



## RAMP ON FOREIGN AIRCRAFT - ITEMS TO BE CHECKED

### 1. General

The items **to** be checked during a Ramp Check are summarized below:

A - Flight Deck,

B - Cabin / Safety,

C - Aircraft External Condition,

D - Cargo, and

E - General.

### 2. Detailed List

**The detailed list contains information on the items to be checked. For each item, guidance is provided on how to perform the check. Each item is also provided with the applicable reference in ICAO Annexes, where available. However the specific references should be checked for the complete requirements.**

### 3. Scope

**It is not possible to cover all items on the list at every ramp inspection. Inspections should be planned to cover high risk items and to cover all other items over a series of inspections. It is essential that adequate records be kept and that there is complete coordination between all inspectors involved in ramp inspections of any one operator.**

### 3 Items to be checked

**Flight Deck:**

**General**

**A1. General Condition**

Instructions: Check cleanliness, tidiness and general condition.

References: Nil.

**A2. Emergency Exit**

Instructions: Check if in compliance with ICAO Standards and Recommended Practices.

References: Annex 8, 4.1.7 - Emergency landing provisions. A 3. **Equipment**

**A 3. Equipment**

Instructions: Check for the presence of the following equipment where required: Two sensitive pressure altimeters with counter drumpointer or equivalent presentation (1FR operations) Airborne collision avoidance system (ACAS); Cockpit voice recorder (CVR) and flight data recorder (FDR); Emergency locator transmitter (ELT); Ground proximity warning system (GPWS); and

Where a flight management computer (FMC) is provided - valid database. References:

Altimeters Annex 6, Part I, 6.9.1. c).

ACAS II Annex 6, Part I, 6.18.

CVR and FDR Annex 6, Part I, 6.3; and Part III, Section II, 4.3.

GPWS Annex 6, Part I, 6.15.

ELT Annex 6, Part I, 6.17 and Part III, Section II, 4.7.

Database Annex 6, Part I, 7.4.2.

**Documentation**

**A 4. Manuals**

All required manuals

Instructions: Check for presence. Check if manuals are up-to-date and accepted or approved as required. Flight manual data may be included in the operations manual which may itself be in several parts, some of which are dealt with in A5, 6 and 7 below.

References:

Flight Manual - Annex 6, Part I, 6.2.3, 11.1 and Part III, Section II, 4.2.3, 9.1;

Operations Manual - Annex 6, Part 1,4.2.2, 6.2.3 and Appendix 2 and Part III, Section II, 2.2.2, 4.2.3 and Attachment H; and

Aircraft operating manual - Annex 6, Part I, 6.1.4 and Appendix 2, 2.2 and Part III, Section II, 4.1.4 and Attachment H, 2.2.

### **A 5 Checklists**

**Instructions:** Confirm checklists are available and up to date. Check if their content is in compliance with the requirement. Normal, non-normal and emergency checklists are sometimes combined in a '**Quick Reference Handbook**';

Check the availability of an aircraft search procedure checklist; and Confirm availability of the checklist of emergency and safety equipment.

#### **References:**

Flight crew checklists - Annex 6, Part 1,4.2.5, 6.1.4 and Appendix 2, 2.2.2; and Part III, Section II, 2.2.5, 4.1.4 and Attachment H, 2.2.10.

Aircraft search procedure checklist - Annex 6, Part 1, 13.3 and Part III, Section II, 11.1.

Checklist of emergency and safety equipment - Annex 6, Part 1, Appendix 2, 2.2.10 and Part III, Attachment H, 2.2.8.

### **A 6. Route Guide**

**Instructions:** Check if a route guide, including charts, is available, suitable and up-to-date.

**References:** Annex 6, Part I, 6.2.3 and Appendix 2, 2.3.1; and Part III, Section II, 4.2.3 and Attachment H, 2.3.1.

### **A 7. Minimum Equipment List (MEL)**

**Instructions:** Check if the MEL is available, up-to-date and approved.

**References:** Annex 6, Part I, 6.1.3, Appendix 2, 2.2.9 and Attachment G; and Part 111, Section II, 4.1.3, Attachment E and Attachment H, 2.2.7.

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### **A8. A) Journey log book or technical log and voyage report**

**Instructions:** Check entries up to date, validity of maintenance release. Check number of deferred defects (specify in the report where necessary). Check that defect deferrals include time limits and comply with the stated time limits. Where applicable, check compliance with the aircraft MEL.

**References:** Convention on International Civil Aviation, Article 29; Annex 6, Part 1,4.3.1 and 11.4; and Part III, Section II, 2.3.1 and 9.4.

#### **B) Radio station licence**

**Instructions:** Check available and up to date.

**References:** Convention on International Civil Aviation, Articles 29 and 30; Annex 6, Part I, 7.1; and Part III, Section 11,5.1.

#### **C) Noise certification document or statement, where applicable**

**Instructions:** Check available and valid.

**References:** Annex 6, Part I, 6.13; Part III, Section II, 4.11; and Annex 16, Volume I, Parts I and II.

#### **D) Air Operator Certificate (certified true copy) and Operations Specifications (copy)**

Instructions: Check available, applicable and valid.

References: Annex 6, Part I, 4.2.1, 6.1.2, Appendix 5, 7 and Appendix 6; and Part III, Section II, 2.2.1, 4.1.2, Appendix 1, 7 and Appendix 3.

#### **A 9. Operational flight plan**

Instructions: Check for presence, accuracy and signature(s), and for adequate fuel and oil reserve planning and supply on board.

References: Annex 6, Part I, 4.3.3 and Appendix 2, 2.1.16; and Part III, Section 11, 2.3.3 and Attachment H, 2.1.15.

#### **A 10. Mass and balance sheet**

Instructions: Check for presence of load sheet and accuracy.

References: Annex 6, Part I, 4.3.1 and Appendix 2, 2.1.14; and Part III, Section II, 2.3.1 and Attachment H, 2.1.13.

#### **A 11. Aircraft performance limitations using current route, airport obstacles and runway analysis data**

**Instructions: Check for availability of aircraft performance information including limitations and runway performance analysis based on current airport data.**

**References: Annex 6, Part I, 5.1, 5.2 and 5.3; and Part III, Section II, 3.1 and 3.2.**

#### **A 12. Cargo manifest and , if applicable, passenger manifest**

Instructions: Check for availability of completed cargo manifest and, if required, passenger manifest.

References: Annex 9, 2.12, 2.13 and 4.12 and Appendices 2 and 3.

#### **A 13. Pre-flight inspection**

Instructions: Check for presence of pre-flight inspection forms (landing documents, air traffic service flight plan).

References: Annex 6, Part 1, 4.3; and Part III, Section 11, 2.3.

#### **A 14. Weather reports and forecasts**

Instructions: Check for availability of weather reports and forecasts adequate for the flight. References: Annex 6, Part 1, 4.3.5.2; and Part III, Section II, 2.3.5.2.

#### **A 15. NOTAM (Notice to Airman)**

Instructions: Check for availability of NOTAMs for the route of flight. References: Annex 15, Chapter 1 - Definitions.

#### **A 16. Portable Fire Extinguishers**

Instructions: Check for presence, number, condition and expiry date.

References: Annex 6, Part 1, 6.2.2 b); and Part III, Section II, 4.2.2 b).

#### **A 17. Life jackets/ Flotation devices**

Instructions: Check for presence, condition and where applicable expiry date. References: Annex 6, Part I, 6.5; and Part III, Section II, 4.3.

**A 18. Safety Harness**

Instructions: Check for presence, condition and quantity.

References: Annex 6, Part 1, 6.2.2; and Part III, Section II, 4.2.2.

**A 19. Oxygen equipment**

Instructions: Check for presence, quantity and condition.

References: Annex 6, Part I, 4.3.8; and Part III, Section II, 2.3.8.

**A 20. Emergency flashlight**

Instructions: Check for appropriate quantities of emergency flashlight. Check their condition if possible.

References: Annex 6, Part I, 6.10; and Part III, Section II, 4.4.2.

**B. Cabin / Safety**

**B 1. General condition**

Instructions: Check for cleanliness, tidiness and general condition.

References: Annex 8, Part III, 8.3.

**B 2 Cabin crew seats and safety harness**

Instructions: Check for presence and compliance with the requirement.

References: Annex 6, Part 1, 6.16; and Part III, Section II, 4.12.

**B 3. First aid kit/emergency medical kit**

Instructions: Check for presence, condition, location and expiry date if available. References: Annex 6, 6.2.2.; and Part III, Section II, 4.2.2.

**B 4. Portable fire extinguishers**

Instructions: Check for presence, number, condition and expiry date if available. References: Annex 6. Part I. 6.2.2: and Part III. Section II. 4.2.2.

**B 5. Life jackets/Flotation devices**

Instructions: Check for presence, condition and expiry date as applicable. References: Annex 6. Part I. 6.5; and Part III. Section II. 4.5.

**B 6. Seat belts**

Instructions: Check for presence and condition.

References: Annex 6, Part I, 6.2.2; and Part III, Section II, 4.2.2.

### **B 7. Emergency exit lighting and marking, emergency flashlights**

Instructions: Check for presence of emergency exit signs, lighting and marking, and emergency flashlights (one per cabin crew member). Where possible, check condition of floor path lighting / marking and of flashlights.

References: Annex 6, Part I, 6.10; Part III, Section II, 4.4.2; and Annex 8, Part III A, 4.1.7.3 and Part IIIB, D.6.3.

### **B 8. Slides / Life Rafts and pvrotechnical distress signalling devices (as required)**

Instructions: Check bottle gauge, slide bar and slide expiry date. Check presence of life raft, when required.

References: Annex 6, Part I, 6.5 and 6.6; Part III, Section II, 4.5.and 4.6; Annex 8, Part III A, 4.1.7 (and Part III D.6.2 to D.6.4).

### **B 9. Oxygen supply - cabin crew and passengers**

Instructions: Check for presence and condition where applicable.

References: Annex 6, Part I, 4.3.8 and 6.7; and Part III, Section II, 2.3.8 and 4.8 and Section III, 2.9 and 4.5.

### **B 10. Emergency Briefing Cards**

Instructions: Check for presence and accuracy.

References: Annex 6, Part I, 4.2.11.1 and 6.2.2; and Part III, Section 11, 2.2.10 and Section HI, 2.3.

### **B 11. Cabin crew members**

Instructions: Check that the number of cabin crew is appropriate. Check whenever possible that the location of cabin crew members allows to effect a safe and expeditious evacuation of the aircraft.

References: Annex 6, Part I, 12.1; and Part III, Section II, 10.1.

## **B. Cabin / Safety**

### **B 12. Access to emergency exits**

Instructions: Check that appropriate access to emergency exits is provided and that it is not impeded. References: Annex 8, Part III A, 4.1.7 (and Part III D.6.2 and D.6.3).

### **B 13. Safety of cabin baggage**

Instructions: Check that the the crew and the passengers do not carry oversized hand baggage for the stowage capacity of the aircraft. Check proper stowage of cabin baggage.

References: Annex 6, Part I, 4.8; and Part III, Section II, 2.7

### **B 14. Seating capacity**

Instructions: Check that the number of persons boarding does not exceed the number permitted (number of seats normally, except specific circumstances).

References: Annex 6, Part I, 6.2.2; and Pail III, Section II, 4.2.2.

### **B 15. Security of the flight crew compartment door (if applicable)**

Instructions: Check that the flight crew compartment door, if provided, is lockable. Where applicable, check that the flight crew compartment door is penetration resistant.

References: Annex 6, Part I, 13.2.

#### D. General

### **E 1. Additional Remarks**

Instructions: Record and report any items of significant nature that may be observed which are not covered by this guidance.

References: Nil.

### **E 2. Refuelling**

Instructions: Check that the procedures relating to refuelling with passengers on board are complied with.

References: Annex 6, Part I, 4.3.7; and Part 111, Section II, 2.3.7.

### **E 3. Language for communication**

Instructions: Check that all pilots, and those flight navigators required to use the radio telephone, are fluent in the language used for radiotelephony communications or in the English language.

References: Annex 1, 1.2.9 and Annex 10, Volume II, 5.2.1.2.

#### A. General External Condition

### **C 1. General condition**

Instructions: Check general condition of the airframe: apparent corrosion; cleanliness; presence of ice, snow, frost; legibility of markings, etc.

References: For markings: Annex 7, 3, 4 and 5.

### **C 2. Doors and hatches**

Instructions: Check for passenger and cargo door condition, external markings, seals, operating instructions and condition of hatches.

References: Nil.

### **C 3. Wings and Tail**

Instructions: Check wings, vertical and horizontal stabilizers, including all flight control surfaces. Check for obvious damage, corrosion, disbonding, evidence of lightning strikes, dents, looseness of fittings, missing static discharges, etc.

References: Nil.

### **C 4. Wheels, brakes and tires**

Instructions: Inspect for damage, wear and signs of tire under inflation. References: Nil.

### **C 5. Undercarriage**

Instructions: Visual inspection. Focus on lubrication, leakage & corrosion and wear on door fittings and hinges.

References: Nil.

### **C 6. Wheel well**

Instructions: Visual inspection. Focus on cleanliness, leakage & corrosion.

References: Nil.

#### C 7. Intake & exhaust nozzle

Instructions: Visual inspection. Focus on damage, cracking, dents and loose/missing fasteners (intake) and LPT blades (where visible), obvious damage to sensors, jet pipe nozzle, exhaust, thrust reversers, etc.

References: Nil.

#### C 8. Fan blades (if applicable)

Instructions: Visual inspection. Check for foreign object damage, cracks, cuts, corrosion, erosion etc. References: Nil.

#### C 9. Propellers (if applicable)

Instructions: Visual inspection. Check for corrosion, looseness of blades in hub, erosion, stone damage, anti/de-icing system, etc.

References: Nil.

#### C 10. Previous structural repairs

Instructions: Visual inspection. Note any previous repairs - check condition and verify compliance to standard practices.

References: Nil.

#### C 11. Obvious damage

Instructions: Visual inspection. Note unassessed and unrecorded damage including corrosion, lightning strike damage, and bird strikes etc.

References: Annex 8, Part II, 3.6.

#### C 12. Leakage

Instructions: Visual inspection: fuel, oil, hydraulic leaks. Inspect for toilet leaks at service locations. References: Nil.

### E. Cargo

#### D 1. General condition of cargo compartment and containers

Instructions: Check for cleanliness and general condition of cargo compartment and containers.

Check damage to compartment liners and condition of fire protection, detection & extinguishing system (if appropriate). Check condition of container locking devices.

References: Nil.

#### D 2. Dangerous Goods

Instructions: If dangerous goods are on board, check that the pilot has received appropriate notification, Check that the operations manual includes relevant information as required by ICAO Annex 18.

References: Annex 6, Part I, Appendix 2, 2.1.35; Part III, Attachment H, 2.1.28; and Annex 18. 9.1 and 9.2.

#### D 3. Safety of cargo on board

Instructions: Check that loads are properly distributed and safely secured. References: Annex 6, Part I, 4.3.1; Part III, Section II, 2.3.1.