

**Revision: 7**  
**Date: 05/29/2007**

**DEPARTMENT OF TRANSPORTATION**  
**FEDERAL AVIATION ADMINISTRATION**  
**WASHINGTON, D.C.**

**MASTER MINIMUM EQUIPMENT LIST**

**DORNIER 228-100/101/200/201/202/212**

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**(FOEB)**

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DEPARTMENT OF TRANSPORTATION  
 MASTER MINIMUM EQUIPMENT LIST

FEDERAL AVIATION ADMINISTRATION

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 -100/101/200/201/202/212

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HIGHLIGHTS OF CHANGE		

Definitions	Updated in accordance with (IAW) Policy Letter (PL) 25, Global Change 142.
Guidelines [(O) & (M)]	Updated IAW applicable Policy Letters.
ATA 22-1	Autopilot relief title changed to comply with PL-101 (GC-103).
ATA 22-3	Autopilot Disconnect relief updated to comply with PL-93.
ATA 23-1	Communication System relief proviso wording changed to comply with PL-95 (GC-111).
ATA 23-3	PA System relief updated to comply with PL-09 (GC-119).
ATA 23-8	CVR relief updated to comply with PL-29 (GC-128).
ATA 23-9	Boom Microphone relief updated IAW PL-58 (GC-100).
ATA 23-11	HF Communications relief updated to comply with PL-106 (GC-135).
ATA 23-12	SELCAL relief added IAW PL-117 (GC-137).
ATA 23-13	ELT relief relocated (from Item 25-6) and updated to comply with PL-120 (GC-147).
ATA 25-3	Passenger Seat relief updated IAW PL-79 (GC-134).
ATA 25-6	Emergency Locator Beacon relocated to Item 23-13 IAW PL-120 (GC-147).
ATA 25-9	Passenger Convenience/NEF relief updated IAW PL-116 (GC-138).
ATA 25-10	Emergency Medical Equipment relief updated IAW PL-73 (GC-144).

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- ATA 25-11 Galley Waste Receptacles Access Doors/Covers relief updated IAW PL-96 (GC-98).
- ATA 25-12 "FASTEN SEAT BELT WHILE SEATED" Sign relief changed to comply with PL-89.
- ATA 25-13 Overhead Storage Bins, etc. relief updated IAW PL-104 (GC-129).
- ATA 25-14 Cargo Restraint System(s) relief changed to comply with PL-100 (GC-114).
- ATA 26-4 Lavatory Fire Extinguisher System relief updated to comply with PL-24 (GC-106).
- ATA 26-5 Lavatory Smoke Detection System relief updated to comply with PL-24 (GC-106).
- ATA 26-6 Cargo Compartment Fire Detection/Suppression System relief updated IAW PL-102 (GC-77).
- ATA 30-8 Pitot Heat Indicating System relief added to comply with PL-90.
- ATA 31-1 Clock relief updated IAW current proviso phraseology style.
- ATA 31-4 Flight Data Recorder relief updated to comply with PL-87 (GC-136).
- ATA 33-1 Cockpit Lighting relief updated to comply with PL-87 (GC-136).
- ATA 33-2-1 Passenger Notice (No Smoking) relief sub-item title numbered to comply with formatting requirement of PL-31 (GC-83).
- ATA 33-3 Third proviso deleted.
- ATA 33-6 Position Lights proviso notes added IAW PL-91.
- ATA 33-7 Wing Illumination Lights relief updated IAW PL-72 (GC-54).
- ATA 34-4 ATC Transponder relief updated to comply with PL-76 (GC-133).

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- ATA 34-11            Distance Measuring Equipment relief updated to comply with PL-76 (GC-133).
- ATA 34-14            Automatic Direction Finder relief title changed to comply with the formatting requirements of PL-31 (GC-83).
- ATA 34-15            Radio Magnetic Indicator relief title changed to comply with the formatting requirements of PL-31 (GC-83).
- ATA 34-16            Non-Stabilized Magnetic Compass relief updated to comply with PL-10.
- ATA 34-18            TCAS I relief updated IAW PL-32 (GC-145).
- ATA 34-19            TCAS II relief updated IAW PL-32 (GC-145).
- ATA 34-20            GPWS combined with TAWS and updated IAW PL-54 (GC-139).
- ATA 34-21            Flight Profile Advisory System relief revised to include repair interval and numbers in columns 2 and 3 previously missing.
- ATA 34-22            Windshear Warning and Flight Guidance System updated IAW PL-67 (GC-140).
- ATA 34-23            Windshear Detection and Avoidance System combined with Item 34-22 IAW PL-67 (GC-140).
- ATA 34-24            Navigation Databases relief updated IAW PL-98 (GC-71).
- ATA 34-25            ADS-B relief changed to comply with PL-105 (GC-86).
- ATA 34-26            Standby Attitude Indicator relief added to comply with PL-111.
- ATA 35-2            Protective Breathing Equipment relief added IAW PL-43.
- ATA 38-1            Potable Water System relief changed to comply with PL-83 (GC-108).

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- ATA 38-2            Lavatory Waste System relief updated IAW PL-83 (GC-108).
- ATA 46-1            Relief added for IFIS-5000 System.
- ATA 46-2            Electronic Flight Bag relief added.

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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 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 the time specified by repair category. The term "14 CFR" may be substituted for "FAR" in MMELs or operator MELs.

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.

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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 (ETOPS) which has a type design approval for ER operations (ETOPS) 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 (structural) or in the engine(s) (induction).
11. Alphabetical symbol in Column 4 indicates a proviso (condition or limitation) that must be complied with for 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).

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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 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.

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DEFINITIONS		

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 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.

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DEFINITIONS		

System conditions that result only in a maintenance level message, i.e. no correlation with a higher level EICAS message, do not affect dispatch and do not require action other than as addressed within an operator's standard maintenance program.

b. Boeing (B-717, MD-10, MD-11)

Deleted: )

These 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)

Deleted:

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-318/320/319/321, 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-318/320/319/321, A-330, and A-340 also provide MAINTENANCE status messages.

Any message that affects airplane dispatchability will normally be at the WARNING, CAUTION or STATUS level. MAINTENANCE messages (A-318/319/320/321, 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-318/319/320/321) or CMS (A-330/A-340) interrogation. The systems are designed to be fault tolerant. For A-318/319/320/321, MAINTENANCE STATUS (Class II) do not affect dispatch but are listed in the MMEL. Dispatch is allowed without specific conditions except for:

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Deleted: however for any MAINTENANCE status (Class II) message, the A-320/319/321 MEL must be verified for dispatch capability.

- BLUE RSVR MAINTENANCE status: If applicable, and

- AIR BLEED MAINTENANCE status: As applicable.

For the A-330 and A-340, MAINTENANCE status messages do not affect dispatch.

Deleted: d. FOKKER(FK-100) ¶

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d. FOKKER (FK-100)

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.

**Deleted:** 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. ¶  
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¶

e. CANADAIR (CL-65, CL-604)

Canadair aircraft equipped with Engine Indication and Crew Alerting Systems (EICAAS) provide four classes of messages (WARNING, CAUTION, ADVISORY, and STATUS). Any message that affects aircraft dispatch will be at the WARNING, CAUTION, or STATUS level.

System conditions that only require maintenance are not visible to the flight crew. These maintenance indications/messages are only activated by maintenance personnel using the Maintenance Diagnostics Computer.

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f. EMBRAER (EMB-135/145, ERJ-170/190 Series)

The EMB-135/145 and ERJ-170/190 are equipped with an Engine Indicating and Crew Alerting System (EICAS) that provides three different message levels: WARNING, CAUTION, and ADVISORY. The ERJ-170/190 Series add STATUS messages. Failures that effect dispatchability are presented to the flight crew at one of these levels. Other failures may be presented only to the maintenance personnel on the Multi Function Display (MFD) maintenance pages or through the download of the Central Maintenance Computer (CMC). System conditions that result only in a maintenance level message, i.e. no correlation with a higher level EICAS message, do not affect dispatch and do not require action other than as addressed within an operator's standard maintenance program.

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g. GULFSTREAM (G-IV, G-V, GV-SP, and GIV-X)

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Gulfstream airplanes equipped with EICAS provide different priority levels of system messages: WARNING (red), CAUTION (amber), ADVISORY, STATUS and MAINTENANCE (cyan or blue). Any WARNING or CAUTION message affects airplane dispatch status and requires that the Airplane Flight Manual or the MEL be used to determine dispatch capability. STATUS messages which indicate a system failure (e.g., FMS-1 fail) require that the Airplane Flight Manual or the MEL be used to determine dispatch capability. Maintenance messages do not affect airplane dispatch status. They indicate the presence of a system fault which can be identified by Maintenance Data Acquisition Unit (MDAU on the G-V) interrogation, Central Maintenance Computer (CMC on the GV-SP/GIV-X) interrogation or by reference to the Airplane Flight Manual.

h. De- HAVILLAND (DASH 8 SERIES 400)

Series 400 aircraft are equipped with a Caution/Warning Panel that annunciates all cautions and warnings. Advisory messages are displayed by the Electronic Indication System (EIS) or individual advisory lights supplied in the cockpit.

"Class 1 failures" are failures that prevent continued operation of a specific Line Replacement Unit or channel and are annunciaded via advisory messages: caution, warning or advisory lights in the flight compartment. Dispatch with such posted failures are to be in accordance with the MMEL.

"Class 2 failures" are failures which do not prevent continued system function. These faults will not be annunciaded to the flight crew and the absence of the higher level alert (warning, caution, advisory) indicates that the system/component is operating within its approved operating limits or tolerances. Such faults would be evident during maintenance interrogation performed during maintenance activities. Class 2 faults do not affect dispatch and will be listed in the Fault Isolation Manual (FIM). Class 2 faults will be left to the discretion of the operators when these faults are to be rectified.

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.

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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 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."

28. "Considered Inoperative", as used in the provisos means that item must be treated for dispatch, taxi and flight purposes as though it were inoperative. The item shall not be used or operated until the original deferred item is repaired. Additional actions include: documenting the item on the dispatch release (if applicable), placarding, and complying with all remarks, exceptions, and related MMEL provisions, including any (M) and (O) procedures and observing the repair category.

29. "Is not used" in the provisos, remarks or exceptions for an MMEL item may specify that another item relieved in the MMEL "is not used." In such cases, crewmembers should not activate, actuate, or otherwise utilize that component or system under normal operations. It is not necessary for the operators to accomplish the (M) procedures associated with the item. However, operational requirements must be complied with, and an additional placard must be affixed, to the extent practical, adjacent to the control or indicator for the item that is not used to inform crewmembers that a component or system is not to be used under normal operations.

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30. Nonessential equipment and furnishings (NEF) are those items installed on the aircraft as part of the original certification, supplemental type certificate, or engineering order that have no effect on the safe operation of flight and would not be required by the applicable certification rules or operational rules. They are those items that if inoperative, damaged or missing have no effect on the aircraft's ability to be operated safely under all operational conditions. These nonessential items may be installed in areas including, but not limited to, the passenger compartment, flight deck area, service areas, cargo areas, crew rest areas, lavatories, and galley areas. NEF items are not items already identified in the MEL or CDL of the applicable aircraft. They do not include items that are functionally required to meet the certification rule or for compliance with any operational rule. Operator's NEF process shall not provide for deferral of items within serviceable limits identified in the manufacturer's maintenance manual or operator's approved maintenance program such as wear limits, fuel/hydraulic leak rates, oil consumption, etc. Cosmetic items that are fully serviceable but worn or soiled may be deferred under an operator's NEF process.

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PREAMBLE (06/14/1989)		

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.

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.

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PREAMBLE (06/14/1989)		

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) & (M) Procedures		

The FOEB has identified a need for certain procedures to provide an adequate level of safety while providing relief for the following items. These procedures must be established by the operator. The following guidelines are to help establish these required procedures:

21-1	(M)	Maintenance procedure to ensure the Ram Air System is operative and the Pressure Reducing/Shutoff Valve is in the CLOSED position.
21-4	(M)	Maintenance procedure to ensure the Ram Air System is operative and the Pressure Reducing/Shutoff Valve is in the CLOSED position.
21-8	(M)	Maintenance procedure to secure Butterfly Valve in the Cockpit Distributor Duct in the OPEN position.
21-12	(M)	Maintenance procedure to ensure the Bleed Air Shutoff Valve is in the CLOSED position and the Ram Air System is operative.
22-1	(M)	Maintenance procedure to ensure Servos do not cause binding of the Control Cables.
22-2	(M)	Maintenance procedure to ensure Servos do not cause binding of the Control Cables.
23-2	(O)	Operations procedure to provide normal and emergency operations for the inoperative Intercom.
23-3-1	(O)	Operations procedure to specify how passengers will be briefed and to operate within MMEL restrictions.
23-4	(O)	Operations procedure to provide normal and emergency operations for the inoperative Intercom.
23-10	(O)	Operations procedure to brief passengers via the Passenger Address System or other alternate means.
23-11	(O)	Operations procedure to determine SATCOM Datalink operates normally over the intended route of flight.

23-12	(O)	Operations procedure to ensure alternate procedures are established and used.
23-12-1	(O)	Operations procedure to ensure alternate procedures are established and used.
24-6	(M)	Maintenance procedure to pull and BAND External Power Circuit Breaker.
25-1-1	(M)	Maintenance procedure to ensure the Locking Pins are engaged.
25-1-2	(M)	Maintenance procedure to ensure the Locking Pins are engaged.
25-3-2	(O)	Operations procedure to alert crew of inoperative Restraining Bar.
25-10-1	(O)	Operations procedure to ensure Automatic External Defibrillator is resealed in a manner that will identify it as a Unit that cannot be mistaken for a fully serviceable Unit.
25-10-2	(O)	Operations procedure to ensure Emergency Medical Kit is resealed in a manner that will identify it as a Unit that cannot be mistaken for a fully serviceable Unit.
25-10-3	(O)	Operations procedure to ensure First Aid Kit is resealed in a manner that will identify it as a Unit that cannot be mistaken for a fully serviceable Unit.
25-11	(M)	Maintenance procedure to ensure Container is empty and the Access Cover is SECURED.
	(O)	Operations procedure to ensure sufficient Waste Receptacles are available to accommodate all waste generated on the flight.
25-13	(M)	Maintenance procedure to ensure affected Compartment is CLOSED.
25-14	(M)	Maintenance procedure to ensure Cargo Compartment is empty and secured CLOSED.
26-4	(M)	Maintenance procedure to ensure Lavatory Waste Receptacles are empty and the Door is locked CLOSED and placarded.
	(O)	Operations procedure to ensure only crewmembers use the Lavatory.

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Guidelines for (O) & (M) Procedures		

26-5	(M)	Maintenance procedure to ensure Lavatory Waste Receptacles are empty and the Door is locked CLOSED and placarded.
	(O)	Operations procedure to ensure only crewmembers use the Lavatory.
27-4	(O)	Operations procedure to ensure flight is conducted in accordance with "No Flap" performance restrictions.
28-1	(O)	Operations procedure to ensure a reliable means is used to determine accurate fuel quantity (i.e. sticking the tank or emptying the tank and refueling, using the fuel unloaded as the known quantity).
28-5	(M)	Operations procedure to secure Valve in the CLOSED position.
30-7	(M)	Maintenance procedure to ensure the Engine Inlet Anti-Ice Valves are in the CLOSED position and the aircraft limitations are adhered to.
31-2	(O)	Operations procedure to record elapsed flight time.
31-3	(O)	Operations procedure to record elapsed Engine operation time.
32-1	(M)	Maintenance procedure to ensure Nose Wheel is in the free castor mode.
	(O)	Operations procedure to ensure AFM procedures for operation in the free castor mode are adhered to.
33-7	(O)	Operations procedure to ensure ground deicing procedures do not require use of the Wing Illumination Lights.
33-12	(O)	Operations procedure to ensure Warning Horn is operative.
34-13	(O)	Operations procedure to ensure enroute operations do not require its use.

34-16	(O)	Operations procedure to ensure any combination of three Gyro or INS (IRU) Stabilized Compass Systems are operative.
	(O)	Operations procedure to ensure any combination of two Gyro or INS (IRU) Stabilized Compass Systems operate normally and the airplane is operated with Dual Independent Navigation Capability and under Positive Radar Control by ATC on the enroute portion of the flight.
	(O)	Operations procedure to ensure flight(s) are entirely within areas of magnetic unreliability provided at least two Stabilized Directional Gyro Systems are installed, operate normally and used in conjunction with approved Free Gyro Navigation Techniques.
34-17	(O)	Operations procedure for flight crew to reset Directional Indicator to correct for precession.
34-18	(M)	Maintenance procedure to deactivate and secure the System.
	(M)	Maintenance procedure to deactivate and secure the System.
34-19	(M)	Maintenance procedure to deactivate and secure the System.
	(M)	Maintenance procedure to deactivate and secure the System.
34-19-2	(O)	Operations procedure to ensure TA ONLY mode is selected and all TA functions/elements are operative.
34-19-3	(O)	Operations procedure to ensure all RA display/functions are operative.
34-20-A-1	(O)	Operations procedure to establish and use alternate procedures.
34-20-A-1-a	(O)	Operations procedure to establish and use alternate procedures.
34-20-A-1-d	(O)	Operations procedure to establish and use alternate procedures.
	(O)	Operations procedure to establish and use alternate procedures and ensure advisory callouts are not required by FAR.

34-20-A-1-e	(O)	Operations procedure to establish and use alternate procedures.
	(O)	Operations procedure to establish and use alternate procedures and ensure Windshear Detection and Avoidance System operates normally.
34-20-A-2	(O)	Operations procedure to establish and use alternate procedures.
34-20-B-1	(O)	Operations procedure to establish and use alternate procedures.
34-20-B-1-a	(O)	Operations procedure to establish and use alternate procedures.
34-20-B-1-d	(O)	Operations procedure to establish and use alternate procedures.
	(O)	Operations procedure to establish and use alternate procedures and ensure advisory callouts are not required by FAR.
34-20-B-1-e	(O)	Operations procedure to establish and use alternate procedures.
34-20-C-1	(O)	Operations procedure to establish and use alternate procedures.
34-22-1	(O)	Operations procedure to establish and use alternate procedures.
	(O)	Operations procedure to establish and use alternate procedures and ensure Windshear Detection and Avoidance System operates normally.
34-22-2	(O)	Operations procedure to establish and use alternate procedures.
	(O)	Operations procedure to establish and use alternate procedures and ensure Windshear Warning and Flight Guidance System operates normally.
34-22-3	(O)	Operations procedure to establish and use alternate procedures.
34-22-4	(O)	Operations procedure to establish and use alternate procedures.
34-24-A-1	(O)	Operations procedure to ensure current Aeronautical Charts are used to verify Navigation Fixes prior to dispatch, procedures are established and used to verify status suitability of Navigation Facilities used to define route of flight and Approach Navigation Radios are manually tuned and identified.

34-24-B-1	(O)	Operations procedure to ensure current Aeronautical Charts are used to verify Navigation Fixes prior to dispatch, procedures are established and used to verify status suitability of Navigation Facilities used to define route of flight and Approach Navigation Radios are manually tuned and identified.
		Cargo Only-Single Pilot Only
34-4	(O)	Operations procedure to manually reset Heading Indicator to correct precession.
38-1	(M)	Maintenance procedure to ensure associated components are deactivated or isolated and are verified not to have leaks.
	(M)	Maintenance procedure to ensure System is drained and not serviced.
38-2	(M)	Maintenance procedure to verify there are no leaks and to deactivate or isolate affected System Components.
	(M)	Maintenance procedure to drain System and to ensure System is not reserviced.
46-1-1	(O)	Operations procedure to ensure alternate procedures are established and used and all information from an alternate source associated with the flight is in accordance with an operational approval for use of the Electronic Flight Bag (EFB).
46-1-2	(O)	Operations procedure to ensure alternate procedures are established and used and all information from an alternate source associated with the flight is in accordance with an operational approval for use of the Electronic Flight Bag (EFB).
46-1-3	(O)	Operations procedure to establish and use alternate procedures for inoperative ACARS and Universal WX.
46-1-4	(O)	Operations procedure to establish and use alternate procedures for inoperative ACARS and Universal WX.

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52-2	(O)	Operations procedure to visually inspect other Door Handle to ensure it is operative and the Door is properly secured in the CLOSED position prior to each takeoff.
56-1	(M)	Maintenance procedure to ensure the Windshield Deicing System is operative, the Window is secured in the CLOSED position and the copilot's visibility is not restricted.
77-1	(O)	Operations procedure to assure the flight crews recognize the inoperative status of the ITT/Torque Limiter and manually set the ITT and torque.

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SYSTEM SEQUENCE & NUMBERS	1. REPAIR CATEGORY			
	2. NUMBER INSTALLED			
	3. NUMBER REQUIRED FOR DISPATCH			
	4. REMARKS AND EXCEPTIONS			
21 AIR CONDITIONING				
1. Heating System	C	1	0	(M) May be inoperative provided: a) Pressure Reducing and Shutoff Valve is in the CLOSED position and b) Ram Air System is operative.
2. Heater Ventilating Fan	C	1	0	May be inoperative provided Ram Air System is operative.
3. Electrical Cabin/Cockpit Heaters	C	4	0	
4. Air Conditioning (Air Cycle)	C	1	0	(M) May be inoperative provided: a) Pressure Reducing and Shutoff Valve is in the CLOSED position and b) Ram Air System is operative.
5. Temperature Mode Control (Automatic)	C	1	0	May be inoperative provided Manual Mode is operative.
6. Temperature Mode Control (Manual)	C	1	0	May be inoperative provided Auto Mode is operative.
7. Individual Air Vents	C	-	-	
8. Windshield Demisting	C	1	0	(M) May be inoperative provided Butterfly Valve in the Cockpit Distributor Duct is secured OPEN.
9. Cabin Temp Caution	C	1	0	May be inoperative provided: a) Pressure Reducing and Shutoff Valve is in CLOSED position, b) Ventilating Fans are operative and c) Ram Air System is operative.

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SYSTEM SEQUENCE & NUMBERS	1. REPAIR CATEGORY			
	2. NUMBER INSTALLED			
	3. NUMBER REQUIRED FOR DISPATCH			
	4. REMARKS AND EXCEPTIONS			
21 AIR CONDITIONING				
10. Avionics Pedestal Fan	C	1	0	(M) May be inoperative provided: a) Inoperative Valve is in the CLOSED position, b) Aircraft is not operated in known or forecast icing conditions and c) Ram Air System is operative.
11. Radio Rack Fan	C	1	0	
12. Bleed Air Shutoff	C	2	0	
13. Air Conditioner (Freon) ***	C	1	0	

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SYSTEM SEQUENCE & NUMBERS	1. REPAIR CATEGORY			
	2. NUMBER INSTALLED			
	3. NUMBER REQUIRED FOR DISPATCH			
	4. REMARKS AND EXCEPTIONS			
22 AUTO FLIGHT				
1. Autopilot Systems	C	-	0	(M) May be inoperative provided operations do not require its use.
2. Yaw Damper	C	1	0	(M) As required by FAR.
3. Autopilot Disconnect Functions (Quick Release Controls)	C	2	1	One may be inoperative provided: a) Autopilot is not used below 1,500 feet AGL and b) Approach minimums do not require the use of the Autopilot.
	B	2	0	May be inoperative provided Autopilot is not used.

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SYSTEM SEQUENCE & NUMBERS	1. REPAIR CATEGORY			
	2. NUMBER INSTALLED			
	3. NUMBER REQUIRED FOR DISPATCH			
	4. REMARKS AND 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 aircraft Emergency Power Systems and not required for emergency procedures.
2. Audio Amplifier	C	2	0	(O) May be inoperative provided: a) Two operative Headsets are available to the flight crew and b) System 1 must be operative for single pilot operation.
3. Passenger Address System (PA)				
1) Passenger Configuration	C	1	0	(O) May be inoperative provided: a) PA not required by FAR and b) Alternate, normal and emergency procedures, and/or operating restrictions are established and used.  NOTE: Any station function(s) that operate normally may be used.
2) Cargo Configuration	D	1	0	May be inoperative provided procedures do not require its use.
4. Audio Selector and Intercom Unit	C	2	1	(O) Right side may be inoperative provided: a) Two operative Headsets are available to the flight crew and b) System 1 must be operative for single pilot operation.
5. Cockpit Speaker	C	1	0	May be inoperative provided two operative Headsets are available to the flight crew.

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SYSTEM SEQUENCE & NUMBERS	1. REPAIR CATEGORY			
	2. NUMBER INSTALLED			
	3. NUMBER REQUIRED FOR DISPATCH			
	4. REMARKS AND EXCEPTIONS			
23 COMMUNICATIONS				
6. Avionics Master Switch	C	1	0	May be inoperative provided: a) Avionics Master Circuit Breaker is pulled and b) Avionics Master Switch is in the ON position.
7. Ground Clearance Switch	C	1	0	
8. Cockpit Voice Recorder (CVR)				
1) With Flight Data Recorder (FDR) Installed	A	1	0	May be inoperative provided: a) Flight Data Recorder (FDR) operates normally and b) Repairs are made within three flight days.
2) Without Flight Data Recorder (FDR) Installed	A	1	0	May be inoperative provided repairs are made within three flight days.
3) For Operators Other Than Air Carriers and Commercial Operators	A	1	0	May be inoperative provided repairs are made in accordance with applicable FARs.
9. Boom Microphones				
COCKPIT VOICE RECORDER (CVR) WITH FLIGHT DATA RECORDER INSTALLED				
1) Cockpit Voice Recorder Equipped to Record Boom Microphone per FAR 121.359(g), 135.151(d) or 125.227(e)	A	-	0	May be inoperative provided: a) Flight Data Recorder (FDR) operates normally and b) Repairs are made within three flight days.
				(continued)

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SYSTEM SEQUENCE & NUMBERS	1. REPAIR CATEGORY			
	2. NUMBER INSTALLED			
	3. NUMBER REQUIRED FOR DISPATCH			
	4. REMARKS AND EXCEPTIONS			
23 COMMUNICATIONS				
9. Boom Microphones (Continued)				
COCKPIT VOICE RECORDER (CVR) WITH FLIGHT DATA RECORDER INSTALLED (Continued)				
2) Cockpit Voice Recorder *** Not Equipped to Record Boom Microphone	D	-	0	Any in excess of those required by FAR may be inoperative.
COCKPIT VOICE RECORDER (CVR) WITHOUT FLIGHT DATA RECORDER INSTALLED				
1) Cockpit Voice Recorder Equipped to Record Boom Microphone per FAR 121.359(g) 135.151(d) or 125.227(e)	A	-	0	May be inoperative provided repairs are made within three flight days.
2) Cockpit Voice Recorder *** Not Equipped to Record Boom Microphone	D	-	0	Any in excess of those required by FAR may be inoperative.
10. Recorded Passenger *** Address System	C	-	0	(O) May be inoperative provided alternate procedures are established and used.

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	2. NUMBER INSTALLED			
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	4. REMARKS AND EXCEPTIONS			
23 COMMUNICATIONS				
11. High Frequency (HF) Communication System	D	-	-	Any in excess of those required by FAR may be inoperative.
	C	-	1	(O) May be inoperative while conducting operations that require two LRCS provided: a) SATCOM Voice or Data Link operates normally, b) Alternate procedures are established and used, c) SATCOM coverage is available over the intended route of flight and d) If INMARSAT codes are not available while using SATCOM Voice prior coordination with the appropriate ATS facility is required.  NOTE: SATCOM is to be used only as a backup to normal HF communications unless otherwise authorized by the appropriate ATS facilities.
12. Selective Call Systems (SELCAL)	C	-	0	(O) May be inoperative provided alternate procedures are established and used.
	D	-	0	May be inoperative provided procedures do not require its use.
1) Channels	C	-	0	(O) May be inoperative provided alternate procedures are established and use.
	D	-	0	May be inoperative provided procedures do not require its use.

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	2. NUMBER INSTALLED			
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	4. REMARKS AND EXCEPTIONS			
23 COMMUNICATIONS				
13. Emergency Locator *** Transmitter (ELT)				
1) Survival Type ELTs	D	-	-	Any in excess of those required by FAR may be inoperative or missing.
2) Fixed ELTs	A	-	0	May be inoperative or missing provided repairs are made within 90 days.
	D	-	-	Any in excess of those required by FAR may be inoperative or missing.

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	2. NUMBER INSTALLED			
	3. NUMBER REQUIRED FOR DISPATCH			
	4. REMARKS AND EXCEPTIONS			
24 ELECTRICAL POWER				
1. Inverter	B	2	1	One may be inoperative for day VMC.
2. A. C. Voltmeter	B	2	1	One may be inoperative for day VMC provided associated Inverter Caution Light is monitored.
3. D. C. Voltmeter	B	1	0	May be inoperative provided: a) Both D. C. Ammeters and both Generator Caution Lights are operative and b) Aircraft Battery Engine start is not made.
4. D. C. Ammeter	B	2	1	One may be inoperative provided: a) D. C. Voltmeter and Generator Caution Lights are operative and monitored and b) The first Engine start is made on the side of the operative Ammeter to determine proper Battery condition prior to second Engine start.
5. Generator Caution Lights	B	2	1	One may be inoperative provided: a) Both Ammeters are operative, monitored and b) D. C. Voltmeter is operative.
6. Ground Power Receptacle	C	1	0	(M) May be inoperative provided the External Power Socket Circuit Breaker, 2PD, is pulled and BANDED.

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	2. NUMBER INSTALLED			
	3. NUMBER REQUIRED FOR DISPATCH			
	4. REMARKS AND EXCEPTIONS			
25 EQUIPMENT/ FURNISHINGS				
1. Crewmember Seats				
1) Seat Pan Height Adjustment Lever	C	2	0	(M) May be inoperative provided: a) The crewmember can manipulate all Flight Controls through their full travel and b) All Locking Pins are visually inspected to determine that they are fully engaged.
2) Track Lock Control Lever	C	2	0	(M) May be inoperative provided: a) The crewmember can manipulate all Flight Controls through their full travel and b) All Locking Pins are visually inspected to determine that they are fully engaged.
2. Cockpit Crewmember Shoulder Harness	B	2	1	Right Seat Shoulder Harness may be inoperative for single pilot operations. Right side Pilot Seat must be unoccupied.
3. Passengers Seat(s)	C	-	-	May be inoperative provided: a) Seat does not block an Emergency Exit, b) Seat does not restrict any passenger from access to the main aircraft Aisle and c) The affected Seat(s) are blocked and placarded "DO NOT OCCUPY".  NOTE 1: A Seat with an inoperative Seat Belt or Shoulder Harness is considered to be inoperative.
(continued)				

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	4. REMARKS AND EXCEPTIONS			
25 EQUIPMENT/ FURNISHINGS				
3. Passengers Seat(s) (Continued)				NOTE 2: Affected Seat(s) may include the Seat(s) behind and/or adjacent outboard Seats.
1) Recline Mechanism	C	-	-	May be inoperative and Seat occupied provided Seat is secured in the full UPRIGHT position.
2) Underseat Baggage Restraining Bars	C	-	-	(O) May be inoperative provided: a) Baggage is not stowed under Seat with inoperative Restraining Bar, b) Associated Seat is placarded "DO NOT STOW BAGGAGE UNDER THIS SEAT" and c) Procedures are established to alert Cabin Crew of inoperative Restraining Bar.
3) Armrest	C	-	-	May be inoperative or missing and Seat occupied provided: a) Armrest does not block an Emergency Exit, b) Armrest does not restrict any passenger from access to the main aircraft Aisle and c) For an Armrest with a Recline Mechanism, Seat is secured in the UPRIGHT position.
4. Passenger Seat Trays	C	-	-	May be inoperative provided they are secured in the UPRIGHT position or removed.

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25 EQUIPMENT/ FURNISHINGS			
5. Passenger Seat Ashtray			DELETED, REVISION 6. SEE ITEM 25-9, PASSENGER CONVENIENCE/NEF ITEMS.
6. Emergency Locator Beacon			RELOCATED TO ITEM 23-13, REVISION 7.
7. Cargo Net			REVISED, REVISION 6b. SEE ITEM 25- 14, CARGO RESTRAINT SYSTEMS.
8. Approved Flotation Device	C	-	- As required by FAR.
9. Passenger Convenience/ NEF Items			
1) Passenger Convenience *** Items (Expires on December 31, 2007)		-	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, ashtrays, stereo equipment, overhead reading lamps. Items addressed elsewhere in this document shall not be included. (M) or (O) procedures, if required, must be available to the flight crew and included in the operator's appropriate document.  NOTE: Exterior Lavatory Door Ash Trays are not considered Passenger Convenience Items.  (continued)

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25 EQUIPMENT/ FURNISHINGS			
9. Passenger Convenience/ NEF Items (Continued)			
2) Non-Essential Equipment *** & Furnishings (NEF)	-	0	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 (O) procedures, if required, must be available to the flight crew and included in the operator's appropriate document.  NOTE: Exterior Lavatory Door Ash Trays are not considered NEF items.
10. Emergency Medical Equipment			
1) Automatic External Defibrillator (AED) and/or Associated Equipment	A	-	0 (O) May be incomplete, missing or inoperative provided: a) AED is resealed in a manner that will identify it as a Unit that cannot be mistaken for a fully serviceable Unit and b) Repairs or replacements are made within three flight cycles.
	D	-	- Any in excess of those required by FAR may be incomplete, missing, or inoperative.  (continued)

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25 EQUIPMENT/ FURNISHINGS				
10. Emergency Medical Equipment (Continued)				
2) Emergency Medical Kit (EMK) and/or Associated Equipment	A	-	0	(O) May be incomplete, missing or inoperative provided: a) EMK is resealed in a manner that will identify it as a Unit that cannot be mistaken for a fully serviceable Unit and b) Repairs or replacements are made within three flight cycles.
	D	-	-	Any in excess of those required by FAR may be incomplete, missing or inoperative.
3) First Aid Kit (FAK) and/or Associated Equipment	A	-	-	(O) If more than one is required by FAR, only one of the required First Aid Kits may be incomplete, missing or inoperative provided: a) FAK is resealed in a manner that will identify it as a Unit that can not be mistaken for a fully serviceable Unit and b) Repairs or replacements are made within three flight cycles.
	D	-	-	Any in excess of those required by FAR may be incomplete, missing or inoperative.

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	4. REMARKS AND EXCEPTIONS				
25 EQUIPMENT/ FURNISHINGS					
11. Galley Waste Receptacles Access Doors/Covers	C	-	-	(M) (O) May be inoperative provided: a) The Container is empty and the access is secured to prevent waste introduction into the Compartment and b) Procedures are established to ensure that sufficient Galley Waste Receptacles are available to accommodate all waste that may be generated on a flight.	
12. "FASTEN SEAT BELT WHILE SEATED" Sign or Placard	C	-	-	One or more Signs or Placards may be illegible or missing provided a legible Sign or Placard is visible from each occupied Passenger Seat.	
13. Overhead Storage Bin(s)/Cabin and Galley Storage Compartments/ Closets	C	-	-	(M) May be inoperative provided: a) Procedures are established to secure Compartment CLOSED, b) Any emergency equipment located in affected Compartment is considered inoperative and c) Affected Compartment is not used for storage of any item(s) except for those permanently affixed.  NOTE: If no Partitions are installed, the entire Overhead Storage Compartment is considered one Bin.	

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	4. REMARKS AND EXCEPTIONS			
25 EQUIPMENT/ FURNISHINGS				
14. Cargo Restraint Systems	C	-	-	(M) May be inoperative, or missing provided acceptable cargo loading limits from an approved source, i.e., an Approved Cargo Loading Manual, Cargo Handling Manual or Weight and Balance Document are observed.
	C	-	-	May be inoperative or missing provided Cargo Compartment remains empty.

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	4. REMARKS AND EXCEPTIONS			
26 FIRE PROTECTION				
1. Portable Fire Extinguisher(s)	D	-	-	Any in excess of those required by FAR may be inoperative or missing provided: a) Inoperative Fire Extinguisher is tagged INOPERATIVE, removed from its installed location, and placed out of sight so that it cannot be mistaken for a functional Unit and b) Required distribution is maintained.
2. Engine Fire Extinguisher (Applies to 100/200 Only)	C	2	0	
3. Fire Extinguisher Indicator Discs	C	2	0	May be missing provided Bottle Pressure Gauge is visually checked prior to each flight to assure Bottle pressure is within limits.
4. Lavatory Fire Extinguisher System	C	-	-	For each Lavatory, the Lavatory Fire Extinguisher System may be inoperative provided Lavatory Smoke Detector System operates normally.
	C	-	-	(M) (O) For each Lavatory, the Lavatory Fire Extinguisher System may be inoperative provided: a) Lavatory Waste Receptacle is empty, b) Associated Lavatory Door is locked CLOSED and placarded, "INOPERATIVE-DO NOT ENTER" and c) Lavatory is used only by crewmembers.
(continued)				

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	3. NUMBER REQUIRED FOR DISPATCH			
	4. REMARKS AND EXCEPTIONS			
26 FIRE PROTECTION				
4. Lavatory Fire Extinguisher System (Continued)				<p>NOTE 1: These provisos are not intended to prohibit Lavatory use or inspections by crewmembers.</p> <p>NOTE 2: A Lavatory Fire Extinguisher System is not required for all-cargo operations.</p>
5. Lavatory Smoke Detection System	C	-	-	<p>(M) (O) For each Lavatory, the Lavatory Smoke Detection System may be inoperative provided:</p> <ul style="list-style-type: none"> <li>a) Lavatory Waste Receptacle is empty,</li> <li>b) Associated Lavatory Door is locked CLOSED and placarded, "INOPERATIVE-DO NOT ENTER" and</li> <li>c) Lavatory is used only by crewmembers.</li> </ul> <p>NOTE 1: These provisos are not intended to prohibit Lavatory use or inspections by crewmembers.</p> <p>NOTE 2: Lavatory Smoke Detection System is not required for all-cargo operations.</p>

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	4. REMARKS AND EXCEPTIONS			
26 FIRE PROTECTION				
6. Cargo Compartment Fire Detection/Suppression Systems	C	-	0	<p>May be inoperative provided associated Cargo Compartment remains empty.</p> <p>NOTE 1: Does not preclude the carriage of empty Cargo Containers, Pallets, Ballast, etc.</p> <p>NOTE 2: Class E Cargo Compartments require only the installation of Smoke or Fire Detection Systems (not Suppression).</p>

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	3. NUMBER REQUIRED FOR DISPATCH			
	4. REMARKS AND EXCEPTIONS			
27 FLIGHT CONTROLS				
1. Flap Position Indicator	C	1	0	May be inoperative provided: a) Flaps are visually checked for full travel and Flap operation is not affected and b) Flaps are visually checked to confirm Flap position agrees with selected position.
2. Trim Tab Position Indicator (Rudder)	C	1	0	May be inoperative provided: a) Tab is visually checked for full range of operation, b) Tab operation is not impaired and c) Tab is positioned to NEUTRAL prior to each departure and NEUTRAL position is verified by visual inspection.
3. Trim Tab Position Indicator (Aileron)	C	1	0	May be inoperative provided: a) Trim is visually checked for full range of operation, b) Trim operation is not impaired and c) Trim is positioned to NEUTRAL prior to each departure and NEUTRAL position is verified by visual inspection.
4. Flap System	C	1	0	(O) May be inoperative provided: a) Flaps are in full UP position and b) Performance charts in AFM for No Flap takeoff and landing are used.

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	4. REMARKS AND EXCEPTIONS			
27 FLIGHT CONTROLS				
5. Stall Warning System				
1) Reference Speed Deviation (RSD) Indicator	C	1	0	
2) Stall Warning Light	C	1	0	May be inoperative provided Stall Warning Horn and Reference Speed Deviation Indicator are operative.

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	4. REMARKS AND EXCEPTIONS			
28 FUEL				
1. Fuel Quantity Indicator	B	2	1	(O) One may be inoperative provided: a) A reliable means is established to determine that fuel quantity on board meets the regulatory requirements for the intended flight, b) Both Fuel Flow Indicators are operative and c) Both Fuel Quantity and Fuel Pressure Annunciators are operative.
2. Fuel Quantity Annunciator	C	2	1	One may be inoperative provided: a) Fuel quantity on board is adequate for intended flight and b) Fuel Quantity Indicators are operative.
3. Magna Stick System	C	2	0	May be inoperative provided they are not required to determine fuel quantity.
4. Pressure Refueling System	C	1	0	
5. Manual Shutoff Valve (Single Point Refueling System Only)	C	1	0	(M) May be inoperative provided it is secured in the CLOSED position.
6. Booster Pumps	C	4	2	One may be inoperative on each side provided Refueling/Defueling Manual Shutoff Valve is in the CLOSED position.  NOTE: Usable fuel reduced with Boost Pump inoperative. (See AFM)

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	4. REMARKS AND EXCEPTIONS				
30	ICE AND RAIN PROTECTION				
1.	Surface Deice System (Wing, Horizontal and Vertical Stabilizer)	C	1	0	May be inoperative provided aircraft is not operated in known or forecast icing conditions.
2.	Propeller Deicing System	C	2	0	May be inoperative provided aircraft is not operated in known or forecast icing conditions.
3.	Windshield Deicing System	C	2	0	May be inoperative provided aircraft is not operated in known or forecast icing conditions.
4.	Pitot Heater	B	2	0	May be inoperative provided: a) IFR passenger carrying operations are not conducted and b) Aircraft is not operated in known or forecast icing conditions.
5.	Windshield Wipers	C	2	0	May be inoperative provided aircraft is not operated in precipitation within 5 nautical miles of the airport of takeoff or intended landing.
1)	Park Mode	C	1	0	May be inoperative provided Wipers work in NORMAL mode and Wipers can be parked by selecting ON or OFF until Wipers park in a position that does not impair vision.
6.	Stall Warning/Lift Transducer Heater	B	1	0	May be inoperative provided aircraft is not operated in known or forecast icing conditions.

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	4. REMARKS AND EXCEPTIONS			
30 ICE AND RAIN PROTECTION				
7. Engine Inlet Anti-Ice Valves	C	2	0	(M) Both may be inoperative provided: a) Valve is in the OFF/CLOSED Position, b) Aircraft is not operated in temperatures below 40 degrees F and c) Aircraft is not operated in known or forecast icing conditions.
8. Pitot Heat Indicating Systems				
1) System Required by the Certification or Operating Rules	B	-	0	May be inoperative provided: a) All other elements of the Pitot Heat System operate normally and b) The airplane is not operated into known or forecast icing conditions.
2) System Not Required by the Certification or Operating Rules	C	-	0	May be inoperative provided: a) All other elements of the Pitot Heat System operate normally and b) The airplane is not operated into known or forecast icing conditions.

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	4. REMARKS AND EXCEPTIONS			
31 INDICATING/ RECORDING SYSTEMS				
1. Clock with Sweep Second Hand or Electric Digital Clock	C	2	1	One may be inoperative when two pilots are required.
	C	2	1	Right side may be inoperative when one pilot is required.
2. Flight Hour Recorder	C	1	0	(O)
3. Engine Hour Recorder	C	1	0	(O)
4. Flight Data Recorder (FDR) System	C	-	-	Any in excess of those required by FAR may be inoperative.
	A	-	0	May be inoperative provided: a) Cockpit Voice Recorder (CVR) operates normally, b) Airplane is not dispatched from a designated airport as listed in the operator's MEL unless: 1. The FDR failure occurs after pushback but prior to takeoff or 2. The FDR repair was attempted but was not successful. c) In those cases where repair is attempted but not successful, the aircraft may be dispatched on a flight or series of flights until the next designated airport where repair must be accomplished prior to dispatch and d) Repairs are made within three flight days.
(continued)				

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31 INDICATING/ RECORDING SYSTEMS				
4. Flight Data Recorder (FDR) System (Continued)				
1) FDR Recording Parameters Required by FAR	A	-	-	May be inoperative provided: a) Cockpit Voice Recorder (CVR) operates normally and b) Repairs are made within 20 calendar days.
2) FDR Recording Parameters Not Required by FAR	A	-	-	May be inoperative provided repairs are made prior to completion of the next heavy maintenance check.
3) Operators Other Than Holders of Air Carrier or Commercial Operator Certificates	C	-	1	Any in excess of those required by FAR may be inoperative.
	A	-	0	May be inoperative provided repairs are made in accordance with applicable FARs.

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	4. REMARKS AND EXCEPTIONS			
32 LANDING GEAR				
1. Nosewheel Steering	C	1	0	(O) (M)

DEPARTMENT OF TRANSPORTATION		MASTER MINIMUM EQUIPMENT LIST		
FEDERAL AVIATION ADMINISTRATION				
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SYSTEM SEQUENCE & NUMBERS	1. REPAIR CATEGORY			
	2. NUMBER INSTALLED			
	3. NUMBER REQUIRED FOR DISPATCH			
	4. REMARKS AND EXCEPTIONS			
33 LIGHTS				
1. Cockpit/Flight Deck/Flight Compartment and Instrument Lighting System	C	-	-	Individual Lights may be inoperative provided remaining Lights are: a) Sufficient to clearly illuminate all required instruments, controls, and other devices for which it is provided, b) Positioned so that direct rays are shielded from flight crewmembers eyes and c) Lighting configuration and intensity is acceptable to the flight crew.
2. Passenger Notice – (Fasten Seatbelt)				MOVED TO ITEM 25-12, REVISION 6b.
1) Passenger Notice – (No Smoking)	C	1	0	May be inoperative provided appropriate verbal briefings are given to passengers.
3. Landing Lights	C	2	1	One may be inoperative for night operations.
	C	2	0	Both may be inoperative for day operations.
				DELETED, REVISION 7.
4. Taxi Light	C	2	0	May be inoperative for day operations.
	C	2	0	May be inoperative for night operations provided both landing lights are operative.

DEPARTMENT OF TRANSPORTATION		MASTER MINIMUM EQUIPMENT LIST		
FEDERAL AVIATION ADMINISTRATION				
AIRCRAFT: DORNIER 228 -100/101/200/201/202/212		REVISION NO: 7 DATE: 05/29/2007		PAGE NO: 33-2
SYSTEM SEQUENCE & NUMBERS	1. REPAIR CATEGORY			
	2. NUMBER INSTALLED			
	3. NUMBER REQUIRED FOR DISPATCH			
	4. REMARKS AND EXCEPTIONS			
33 LIGHTS				
5. Anti-Collision Light System	B	1	0	<p>May be inoperative provided:</p> <p>a) Airplane is not operated at night or</p> <p>b) Strobes are installed and operate normally.</p> <p>NOTE: The Strobe Light System must be approved and certificated as an Anti-Collision Light System if used in place of a Rotating Beacon.</p>
6. Position Lights	C	3	0	<p>May be inoperative for day operations.</p> <p>NOTE 1: Strobe Lights may not be used in place of the red and/or green Wing Tip Position Light(s) during night operations.</p> <p>NOTE 2: A Strobe Light may be used in lieu of a white Tail Position Light when it is in close proximity.</p>
7. Wing Illumination Lights	C	-	0	(O) May be inoperative provided ground deicing procedures do not require their use.
8. Strobe Lights	C	3	0	
9. Logo Lights	C	2	0	
10. Passenger Cabin Lighting	C	-	-	May be inoperative provided lighting configuration is acceptable to the flight crew.

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FEDERAL AVIATION ADMINISTRATION				
AIRCRAFT: DORNIER 228 -100/101/200/201/202/212		REVISION NO: 6b DATE: 05/28/2003		PAGE NO: 33-3
SYSTEM SEQUENCE & NUMBERS	1. REPAIR CATEGORY			
	2. NUMBER INSTALLED			
	3. NUMBER REQUIRED FOR DISPATCH			
	4. REMARKS AND EXCEPTIONS			
33 LIGHTS				
11. Hydraulic System Level Check Light	C	1	0	
12. Master Warning Lights	C	2	1	(O) One may be inoperative provided the Warning Horn is operative.
13. Master Caution Lights	C	2	1	One may be inoperative.

DEPARTMENT OF TRANSPORTATION		MASTER MINIMUM EQUIPMENT LIST		
FEDERAL AVIATION ADMINISTRATION				
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SYSTEM SEQUENCE & NUMBERS	1. REPAIR CATEGORY			
	2. NUMBER INSTALLED			
	3. NUMBER REQUIRED FOR DISPATCH			
	4. REMARKS AND EXCEPTIONS			
34 NAVIGATION				
1. Gyroscopic Rate of Turn and Slip/Skid Indicator	B	2	1	May be inoperative on right side for day VMC.
2. Vertical Speed Indicator	B	2	1	One may be inoperative for day VMC.
3. Navigation Equipment (VOR/ILS, Loran, Omega/VLF, INS, RNAV, Doppler, GPS, FMS)	C	-	-	As required by FAR.
4. ATC Transponders and Automatic Altitude Reporting Systems	B	-	0	May be inoperative provided: a) Enroute operations do not require its use and b) Prior to flight, approval is obtained from ATC facilities having jurisdiction over the planned route of flight.
	D	-	1	Any in excess of those required by FAR may be inoperative.
1) Elementary and Enhanced Downlink Aircraft Reportable Parameters Not Required by FAR	A	-	0	May be inoperative provided: a) Enroute operations do not require its use and b) Repairs are made prior to completion of the next heavy maintenance visit.
5. Marker Beacon	C	2	0	May be inoperative provided approach procedure does not require its use.
6. Weather Radar/Thunderstorm Detection Equipment	C	1	0	As required by FAR.

DEPARTMENT OF TRANSPORTATION		MASTER MINIMUM EQUIPMENT LIST		
FEDERAL AVIATION ADMINISTRATION				
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SYSTEM SEQUENCE & NUMBERS	1. REPAIR CATEGORY			
	2. NUMBER INSTALLED			
	3. NUMBER REQUIRED FOR DISPATCH			
	4. REMARKS AND EXCEPTIONS			
34 NAVIGATION				
7. Flight Director ***	C	2	0	
8. Encoding Function of Altimeter				COMBINED WITH ATC TRANSPONDERS, REVISION 6a
9. Speed Preset Markers	C	-	-	
10. Altitude Preset Marker	C	-	-	
11. Distance Measuring Equipment (DME) Systems	D	-	-	Any in excess of those required by FAR may be inoperative.
12. Radar Altimeter	C	1	0	
13. Altitude Alerting System	A	-	0	(O) May be inoperative provided: a) Autopilot with Altitude Hold is operative, b) Enroute operations do not require its use and c) Repairs are made within three flight days.
	C	-	0	May be inoperative provided it is not required by FAR.
14. Automatic Direction Finder (ADF)	D	-	-	Any in excess of those required by FAR may be inoperative.  NOTE: The ADF may be operated with inoperative timing functions (i. e. Elapsed Time, Flight Time, Stop Watch, etc.) that do not affect ADF navigation.
15. Radio Magnetic Indicator (RMI)	C	-	0	

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SYSTEM SEQUENCE & NUMBERS	1. REPAIR CATEGORY				
	2. NUMBER INSTALLED				
	3. NUMBER REQUIRED FOR DISPATCH				
	4. REMARKS AND EXCEPTIONS				
34 NAVIGATION					
16. Non-Stabilized Magnetic Compass	B	1	0	(O) May be inoperative provided any combination of three Gyro or INS (IRU) Stabilized Compass Systems are operative.	
	B	1	0	(O) May be inoperative provided: a) Any combination of two Gyro or INS (IRU) Stabilized Compass Systems operate normally and b) Airplane is operated with Dual Independent Navigation Capability and under Positive Radar Control by ATC on the enroute portion of the flight.	
	B	1	0	(O) May be inoperative for flights that are entirely within areas of magnetic unreliability provided at least two Stabilized Directional Gyro Systems are installed, operate normally, and used in conjunction with approved Free Gyro Navigation Techniques.	
17. Gyroscopic Directional Indicator Slaving System	B	2	1	(O) Either may be inoperative provided: a) Slaving can be disconnected, b) Crew can manually set heading and c) Magnetic Compass is operative.	
18. Traffic Alert and Collision Avoidance System (TCAS I)	B	-	0	(M) May be inoperative provided: a) System is deactivated and secured and b) Enroute or approach procedures do not require its use.	
				(continued)	

DEPARTMENT OF TRANSPORTATION		MASTER MINIMUM EQUIPMENT LIST		
FEDERAL AVIATION ADMINISTRATION				
AIRCRAFT: DORNIER 228 -100/101/200/201/202/212		REVISION NO: 7 DATE: 05/29/2007		PAGE NO: 34-4
SYSTEM SEQUENCE & NUMBERS	1. REPAIR CATEGORY			
	2. NUMBER INSTALLED			
	3. NUMBER REQUIRED FOR DISPATCH			
	4. REMARKS AND EXCEPTIONS			
34 NAVIGATION				
18. Traffic Alert and Collision Avoidance System (TCAS I) (Continued)	C	-	0	(M) May be inoperative provided: a) Not required by FAR, b) System is deactivated and secured and c) Enroute or approach procedures do not require its use.
19. Traffic Alert and Collision Avoidance System (TCAS II)	B	-	0	(M) May be inoperative provided: a) System is deactivated and secured and b) Enroute or approach procedures do not require its use.
	C	-	0	(M) May be inoperative provided: a) Not required by FAR, b) System is deactivated and secured and c) Enroute or approach procedures do not require its use.
1) Combined Traffic Alert (TA) and Resolution Advisory (RA) Dual Display System(s)	C	2	1	May be inoperative on the non-flying pilot side provided: a) TA and RA visual display is operative on the flying pilot side and b) TA and RA audio function is operative on the flying pilot side.  (continued)

DEPARTMENT OF TRANSPORTATION		MASTER MINIMUM EQUIPMENT LIST		
FEDERAL AVIATION ADMINISTRATION				
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SYSTEM SEQUENCE & NUMBERS	1. REPAIR CATEGORY			
	2. NUMBER INSTALLED			
	3. NUMBER REQUIRED FOR DISPATCH			
	4. REMARKS AND EXCEPTIONS			
34 NAVIGATION				
19. Traffic Alert and Collision Avoidance System (TCAS II) (Continued)				
2) Resolution Advisory (RA) Display System(s)	C	2	1	May be inoperative on non-flying pilot side.
	C	-	0	(O) May be inoperative provided: a) Traffic Alert (TA) visual display and audio functions are operative, b) TA ONLY Mode is selected by the crew and c) Enroute or approach procedures do not require its use.
3) Traffic Alert (TA) Display System(s)	C	-	0	(O) May be inoperative provided: a) RA visual display and audio functions are operative and b) Enroute or approach procedures do not require its use.
4) Audio Functions	B	1	0	May be inoperative provided enroute or approach procedures do not require use of TCAS.
5) Airspace Selection *** Function	C	-	0	

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FEDERAL AVIATION ADMINISTRATION				
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SYSTEM SEQUENCE & NUMBERS	1. REPAIR CATEGORY			
	2. NUMBER INSTALLED			
	3. NUMBER REQUIRED FOR DISPATCH			
	4. REMARKS AND EXCEPTIONS			
34 NAVIGATION				
20. Terrain Awareness and Warning System (TAWS)				
A. Class A TAWS Equipment Required				
1) Ground Proximity Warning System (GPWS)	A	1	0	(O) May be inoperative provided: a) Alternate procedures are established and used and b) Repairs are made within two flight days.
a) Modes 1-4	A	4	0	(O) May be inoperative provided: a) Alternate procedures are established and used and b) Repairs are made within two flight days.
b) Test Mode	A	1	0	May be inoperative provided: a) GPWS is considered inoperative and b) Repairs are made within two flight days.
c) Glideslope Deviation(s) (Mode 5)	C	-	1	
	B	-	0	
d) Advisory Callouts	B	-	0	(O) May be inoperative provided alternate procedures are established and used.
	C	-	0	(O) May be inoperative provided: a) Advisory callout not required by FAR and b) Alternate procedures are established and used.
				(continued)

DEPARTMENT OF TRANSPORTATION		MASTER MINIMUM EQUIPMENT LIST		
FEDERAL AVIATION ADMINISTRATION				
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SYSTEM SEQUENCE & NUMBERS	1. REPAIR CATEGORY			
	2. NUMBER INSTALLED			
	3. NUMBER REQUIRED FOR DISPATCH			
	4. REMARKS AND EXCEPTIONS			
34 NAVIGATION				
20. Terrain Awareness and Warning System (TAWS) (Continued)				
A. Class A TAWS Equipment (Continued)				
1) GPWS (Continued)				
e) Windshear Mode *** (Reactive)	B	1	0	(O) May be inoperative provided alternate procedures are established and used.  NOTE: Operator's alternate procedures should include reviewing windshear avoidance and windshear recovery procedures.
	C	1	0	(O) May be inoperative provided: a) Alternate procedures are established and used and b) Windshear Detection and Avoidance System (Predictive) operates normally.
2) Terrain System-Forward Looking Terrain Avoidance (FLTA) and Premature Descent Alert (PDA) Functions	B	1	0	(O) May be inoperative provided alternate procedures are established and used.
3) Terrain Displays	C	-	1	
	B	-	0	
4) Runway Awareness and *** Advisory System (RAAS)	C	1	0	
				(continued)

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FEDERAL AVIATION ADMINISTRATION				
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SYSTEM SEQUENCE & NUMBERS	1. REPAIR CATEGORY			
	2. NUMBER INSTALLED			
	3. NUMBER REQUIRED FOR DISPATCH			
	4. REMARKS AND EXCEPTIONS			
34 NAVIGATION				
20. Terrain Awareness and Warning System (TAWS) (Continued)				
B. Class B TAWS Equipment Required				
1) Ground Proximity Warning System (GPWS)	A	1	0	(O) May be inoperative provided: a) Alternate procedures are established and used and b) Repairs are made within two flight days.
a) Modes 1 & 3	A	2	0	(O) May be inoperative provided: a) Alternate procedures are established and used and b) Repairs are made within two flight days.
b) Test Mode	A	1	0	May be inoperative provided: a) GPWS is considered inoperative and b) Repairs are made within two flight days.
c) Modes 2, 4 & 5 ***	C	3	0	
d) Advisory Callouts	B	-	0	(O) May be inoperative provided alternate procedures are established and used.
	C	-	0	(O) May be inoperative provided: a) Advisory Callouts not required by FAR and b) Alternate procedures are established and used.
				(continued)

DEPARTMENT OF TRANSPORTATION		MASTER MINIMUM EQUIPMENT LIST		
FEDERAL AVIATION ADMINISTRATION				
AIRCRAFT: DORNIER 228 -100/101/200/201/202/212		REVISION NO: 7 DATE: 05/29/2007		PAGE NO: 34-9
SYSTEM SEQUENCE & NUMBERS	1. REPAIR CATEGORY			
	2. NUMBER INSTALLED			
	3. NUMBER REQUIRED FOR DISPATCH			
	4. REMARKS AND EXCEPTIONS			
34 NAVIGATION				
20. Terrain Awareness and Warning System (TAWS) (Continued)				
B. Class B TAWS Equipment Required (Continued)				
1) GPWS (Continued)				
e) Windshear Mode *** (Reactive)	C	1	0	(O) May be inoperative provided alternate procedures are established and used.
2) Terrain System-Forward Looking Terrain Avoidance (FLTA) and Premature Descent Alert (PDA) Functions	B	1	0	
3) Terrain Displays ***	C	-	0	
4) Runway Awareness & Advisory System (RAAS) ***	C	1	0	
C. Class C TAWS Equipment				
1) TAWS/GPWS ***	C	1	0	(O) May be inoperative provided alternate procedures are established and used.  NOTE: Any Mode that operates normally may be used.
21. Flight Profile Advisory System (FPAS) ***	C	1	0	

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FEDERAL AVIATION ADMINISTRATION				
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SYSTEM SEQUENCE & NUMBERS	1. REPAIR CATEGORY			
	2. NUMBER INSTALLED			
	3. NUMBER REQUIRED FOR DISPATCH			
	4. REMARKS AND EXCEPTIONS			
34 NAVIGATION				
22. WIND SHEAR DETECTION, GUIDANCE AND AVOIDANCE SYSTEM				
INSTALLATION REQUIRED BY FAR				
1) Windshear Warning and *** Flight Guidance System (Reactive)	B	-	0	(O) May be inoperative provided alternate procedures are established and used.  NOTE: Operator's alternate procedures should include reviewing windshear avoidance and windshear recovery procedure.
	C	-	0	(O) May be inoperative provided: a) Alternate procedures are established and used and b) Windshear Detection and Avoidance System (Predictive) operates normally.
2) Windshear Detection and *** Avoidance System (Predictive)	B	-	0	(O) May be inoperative provided alternate procedures are established and used.  NOTE: Operator's alternate procedures should include reviewing windshear avoidance and windshear recovery procedures.
				(continued)

DEPARTMENT OF TRANSPORTATION		MASTER MINIMUM EQUIPMENT LIST		
FEDERAL AVIATION ADMINISTRATION				
AIRCRAFT: DORNIER 228 -100/101/200/201/202/212		REVISION NO: 7 DATE: 05/29/2007		PAGE NO: 34-11
SYSTEM SEQUENCE & NUMBERS	1. REPAIR CATEGORY			
	2. NUMBER INSTALLED			
	3. NUMBER REQUIRED FOR DISPATCH			
	4. REMARKS AND EXCEPTIONS			
34 NAVIGATION				
22. WIND SHEAR DETECTION, GUIDANCE AND AVOIDANCE SYSTEM (Continued)				
INSTALLATION REQUIRED BY FAR (Continued)				
2) Windshear Detection and *** Avoidance System (Predictive) (Continued)	C	-	0	(O) May be inoperative provided: a) Alternate procedures are established and used and b) Windshear Warning and Flight Guidance System (Reactive) operates normally.
WIND SHEAR DETECTION, GUIDANCE AND AVOIDANCE SYSTEM				
INSTALLATION NOT REQUIRED BY FAR				
3) Windshear Warning and *** Flight Guidance System (Reactive)	C	-	0	(O) May be inoperative provided alternate procedures are established and used.
4) Windshear Detection and *** Avoidance System (Predictive)	C	-	0	(O) May be inoperative provided alternate procedures are established and used.

DEPARTMENT OF TRANSPORTATION		MASTER MINIMUM EQUIPMENT LIST		
FEDERAL AVIATION ADMINISTRATION				
AIRCRAFT: DORNIER 228 -100/101/200/201/202/212		REVISION NO: 7 DATE: 05/29/2007		PAGE NO: 34-12
SYSTEM SEQUENCE & NUMBERS	1. REPAIR CATEGORY			
	2. NUMBER INSTALLED			
	3. NUMBER REQUIRED FOR DISPATCH			
	4. REMARKS AND EXCEPTIONS			
34 NAVIGATION				
23. Windshear Detection and *** Avoidance System				COMBINED WITH ITEM 34-22, REVISION 7.
24. NAVIGATION DATABASES				
A. Flight Management System				
1) Navigation Databases	C	-	-	(O) May be out of currency provided: a) Current Aeronautical Charts are used to verify Navigation Fixes prior to dispatch, b) Procedures are established and used to verify status and suitability of Navigation Facilities used to define route of flight and c) Approach Navigation Radios are manually tuned and identified.
B. Navigation Management System				
1) Navigation Databases	C	-	-	(O) May be out of currency provided: a) Current Aeronautical Charts are used to verify Navigation Fixes prior to dispatch, b) Procedures are established and used to verify status and suitability of Navigation Facilities used to define route of flight and c) Approach Navigation Radios are manually tuned and identified.

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AIRCRAFT: DORNIER 228 -100/101/200/201/202/212		REVISION NO: 7 DATE: 05/29/2007		PAGE NO: 34-13
SYSTEM SEQUENCE & NUMBERS	1. REPAIR CATEGORY			
	2. NUMBER INSTALLED			
	3. NUMBER REQUIRED FOR DISPATCH			
	4. REMARKS AND EXCEPTIONS			
34 NAVIGATION				
25. Automatic Dependent Surveillance-Broadcast (ADS-B) System	D	-	0	May be inoperative provided it is not required by 14 CFR.  NOTE: If ADS-B is installed in lieu of or as a replacement for 14 CFR required equipment, the repair category in the operator's MEL will be the same as that of the 14 CFR required equipment.
1) Link and Display Processor Unit (LDPU)	D	-	0	NOTE: Cockpit Display Traffic Information (CDTI) display of data from other Aircraft Systems may be used.
2) Cockpit Display and Traffic Information (CDTI)	D	-	0	NOTE: ADS-B data transmissions may continue.
3) CDTI Control Panel	D	-	0	May be inoperative provided: a) Flight ID can be set and b) Screen display is acceptable to the flight crew.
4) Data Link Transmitter(s)	D	-	0	
5) Data Link Receivers	D	-	0	

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SYSTEM SEQUENCE & NUMBERS	1. REPAIR CATEGORY				
	2. NUMBER INSTALLED				
	3. NUMBER REQUIRED FOR DISPATCH				
	4. REMARKS AND EXCEPTIONS				
34 NAVIGATION					
26. Standby Attitude Indicator	C	-	0	May be inoperative provided not required by FAR.	
	B	-	0	May be inoperative provided: a) Operations are conducted in day VMC only and b) Operations are not conducted into known or forecast over-the-top conditions.	
CARGO ONLY-SINGLE PILOT ONLY					
1. Airspeed Indicator	B	2	1	May be inoperative on right side provided: a) Copilot's Pitot System is functioning normally and b) A functioning Pneumatic Indicator is installed and available to the pilot.	
2. Gyroscopic Bank and Pitch Indicator System	B	2	1	May be inoperative on right side provided two independent power sources are available to drive the left side instrument.	
3. Gyroscopic Direction Indicator System	B	2	1	May be inoperative on right side provided: a) Magnetic Compass is operative and b) Two independent power sources are available to drive the left side System.	
4. Gyroscopic Directional Indicator Slaving System	B	2	1	(O) May be inoperative on either side provided: a) Slaving can be disconnected, b) Crew can manually set heading and c) Magnetic Compass is operative.	
				(continued)	

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FEDERAL AVIATION ADMINISTRATION				
AIRCRAFT: DORNIER 228 -100/101/200/201/202/212		REVISION NO: 6b DATE: 05/28/2003		PAGE NO: 34-15
SYSTEM SEQUENCE & NUMBERS	1. REPAIR CATEGORY			
	2. NUMBER INSTALLED			
	3. NUMBER REQUIRED FOR DISPATCH			
	4. REMARKS AND EXCEPTIONS			
34 NAVIGATION  CARGO ONLY-SINGLE PILOT ONLY (Continued)				
5. Altimeter, Barometric Pressure, Adjustable	B	2	1	May be inoperative on right side provided a functioning Pneumatic Altimeter, adjustable for barometric pressure, is installed and available to the pilot.

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FEDERAL AVIATION ADMINISTRATION				
AIRCRAFT: DORNIER 228 -100/101/200/201/202/212		REVISION NO: 7 DATE: 05/29/2007		PAGE NO: 35-1
SYSTEM SEQUENCE & NUMBERS	1. REPAIR CATEGORY			
	2. NUMBER INSTALLED			
	3. NUMBER REQUIRED FOR DISPATCH			
	4. REMARKS AND EXCEPTIONS			
35 OXYGEN				
1. Oxygen System (Passenger)	C	-	-	As required by FAR.
2. Protective Breathing Equipment (PBE)	D	-	-	Any in excess of those required by FAR may be inoperative.

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AIRCRAFT: DORNIER 228 -100/101/200/201/202/212		REVISION NO: 7 DATE: 05/29/2007		PAGE NO: 38-1
SYSTEM SEQUENCE & NUMBERS	1. REPAIR CATEGORY			
	2. NUMBER INSTALLED			
	3. NUMBER REQUIRED FOR DISPATCH			
	4. REMARKS AND EXCEPTIONS			
38 WATER/WASTE				
1. Potable Water Systems	C	-	-	(M) Individual Components may be inoperative provided: a) Associated Components are deactivated or isolated and b) Associated System Components are verified not to have leaks.  NOTE: Any portion of a System which operates normally may be used.
	C	-	-	(M) May be inoperative provided: a) System is drained and b) Procedures are established to ensure that System is not serviced.
2. Lavatory Waste Systems (Including Wheelchair Accessible Lavatories)	C	-	-	(M) Individual Components may be inoperative provided: a) Associated Components are deactivated or isolated and b) Associated System Components are verified not to have leaks.  NOTE: Any portion of a System which operates normally may be used.
(continued)				

DEPARTMENT OF TRANSPORTATION		MASTER MINIMUM EQUIPMENT LIST		
FEDERAL AVIATION ADMINISTRATION				
AIRCRAFT: DORNIER 228 -100/101/200/201/202/212		REVISION NO: 7 DATE: 05/29/2007		PAGE NO: 38-2
SYSTEM SEQUENCE & NUMBERS	1. REPAIR CATEGORY			
	2. NUMBER INSTALLED			
	3. NUMBER REQUIRED FOR DISPATCH			
	4. REMARKS AND EXCEPTIONS			
38 WATER/WASTE  2. Lavatory Waste Systems (Continued)	C	-	-	<p>(M) Associated Lavatory System(s) may be inoperative provided:</p> <ul style="list-style-type: none"> <li>a) Associated Components are deactivated or isolated to prevent leaks,</li> <li>b) The Pilot-in-Command will determine if flight duration is acceptable with a Lavatory unusable and</li> <li>c) Associated Lavatory Door(s) is secured CLOSED and placarded, "INOPERATIVE – DO NOT ENTER".</li> </ul> <p>NOTE: These provisions are not intended to prohibit inspections by crewmembers.</p>

DEPARTMENT OF TRANSPORTATION		MASTER MINIMUM EQUIPMENT LIST			
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SYSTEM SEQUENCE & NUMBERS	1. REPAIR CATEGORY				
	2. NUMBER INSTALLED				
	3. NUMBER REQUIRED FOR DISPATCH				
	4. REMARKS AND EXCEPTIONS				
46 INFORMATION SYSTEMS					
1. Integrated Flight Information System (Pro Line 21 IFIS-5000)					
1) File Server Unit (FSU) (FSU INOP message)	C	1	0		
***	C	2	0	(O) One or both may be inoperative provided alternate procedures are established and used to ensure all information associated with the flight is available from an alternate source in accordance with an operational approval for use of Electronic Flight Bag (EFB).	
2) Cursor Control Panel (CCP)	C	2	0	(O) One or both may be inoperative provided alternate procedures are established and used to ensure all information associated with the flight is available from an alternate source in accordance with an operational approval for use of Electronic Flight Bag (EFB).	
3) Communications *** Management Unit (CMU)	C	1	0	(O) May be inoperative provided alternate procedures are established and used for ACARS and Universal WX inoperative.	
4) Third VHF *** Communications Radio	C	1	0	(O) May be inoperative provided alternate procedures are established and used for ACARS and Universal WX inoperative.	
5) XM Satellite Weather *** System	C	1	0		

DEPARTMENT OF TRANSPORTATION		MASTER MINIMUM EQUIPMENT LIST		
FEDERAL AVIATION ADMINISTRATION				
AIRCRAFT: DORNIER 228 -100/101/200/201/202/212		REVISION NO: 7 DATE: 05/29/2007		PAGE NO: 46-2
SYSTEM SEQUENCE & NUMBERS	1. REPAIR CATEGORY			
	2. NUMBER INSTALLED			
	3. NUMBER REQUIRED FOR DISPATCH			
	4. REMARKS AND EXCEPTIONS			
46 INFORMATION SYSTEMS				
2. Electronic Flight Bag *** System (EFB)	C	-	0	May be inoperative provided an alternate source of associated information required for the flight is available.  NOTE: If alternate source is electronic, dual redundancy is required for operation.

DEPARTMENT OF TRANSPORTATION		MASTER MINIMUM EQUIPMENT LIST		
FEDERAL AVIATION ADMINISTRATION				
AIRCRAFT: DORNIER 228 -100/101/200/201/202/212		REVISION NO: 6b DATE: 05/28/2003		PAGE NO: 52-1
SYSTEM SEQUENCE & NUMBERS	1. REPAIR CATEGORY			
	2. NUMBER INSTALLED			
	3. NUMBER REQUIRED FOR DISPATCH			
	4. REMARKS AND EXCEPTIONS			
52 DOORS				
1. Door Warning Light	C	1	0	<p>May be inoperative provided:</p> <ul style="list-style-type: none"> <li>a) Flight crew verifies that Passenger/Cargo Doors are CLOSED properly by an external visual inspection prior to each departure,</li> <li>b) Flight crew verifies that Passenger/Cargo Doors are CLOSED properly and Locking Pins are in place prior to each departure and</li> <li>c) Flight crew verifies that Front Baggage Compartment Door is properly LATCHED and LOCKED.</li> </ul>
2. Pilots' Door Handles (Inside/Outside)	C	2	1	<p>(O) Either may be inoperative provided:</p> <ul style="list-style-type: none"> <li>a) The other Handle is operative,</li> <li>b) The Door is properly secured in the CLOSED position and</li> <li>c) For cargo only operations in which the Pilot Door is required to enter and exit the aircraft, both Door Handles must be operable.</li> </ul>

DEPARTMENT OF TRANSPORTATION		MASTER MINIMUM EQUIPMENT LIST		
FEDERAL AVIATION ADMINISTRATION				
AIRCRAFT: DORNIER 228 -100/101/200/201/202/212		REVISION NO: 6b DATE: 05/28/2003		PAGE NO: 56-1
SYSTEM SEQUENCE & NUMBERS	1. REPAIR CATEGORY			
	2. NUMBER INSTALLED			
	3. NUMBER REQUIRED FOR DISPATCH			
	4. REMARKS AND EXCEPTIONS			
56 WINDOWS				
1. Copilot's Bad Weather *** Window Latch	C	1	0	(M) Copilot's Bad Weather Window Latch may be inoperative provided: a) Windshield Deicing System is operative, b) Window is secured in the CLOSED position and c) Copilot's visibility is not restricted.

DEPARTMENT OF TRANSPORTATION		MASTER MINIMUM EQUIPMENT LIST		
FEDERAL AVIATION ADMINISTRATION				
AIRCRAFT: DORNIER 228 -100/101/200/201/202/212		REVISION NO: 6 DATE: 08/03/1993		PAGE NO: 61-1
SYSTEM SEQUENCE & NUMBERS	1. REPAIR CATEGORY			
	2. NUMBER INSTALLED			
	3. NUMBER REQUIRED FOR DISPATCH			
	4. REMARKS AND EXCEPTIONS			
61 PROPELLERS				
1. Synchrophasing System	C	1	0	

DEPARTMENT OF TRANSPORTATION		MASTER MINIMUM EQUIPMENT LIST		
FEDERAL AVIATION ADMINISTRATION				
AIRCRAFT: DORNIER 228 -100/101/200/201/202/212		REVISION NO: 6b DATE: 05/28/2003		PAGE NO: 73-1
SYSTEM SEQUENCE & NUMBERS	1. REPAIR CATEGORY			
	2. NUMBER INSTALLED			
	3. NUMBER REQUIRED FOR DISPATCH			
	4. REMARKS AND EXCEPTIONS			
73 ENGINE FUEL & CONTROL				
1. Fuel Totalizer	C	1	0	

DEPARTMENT OF TRANSPORTATION		MASTER MINIMUM EQUIPMENT LIST		
FEDERAL AVIATION ADMINISTRATION				
AIRCRAFT: DORNIER 228 -100/101/200/201/202/212		REVISION NO: 6b DATE: 05/28/2003		PAGE NO: 74-1
SYSTEM SEQUENCE & NUMBERS	1. REPAIR CATEGORY			
	2. NUMBER INSTALLED			
	3. NUMBER REQUIRED FOR DISPATCH			
	4. REMARKS AND EXCEPTIONS			
74 IGNITION				
1. 10% Speed Switch	C	2	0	May be inoperative provided manual start procedures are used.
2. 55% Speed Switch	C	2	0	May be inoperative provided manual start procedures are used.

DEPARTMENT OF TRANSPORTATION		MASTER MINIMUM EQUIPMENT LIST		
FEDERAL AVIATION ADMINISTRATION				
AIRCRAFT: DORNIER 228 -100/101/200/201/202/212		REVISION NO: 6b DATE: 05/28/2003		PAGE NO: 77-1
SYSTEM SEQUENCE & NUMBERS	1. REPAIR CATEGORY			
	2. NUMBER INSTALLED			
	3. NUMBER REQUIRED FOR DISPATCH			
	4. REMARKS AND EXCEPTIONS			
77 ENGINE INDICATING  1. Torque/ITT Limiter	C	2	0	(O) May be inoperative provided ITT and torque are set manually.