

# Part 61 Manual Of Standards

## Unit 1.5.14 AFRC: ATPL flight rules and air law – all aircraft categories

### 1. Reserved

### 2. Flight rules

#### 2.1 Documentation

2.1.1 Airworthiness and equipment.

2.1.2 State the purpose of certificates of airworthiness and registration.

2.1.3 Given a typical scenario, extract from CASA regulations/orders/instructions the communication and normal and emergency equipment required to be on board an aircraft. State the responsibilities of a pilot in command with regard to:

- (a) daily inspections; and
- (b) recording/reporting aircraft defects.

2.1.4 As applicable, determine the types of maintenance that may be carried out by licence holder.

2.1.5 Given a copy of a maintenance release:

- (a) determine its validity; and
- (b) list the class(es) of operation applicable to the aircraft; and
- (c) list outstanding defects/endorsements and decide whether these affect the airworthiness of the aircraft.

#### 2.2 Aircraft nationality and registration

2.2.1 ICAO provisions (Annex).

2.2.2 General applicability – brief reference only.

2.2.3 Australian national legislation:

- (a) requirement to register aircraft;
- (b) registration of aircraft in Australia;
- (c) transfer of interest and cancellation of registration.

#### 2.3 Airworthiness of aircraft

2.3.1 ICAO Provisions (Annex 8):

- (a) general applicability – brief reference only.

2.3.2 Australian national legislation:

- (a) requirements for Certificates of Airworthiness;
- (b) conditions relating to Certificates of Airworthiness;
- (c) suspension or cancellation of Certificates of Airworthiness;
- (d) permissible unserviceability:
  - (i) use of PUS;
  - (ii) MEL as an alternative to PUS;
  - (iii) use of an MEL;
- (e) requirements for maintenance;
- (f) pilot's responsibilities with respect to maintenance within Australia;
- (g) pilot's responsibilities with respect to maintenance outside Australia;

- (h) maintenance release requirements;
- (i) suspension, cancellation of a maintenance release;
- (j) cessation or recommencement of a maintenance release;
- (k) pilot's responsibilities with respect to defects or damage;
- (l) compliance and certification of Airworthiness Directives;
- (m) classes of controlled airspace.

## **2.4 Personnel licensing**

### 2.4.1 ICAO Provisions (Annex 1):

- (a) general applicability.

### 2.4.2 Australian national legislation:

- (a) general provisions:
  - (i) licences;
  - (ii) ratings;
- (b) ATPL:
  - (i) privileges;
  - (ii) limitations;
  - (iii) recency requirements;
- (c) classification of operations;
- (d) multi-crew aircraft:
  - (i) composition of crew;
  - (ii) flight and duty time limitations.

## **2.5 Rules of the air**

### 2.5.1 ICAO Annex 2:

- (a) general applicability.

### 2.5.2 Australian national legislation.

### 2.5.3 Rules of the Air Review (CAR Part XII).

### 2.5.4 Conditions of flight (CAR PART XI):

- (a) flight manuals;
- (b) documents required for flight;
- (c) carriage and discharge of firearms;
- (d) drunkenness and violence on board an aircraft;
- (e) dropping of articles;
- (f) flight over public gatherings;
- (g) low flying.

## **2.6 Procedures for air navigation**

### 2.6.1 ICAO Doc 8168 – OPS/611:

- (a) general provisions – brief reference only.

### 2.6.2 Australian national legislation Review AIP (DAP):

- (a) general requirements;
- (b) alternate planning requirements.

## **2.7 Air traffic services**

### 2.7.1 ICAO Annex II and Doc 4444:

- (a) general provisions – brief reference only.
- 2.7.2 Australian national legislation.
- 2.7.3 General provisions:
  - (a) objectives of ATS;
  - (b) division of ATS;
  - (c) designation of the portions of the airspace and controlled aerodromes where ATS will be provided;
  - (d) establishment and designation of the units providing ATS;
  - (e) specifications:
    - (i) flight information regions;
    - (ii) control areas;
    - (iii) control zones;
  - (f) minimum flight attitudes;
  - (g) priority for aircraft in emergency;
  - (h) inflight contingencies in ATS.
- 2.7.4 ATC service:
  - (a) function and purpose of ATC;
  - (b) provision of ATC service;
  - (c) operation of ATC service;
  - (d) separation minima;
  - (e) contents of clearances;
  - (f) coordination of clearances;
  - (g) control of persons and vehicles at aerodromes.
- 2.7.5 Flight information service:
  - (a) application and scope of flight information service:
    - (i) VFR traffic;
  - (b) operational flight information service broadcasts.
- 2.7.6 Alerting service:
  - (a) function/purpose;
  - (b) phases of alert: INCERFA, ALERFA, DISTRESFA;
  - (c) notification of rescue coordination centre;
  - (d) information to aircraft in a state of emergency.
- 2.7.7 Principles governing the identification of ATS routes other than standard departure and arrival routes.

## **2.8 Rules of the air and air traffic services**

- 2.8.1 ICAO Doc 444 and RAC501/11:
  - (a) general provisions – brief reference only.
- 2.8.2 Australian national legislation.
- 2.8.3 General provisions:
  - (a) general air traffic services operating practices:
    - (i) submission of a flight plan;
    - (ii) flight clearances and information;
    - (iii) control of air traffic flow;
    - (iv) altimeter setting procedures;

- (v) position reporting requirements;
- (vi) requirements and format for AIREP.

2.8.4 Area control service:

- (a) vertical separation:
  - (i) requirements;
  - (ii) vertical separation minima;
  - (iii) minimum cruising level;
  - (iv) assignment of cruising level;
  - (v) vertical separation during climb or descent;
- (b) horizontal separation (subsonic aircraft only):
  - (i) requirements;
  - (ii) geographical separation;
  - (iii) track separation for aircraft using the same navaid;
  - (iv) longitudinal separation;
- (c) reduction in separation minima;
- (d) ATC clearances:
  - (i) requirement for clearance;
  - (ii) function of clearance;
  - (iii) contents of clearance;
  - (iv) maintaining own separation while in VMC;
  - (v) essential traffic information while in VMC;
  - (vi) essential traffic information;
  - (vii) clearance of a requested change in flight plan;
- (e) emergency:
  - (i) general, priority, emergency descent only (action by pilot in command only);
- (f) communication failure:
  - (i) air-ground communication failure (actions by pilot in command only);
- (g) interception of civil aircraft.

2.8.5 Approach control service

- (a) departing aircraft:
  - (i) general procedures for departing aircraft;
  - (ii) information for departing aircraft;
  - (iii) clearances to climb maintaining own separation while in VMC;
  - (iv) wake turbulence separation;
- (b) arriving aircraft:
  - (i) general procedures for arriving aircraft;
  - (ii) clearance to descend maintaining own separation while in VMC;
  - (iii) visual approach;
  - (iv) instrument approach;
  - (v) holding;
  - (vi) approach sequence;
  - (vii) expected approach;
  - (viii) time information for arriving aircraft.

2.8.6 Aerodrome control service:

- (a) functions of aerodrome control towers:
  - (i) general functions;
  - (ii) alerting service;
  - (iii) suspension of VFR operations;
- (b) control of traffic:
  - (i) traffic circuit(s);
  - (ii) start-up;
  - (iii) taxiing traffic;
  - (iv) vehicular traffic;
  - (v) coordination of take-off and landings;
  - (vi) order of priority for arriving and departing aircraft;
  - (vii) control of departing and arriving aircraft;
- (c) information provided to aircraft:
  - (i) operation of the aircraft;
  - (ii) aerodrome conditions.

#### 2.8.7 Flight Information service and alerting service

- (a) air traffic advisory service;
- (b) alerting service.

#### 2.8.8 Use of radar in air traffic services:

- (a) limitations in the use of radar;
- (b) functions of radar service:
  - (i) identification procedure (establishment of radar identity only);
  - (ii) position information;
  - (iii) radar vectoring;
  - (iv) speed control;
- (c) use of radar in the ATC service;
- (d) descent below MSA under radar control.

### 2.9 Aeronautical information service

#### 2.9.1 ICAO Annex 15:

- (a) general provisions – brief reference only.

#### 2.9.2 Australian documentation:

- (a) availability and procurement of AIP, NOTAM, AIC.

### 2.10 Aerodromes

#### 2.10.1 ICAO Annex 14:

- (a) general provisions – brief reference only.

#### 2.10.2 Australian national legislation:

- (a) AIP AD requirements:
  - (i) aerodrome markers and markings;
  - (ii) aerodrome lighting;
  - (iii) visual aids;
  - (iv) domestic aerodrome directory (ERSA);
  - (v) pavement strength limitations.

### 2.11 Facilitation

- 2.11.1 ICAO Annex 9:
  - (a) general provisions – brief reference only.
- 2.11.2 Australian national legislation.
- 2.11.3 AIP GEN requirements:
  - (a) responsibility of DIT;
  - (b) differences to international standards and practices: 9 Annex 9;
  - (c) entry and departure of international aircraft:
    - (i) documents required;
    - (ii) description, purpose and use;
  - (d) entry and departure of persons and baggage:
    - (i) normal requirements;
    - (ii) procedures for flight crew and similar personnel;
  - (e) identification of designated international airports.

## **2.12 Search and Rescue**

- 2.12.1 ICAO Annex 12:
  - (a) general provisions – brief reference only.
- 2.12.2 Australian national legislation
  - (a) SAR organisation:
    - (i) establishment of SAR regions;
    - (ii) establishment and designation of SAR services units;
  - (b) operating procedures:
    - (i) SAR phases;
    - (ii) distress and urgency signals;
    - (iii) use of SSR transponder;
    - (iv) procedures for pilots in command at the scene of an accident;
    - (v) procedures for pilots in command intercepting;
    - (vi) distress transmissions;
    - (vii) participation in searches.

## **2.13 Security**

- 2.13.1 ICAO Annex 17:
  - (a) general provisions – brief reference only.
- 2.13.2 Air Defence identification zones (ADIZ):
  - (a) Pilot's responsibilities for flight within the zone;
  - (b) exemptions;
  - (c) non-compliance;
  - (d) action in the event of interception;
  - (e) interpretation of visual signals;
  - (f) powers of pilot in command.

## **2.14 Aircraft accidents and incidents**

- 2.14.1 Terminology:
  - (a) definition of accident;
  - (b) definition of incident.
- 2.14.2 Responsibilities of pilot in command regarding notification.

## **2.15 Air service operations**

- (a) route qualifications;
- (b) admission to crew compartment;
- (c) carriage of approved persons:
  - (i) in crew compartment;
  - (ii) in cabin;
- (d) operational procedures in relation to computers;
- (e) fuel quantity measurement: (requirements for aircraft above 5,700 kg);
- (f) hand signals;
- (g) oxygen and protective breathing equipment;
- (h) engine failure in multi-engine aircraft;
- (i) carriage and use of radio;
- (j) precautions in refuelling, engine and radar ground operations;
- (k) emergency equipment;
- (l) loading general;
- (m) carriage of cargo;
- (n) carriage of persons;
- (o) aircraft equipment:
  - (i) basic operational requirements;
- (p) dangerous goods handling.