



LIBYAN CIVIL AVIATION AUTHORITY

OPERATIONS SECTION

Operations Manual Part "B" Review Checklist (Reference to AMC3 ORO.MLR.100)

The Operations Manual Part B "Aircraft Operating Information" should include the following items in so far as they are appropriate to the type of operations to be conducted. This form may be used as an applicant's compliance statement & CAA inspector checklist

Name of Operator: _____ Date: _____						
Address: _____						
Name of Head of the Operations _____				Tel. _____		
Name of Head of Cockpit Crew : _____				Tel. _____		
Name of CAA Inspector conducting the review: _____						
(A = Acceptable, U = Unacceptable, N/A = Not Applicable)						
Ch	Subject	LYCARs Reference	Ops Man. Reference	A	U	N/A
0	General Information and Unites of measurements					
01	General information (e.g. aircraft dimensions), including a description of the unites of measurement used for the operation of the aircraft type concerned and conversion tables.	Approved Flight Manual				
1	Certification limitations and operating limitations.					
1.1	A description of the certified limitations and the applicable operational limitations including: a) Certification status; b) Passenger seating configuration for each aero plane type including a pictorial presentation; c) Types of operation that are approved (e.g. IFR/VFR, CAT II/III, RNP Type, flights in known icing conditions etc.); d) Crew composition; e) Mass and center of gravity; f) Speed limitations; g) Flight envelope(s); h) Wind limits; i) Performance limitations for applicable configurations; j) Limitations on wet or contaminated runway;	Approved Flight Manual				



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Ch	Subject	LYCARs Reference	Ops Man. Reference	A	U	N/A
	<ul style="list-style-type: none"> k) Runway slope; l) Airframe contamination; m) System limitations. 					
2	The normal, abnormal and emergency procedures to be used by the flight crew and the checklists relating thereto.					
2.1	<p>The normal procedures and duties assigned to the crew, the appropriate check-lists, the system for use of the check-lists and a statement covering the necessary coordination procedures between flight and cabin crew. The following normal procedures and duties must be included:</p> <ul style="list-style-type: none"> a) Pre-flight; b) Pre-departure; c) Altimeter setting and checking; d) Taxi, Take-Off and Climb; e) Noise abatement; f) Cruise and descent; g) Approach, Landing preparation and briefing; h) VFR Approach; i) IFR approach; j) Visual Approach and circling; k) Missed Approach; l) Normal Landing; m) Post Landing; n) Operation on wet or contaminated runways. 	<p>ORO.GEN.110(h) AMC1 ORO.GEN.110(h)</p>				
3	Abnormal and/or Emergency procedures					
	<p>The abnormal and/or emergency procedures and duties assigned to the crew, the appropriate check-lists, the system for use of the check-lists and a statement covering the necessary coordination procedures between flight and cabin crew. The following emergency procedures and duties must be included:</p> <ul style="list-style-type: none"> a) Crew Incapacitation; 	<p>ORO.GEN.110(h) AMC1 ORO.GEN.110(h)</p>				



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	b) Fire and Smoke Drills; c) Un-pressurized and partially pressurized flight; d) Exceeding structural limits as overweight landing; e) Lightning Strikes; f) Distress Communications and alerting ATC to Emergencies; g) Engine failure; h) System failures; i) Guidance for Diversion in case of Serious Technical Failure; j) Ground proximity warning, including for helicopters audio voice alerting device (AVAD) warning; k) ACAS/TCAS warning, including for helicopters audio voice alerting device (AVAD) warning; l) Wind shear; m) Emergency Landing/Ditching; n) For aero plane, departure contingency procedures.					
4	Performance Performance data should be provided in a form that can be used without difficulty.					
4.1	Performance data material that provides the necessary data for compliance with the performance requirements prescribed in (Part-CAT). This performance data should be included to allow for determination of the following: a) Take-off and climb limits – mass, altitude, temperature; b) Take-off field length (for dry, wet and contaminated runway conditions);	(Part-CAT), subpart C – Aircraft Performance and Operating Limitations. Regulations CAT.POL.A and associated MAC/GM. Refer to chapter 1 General Requirements and Chapter 2,3 or 4 for regulations specific to Performance Class of type(s) operated.				



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	<ul style="list-style-type: none"> c) Net flight path data for obstacle clearance calculation or, where applicable, take-off path; d) The gradient losses for banked climb-outs; e) En-route climb limits; f) Approach climb limits; g) Landing climb limits; h) Landing field length (for dry, wet and contaminated runway conditions) including the effects of an in-flight failure of systems or device, if it affects the landing distance; i) Brake energy limits; j) Speed applicable for the various flight stages (also considering dry, wet and contaminated runway conditions). 					
4.1.1	Supplementary data covering flight in icing conditions. Any certified performance related to an allowable configuration, or configuration deviation, such as anti-skid inoperative.					
4.1.2	If performance data, as required for the appropriate performance class in the AFM, then other data should be included. The OM may contain cross-reference to the data contained in the AFM where such data is not likely to be used often or in an emergency.					
4.2	Additional performance data where, applicable, including the following: <ul style="list-style-type: none"> (a) All engine climb gradient; (b) Drift-down data; (c) Effect of de-icing/anti-icing fluids; (d) Flight with landing gear down; (e) For aircraft with 3 or more engines, one-engine-inoperative ferry flight; (f) Flight conducted under the provisions of the configuration deviation list (CDL). 					



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5	Flight Planning					
5.1	Data and instructions necessary for preflight and in-flight planning including factors such as speed schedules and power settings. Where applicable, procedures for engine(s) out operations, ETOPS (particularly the one-engine-inoperative cruise speed and maximum distance to an adequate aerodrome determined in accordance with (Part-CAT)) and flights to isolated airports must be included.	Approved Flight Manual Also refer to OM Part A Section 8.1.7 & 8.3.7 CAT.OP.MPA.140 AMC1 CAT.OP.MPA.140 CAT.GEN.MPA.150 CAT.OP.MPA.106 CAT.OP.MPA.150/151 and associated AMC/GM SPA.ETOPS and AMC 20-6				
5.2	The method for calculating fuel needed for the various stages of flight.					
5.3	When applicable, performance data for ETOPS critical fuel reserve and area of operation, including sufficient data to support the critical fuel reserve and area of operation based on approved aircraft performance data. The following data should be included: (a) Detailed engine(s)-inoperative performance data including fuel flow for standard and non-standard atmospheric conditions and as a function of airspeed and power setting, where appropriate, covering: <ol style="list-style-type: none"> i. Drift down (includes net performance), where applicable; ii. Cruise altitude coverage including 10,000ft; iii. Holding; iv. Altitude capability (includes net performance); and v. Missed approach; 					



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	(b) Detailed all-engine-operating performance data, including normal fuel flow data, for standard and non-standard atmospheric conditions and as a function of airspeed and power setting, where applicable, covering: <ul style="list-style-type: none"> i. Cruise (altitude coverage including 10,000ft); and ii. Holding; (c) Details of any other conditions relevant to ETOPS operations which can cause significant deterioration of performance, such as ice accumulation on the unprotected surfaces of the aircraft, ram air turbine (RAT) deployment; (d) The altitudes, airspeed, thrust settings, and fuel flow used in establishing the ETOPS area of operations for each airframe-engine combination should be used in showing the corresponding terrain and obstruction clearance in accordance with (Part-CAT).					
6	Mass and Balance					
	Instructions and data for the calculation of the mass and balance including: <ul style="list-style-type: none"> a) Calculation system (e.g. Index system); b) Information and instructions for completion of mass and balance documentation, including manual and computer generated types; c) Limiting masses and centre of gravity for the types, variants or individual aero plane used by the operator; and d) Dry Operating mass and corresponding centre of gravity or index. 	Approved Flight Manual Also refer to OM Part A Section 8.1.8				



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Ch	Subject	LYCARs Reference	Ops Man. Reference	A	U	N/A
7	Loading					
	Procedures and provisions for loading and securing the load in the aero plane.	Approved Flight Manual				
8	Configuration Deviation List					
	The CDL(s), if provided by the manufacturer, taking the account of the air craft types and variants operated including procedures to be followed when an aircraft is being dispatched under terms of its CDL.	If supplied by the manufacturer.				
9	Minimum Equipment List (MEL)					
	The Minimum Equipment List (MEL) for each aero plane type and variant operated and the type(s)/area(s) of operation. The MEL should also include the dispatch conditions associated with operation required for a specific approval (e.g. RNAV, RNP, RVSM, and ETOPS). Consideration should be given to using the ATA number system when allocating chapters and numbers.					
10	Survival and Emergency Equipment including Oxygen					
10.1	A list of the survival equipment to be carried for the routes to be flown and the procedures for checking the serviceability of this equipment prior to take-off. Instructions regarding the location, accessibility and use of survival and emergency equipment and its associated check list(s) must also be included.	CAT.IDE.A.200-305 and associated AMC & GM				
10.2	The procedure for determining the amount of oxygen required and the quantity that is available. The flight profile and number of occupants and possible cabin decompression must be considered. The information provided must be in a form in which it can be used without difficulty.					
11	Emergency Evacuation Procedures					
11.1	Instructions for preparation for emergency evacuation including crew coordination and emergency station assignment.	ORO.GEN.110(h) AMC1 ORO.GEN.110(h)				



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11.2	Emergency evacuation procedures. A description of the duties of all members of the crew for the rapid evacuation of a aero plane and the handling of the passengers in the event of a forced landing, ditching or other emergency.	CAT.OP.MPA.165 AMC1 CAT.OP.MPA.165 CAT.OP.MPA.170 AMC1 CAT.OP.MOA.170				
12	Aircraft systems					
	A description of the aero plane systems, related controls and indications and operating instructions. Consideration should be given to using the ATA number system when allocating chapters and numbers.	AFM				

Remarks:



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Action to Be Taken:

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