SUPPLEMENT TO FAA APPROVED MASTER MINIMUM EQUIPMENT LIST FOR

DORNIER 228

REVISION 1

22 March 2011

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MASTER MINIMUM EQUIPMENT LIST

SUPPLEMENT

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REVISION 1

This Master Minimum Equipment List (MMEL) Supplement is issued by the Civil Aviation Authority at the above revision and is approved as the basis for the preparation and approval of individual operators' Minimum Equipment Lists (MELs) for aircraft of this Type.



H A Fowler

For and on behalf of the Civil Aviation Authority

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REVISION RECORD

REVISION No.	ISSUE DATE	INCORPORATED BY	DATE
Original Issue	27 August 2004		
Revision 1	22 March 2011		
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INTRODUCTION

GUIDANCE IN THE USE OF THIS SUPPLEMENT

- 1. This supplement identifies only the differences from the FAA MMEL for the Dornier 228, as well as giving CAA Policy on some items. The information presented in the FAA MMEL for the aircraft type is acceptable to the CAA except where superseded by an item in this supplement. Any alleviation given in this supplement supersedes that given in the FAA MMEL.
- 2. Item numbering in the supplement aligns with the FAA MMEL, where applicable.
- 3. The standard Preamble and Definitions appropriate to a CAA MMEL are included here. These should be applied, in conjunction with those in the FAA MMEL, to any MEL generated by the use of this supplement.
- 4. Unless superseded by information within this supplement, where the FAA MMEL refers to an item "As required by FAR (or 14 CFR)" it shall be interpreted as meaning "As required by Air Navigation Legislation / Operating Requirements".
- 5. This supplement is based upon **Revision 7** (**dated 29 May 2007**) of the FAA Approved Dornier 228 MMEL. Additional MMEL alleviations given in later issues of the FAA MMEL shall not be used until the CAA Supplement has been updated to confirm that issue as the base document.
- 6. This supplement identifies those items which are required to be modified from that defined in the FAA MMEL or are introduced as additional alleviations. Where no item exists in this supplement, but an entry is stated in the FAA MMEL, the FAA MMEL is the acceptable entry.
 - Note 1: Some items are complete replacement entries whilst others modify only parts/sections of entries in this latter case only the amended part/section is stated in this supplement.
 - Note 2: The text presented in bold format within this document indicates:
 - a) Additional or altered text introduced since the previous revision of this supplement, or
 - b) Highlighted parts of the CAA MMEL Supplement entry which differ from the FAA MMEL entry.

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PREAMBLE

- 1. The CAA approved Master Minimum Equipment List (MMEL) provides owners/operators of United Kingdom registered aircraft, of the relevant type, with the basis for the preparation of their individual Minimum Equipment List (MELs). In the case of holders of Air Operator Certificates the MEL will be included in that Company's Operations Manual.
- 2. The approved MMEL represents a list of items of equipment which, under particular circumstances, can, to the satisfaction of the CAA, be unserviceable when the aircraft is dispatched, while still retaining the required level of safety.
- 3. The CAA recognises that in some respects the standard and scale of equipment provided in the aircraft may exceed the minimum required to satisfy airworthiness or Air Navigation Legislation requirements. Where necessary to achieve a satisfactory level of safety with an inoperative item, appropriate limitations are imposed or the function transferred to another component.
- 4. The MMEL does not include items such as wings, engines and landing gear that are always required, nor is reference made to equipment such as passenger convenience and entertainment items which when inoperative obviously do not affect airworthiness. It is important to note therefore that ANY ITEM WHICH IS RELATED TO THE AIRWORTHINESS OF THE AIRCRAFT AND WHICH IS NOT INCLUDED IN THE MMEL IS ALWAYS REQUIRED TO BE OPERATIVE BEFORE A FLIGHT IS DISPATCHED. This also applies to items which are required by Air Navigation Legislation. Additional Certification Requirements as appropriate, which are not listed, must be operative.
- 5. The MMEL may not waive a limitation or an emergency procedure which is given in the Flight Manual (FM) or override an Airworthiness Directive (AD) /Mandatory Inspection unless the FM/AD provides otherwise. Similarly, any Additional Certification Requirements, or other special provisions, as appropriate which have been determined as necessary by the CAA shall not be waived unless otherwise agreed or varied by the CAA.
- 6. An Owner/Operators MEL must receive CAA approval which thereby conveys the permission, required by the UK Air Navigation Order, to the Commander, for operation of the aircraft with specified items of equipment unserviceable.
- 7. The MEL may not be less restrictive than the MMEL, therefore the number of items required for dispatch shall not be less than the corresponding number in column 4 of the MMEL and any associated conditions shall be at least as severe as those specified in column 5.
- 8. The MMEL does not anticipate the effects of combinations of apparently unrelated unserviceabilities or allow for situations where systems are made inoperative for special purposes such as demonstration, test or crew training. Other provisions may apply to positioning or ferrying flights but these may not necessarily be included in the MMEL.

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PREAMBLE (Cont.)

- 9. The MEL should indicate that a decision to operate the aircraft with multiple unserviceabilities should only be made after due consideration of possible inter-related or additive effects and, if necessary, following consultation with appropriate engineering specialists.
- 10. It is not the purpose of the MMEL to allow defects of other than optional items to remain unrectified indefinitely. The operational flexibility provided under the MMEL policy is justified only within a framework of controlled and sound programmes of repairs, replacement and servicing. Defects should be rectified expeditiously thus retaining the intended overall level of safety and reducing the possibility of a subsequent failure necessitating the removal of the aircraft from service. Particular items in the MMEL may be subject to a limitation of flight hours, number of flights or consecutive calendar days, and these must be transferred into the MEL. A limit of three calendar days for completion of repairs or replacements has been applied to some items. Other time limits for rectification, such as those specified by the ANO, may also be applied as appropriate. Operators with established routes shall specify in the MEL at which stations, in addition to the main maintenance base, repair facilities exist.
- 11. This MMEL is based upon UK legislation and some of the alleviations it provides may not therefore necessarily comply with foreign legislation.
- 12. Where entries specify the use of (O) and/or (M) procedures, the information contained in the FAA approved Dornier 228 MMEL Guidance for (O) & (M) Procedures should be used as a basis.
- 13. The CAA MMELs and supplements are produced in conjunction with a base document, generally either the MMEL issued/approved by a Foreign Airworthiness Authority or the aircraft manufacturer at a specific quoted revision number and date. There may be occasions whereby the CAA MMEL or supplement has not been updated to consider later revisions of the base document. This could lead to instances where there are alleviations in the base MMEL which have either been revised or deleted and are now more restrictive than the corresponding CAA MMEL or supplement entry. Operators are invited to review all new base document MMEL revisions and where necessary advise the CAA MMEL section of any significantly more restrictive alleviations introduced by the revision. The CAA will then expedite review of these variations and, where required, issue amendments to the CAA MMEL or supplement.

New or amended alleviations given in later issues of the base document shall not be used until the CAA MMEL or supplement has been updated to confirm that issue of the base document is acceptable.

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DEFINITIONS

- 1. In this list, the items of equipment are classified in systems according to the ATA 100 specification. Individual items within a given ATA classification are numbered sequentially.
- 2. "Item" (Column 1): The equipment, system, components or function as listed in Column 1.

NOTE: Items annotated in UPPER CASE letters indicates the precise flight deck legend used.

3. <u>"Rectification Interval"</u> (Column 2): Inoperative items or components, deferred in accordance with the MEL, must be rectified at or prior to the rectification intervals established by the following letter designators given in the "Rectification Interval" column (2) of the MMEL.

Category A

No standard interval is specified, however, items in this category shall be rectified in accordance with the conditions stated in the Remarks column (5) of the MMEL.

Where a time period is specified it shall start at 00:01 on the calendar day following the day of discovery.

Category B

Items in this category shall be rectified within three (3) consecutive calendar days, excluding the day of discovery. For example, if it were recorded at 10 am on January 26th, the three day interval would begin at midnight on the 26th and end at midnight on the 29th.

Category C

Items in this category shall be rectified within ten (10) consecutive calendar days, excluding the day of discovery. For example, if it were recorded at 10 am on January 26th, the 10 day interval would begin at midnight on the 26th and end at midnight on February 5th.

Category D

Items in this category shall be rectified within one hundred and twenty (120) consecutive calendar days, excluding the day of discovery.

NOTE: Subject to the approval of the Authority, the operator may permit a one-time extension of the applicable rectification interval B, C or D for the same duration as that specified in the MEL.

4. "Number Installed" (Column 3): The number of the specified items normally installed in the aircraft. This number identifies the aircraft configuration considered in developing the MMEL.

NOTE: The operator's MEL should list the number installed in a particular aircraft.

- 5. "Number Required for Dispatch" (Column 4): The minimum number of the specified items required for operation provided the conditions defined in Column 5 are met.
- 6. "Remarks or Exceptions" (Column 5): This column includes a statement prohibiting operation or permitting operation with a specific number of items inoperative, provisos (conditions and limitations) for such operation and appropriate notes.

A note in column 5 indicates additional information and references for crew and/or maintenance personnel consideration; they are not part of the provisos.

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DEFINITIONS (Cont.)

Where references are stated in column 5, these are to identify certain inter-relationships between the subject item and other MMEL items, AFM material etc. These references are intended to assist, but not relieve, an operator of the responsibility for determining such inter-relationships as stated in the Preamble.

- 7. <u>Dash (-)</u>: This symbol indicates a variable quantity when used in Columns 3 or 4.
 - NOTE: The operator's MEL should list the numbers appropriate to his particular aircraft in Columns 3 and 4.
- 8. <u>"Placarding"</u>: Each inoperative item must be placarded to inform and remind the crew members and maintenance personnel of the equipment condition. To the extent practicable, placards should be located adjacent to the control or indicator for the item affected such that it is clear to the operating crew that it or its associated system is inoperative.
 - NOTE: The practice of specifying which items must be placarded, by means of an asterisk (*), has been discontinued.
- 9. <u>"Inoperative"</u>: A system or item of equipment is deemed inoperative if it malfunctions such that it does not accomplish its intended purpose and/or is not consistently functioning within its designed operating limit(s) or tolerance(s).
- 10. "(O)": The use of this symbol in Column 5 indicates that an appropriate operating procedure (or change to an existing procedure) must be established, published and utilised to maintain the required level of safety while operating under the terms of the (M)MEL.
 - Normally, these procedures are accomplished by the flight crew. However, other personnel may be qualified and authorised to perform certain functions.
- 11. "(M)": The use of this symbol in Column 5 indicates that an appropriate maintenance procedure must be established, published and utilised prior to the first flight undertaken following discovery of the defect and, if necessary, repeated at specified intervals during operation under the terms of the (M)MEL to maintain the required level of safety.
 - Normally, these procedures are accomplished by maintenance personnel. However, other personnel may be qualified and authorised to perform certain functions.
 - NOTE: Where an item is annotated (O)/(M), the "/" is defined as "and/or", which shows that there may be different options available in respect of the MEL procedures.
- 12. <u>"As required by Air Navigation Legislation / Operating Requirements"</u>: The associated item must comply with legal provisions such as the Air Navigation Order or any other legislation (**EU-OPS**) in force during the flight.
 - Operators should refer to the JAR-OPS 1 MEL Policy document (Temporary Guidance Leaflet number 26) for suitable alleviations based upon the required equipment identified within **EU-OPS**, subparts K and L (published in the JAA Administrative and Guidance, section four, Operations, part three).

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DEFINITIONS (Cont.)

- 13. <u>"VMC" and "IMC"</u>: The definitions of these terms are those used in Section 2 of the Air Navigation Order Rules of the air.
- 14. <u>"Icing Conditions"</u>: An atmospheric condition that may cause ice to form on the aircraft or in the engines.
- 15. <u>"Visible Moisture"</u>: An atmospheric environment containing water in any form that can be seen in natural or artificial light, i.e. clouds, fog, rain, sleet, hail, snow.
- 16. <u>"Flight Hour"</u>: The time from the moment an aircraft leaves the surface of the earth until it touches it at the next point of landing.
 - NOTE: The definition differs from that given in the Air Navigation Order.
- 17. <u>"Flight"</u>: For the purpose of a MEL, a flight is the period of time between the moment when an aeroplane begins to move by its own means, for the purpose of preparing for take-off, until the moment the aeroplane comes to a complete stop on its parking area, after the subsequent landing (and no subsequent take-off).
- 18. <u>"ETOPS</u>": Refers to "extended range" operations which may be defined as "operation of a two-engined aeroplane over a route that contains a point farther than one hour flying time at the normal one-engined inoperative cruise speed (in still air) from an adequate airport".
 - In the MEL, for an operator who has received approval to extend maximum diversion time from 120 minutes to 138 minutes, unless otherwise stated, "120 minutes" may be interpreted as "138 minutes".
- 19. <u>"Flight day"</u>: A 24 hour period (from midnight to midnight) during which at least one flight is scheduled for the affected aircraft.
- 20. <u>"Authority"</u>: The competent regulatory authority according to the country of registry; for aircraft registered in the U.K. this is the Civil Aviation Authority.
- 21. <u>"It is not reasonably practical to repair or replace before the commencement of flight / It is not reasonably practicable for repairs or replacements to be made"</u>: These statements are intended to cover situations where there is a lack of a replacement part(s), inadequate engineering resources or manpower to enable the defect to be rectified.
 - NOTE: The intention of either of these statements in an MMEL is that the aircraft may be dispatched if there are inadequate available spares or if there are no qualified and authorised personnel on base to perform the task. The definition is not dependent on whether there is enough time available to complete the task before the next flight. If the aircraft is at a maintenance base or any other airport, but the spare(s) or manpower are not available, then the aircraft may be dispatched. As soon as the aircraft lands at an airport where the spares are available and there are qualified and authorised personnel on base, the defect must be rectified.

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DEFINITIONS (Cont.)

22. "The aircraft may depart on the flight or series of flights for the purpose of returning directly to a base where repairs or replacements can be made / the aircraft may continue the flight or series of flights but shall not depart an airport where repairs or replacements can be made": These statements are intended to allow the aircraft to be flown, using the most direct route, to the nearest maintenance base where arrangements for repairs or replacements can be made.

NOTE: Once the aircraft lands at the maintenance base, the aircraft shall not be dispatched until the defect has been rectified.

23. "Combustible (Material)": is defined as material which is capable of catching fire and burning.

When an MMEL item specifies the condition that only non-combustible materials are to be carried, it is the operator's responsibility to determine that all material (<u>including containers</u>, <u>packing material and pallets etc</u>) in the associated compartments is of a non-combustible nature.

If it cannot be determined whether any proposed cargo is non-combustible, it must not be loaded in compartments where combustible materials are prohibited.

- 24. <u>"System"</u>: System means the group of directly related components which together performs a specified function, for example 'RPM indication system' would include the RPM indicator, tachometer generator, circuit breaker and associated circuitry.
- 25. <u>"Extended Over-water Flight"</u>: Refers to an operation over water at a horizontal distance of more than 50 nautical miles from the nearest shoreline.
- 26. "Dispatch": The point at which an aircraft first moves under its own power for the purpose of commencing a flight.

NOTE: The definition above is in accordance with that given in Article 256(1)(a) of the ANO. The MMEL/MEL applies to all defects identified that occur upto the point of dispatch. They come into effect again when the aircraft next comes to rest at the end of its flight.

- 27. Base documents used for the preparation of this MMEL Supplement are:
 - (a) FAA Dornier 228 MMEL at Revision 7, dated 27 May 2007.
 - (b) CAA Policy as at 22 March 2011.
 - (c) CAA MMEL Supplement for the Dornier 228 at Revision 0, dated 27 August 2004.

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HIGHLIGHTS OF REVISION 1

<u>General</u>	The CAA MMEL Supplement has been updated principally to align with Revision 7 of the FAA MMEL, dated 29 May 2007.						
Introduction	Item 4 – Added reference to '14 CFR'.						
	Item 5 – Amended to indicate MMEL, dated 29 May 2007.	that the base document is now Revision 7 of the FAA					
<u>Preamble</u>	Item 4 – Editorial correction to	o last sentence.					
	Item 10 – Correction in last se	entence to specify MEL, not MMEL.					
<u>Definitions</u>	Item 3 – 'NOTE' moved to en	d of item and revised in accordance with CAA policy.					
	Item 6 – Additional information	on.					
	Item 12 – Amended to reflect	introduction of EU-OPS.					
	Item 26 – Air Navigation Order reference updated.						
ATA 22	AUTO FLIGHT						
22-3	Autopilot Disconnect	The FAA MMEL at Revision 7 is acceptable.					
ATA 23	COMMUNICATIONS						
23-13	Emergency Locator Transmitter	Item relocated from 25-6, in line with FAA MMEL and revised in line with JAA (EASA) policy.					
23-14	Hand-Held Microphones	Item re-numbered (was 23-12).					
ATA 25	EQUIPMENT/FURNISHING	<u>S</u>					
25-3	Passenger Seats	Revised in line with FAA MMEL. Added new subitems 2) and 3).					
25-6	Emergency Locator Transmitter	Item moved to 23-13, in line with FAA MMEL.					
25-9	Passenger Convenience Items	Added Note 2 re Non-Essential Equipment and Furnishings (NEF).					
25-10	Emergency Medical Equipment	New supplement entry.					
25-15	Flight Crew Smoke Protection Equipment	Item deleted – refer to item 35-2.					

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HIGHLIGHTS OF REVISION 1 (Cont.)

ATA 26	FIRE PROTECTION	
26-5	Lavatory Smoke Detection System	1 st relief, removed proviso to electrically isolate lavatory compartment. Proviso c) revised to limit use to crew members.
ATA 30	ICE AND RAIN PROTECTION	<u>ON</u>
30-4	Pitot Heater	Proviso a) revised, new proviso b), last proviso now becomes c).
30-8	Pitot Heat Failure Indication System	New supplement entry.
ATA 33	<u>LIGHTS</u>	
33-6	Navigation/Position Lights	New supplement entry in accordance with JAA (EASA) policy.
33-10	Passenger Cabin Lighting	Revised to delete "Some lights".
ATA 34	NAVIGATION	
34-4	ATC Transponder	New supplement entry.
34-19	ACAS II	Added sub-items 5) Audio Functions, and 6) Airspace Selection Function, in line with FAA MMEL.
34-26	Standby Attitude Indicator	New supplement entry.
34-27	Altimeters	Item re-numbered (was 34-26).
34-28	Airspeed Indicators	Item re-numbered (was 34-27).
34-29	Attitude Indicators	Item re-numbered (was 34-28).
ATA 35	OXYGEN	
35-2	Protective Breathing	New supplement entry.
ATA 46	INFORMATION SYSTEMS	
46-2	Electronic Flight Bag	New supplement entry.

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CAA Supplement to FAA MMEL				DATE 27 August 2004 S			
(1) Sys	stem & Sequence Numbers	(2) F	Rectification Interval				
Item			(3) N	lumbe	r installed		
		(4) Number required for dispatch					
					(5) Remarks or Exceptions		
21	AIR CONDITIONING						
10.	Avionics Pedestal Fan	-	1	1	Must be operative.		
11.	Radio Rack Fan	-	1	1	Must be operative.		

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	CAA Supplement to FAA MM	IEL	DATE 22 March 2011 S2					
(1) Sys	stem & Sequence Numbers	(2) F	Rectific	ctification Interval				
Item			(3) N	lumbe	er installed			
		(4) Number required for dispatch						
		(5) Remarks or Exceptions						
22	AUTO FLIGHT							
2.	Yaw Damper	С	1	0	(M) May be inoperative pro			
3.	Autopilot Disconnect	-	-	-	The FAA MMEL at Revision	n 7 is acceptable.		

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AIRCR	AFT: DORNIER 228	101	REV DAT	ISION		PAGE S23-1
(1) Sva	CAA Supplement to FAA MM stem & Sequence Numbers				22 March 2011 Interval	323-1
Item	sterri & Sequence Numbers	(2) 1			er installed	
Itom			(0) 1		lumber required for dispatch	
				(. , .	(5) Remarks or Exceptions	
23	COMMUNICATIONS					
2.	Audio Amplifier	-	2	2	Both must be operative.	
3.	Passenger Address System	D	1	0		
4.	Audio Selector and Intercom Unit	С	2	-	An operative intercom and au required for each crew member deck duty.	
8.	Cockpit Voice Recorder (CVR) System	-	-	-	As required by Operating Re	quirements.
9.	Headsets (including Boom Microphones)	D	-	-	One headset (including boon must be operative for each calling flight deck duty. Any in excess required may be inoperative.	rew member on ss of those
11.	High Frequency (HF) Communications System (If installed)	D	-	-	Any in excess of those requinoperative.	red may be
13.	Emergency Locator Transmitter (ELT)					
	(1) Survival ELT(S)	D	-	-	(M) Any in excess of the minimal be inoperative or missing properties of the minimal be inoperative or missing properties of the minimal beautiful or missing the	ovided the erative, removed nd placed out of
	(2) Fixed ELT	А	-	0	May be inoperative provided replacements are made withi or 25 flying hours, whichever	n 6 further flights
		D	-	-	Any in excess of those required Requirements may be inoperated	, <u>.</u>
	ADDITIONAL ITEM					
14.	Hand Held Microphones	D	-	-	Any or all may be inoperative	.

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CAA Supplement to FAA MMEL			Е	27 August 2004	S24-1
(1) System & Sequence Numbers	(2) R	Rectific	cation	Interval	
Item		(3) N	lumbe	er installed	
			(4) N	lumber required for dispatch	
				(5) Remarks or Exceptions	
24 ELECTRICAL POWER					
5. Generator Caution Lights	-	2	2	Both must be operative.	

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(1) 5	System & Sequence Numbers		Rectification Interval						
Item	,	(2) 1		(3) Number installed					
пеш			(3) 1		Number required for dispatch				
				(4) 1	(5) Remarks or Exceptions				
25	EQUIPMENT/FURNISHINGS				(5) Remarks of Exceptions				
1.	Flight Crew Seats								
	Vertical and Recline Adjustment	В	-	0	(M) May be inoperative provide seat is secured or locked in acceptable to the flight crew	a position			
	2) Horizontal Adjustment	-	-	-	Must be operative for each fl	light crewmember.			
2.	Cockpit Crewmember Shoulder Harnesses	В	2	1	Right seat shoulder harness m single pilot operations. Right si be unoccupied.	, ,			
	1) Inertia Reels	Α	-	-	May be inoperative provided	:			
					a) The affected harness is ac by an approved means to requirements of the indivi Member, and	suit the			
					b) Repairs or replacements a three calendar days.	are made within			
3.	Passenger Seats	D	-	-	May be inoperative provided:				
					a) Seat does not block an eme	rgency exit,			
					b) Seat does not restrict any paracess to the main aircraft a	•			
					c) The affected seat(s) are bloc "DO NOT OCCUPY".	cked and placarded			
					Note: A seat with an inoperative shoulder harness is con inoperative.				
	1) Recline Mechanism	D	-	-	May be inoperative and seat o seat is secured in the full uprig				
					(Cont)				

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CAA Supplement to FAA (1) System & Sequence Number			DATE 22 March 2011 S25-2 Rectification Interval				
Item	(_, :		(3) Number installed				
		` ´	(4) N	lumber required for dispatch			
				(5) Remarks or Exceptions			
25 EQUIPMENT/FURNISHING	3S						
Passenger Seats (Cont.)						
Underseat Baggage Restraining Bars	D	-	-	(O) May be inoperative or mis	sing provided:		
restraining bars				a) Baggage is not stowed und	er associated seat,		
				b) Associated seat is placarde BAGGAGE UNDER THIS S			
				c) Procedures are established of inoperative restraining bases			
3) Armrests	D	-	-	(M) May be inoperative or miss	sing provided:		
				(a) Armrest does not block an	emergency exit,		
				(b) Armrest does not restrict ar access to the main aircraft			
				(c) For an armrest with a reclin is secured in the upright po	*		
6. Aircraft Emergency Locator Transmitter (ELT) (If installed)				Item moved to 23-13			
9. Passenger Convenience Items	-	-	-	Passenger convenience items MMEL, are those related to pa convenience, comfort or entert not limited to, galley equipment an lamps, etc. Items addressed edocument shall not be included procedures may be required a carrier's appropriate document	ssenger ainment such as, but t, movie equipment, d overhead reading sewhere in this d. (M) and (O) nd included in the air		
				Note 1: Lavatory door ashtre external) are not convenience items.	•		
				Note 2: NEF deferral progra	m not applicable.		

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CAA Supplement to FAA MMEL (1) System & Sequence Numbers (2) F		DATE		22 March 2011	S25-3			
Item		(2) F	Rectification Interval (3) Number installed					
ROTT			(4) Number required for dispatch					
		(5) Remarks or Exceptions						
25 EQUIPMENT/FURNISHINGS								
10.	Emergency Medical Equipment							
	Automatic External Defibrillator (AED) and/or Associated Equipment	D	-	-	Any in excess of those required Requirements may be incomple inoperative.			
Emergency Medical Kit and/or Associated Equipment		A	-	-	Required Emergency Medical Kit(s) may be incomplete for flight to a destination where repairs or replacements can be made but not to exceed 2 calendar days.			
		D	-	-	Any in excess of those required Requirements may be incomplinoperative.			
	 First Aid Kit and/or Associated Equipment 	Α	-	-	If more than one is required, or required First Aid Kits may be maximum of 2 calendar days			
		D	-	-	Any in excess of those required Requirements may be incomplinoperative.			
14.	Cargo Restraint Systems (If installed)	D	-	-	(M) May be inoperative or missing acceptable cargo loading limits a source, i.e., an approved Cargo Cargo Handling Manual or Weig Manual are presented in a form the Authority and observed.	from an approved Loading Manual, ght and Balance		
		D	-	-	(M) May be inoperative or missi associated cargo compartment			
	ADDITIONAL ITEM							
15.	Flight Crew Smoke Protection Equipment (Basic and Portable)	-	-	-	Item deleted. Refer to Item 35	j-2		

MASTER MINIMUM EQUIPMENT LIST

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CAA Supplement to FAA MMEL			DATE 27 August 2004 S26-1					
(1) System & Sequence Numbers Item			Rectification Interval (3) Number installed					
пеп	I		(3) 1	(4) Number required for dispatch				
				(4) 1	(5) Remarks or Exceptions			
26 FIRE PROTECTION					(5) Remarks of Exceptions			
4	. Lavatory Fire Extinguisher (If installed)	С	-	0	Any or all may be inoperative.			
5.	Lavatory Smoke Detection System (If installed)	С	-	-	(M) May be inoperative provided:			
					a) Lavatory waste receptacle is empty,			
					b) Lavatory door is locked and placarded "INOPERATIVE-DO NOT ENTER", and			
					c) Lavatory is used only by crew members.			
		В	-	-	(O)/(M) May be inoperative provided:			
					a) Lavatory compartment fire extinguishers are fitted and checked to be operative on a daily basis, and			
					b) Lavatory compartment is checked at 20 (twenty) minute intervals for evidence of fire and smoke.			
					Note 1: These provisos are not intended to prohibit lavatory use or inspections by crew members.			
					Note 2: A lavatory Smoke Detection System is not required for all-cargo operations.			

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CAA Supplement to FAA MMEL			DATE 27 August 2004 S2			
(1) System & Sequence Numbers						
Item						
LIGHT CONTROLS				(5) Remarks or Exceptions		
Flap Position Indicator	-	1	1	Must be operative.		
Trim Tab Position Indicator (Rudder)	В	1	0	May be inoperative provided:		
				a) Tab is visually checked for f operation,	ull range of	
				b) Tab operation is not impaired, and		
Trim Tab Position Indicator (Aileron)	В	1	0	May be inoperative provided:		
				a) Trim is visually checked for operation,	full range of	
				b) Trim operation is not impaire	ed, and	
	CAA Supplement to FAA MNstem & Sequence Numbers LIGHT CONTROLS Flap Position Indicator Trim Tab Position Indicator (Rudder)	CAA Supplement to FAA MMEL stem & Sequence Numbers (2) F LIGHT CONTROLS Flap Position Indicator Trim Tab Position Indicator (Rudder) Trim Tab Position B Trim Tab Position	CAA Supplement to FAA MMEL Stem & Sequence Numbers LIGHT CONTROLS Flap Position Indicator Trim Tab Position Indicator (Rudder) Trim Tab Position B 1 Trim Tab Position B 1	CAA Supplement to FAA MMEL Stem & Sequence Numbers (2) Rectification (3) Number (4) N LIGHT CONTROLS Flap Position Indicator Trim Tab Position Indicator (Rudder) Trim Tab Position Flap Position Flap Flap Position Flap Flap Position Flap Flap Flap Position Flap Flap Flap Flap Flap Flap Flap Flap	CAA Supplement to FAA MMEL Stem & Sequence Numbers (2) Rectification Interval (3) Number installed (4) Number required for dispatch (5) Remarks or Exceptions Flap Position Indicator Trim Tab Position Indicator (Rudder) B 1 0 May be inoperative provided: a) Tab is visually checked for foperation, b) Tab operation is not impaire c) Tab is positioned to neutral departure and neutral position visual inspection. Trim Tab Position Indicator (Aileron) B 1 0 May be inoperative provided: a) Trim is visually checked for operation, b) Trim operation is not impaire c) Trim is positioned to neutral question, c) Trim is positioned to neutral question, c) Trim is positioned to neutral question.	

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CAA Supplement to FAA MM	1EL	DAT	E		27 August 2004	S28-1	
(1) System & Sequence Numbers	(2) F	Rectific	cation	Interva	al		
Item		(3) N	lumbe	er insta	lled		
			(4) N	lumber	lumber required for dispatch		
			(5) Remarks or Exceptions				
28 FUEL SYSTEM							
4. Pressure Refuelling System	С	1	0	the a	be inoperative. If full t ircraft must be refuell Pilots Operating Hand edure.	ed in accordance	

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CAA Supplement to FAA MM			DATE 22 March 2011 S30-1 ectification Interval					
(1) System & Sequence Numbers	(Z) F							
Item		(3) 1		er installed Number required for dispatch				
			(4) 1	(5) Remarks or Exceptions				
30 ICE AND RAIN PROTECTION				(5) Remarks of Exceptions				
OU TOL AND KAIRT KOTLOTTON								
4. Pitot Heater	В	2	1	(O)/(M) One may be inoperative for day VMC, or single-pilot operations under IFR or at night provided:				
			a) The remaining pitot heater is verified to be operative prior to each flight,					
				b) For single-pilot operations under IFR or at night, the operative pitot heater is on the pilot's side, and				
				c) The aircraft is not operated in known or forecast icing conditions.				
8. Pitot Heater Failure Indication System								
1) Day VFR Operations	D	-	0	May be inoperative				
1) IFR or Night Operations	В	-	1	(O)(M) Any in excess of one may be inoperative, provided:				
				a) The associated heater is verified to operate normally prior to each flight,				
				b) Flight is conducted under VMC, and				
				c) The aircraft is not operated in known or forecast icing conditions.				

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	CAA Supplement to FAA MM	IEL	DATE			27 August 2004	S31-1		
(1) Sy	stem & Sequence Numbers	(2) F	Rectific	cation	Interva	ıl			
Item			(3) Number installed						
				(4) N	Number	required for dispatch			
			(5) Remarks or Exceptions						
31	INDICATING/RECORDING SYSTEMS								
1.	Clocks	С	2	0	àccu	oth may be inoperative rate time piece is avail indicating the time in ands.	able on the flight		
4.	Flight Data Recorder (FDR)	-	-	-	As re	quired by Operating R	equirements.		

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CAA Supplement to FAA MMEL				Ε		27 August 2004	S32-1		
(1) Sy	stem & Sequence Numbers	(2) F	Rectification Interval						
Item			(3) Number installed						
			(4) Number required for dispatch						
			(5) Remarks or Exceptions						
32	LANDING GEAR								
1.	Nosewheel Steering	С	1	0	(O)(N	l) May be inoperative pr	ovided:		
					a) No	sewheel is in bypass m	ode, and		
						ots Operating Handboo			
					ор	eration in the bypass m	ode are observed.		

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(4) 0:::	CAA Supplement to FAA MM		DAT		22 March 2011	S33-1				
, , ,	stem & Sequence Numbers	(2) F		ectification Interval (3) Number installed						
Item			(3) 1							
			(4) Number required for dispatch (5) Remarks or Exceptions							
33	LIGHTS				(5) Remarks of Exceptions					
33	LIGHTO									
1.	Flight Compartment and Instrument Lighting System	С	-	0	One or more may be inoper operations.	rative for daylight				
	,	С	-	-	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) Sufficient flight deck emergency lighting is operative, and					
					c) Lighting configuration and acceptable to the flight cre					
		С	-	-	Co-pilot's station instrume inoperative for single pilot no co-pilot's station instruments used by the pilot.	operation, provided				
3.	Landing Lights	В	2	1	One may be inoperative for n	night operations.				
		С	2	0	Both may be inoperative for o	day operations.				
5.	Anti-collision Light System	С	1	0	May be inoperative for daylig operations provided the lig at the earliest practicable of	ht(s) is(are) repaired				
					Note: If the red anti-collision is inoperative, alternative must be developed a aircraft is on the grounning.	ative procedures nd used when the				
6.	Navigation/Position Lights	С	-	0	One or more may be inoper operations.	rative for daylight				
		С	-	-	Any in excess of those requinoperative for night operation					

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• • • • • • • • • • • • • • • • • • • •								
stem & Sequence Numbers	(2) F							
		(4) Number required for dispatch						
			(4) 1	(5) Remarks or Exceptions				
LIGHTS		(3) Nemarks of Exceptions						
Wing Illumination Lights	D	-	0	May be inoperative for daylight operations.				
	В	-	0	(O) May be inoperative for night operations provided an alternative means of illumination is available and used to determine whether ice is accreting on the wing.				
Logo Lights	D	2	0					
Passenger Cabin Lighting	С	-	-	May be inoperative provided:				
				a) Lighting is acceptable for the cabin crew to perform their required duties, and				
				b) Cabin emergency lighting is operative.				
	D	-	-	May be inoperative provided passengers are not carried.				
Additional Entry								
Floor Proximity Escape Path Marking System (If installed)	-	1	1	Specific lights/strips may be inoperative for a particular lighting configuration as agreed by the Authority.				
	CAA Supplement to FAA MIV stem & Sequence Numbers LIGHTS Wing Illumination Lights Logo Lights Passenger Cabin Lighting Additional Entry Floor Proximity Escape Path Marking System (If	CAA Supplement to FAA MMEL stem & Sequence Numbers (2) F LIGHTS Wing Illumination Lights D B Logo Lights D Passenger Cabin Lighting C Additional Entry Floor Proximity Escape Path Marking System (If	CAA Supplement to FAA MMEL stem & Sequence Numbers LIGHTS Wing Illumination Lights D - Logo Lights Passenger Cabin Lighting D - Additional Entry Floor Proximity Escape Path Marking System (If	CAA Supplement to FAA MMEL stem & Sequence Numbers LIGHTS Wing Illumination Lights D D D Logo Lights Passenger Cabin Lighting D D Additional Entry Floor Proximity Escape Path Marking System (If				

AIRCR	/FI	DAT	'ISION F	NO Revision 1 22 March 2011	PAGE S34-1	
(1) Svs	CAA Supplement to FAA MN stem & Sequence Numbers				Interval	
tem		(-)			er installed	
			(0)		Number required for dispatch	
				()	(5) Remarks or Exceptions	
34	NAVIGATION				(0, 100.000000000000000000000000000000000	
1.	Gyroscopic Rate of Turn and Slip / Skid Indicator					
	Single pilot operations	В	2	0	One or both may be inopera only, provided the slip indic	
		С	2	0	One or both may be inopera slip indicator is operative attitude indicator is installed	nd a standby
	2) Two pilot operations		2	1	Either indicator may be inor standby attitude indicator is operative.	
		В	2	1	Captain's indicator may be in VMC only provided both attempts operative.	
		В	2	1	Co-pilot's indicator may be provided both attitude indic	
		В	2	0	One or both may be inopera slip indicator and three inde indicators are operative.	
2.	Vertical Speed Indicator					
	Single pilot operations	С	2	1	Co-pilot's VSI may be inope operative VSI is on the com	
	2) Two pilot operations	С	2	1	Either may be inoperative for VMC.	or operations in day
4.	ATC Transponders and Automatic Altitude Reporting Systems	-	-	-	As required by Operating Ro	equirements.
5.	Marker Beacon	В	2	0	One or both may be inoperat operations, provided approach require marker fixes.	
		D	2	0	One or both may be inoperations.	ative for VFR

AIRCR	AFT: DORNIER 228		REVISION NO Original Issue PAGE						
(1) Svs	CAA Supplement to FAA MM stem & Sequence Numbers		DATE 27 August 2004 S34-2 Rectification Interval						
Ìtem	•			lumbe	er installed				
			(4) Number required for dispatch						
34	NAVIGATION				(5) Remarks or Exceptions				
7.	Flight Director (If installed)	С	2	0	Both may be inoperative prov	rided:			
					a) Approach minimums do no and	ot require its use,			
					b) Conditions for an inoperati applied, refer to item 22-1.	ve autopilot are			
12.	Radio Altimeter	С	1	0	May be inoperative.				
					Note 1: If the loss of the radio prohibits the normal of GPWS / TAWS, the distant rectification inter inoperative GPWS / Tobserved.	operation of the spatch deviation val for an			
					Note 2: If the loss of the radio prohibits normal oper ACAS, the dispatch d rectification interval for ACAS must be observed.	ration of the eviation and or an inoperative			
13.	Altitude Alerting System	В	-	0	(O) May be inoperative provid with an altitude hold is operate	-			
14.	ADF	D	-	-	Any in excess of those required inoperative.	may be			
		В	-	0	May be inoperative provided:				
					a) Alternative approved navig is operative, and	ational equipment			
					b) The ADF is not required for routes to be flown.	r the planned			
					Note: The ADF may be operated timing functions (i.e. Elap Time, Stop Watch, etc.) to ADF navigation.	sed Time, Flight			
15.	RMI	-	-	-	Refer to item 34-17.				

AIRCR	AIRCRAFT: DORNIER 228			REVISION NO Revision 1 PAGE					
(1) 2	CAA Supplement to FAA MM			DATE 22 March 2011 S34-3					
` '	stem & Sequence Numbers	(2) F		ectification Interval (3) Number installed					
Item			(3) N						
				(4) N	Number required for dispatch (5) Remarks or Exceptions				
34	NAVIGATION (Cont.)				(5) Kemarks of Exceptions				
16.	Non-stabilised Magnetic Compass	В	1	0	May be inoperative provided at least two independent stabilised compass systems are installed and operative.				
17.	Stabilised Directional Indicator System	-	-	-	As required by Operating Req	uirements.			
19.	Airborne Collision Avoidance System (ACAS II)								
	1) ACAS II System	A	-	0	(O)(M) May be inoperative provi deactivated and secured, and:	ded the system is			
					a) It is not reasonably practical replacements to be made be commencement of flight, and	efore the			
					b) Repairs or replacements ar within 10 calendar days.	e carried out			
	2) Combined Traffic Alert (TA) and Resolution Advisory (RA) Dual Displays	С	-	1	(O) May be inoperative on the naprovided TA and RA elements are operative on the flying pilot s	and audio functions			
	3) Resolution Advisory (RA) Display System(s)	С	-	1	(O) One may be inoperative on side.	the non-flying pilot			
	System(s)	С	-	0	(O) May be inoperative provided	l:			
					a) All Traffic Alert (TA) display e command audio functions ar				
					b) TA only mode is selected by t	he crew.			
	4) Traffic Alert (TA) Display System(s)	С	-	0	(O) May be inoperative provided display and audio functions are				
	5) Audio Functions	-	1	-	Must not be inoperative in iso ACAS II system as a whole. T be operative in order to conside system operative.	his function must			
	Airspace Selection Function (If installed)	С	-	0	May be inoperative.				

AIRCR	AFT: DORNIER 228		REVISION NO Revision 1 PAGE						
(1) Sys	CAA Supplement to FAA MM		DATE 22 March 2011 S34-4 ectification Interval						
Item	stem & Sequence Numbers	(2) F		(3) Number installed					
110111			(4) Number required for dispatch						
					(5) Remarks or Exceptions				
34	NAVIGATION (Cont.)								
20.	Ground Proximity Warning System (GPWS) (Including TAWS)	-	-	-	As required by Operating Requirements.				
22.	Windshear Warning and Flight Guidance System (Reactive) (If installed)	D	-	0	(O) May be inoperative provided alternate procedures are established and used.				
23.	Windshear Detection and Avoidance System (Predictive) (If installed)	D	-	0	May be inoperative.				
24.	Navigation Databases (If installed)								
	Flight Management System	Α	-	-	- (O) May be out of currency provided:				
	Gyoto				a) Current aeronautical informa verify Navigation Fixes prior to				
					b) Procedures are established to suitability of Navigation Facili route of flight, and				
					c) The navigation database is current standard within 10	-			
	Navigation Management System	Α	-	-	(O) May be out of currency prov	rided:			
					a) Current aeronautical information verify Navigation Fixes prior to the second s				
					b) Procedures are established to suitability of Navigation Facili route of flight, and	•			
					c) The navigation database is current standard within 10				
25.	Automatic Dependent Surveillance – Broadcast (ADS-B)	D	-	-	Any in excess of those requir inoperative.	ed may be			

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(1) (2)	CAA Supplement to FAA MM		DAT		22 March 2011 Interval	S34-5				
Item	stem & Sequence Numbers	(2) F			er installed					
пеш			(3) 1		Number required for dispatch					
				(5) Remarks or Exceptions						
34	NAVIGATION (Cont.)				(b) Remarks of Exceptions					
	interesting (comm)									
26.	Standby Attitude Indicator									
	1) Single Pilot Operations	В	-	0	May be inoperative for day VMC only provided the commander's attitude indicator is operative.					
	2) Two Pilot Operations	В	-	0	May be inoperative for day VMC only provided both attitude indicators are operative.					
	Additional Entries									
27.	Altimeters	-	-	-	As required by Operating Re	equirements.				
28.	Airspeed Indicators	-	-	-	As required by Operating Re	equirements.				
29.	Attitude Indicators	-	-	-	As required by Operating Re	equirements.				
	CARGO ONLY – SINGLE PILOT ONLY									
1.	Airspeed Indicator	-	-	-	As required by Operating Re	equirements.				
2.	Gyroscopic Bank and Pitch Indicator System	-	-	-	As required by Operating Re	equirements.				
3.	Gyroscopic Direction Indicator System	-	-	-	As required by Operating Re	equirements.				
4.	Gyroscopic Directional Indicator Slaving System	-	-	-	As required by Operating Re	equirements.				
5.	Altimeter, Barometric Pressure, Adjustable	-	-	-	As required by Operating Re	equirements.				

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	CAA Supplement to FAA MM			DATE 22 March 2011 S35-1					
(1) Sy:	stem & Sequence Numbers	(2) F	Rectification Interval						
Item			(3) N		r installed				
			(4) Number required for dispatch						
		(5) Remarks or Exceptions							
35	OXYGEN								
2.	Protective Breathing Equipment (PBE)	D	-	-	(M) (O) Any in excess of tho inoperative or missing provi				
		(a) Required distribution of operative PBE using maintained throughout the aircraft,							
		(b) The inoperative PBE and its installed location is placarded inoperative,							
					(c) The inoperative PBE is re aircraft, or remains in an and				
					(d) Procedures are establish alert crew members of in missing equipment.				
					Note: PBE which cannot be approved stowage is subject requirements of the Internat Organization's Technical Installation Safe Transport of Dangerou	t to the ional Civil Aviation structions for the			

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CAA Supplement to FAA MM	DATE			22 March 2011	S46-1				
(1) System & Sequence Numbers	Rectific	ectification Interval							
Item		(3) N	(3) Number installed						
	(4) Number required for dispatch								
	(5) Remarks or Exceptions								
46 INFORMATION SYSTEMS									
Electronic Flight Bag (EFB) System (If installed)	-	-	-	As re	equired by Operating	g Requirements.			

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CAA Supplement to FAA MMEL				E		27 August 2004	S52-1				
(1) System & Sequence Numbers (2) R				ectification Interval							
Item			(3) Number installed								
		(4) Number required for dispatch									
		(5) Remarks or Exceptions									
52	DOORS										
2.	Pilots' Door Handles (inside/outside)	-	2	2	Both	must be fully operative					

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CAA Supplement to FAA MMEL			DATE			27 August 2004	S73-1		
(1) Sys	stem & Sequence Numbers	(2) F	Rectific	ctification Interval					
Item			(3) Number installed						
			(4) Number required for dispatch						
					(5) Re	emarks or Exceptions			
73	ENGINE FUEL AND CONTROL								
	Additional Entry								
2.	Fuel Flow Indicator	С	2 1 One may be inoperative provided:						
					,	other engine indicatio rmally, and	ns are operating		
			a) Both fuel quantity indicators operate normally.				ors operate		

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CAA Supplement to FAA MMEL				Ε	S77-1						
(1) Sys	stem & Sequence Numbers	(2) F	Rectific	ectification Interval							
Item			(3) Number installed								
			(4) Number required for dispatch								
			(5) Remarks or Exceptions								
77	ENGINE INDICATING										
		_									
1.	Torque/ITT Limiter	С	2	2 0 (O) One or both may be inoperative provided:							
	(-5/5A engines only)										
			a) Pilots Operating Handbook Torque / ITT limitations are not exceeded,								
			b) ITT and Torque indicators are operating normally, and				rs are operating				
			c) Inoperative ITT / Torque Limiter is switch off.								

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CAA Supplement to FAA MMEL			DATE			27 August 2004	S79-1			
(1) System & Sequence Numbers (2) Re				ectification Interval						
Item	•		(3) N	lumbe	er insta	r installed				
			(4) Number required for dispatch							
				, ,	(5) Re	emarks or Exceptions				
79	OIL									
	Additional Entry									
1.	Oil Pressure and Temperature Indicator	С	2 1 One may be inoperative provided:							
			a) Associated oil pressure warning is operative,							
			b) Minimum temperature limit for engine start observed, and				mit for engine start is			
					rec	sociated engine oil ta commended capacity anufacturer's Maintena	in accordance with			

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