



Transport
Canada

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TRANSPORT CANADA

MMEL SUPPLEMENT

TO

CE-425/441

MASTER MINIMUM EQUIPMENT LIST


A. HARTONO, 26 APR 2019

FR

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Chief, Flight Test
National Aircraft Certification
for Minister of Transport

April 26, 2019
Revision: 02

Canada 

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Log of Revisions

Revision No.	Date	Page Number	Initials
Original	Dec. 15, 1997	All	
01	Jan. 15, 2004	All	
02	Apr. 26, 2019	All	

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Reasons for Changes

General	<ol style="list-style-type: none">1. Revision 02 to this TC MMEL Supplement (TCS) is in alignment with the following documents:<ol style="list-style-type: none">a. FAA MMEL Revision 7b. TC MMEL Guidance Book (GB) Revision 7c. TC MMEL Global Changes 6 and 112. All pages have been reformatted and re-dated.
Item No.	
21-30-02	New item. Altitude restricted to 10,000 MSL as per GB item 21-30-1.
21-32-01	Renumbered (from 21-11), revised item title, and deleted. Refer to FAA MMEL.
21-32-02	Renumbered (from 21-12), revised item title, and deleted. Refer to FAA MMEL.
21-32-03	Renumbered (from 21-10) and deleted. Refer to FAA MMEL.
22-10-01	Renumbered (from 22-3), revised item title, and deleted. Refer to FAA MMEL.
22-10-03	Renumbered (from 22-1), revised item title, and deleted. Refer to FAA MMEL.
22-5 (previous)	Deleted and removed from TCS.
23-12-01	Renumbered (from 23-1), revised item title, and deleted. Refer to FAA MMEL.
23-40-03	Renumbered (from 23-3) and deleted. Refer to FAA MMEL.
23-40-04	Renumbered (from 23-6) and deleted. Refer to FAA MMEL.
23-50-01	Renumbered (from 23-5), revised item title, and deleted. Refer to FAA MMEL.
23-50-03	Renumbered (from 23-11), revised item title and Number Installed as per FAA MMEL. Minor change in proviso a) to replace "their" with "its".
23-70-01	Renumbered (from 23-2). Minor editorial changes.
23-12 (previous)	Deleted and removed from TCS.
25-20-05	Renumbered (from 25-5) and revised as per GB item 25-20-1.
25-20-06	Renumbered (from 25-2, previously deleted in Revision 1) and revised as per GB item 25-20-3.
25-60-03	New item. Sub-item -02 as per TC MMEL Global Change 6. Sub-item -03 (previous item 25-6) as per GB item 25-60-2.
25-62-01	Renumbered (from 25-4) and revised as per GB item 25-60-1.

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Reasons for Changes (cont'd)

Item No.

25-11 (previous)	Deleted and removed from TCS.
25-12 (previous)	Deleted and removed from TCS.
25-13 (previous)	Deleted and removed from TCS.
26-22-01	Renumbered (from 26-1) and revised Number Required as per FAA MMEL.
27-5 (previous)	Deleted and removed from TCS.
28-41-01	Renumbered (from 28-1), revised item title, and deleted. Refer to FAA MMEL.
28-3 (previous)	Deleted and removed from TCS.
30-30-03	Renumbered (from 30-1) and revised item title as per FAA MMEL.
31-20-02	Renumbered (from 31-1) as per FAA MMEL.
31-30-03	Renumbered (from 31-3) and reformatted. Revised -01A as per GB item 31-30-1.
33-10-01	Renumbered (from 33-4), revised item title, and reformatted as per FAA MMEL.
33-20-04	Renumbered (from 33-8), revised item title, and deleted. Refer to FAA MMEL.
33-40-02	New item as per GB item 33-40-2.
33-40-03	Renumbered (from 33-6) and revised item title/Number Installed as per FAA MMEL. Revised Number Required of second relief as per GB item 33-40-1.
33-40-10	Renumbered (from 33-5), revised item title, and deleted. Refer to FAA MMEL.
34-13-01	Renumbered (from 34-6), revised item title, and deleted. Refer to FAA MMEL.
34-14-01	New item to address regulations. Repair Interval Category and Note as per FAA MMEL.
34-16-02	New item to address regulations. Repair Interval Category and Note as per FAA MMEL.
34-21-01	New item to address regulations. Repair Interval Category and Note as per FAA MMEL.
34-22-03	Renumbered (from 34-5) and revised item title as per FAA MMEL. Deleted sub-items 1) and 2) and revised dispatch conditions.
34-23-01	Renumbered (from 34-20) and revised Number Installed/Required of third relief as per FAA MMEL.

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Reasons for Changes (cont'd)

Item No.

- | | |
|----------------------------|--|
| 34-24-01 | Renumbered (from 34-4), revised item title and Number Installed of first relief as per FAA MMEL. Revised dispatch conditions of first relief as well as added second relief as per GB item 34-20-2. |
| 34-25-03 | Renumbered (from 34-11), revised item title, and deleted. Refer to FAA MMEL. |
| 34-34-01 | Renumbered (from 34-10), reformatted, and revised item title. Added (O) in first relief. |
| 34-42-01 | Renumbered (from 34-9), revised item title, and deleted. Refer to FAA MMEL. |
| 34-44-01 | Renumbered (from 34-12), revised item title, and deleted. Refer to FAA MMEL. |
| 34-44-03 | Renumbered (from 34-23) and revised item title as per FAA MMEL. Revised relief as per GB item 34-40-2. Class B TAWS required, Terrain System, is cat B as the function is now required by regulations. |
| 34-45-01 | Renumbered (from 34-21 and 34-22), revised item title, and deleted. Refer to FAA MMEL. |
| 34-52-01 | Renumbered (from 34-13) and deleted. Refer to FAA MMEL. |
| 34-54-01 | Moved from former item 34-8 and revised as per GB item 34-50-1. |
| 34-55-01 | Renumbered (from 34-16) and revised item title as per FAA MMEL. Revised relief as per TC MMEL Global Change 11. |
| 34-57-01 | Moved from former item 34-8. Relief as per GB item 34-50-1. |
| 34-60-02 | Moved from former item 34-8. Relief as per GB item 34-50-1. |
| 34-61-01 | New item as per GB item 34-50-1. |
| 35-20-01 | Renumbered (from 35-1) and revised item title as per FAA MMEL. Revised relief as per GB item 35-20-1. |
| 35-4
(previous) | Deleted and removed from TCS. |
| 61-20-01 | Renumbered (from 61-1) and deleted. Refer to FAA MMEL. |

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Introduction

This Transport Canada MMEL Supplement constitutes a mandatory change to the FAA Approved MMEL for the CE-425/441.

This MMEL Supplement must be used in conjunction with the FAA Approved MMEL (Revision No. 7 or later applicable revision).

The information contained herein supersedes the existing FAA MMEL only for those items listed herein. For items not contained in this Supplement, consult the FAA approved MMEL.

Operating and/or maintenance procedures referred to in this Supplement are the same as those supporting the FAA MMEL unless otherwise indicated. Procedures required by the Transport Canada MMEL Supplement and not indicated in the FAA Approved MMEL must be provided by the operator.

The FAA MMEL has entries where the "Remarks or Exceptions" column makes reference to applicable FARs. Unless such an entry is superseded by an item in this Supplement, all references should be made to the applicable Canadian regulation.

This MMEL Supplement uses the standard four column format as referenced in the Transport Canada MMEL/MEL Policy and Procedures Manual (TP 9155E). The same definitions and symbols as the FAA MMEL are also used. Items which have no MMEL relief (i.e. relief withdrawn) are not categorized.

Comments and inquiries should be directed to:

Transport Canada
Chief, Flight Test – AARDC
National Aircraft Certification

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System & Sequence Numbers		1.	2.	Number Installed			
				3.	Number Required for Dispatch		
					4.	Remarks or Exceptions	
21	AIR CONDITIONING						
30-02	Cabin Pressurization System	C	1	0	(O)	May be inoperative provided: a) PRESSURIZATION SOURCE SELECTOR is selected OFF, b) CABIN PRESSURIZATION SWITCH is selected DEPRESSURIZE, c) Aircraft is operated at or below 10,000 feet MSL, and d) Flight crew oxygen system is used as required by regulations.	
32-01	Cabin Altimeter Gauge					Deleted in Revision 2 Refer to FAA MMEL	
32-02	Cabin Differential Pressure Indicator					Deleted in Revision 2 Refer to FAA MMEL	
32-03	Cabin Vertical Speed Indicator					Deleted in Revision 2 Refer to FAA MMEL	

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System & Sequence Numbers		1.	2.	Number Installed
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22 AUTO FLIGHT				
10-01 Autopilot Disconnect Button (Failed deselected)				Deleted in Revision 2 Refer to FAA MMEL
10-03 Autopilot System				Deleted in Revision 2 Refer to FAA MMEL

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				4. Remarks or Exceptions
23	COMMUNICATIONS			
12-01	Very High Frequency (VHF) Communication System			Deleted in Revision 2 Refer to FAA MMEL
40-03	Passenger Address (PA) System			Deleted in Revision 2 Refer to FAA MMEL
40-04 ***	Recorded Passenger Address System			Deleted in Revision 2 Refer to FAA MMEL
50-01	Boom Microphones			Deleted in Revision 2 Refer to FAA MMEL
50-03	Cockpit Overhead Communication Speaker	C	1	0
				May be inoperative provided: a) Procedures are not dependent on its use, b) Headsets are installed and used by each person on flight deck duty, c) All aural alerts, messages and other communication which are normally routed through the flight deck speakers must be audible through the headsets, and d) A spare headset must be readily available for crew use.

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23 COMMUNICATIONS							
70-01 Cockpit Voice Recorder (CVR)							
-00A	CVR and FDR required by regulations	A	1	0		May be inoperative provided: a) Flight Data Recorder (FDR) is operative, and b) Repairs are made within three flight days.	
-00B	CVR only required by regulations	A	1	0		May be inoperative provided repairs are made within three flight days.	
-00C	CVR not required by regulations	D	1	0		May be inoperative.	

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			4.	Remarks or Exceptions
25	EQUIPMENT/ FURNISHINGS			
20-05 ***	Passenger Convenience/ NEF Items			<p>Note 1: Operators are to select either Passenger Convenience Items or NEF (Non-Essential Equipment and Furnishings) in their MELs.</p> <p>Note 2: For operators with NEF defect rectification and control procedures, refer to sub-item -02 (NEF) only.</p>
-01	Passenger Convenience Items	-	0	<p>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, and overhead reading lamps. Items addressed elsewhere in this document shall not be included.</p> <p>(M) and (O) procedures may be required and included in the MEL.</p> <p>Note 1: Galley equipment restraining devices such as latches, etc. must be serviceable or the compartment must not be used for storage and placarded “INOPERATI-E – DO NOT USE”.</p> <p>Note 2: Movie equipment individual screens, if applicable, must be capable of being stowed.</p> <p>Note 3: Audio or audio-visual entertainment equipment which is used as the sole means of providing safety briefings and demonstrations is not considered a passenger convenience item.</p>

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25	EQUIPMENT/ FURNISHINGS				
20-05 ***	Passenger Convenience/ NEF Items (cont'd)				
-02	Non-Essential Equipment and Furnishings (NEF)	-	0		May be inoperative, damaged or missing provided that the item(s) is deferred in accordance with the operator's defect rectification and control procedures. The NEF policies are outlined in the operator's Maintenance Control Manual. (M) and (O) procedures, if required, must be available to the flight crew and included in the operator's appropriate document.
20-06	Passenger Seat	D	-	0	No change from FAA MMEL
-01A	Seat Controls	D	-	0	No change from FAA MMEL
-01B	Seat Controls	D	-	0	No change from FAA MMEL
-02	Seat Belt / Shoulder Harness	D	-	0	No change from FAA MMEL
-03	Underseat Baggage Restraining Bars	C	-	0	No change from FAA MMEL

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25	EQUIPMENT/ FURNISHINGS						
60-03	Emergency Medical Equipment						
-01 ***	Automatic External Defibrillator (AED) (Includes associated equipment)	D	-	0	(O)	May be incomplete, missing or inoperative provided procedures are established and used to alert crew members of incomplete, missing or inoperative units.	
-02 ***	Emergency Medical Kit (EMK) (Includes associated equipment)	D	-	-	(O)	Any kit or items contained in the kit in excess of those required by regulations may be incomplete or missing provided procedures are established and used to alert crew members of missing or incomplete kits.	
-03	First Aid Kit (FAK) (Includes associated equipment)	D	-	-	(O)	Any kit or items contained in the kit in excess of those required by regulations may be incomplete or missing provided: a) Required distribution is maintained, and b) Procedures are established and used to alert crew members of missing or incomplete kits.	

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			4.	Remarks or Exceptions
25	EQUIPMENT/ FURNISHINGS			
60-03	Emergency Medical Equipment (cont'd)			
-03	First Aid Kit (FAK) (Includes associated equipment) (cont'd)			
-01	First Aid Kit Seal (Required First Aid Kits)	A	-	(O) The seal affixed on the exterior of any required first aid kit may be missing or broken for three flight days provided: a) First aid kit is fully equipped or the kit has a maximum of one missing item, b) Kit includes a list of its contents, c) An inventory is taken on the contents of the kit prior to departure, and d) Procedures are established and used to alert crew members of: 1) The missing or broken seal, and 2) The need to perform an inventory under proviso c).

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25	EQUIPMENT/ FURNISHINGS				
62-01	Emergency Locator Transmitter (ELT)				
-01	Survival Type	D	-	-	Any in excess of those required by regulations may be inoperative or missing.
-02	Fixed, Automatic	A	-	-	(M) May be inoperative provided: a) Placard is displayed in the flight deck indicating the date the ELT has been removed, and b) Repair or replacement is made within the time interval prescribed by regulations.
-03	Remote Activation Switch	C	1	0	No change from FAA MMEL

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				4.	Remarks or Exceptions
26	FIRE PROTECTION				
22-01	Portable Fire Extinguisher	D	-	-	(M)(O) Any in excess of those required by regulations may be inoperative or missing provided: a) Inoperative fire extinguisher(s) is removed from the passenger cabin and flight deck, and its location is placarded "INOPERATIVE", or it is removed from the installed location, secured out of sight and the fire extinguisher and its installed location are placarded "INOPERATIVE", b) Required distribution is maintained in the passenger compartment and flight deck and c) Procedures are established and used to alert crew members of missing portable fire extinguishers.

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System & Sequence Numbers		1.	2.	Number Installed
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28 FUEL				
41-01 Fuel Low Level Indicating *** System (Warning Lights)				Deleted in Revision 2 Refer to FAA MMEL

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System & Sequence Numbers	1.	2.	Number Installed		
			3.	Number Required for Dispatch	
				4.	Remarks or Exceptions
30 ICE AND RAIN PROTECTION					
30-03 Pitot Tube Heater	B	2	1		<p>Except where enroute operations require its use, one may be inoperative provided:</p> <ul style="list-style-type: none"> a) Flight is conducted in day VMC, b) Flight is not conducted in visible moisture, and c) Flight is not conducted in known or forecast icing conditions.

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System & Sequence Numbers	1.	2.	Number Installed		
			3.	Number Required for Dispatch	
				4.	Remarks or Exceptions
31 INDICATING/ RECORDING SYSTEMS					
20-02 Clock	C	1	0		Aircraft clocks may be inoperative provided a reliable and functioning timepiece is readily available to all flight deck crew members.
30-03 Flight Data Recorder (FDR) ***					
-00A FDR and CVR required by regulations	A	1	0		May be inoperative provided: a) Cockpit Voice Recorder (CVR) is verified to operate normally, and b) Repairs are made within three flight days.
-00B FDR only required by regulations	A	1	0		May be inoperative provided repairs are made within three flight days.
-00C FDR not required by regulations	D	1	0		
-01A FDR Recording Parameters required by regulations	A	-	-		Up to three recording parameters may be inoperative provided: a) Cockpit Voice Recorder operates normally, and b) Repairs are made within twenty calendar days.
-01B FDR Recording Parameters not required by regulations	A	-	-		May be inoperative provided repairs are made before the completion of the next heavy maintenance check.

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33	LIGHTS				
10-01	Cockpit and Instrument Lighting (Excluding button lights, standby flight instrument lighting, internally lighted annunciators, and required placard lighting)				
	(Day)	D	-	0	May be inoperative for day operations.
	(Night)	C	-	-	No change from FAA MMEL
20-04	Lighted Passenger Information Sign (Excluding cabin exit signs)				Deleted in Revision 2 Refer to FAA MMEL
40-02	Ground Recognition Light (Beacon)	C	1	0	May be inoperative provided the Anti-Collision Light is operative.
		C	1	0	May be inoperative for day operations.
40-03	Landing Light	C	2	-	As required by regulations.
		D	2	0	May be inoperative for day operations.
40-10	Wing Deice Light				Deleted in Revision 2 Refer to FAA MMEL

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				4.	Remarks or Exceptions
34	NAVIGATION				
13-01	Mechanical Vertical Speed Indicator				Deleted in Revision 2 Refer to FAA MMEL
14-01	Mechanical Airspeed Indicator	B	-	1	May be inoperative on right side for single pilot operations. NOTE: No change from FAA MMEL
16-02	Mechanical Barometric Altimeter (Including sensitive altimeter)	B	-	1	May be inoperative on right side for single pilot operations. NOTE: No change from FAA MMEL
21-01	Gyroscopic Attitude Indicator	B	-	1	May be inoperative on right side for single pilot operations. NOTE: No change from FAA MMEL
22-03	Gyroscopic Directional Indicator	B	-	1	May be inoperative on right side for single pilot operations.

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34	NAVIGATION					
23-01	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) Aircraft is operated: 1) With dual independent navigation capability, and 2) Under positive radar control by ATC during the enroute flight phase, or one of the navigation systems is a TSO'd GPS which provides track information.
		C	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, operative and used in conjunction with approved free gyro navigation techniques.
24-01	Mechanical Slip / Skid Indicator	C	-	0		May be inoperative for day VFR. NOTE: Does not include VFT OTT.
		B	-	1		May be inoperative on the pilot not-flying side.
25-03	Flight Director System					Deleted in Revision 2 Refer to FAA MMEL

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					4.	Remarks or Exceptions
34 NAVIGATION						
34-01	Marker Beacon Receiver System	C	-	-	(O)	May be inoperative provided alternate procedures are established and used.
		D	-	-		May be inoperative provided routine procedures do not require its use.
42-01	Weather Radar System					Deleted in Revision 2 Refer to FAA MMEL
44-01	Radio Altimeter System					Deleted in Revision 2 Refer to FAA MMEL
44-03 ***	Terrain Awareness and Warning System (TAWS)					
	Class A or B TAWS not required	C	1	0	NOTE:	Any mode that operates normally may be used.
	Class B TAWS required					
-01	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 three flight days.
-01	Modes 1 and 3	A	2	0	(O)	May be inoperative provided: a) Alternate procedures are established and used, and b) Repairs are made within three flight days.

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34	NAVIGATION						
44-03 ***	Terrain Awareness and Warning System (TAWS) (cont'd)						
	Class B TAWS required (cont'd)						
-01	Ground Proximity Warning System (GPWS) (cont'd)						
-02	Test Mode	A	1	0		May be inoperative provided: a) The GPWS is considered inoperative, and b) Repairs are made within three flight days.	
-03 ***	Modes 2, 4 and 5	C	3	0			
-04 ***	Advisory Callouts	C	-	0	(O)	May be inoperative provided alternate procedures are established and used.	
-05 ***	Windshear Mode (Reactive)	C	1	0	(O)	May be inoperative provided: a) Alternate procedures are established and used, and b) Takeoffs and landings are not conducted in known or forecast windshear conditions.	
-02	Terrain System Forward Looking Terrain Avoidance (FLTA) and Premature Descent Alert (PDA) Functions	B	1	0			

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System & Sequence Numbers	1.	2.	Number Installed	3. Number Required for Dispatch
				4. Remarks or Exceptions
34 NAVIGATION				
44-03 *** Terrain Awareness and Warning System (TAWS) (cont'd)				
Class B TAWS required (cont'd)				
-03 *** Terrain Displays	C	-	0	
-04 *** Runway Awareness and Advisory System (RAAS)	C	1	0	
45-01 *** Traffic Alert and Collision Avoidance System (TCAS I or TCAS II)				Deleted in Revision 2 Refer to FAA MMEL
52-01 ATC Transponder and Automatic Altitude Reporting System				Deleted in Revision 2 Refer to FAA MMEL
54-01 Very High Frequency Omni Range (VOR) System	C	-	-	Any in excess of those required by regulations and not powered by an emergency or standby electrical bus may be inoperative.
55-01 Automatic Direction Finder (ADF)	D	-	-	Any in excess of those required by regulations may be inoperative.

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System & Sequence Numbers		1.	2.	Number Installed	
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				4.	Remarks or Exceptions
34 NAVIGATION					
57-01 Global Navigation Satellite System (GNSS) (Including SBAS)					
-00A	C	-	-	(O)	May be inoperative provided alternate procedures are established and used.
-00B	D	-	-		May be inoperative provided routine procedures do not require its use.
					NOTES 1 and 2: No change from FAA MMEL
60-02 Flight Management System (FMS)					
-00A	C	-	-	(O)	May be inoperative provided alternate procedures are established and used.
-00B	D	-	-		May be inoperative provided routine procedures do not require its use.
					NOTE: No change from FAA MMEL

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				4.	Remarks or Exceptions
34	NAVIGATION				
61-01	Navigation Database	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, c) Approach Navigation Radios are manually tuned and identified, and d) Approaches are not conducted using associated system.

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					3.	Number Required for Dispatch	
						4.	Remarks or Exceptions
35 OXYGEN							
20-01	Passenger Oxygen System	B	1	0	(O)	May be inoperative provided: a) Minimum enroute altitude does not exceed 13,000 feet above MSL, b) Pressurization system is operative, c) Flight remains at or below FL 250, d) Portable oxygen units are provided for all crew members and 10% of the passengers; for half an hour (supplemental oxygen), and e) Passengers are appropriately briefed.	

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System & Sequence Numbers		1.	2.	Number Installed
				3. Number Required for Dispatch
				4. Remarks or Exceptions
61	PROPELLERS			
20-01	Propeller Synchronizer / Synchrophaser System			Deleted in Revision 2 Refer to FAA MMEL