUMBERS | ITEM                            | 1. | 2. NUMBER INSTALLED             |   | 4. REMARKS OR EXCEPTIONS  |
|---------------------------------|---------------------------------|----|---------------------------------|---|---|
|                                 |                                 |    | 3. NUMBER REQUIRED FOR DISPATCH |   |   |
| 27                              | FLIGHT CONTROLS                 |    |                                 |   |   |
| 1.                              | Force Trim                      | C  | 1                               | 0 | May be inoperative for VFR.   |
| 2.                              | Fly By Wire<br>Elevator Systems | C  | 2                               | 0 | (M)May be inoperative provided:<br>a) For VFR in accordance<br>with RFM limitations, and<br>b) Elevator systems are<br>disabled and stowed<br>when both systems are<br>inoperative. |

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| SYSTEM &<br>SEQUENCE<br>NUMBERS | ITEM  | 1. | 2. NUMBER INSTALLED | 3. NUMBER REQUIRED FOR DISPATCH | 4. REMARKS OR EXCEPTIONS  |
|---------------------------------|---|----|---------------------|---------------------------------|---|
| 28                              | FUEL  |    |                     |                                 |   |
| 1.                              | Fuel Prime Pumps                                    |    |                     |                                 | DELETED   |
| 2.                              | Analog/Digital<br>Fuel Quantity<br>Indicator System | C  | 1                   | 0                               | Either analog or digital readout<br>may be inoperative, provided other<br>readout is operative. |

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| SYSTEM & SEQUENCE NUMBERS | ITEM                            | 1. | 2. NUMBER INSTALLED | 3. NUMBER REQUIRED FOR DISPATCH | 4. REMARKS OR EXCEPTIONS  |
|---------------------------|---------------------------------|----|---------------------|---------------------------------|---|
| 30                        | ICE AND RAIN PROTECTION         |    |                     |                                 |   |
| 1.                        | Pitot Tube Heaters              | B  | 3                   | 0                               | May be inoperative provided:<br>a) For VFR,<br>b) Ambient temperatures are above +4.5 degrees C (+40 degrees F), and<br>c) Operations are not conducted in precipitation. |
| 2.                        | Windshield Wipers               | C  | 2                   | 0                               | May be inoperative provided:<br>a) For VFR, and<br>b) Operations are not conducted in precipitation during takeoff or landing phases.                                     |
| 3.                        | Static Port Heaters             | C  | 6                   | 0                               | May be inoperative provided:<br>a) Ambient temperatures are above +4.5 degrees C (+40 degrees F), and<br>b) Operations are not conducted in precipitation.                |
| 4.                        | Engine Inlet Anti-Icing Systems | C  | 2                   | 0                               | May be inoperative provided known and forecast conditions for flight are:<br>a) Above +4.5 degrees C (+40 degrees F) ambient temperature, and<br>b) No visible moisture.  |
| 5.                        | Heated Windshields              | C  | -                   | 0                               | May be inoperative provided:<br>a) Heater/Defog System (Item 21-2) is operative.<br>OR<br>b) Both Cockpit Vent Blowers (Item 21-1) are operative.                         |

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| SYSTEM &<br>SEQUENCE<br>NUMBERS | ITEM   | 1. | 2. NUMBER INSTALLED | 3. NUMBER REQUIRED FOR DISPATCH | 4. REMARKS OR EXCEPTIONS   |
|---------------------------------|--|----|---------------------|---------------------------------|--|
| 31                              | INDICATING/RECORDING SYSTEMS   |    |                     |                                 |  |
| 1.                              | Clock Displaying Hours, Minutes, and Seconds with Sweep-Second Pointer or Digital Presentation | C  | -                   | 1                               | Operative clock must be located on the instrument panel in a position that makes it plainly visible to, and usable by, any pilot at the pilot's station. |
|                                 |  | C  | -                   | 0                               | May be inoperative for VFR provided Elapsed Timer (Item 31-3) is installed and operative.  |
| 2.                              | Engine History Recorder  | C  | 2                   | 0                               | One or both may be inoperative provided engine cycles are counted and recorded per General Electric Service Bulletin (CT7) 72-2.                         |
| 3.                              | Elapsed Timer  | C  | -                   | 0                               | May be inoperative provided Clock (Item 31-1) is operative.  |
| 4.                              | Hour Meter   | C  | -                   | 0                               |  |
| 5.                              | Aircraft/Engine Monitoring System  | C  | -                   | 0                               |  |
| 6.                              | Cockpit Voice Recorder   | B  | -                   | 0                               | May be inoperative provided Flight Data Recorder (Item 31-7) is installed and operative.   |
| 7.                              | Flight Data Recorder   | B  | -                   | 0                               | May be inoperative provided Cockpit Voice Recorder (Item 31-6) is installed and operative.   |

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| SYSTEM &<br>SEQUENCE<br>NUMBERS | ITEM                               | 1. | 2. NUMBER INSTALLED | 3. NUMBER REQUIRED FOR DISPATCH | 4. REMARKS OR EXCEPTIONS  |
|---------------------------------|------------------------------------|----|---------------------|---------------------------------|---|
| 33                              | LIGHTS                             |    |                     |                                 |   |
| 1.                              | Position Light System              | C  | 1                   | 0                               | May be inoperative for day operations.  |
| 2.                              | Anti-Collision Light System        | B  | 1                   | 0                               | May be inoperative for day operations.  |
| 3.                              | Landing Light                      | C  | 1                   | 0                               | May be inoperative provided:<br>a) Search Light (Item 33-4) is operative.<br>OR<br>b) For day operations.   |
| 4.                              | Search Light                       | C  | 1                   | 0                               |   |
| 5.                              | Cockpit Instrument Lighting System | B  | 4                   | 0                               | May be inoperative provided:<br>a) Sufficient lighting is operative to make each required instrument, control, and other device for which it is provided easily readable,<br>b) Direct rays and reflections do not impair visibility either inside or outside aircraft,<br>c) Lighting intensity can be controlled or preset to a satisfactory level for expected flight conditions, and<br>d) Lighting configuration at dispatch is acceptable to flight crew.<br>OR<br>e) For day operations. |
| 6.                              | Cabin Emergency Lights             | C  | -                   | 0                               | May be inoperative provided passenger are not carried.  |

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| SYSTEM &<br>SEQUENCE<br>NUMBERS | ITEM   | 1. | 2. NUMBER INSTALLED | 3. NUMBER REQUIRED FOR DISPATCH | 4. REMARKS OR EXCEPTIONS  |
|---------------------------------|--|----|---------------------|---------------------------------|---|
| 33                              | LIGHTS   |    |                     |                                 |   |
| 7.                              | Passenger Notice System (Fasten Seat Belt-No Smoking)  | B  | 1                   | 0                               | (O)May be inoperative provided:<br>a) Passengers are not carried.<br>OR<br>b) Alternate procedures are used for passenger notification.<br>OR<br>c) Public address system is installed and operative. |
| 8.                              | Strobe Light System                                    | C  | -                   | 0                               |   |
| 9.                              | Cabin Lighting System                                  | C  | -                   | 0                               | May be inoperative provided:<br>a) For day operations.<br>OR<br>b) Inoperative lights do not exceed fifty (50) percent of the total installed.  |
| 10.                             | Supplemental Lighting Systems                          | C  | -                   | 0                               |   |
| 11.                             | Helicopter *** Emergency Egress Lighting (HEEL) System | C  | -                   | 0                               |   |

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| SYSTEM & SEQUENCE NUMBERS |  | 1. ITEM    | 2. NUMBER INSTALLED | 3. NUMBER REQUIRED FOR DISPATCH | 4. REMARKS OR EXCEPTIONS  |
|---------------------------|--|------------|---------------------|---------------------------------|---|
| 34                        |  | NAVIGATION |                     |                                 |   |
| 1.                        | Airspeed Indicator   | B          | 2                   | 1                               | Copilot's may be inoperative for single pilot VFR, provided two pilots are not required by FAR. |
| 2.                        | Sensitive Altimeter Adjustable for Barometric Pressure               | B          | 2                   | 1                               | Copilot's may be inoperative for single pilot VFR, provided two pilots are not required by FAR. |
| 3.                        | Magnetic Direction Indicator   | B          | 2                   | 1                               | Copilot's may be inoperative for single pilot VFR, provided two pilots are not required by FAR. |
| 4.                        | Slip-Skid Indicator  | B          | 2                   | 1                               | Copilot's may be inoperative for single pilot VFR, provided two pilots are not required by FAR. |
| 5.                        | Attitude/Direction Indicator (ADI)                                   | B          | 2                   | 1                               | Copilot's may be inoperative for single pilot VFR, provided two pilots are not required by FAR. |
| 6.                        | Gyroscopic Direction Indicator (Horizontal Situation Indicator (HSI) | B          | 2                   | 1                               | Copilot's may be inoperative for single pilot VFR, provided two pilots are not required by FAR. |
| 7.                        | Vertical Speed Indicator   | B          | 2                   | 1                               | Copilot's may be inoperative for single pilot VFR, provided two pilots are not required by FAR. |
| 8.                        | Gyroscopic Rate-of-Turn Indicator                                    | B          | -                   | 0                               | May be inoperative provided Standby Attitude Indicator (Item 34-10) is installed and operative. |
| 9.                        | OAT/Free Air Temperature Indicator                                   | C          | 1                   | 0                               | May be inoperative provided approved alternate onboard OAT source is installed and operative.   |



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| SYSTEM &<br>SEQUENCE<br>NUMBERS | ITEM   | 1. |   | 2. NUMBER INSTALLED |  | 3. NUMBER REQUIRED FOR DISPATCH | 4. REMARKS OR EXCEPTIONS  |
|---------------------------------|--|----|---|---------------------|--|---------------------------------|---|
|                                 |  |    |   |                     |  |                                 |   |
| 34                              | NAVIGATION   |    |   |                     |  |                                 |   |
| 10.                             | Standby Attitude Indicator   | B  | - | 0                   |  |                                 | May be inoperative for VFR provided respective Gyroscopic Rate-of-Turn Indicator (Item 34-8) is installed and operative.  |
| 11.                             | Navigation Systems (VOR, ILS, ADF, Long Range, etc.)                 | C  | - | 0                   |  |                                 | As required by FAR.   |
| 12.                             | Air Data Computer (VNE Function)                                     | C  | 1 | 0                   |  |                                 | May be inoperative provided:<br>a) OAT Indicator (Item 34-9) is operative.<br>OR<br>b) Another approved alternate onboard source of OAT is installed and operative. |
| 13.                             | ATC Transponder  | C  | - | 0                   |  |                                 | As required by FAR.   |
| 14.                             | Weather Radar  | C  | - | 0                   |  |                                 | As required by FAR.   |
| 15.                             | Radio Altimeter  | C  | - | 0                   |  |                                 | As required by FAR.   |
| 16.                             | Flight Director  | C  | 1 | 0                   |  |                                 |   |
| 17.                             | Altitude Encoding System   | C  | - | 0                   |  |                                 |   |
| 18.                             | Marker Beacon  | C  | - | 0                   |  |                                 | May be inoperative provided approach is not predicated on its use.  |
| 19.                             | DME  | C  | - | 0                   |  |                                 | May be inoperative provided navigation is not predicated on its use.  |
| 20.                             | Traffic Alert/<br>*** Advisory Systems (i.e., TCAS, TCAD, TAS, etc.) | C  | - | 0                   |  |                                 |   |

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| SYSTEM &<br>SEQUENCE<br>NUMBERS | ITEM  | 1. | 2. NUMBER INSTALLED |                                 | 4. REMARKS OR EXCEPTIONS |
|---------------------------------|---|----|---------------------|---------------------------------|--------------------------|
|                                 |   |    |                     | 3. NUMBER REQUIRED FOR DISPATCH |                          |
| 35                              | OXYGEN  |    |                     |                                 |                          |
| 1.                              | Oxygen System and<br>Masks (Crew and<br>Passengers) | C  | -                   | 0                               | As required by FAR.      |

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| SYSTEM & SEQUENCE NUMBERS |                                     | 1. ITEM | 2. NUMBER INSTALLED | 3. NUMBER REQUIRED FOR DISPATCH | 4. REMARKS OR EXCEPTIONS  |
|---------------------------|-------------------------------------|---------|---------------------|---------------------------------|---|
| 52                        | DOORS                               |         |                     |                                 |   |
| 1.                        | Passenger/Cargo Door Warning System | C       | 1                   | 0                               | May be inoperative provided it is verified by visual check that doors are closed and latched. |

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| SYSTEM &<br>SEQUENCE<br>NUMBERS | ITEM  | 1. | 2. NUMBER INSTALLED             |   | 4. REMARKS OR EXCEPTIONS  |
|---------------------------------|---|----|---------------------------------|---|---|
|                                 |   |    | 3. NUMBER REQUIRED FOR DISPATCH |   |   |
| 65                              | ROTORS  |    |                                 |   |   |
| 1.                              | Rotor Brake System                                | C  | 1                               | 0 | (M)May be inoperative provided:<br>a) Inspection verifies that rotor disc is free, and<br>b) System is deactivated and secured. |
| 2.                              | Rotor Brake Warning Light                         | C  | 1                               | 0 | (M)May be inoperative provided:<br>a) Inspection verifies that rotor disc is free, and<br>b) System is deactivated and secured. |
| 3.                              | Inflight Tracking System                          | C  | 1                               | 0 |   |
| 4.                              | Transmission Oil Temperature Warning Light System | C  | 1                               | 0 |   |
| 5.                              | Transmission Oil Pressure Warning Light System    | C  | 1                               | 0 |   |

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| SYSTEM & SEQUENCE NUMBERS |                               | 1. ITEM | 2. NUMBER INSTALLED | 3. NUMBER REQUIRED FOR DISPATCH | 4. REMARKS OR EXCEPTIONS  |
|---------------------------|-------------------------------|---------|---------------------|---------------------------------|---|
| 73                        | ENGINE FUEL AND CONTROL       |         |                     |                                 |   |
| 1.                        | Electronic Control Unit (ECU) | B       | 2                   | 1                               | One may be inoperative provided:<br>a) passenger are not carried,<br>and<br>b) Aircraft shall not depart airport where repairs or replacements can be made. |

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| SYSTEM &<br>SEQUENCE<br>NUMBERS | ITEM                        | 1. | 2. NUMBER INSTALLED             |   | 4. REMARKS OR EXCEPTIONS   |
|---------------------------------|-----------------------------|----|---------------------------------|---|--|
|                                 |                             |    |                                 |   |  |
|                                 |                             |    | 3. NUMBER REQUIRED FOR DISPATCH |   |  |
| 77                              | ENGINE INDICATING           |    |                                 |   |  |
| 1.                              | Triple Tachometer Indicator | C  | 2                               | 1 | One may be inoperative provided operative indicator is at the station of pilot manipulating flight controls.                   |
| 2.                              | Engine Trim Panel           | C  | 1                               | 0 | May be inoperative provided both engine RPMs are between 99 percent and 100 percent, and torque matching is within RFM limits. |
| 3.                              | Air Data Computer           | C  | 1                               | 0 |  |
| 4.                              | Engine-Out Warning System   | C  | 2                               | 1 | One may be inoperative provided Air Data Computer (VNE function) (item 34-12) is operative.                                    |
| 5.                              | Dual Torque Indicator       | C  | 2                               | 1 | One may be inoperative provided operative indicator is at the station of pilot manipulating flight controls.                   |
| 6.                              | Fuel Flow Indicator System  | B  | -                               | 0 |  |