STATES OF JERSEY



DRAFT AIR NAVIGATION (RULES OF THE AIR) (JERSEY) REGULATIONS 201-

Lodged au Greffe on 22nd May 2017 by the Minister for External Relations

STATES GREFFE

2017 P.40



DRAFT AIR NAVIGATION (RULES OF THE AIR) (JERSEY) REGULATIONS 201-

REPORT

As part of the "Single European Sky" initiative, a common set of rules for airspace management has been introduced across Europe known as the Standardized European Rules of the Air ("SERA"). SERA was introduced in France in December 2014 and the United Kingdom in April 2015 (where they replaced the legacy "Rules of the Air" on which the current Jersey rules are based).

SERA also brings Europe fully into line with the international rules of the air, laid down under the Chicago Convention by the International Civil Aviation Organization ("ICAO").

Throughout the implementation period the Director of Civil Aviation has been monitoring the reaction of the aviation industry, and with the assistance of the Ports of Jersey conducted a stakeholder workshop and risk assessment in 2016. It was determined that although some changes to procedures would be required, the effect on airspace users would be small, and in some cases would allow air traffic control to take a more permissive approach.

Subsequently, the Director of Civil Aviation wrote to the Minister for External Relations to recommend that the proper course of action for Jersey is to make Regulations to give effect to SERA in order to retain common rules of the air with neighbouring jurisdictions in order to facilitate air navigation. It is planned to co-ordinate introduction of SERA with Guernsey.

The Air Navigation (Jersey) Law 2014 makes provision under Article 46 for the States to make Regulations regarding rules of the air "compatible with the Standard European Rules of the Air".

Financial and manpower implications

There are no financial or manpower implications for the States arising from these draft Regulations.

Collective Responsibility

The Council of Ministers has a single policy position on this proposition, and as such, all Ministers are bound by the principle of collective responsibility to support the proposition, as outlined in the Code of Conduct and Practice for Ministers and Assistant Ministers (R.11/2015 refers).



These Regulations replace the Rules of the Air (Jersey) Order 2000 (the "2000 Order") which was saved under the Air Navigation (Jersey) Order 2008 (Revocation) Order 2014 which made provision for the 2000 Order to remain in force as if made under Article 46 of the Air Navigation (Jersey) Law 2014 until new Rules of the Air are made under that Law.

Regulation 1 provides that the Rules of the Air set out in the *Schedule* shall have effect in Jersey.

Regulation 2 sets out the title of these Regulations and provides that they will come into force on 15th July 2017.

The Jersey Rules of the Air 2017 (the "Rules") contained in the *Schedule* make provision regarding air traffic services and procedures in air navigation and are compatible with the Standard European Rules of the Air (as defined in Article 46(6) of the Air Navigation (Jersey) Law 2014), the provisions of which have been modified for Jersey. The Rules also take account of some of the changes made to the Standard European Rules of the Air by Commission Implementing Regulation (EU) 2016/1185 of 20 July 2016 (OJ L 196, 21.7.2016, p3).

Part 1 of the Rules comprises Rules 1 to 3 which make provision for the interpretation of words used in the Rules, application of the Rules to aircraft and exemptions for special operations.

Part 2 of the Rules comprises Rules 4 to 8 which make provision for flights over high seas; compliance with rules of the air; the responsibilities of a pilot-in-command of an aircraft with regard to the operation of an aircraft; the authority of the pilot-in-command of an aircraft; and the use of psychoactive substances.

Part 3 of the Rules comprises Rules 9 to 27 which provide general rules for protection of persons and property; avoidance of collisions; use and observation of signals; and use of Coordinated Universal Time for obtaining time checks and providing a pilot with the correct time during a flight.

Part 4 of the Rules comprises Rules 28 to 32 which require information relative to an intended flight or portion of a flight provided to air traffic service units to be in the form of a flight plan. A flight plan must be submitted prior to operating certain types of flights.

Part 5 of the Rules comprises Rules 33 to 38 which make provision for visual meteorological conditions visibility and distance from cloud minima; visual flight rules; special visual flight rules; and Instrument Flight Rules for the operation of flights.

Part 6 of the Rules comprises Rules 39 and 40 which provide for airspace classification. Rule 39 allows for airspace to be designated and notified by a competent authority in accordance with the airspace classification set out in that Rule. Rule 40 sets out the requirements for radio communications and SSR (secondary surveillance radar) transponders for certain flights operating airspace designated radio mandatory zones or transporter mandatory zones.

Part 7 of the Rules comprise Rules 41 and 42 which provide for the objectives of the air traffic services and for coordination between an aircraft operator and air traffic services. The objectives of the air traffic services include to prevent collisions and to expedite and maintain an orderly flow of traffic.



Part 8 of the Rules comprises Rules 43 to 50 which provide for air traffic control service (in the form of clearances and information) to be provided to certain flights and to all aerodrome traffic at controlled aerodromes. In order to provide air traffic service, an air traffic control unit must be provided with information on the intended movement of each aircraft.

Part 9 of the Rules comprises Rules 51 to 53 which provide for flight information service to be provided by the appropriate air traffic services units to all aircraft which are likely to be affected by the information and which are provided with air traffic control service or otherwise known to the relevant air traffic services unit. Flight information service includes the provision of pertinent information on pre-eruption volcanic activity, release into the atmosphere of radioactive material or toxic chemicals and information on changes in condition of aerodromes and associated facilities.

Part 10 of the Rules comprises Rules 54 to 55 which provide for an alerting service to be provided by air traffic services units for all aircraft provided with air traffic control service, to all other aircraft in so far as practicable and to any aircraft known or believed to be the subject of unlawful interference. An alerting service is a service provided to notify appropriate authorities regarding aircraft in need of search and rescue aid and to assist such authorities as required.

Part 11 of the Rules comprises Rules 56 to 60 which make provision with regard to unlawful interference of aircraft, service to aircraft in the event of an emergency and strayed or unidentified aircraft.

Part 12 of the Rules comprises Rules 61 to 65 which make provision for services related to meteorology, in particular the reporting of aircraft observations during flights.



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DRAFT AIR NAVIGATION (RULES OF THE AIR) (JERSEY) REGULATIONS 201-

Made
Coming into force

[date to be inserted]
[date to be inserted]

THE STATES, in pursuance of Article 46 of the Air Navigation (Jersey) Law 2014¹, have made the following Regulations –

1 Rules of the Air

The Rules of the Air set out in the Schedule to these Regulations shall have effect in Jersey.

2 Citation and commencement

These Regulations may be cited as the Air Navigation (Rules of the Air) (Jersey) Regulations 201- and shall come into force on 15th July 2017.

SCHEDULE

(Regulation 1)

JERSEY RULES OF THE AIR 2017

PART 1

INTERPRETATION AND APPLICATION

1 Interpretation

(1) In these Rules unless the context otherwise requires –

"accuracy" means a degree of conformance between the estimate or measured value and the true value;

"ADS-B" means automatic dependent surveillance – broadcast;

"ADS-C agreement" means a reporting plan which establishes the conditions of ADS-C data reporting (i.e. data required by the air traffic services unit and frequency of ADS-C reports which have to be agreed to prior to using ADS-C in the provision of air traffic services);

"ADS-C" means automatic dependent surveillance – contract;

"advisory airspace" means an airspace of defined dimensions, or designated route, within which air traffic advisory service is available;

"advisory route" means a designated route along which air traffic advisory service is available;

"aerobatic flight" means a flight in which aerobatic manoeuvres are carried out;

"aerodrome control tower" means a unit established to provide air traffic control service to aerodrome traffic;

"aerodrome flight information services unit" means a person appointed by the competent authority in charge of an aerodrome to give aerodrome flight information service;

"aerodrome traffic" means all traffic on the manoeuvring area of an aerodrome and all aircraft flying in the vicinity of an aerodrome;

"aerodrome traffic circuit" means the specified path to be flown by aircraft operating in the vicinity of an aerodrome;

"aerodrome traffic zone" means an airspace of defined dimensions established around an aerodrome for the protection of aerodrome traffic;

"aeronautical mobile service" means a mobile service between aeronautical stations and aircraft stations, or between aircraft stations, in which survival craft stations may participate; emergency positionindicating radio beacon stations may also participate in this service on designated distress and emergency frequencies; "aeronautical station" means a land station in the aeronautical mobile service which may in certain circumstances be located on board ship or on a platform at sea;

"ACAS" means airborne collision avoidance system;

"aircraft address" means a unique combination of 24 bits available for assignment to an aircraft for the purpose of air-ground communications, navigation and surveillance;

"aircraft observation" means the evaluation of one or more meteorological elements made from an aircraft in flight;

"aircraft operating in the vicinity of an aerodrome" includes aircraft entering or leaving an aerodrome traffic circuit;

"aircraft stand taxilane" means a portion of an apron designated as a taxiway and intended to provide access to aircraft stands only;

"AIRMET information" means information issued by a meteorological watch office concerning the occurrence or expected occurrence of specified en-route weather phenomena which may affect the safety of low-level aircraft operations and which was not already included in the forecast issued for low-level flights in the flight information region concerned or sub-area thereof;

"air-ground communication" means two-way communication between aircraft and stations or locations on the surface of the earth and "air-ground voice communication" shall be construed accordingly;

"air-ground control radio station" means an aeronautical telecommunication station having primary responsibility for handling communications pertaining to the operation and control of aircraft in a given area;

"air-report" means a report from an aircraft in flight prepared in conformity with requirements for position, and operational or meteorological reporting;

"air traffic" means all aircraft in flight or operating on the manoeuvring area of an aerodrome:

"air traffic services reporting office" means a unit established for the purpose of receiving reports concerning air traffic services and flight plans submitted before departure;

"airway" means a control area or portion thereof established in the form of a corridor;

"alternate aerodrome" means an aerodrome to which an aircraft may proceed when it becomes either impossible or inadvisable to proceed to or to land at the aerodrome of intended landing including a take-off alternate; an en-route alternate, an ETOPS en-route alternate or a destination alternate;

"ANSP" means an air navigation service provider;

"apron taxiway" means a portion of a taxiway system located on an apron and intended to provide a through taxi route across the apron;

"area navigation" means a method of navigation which permits aircraft operation on any desired flight path within the coverage of ground- or space-based navigation aids or within the limits of the capability of self-contained aids, or a combination of these;

"ATC" means air traffic control;

"ATC clearance" means air traffic control clearance;

"ATS" means air traffic service:

"ATS airspace" means mean an airspace of defined dimensions, alphabetically designated, within which specific types of flights may operate and for which air traffic services and rules of operation are specified;

"ATS route" means a specified route designed for channelling the flow of traffic as necessary for the provision of air traffic services;

"automatic dependent surveillance – broadcast" means a means by which aircraft, aerodrome vehicles and other objects can automatically transmit or receive data such as identification, position and additional data, as appropriate, in a broadcast mode via a data link;

"automatic dependent surveillance – contract" means a means by which the terms of an ADS-C agreement will be exchanged between the ground system and the aircraft, via a data link, specifying under what conditions ADS-C reports would be initiated, and what data would be contained in the reports;

"automatic terminal information service" or "ATIS" means the automatic provision of current, routine information to arriving and departing aircraft throughout 24 hours or a specified portion thereof;

"ceiling" means the height above the ground or water of the base of the lowest layer of cloud below 6 000 m (20 000 ft) covering more than half the sky;

"change-over point" means the point at which an aircraft navigating on an ATS route segment defined by reference to very high frequency omnidirectional radio ranges is expected to transfer its primary navigational reference from the facility behind the aircraft to the next facility ahead of the aircraft;

"clearance limit" means the point to which an aircraft is granted an air traffic control clearance:

"cloud of operational significance" means a cloud with the height of cloud base below 1 500 m (5 000 ft) or below the highest minimum sector altitude, whichever is greater, or a cumulonimbus cloud or a towering cumulus cloud at any height;

"competent authority" means in relation to Jersey, the Director, and in relation to any other country the authority responsible under the law of that country for promoting the safety of civil aviation;

"control area" means a controlled airspace extending upwards from a specified limit above the earth;

"control zone" means controlled airspace extending upwards from the surface of the earth to a specified upper limit;

"controlled aerodrome" means an aerodrome at which air traffic control service is provided to aerodrome traffic regardless of whether or not a control zone exists;

"controlled airspace" means an airspace of defined dimensions within which air traffic control service is provided in accordance with the airspace classification;

"controlled flight" means any flight subject to ATC clearance;

"controller-pilot data link communications" means a means of communication between controller and pilot, using data link for ATC communications;

"cruise climb" means an aeroplane cruising technique resulting in a net increase in altitude as the aeroplane mass decreases;

"cruising level" means a level maintained during a significant portion of a flight;

"current flight plan" means the flight plan, including changes, if any, brought about by subsequent clearances;

"danger area" means airspace of defined dimensions within which activities dangerous to the flight of an aircraft may exist at specified times:

"data link communications" mean a form of communication intended for the exchange of messages via a data link;

"D-ATIS" means the provision of ATIS via a data link;

"datum" means any quantity or set of quantities that may serve as a reference or basis for the calculation of other quantities;

"destination alternate" means an alternate aerodrome to which an aircraft may proceed should it become either impossible or inadvisable to land at the aerodrome of intended landing;

"downstream clearance" means a clearance issued to an aircraft by an air traffic control unit that is not the current controlling authority of that aircraft;

"en-route alternate" means an aerodrome at which an aircraft would be able to land after experiencing an abnormal or emergency condition while en route;

"estimated elapsed time" means the estimated time required to proceed from one significant point to another;

"estimated off-block time" means the estimated time at which the aircraft will commence movement associated with departure;

"ETOPS en-route alternate" means a suitable and appropriate alternate aerodrome at which an aeroplane would be able to land after experiencing an engine shutdown or other abnormal or emergency condition while en route in an ETOPS operation;

"ETOPS" means extended twin engine operation;

"expected approach time" means the time at which ATC expects that an arriving aircraft, following a delay, will leave the holding fix to complete its approach for a landing (the actual time of leaving the holding fix will depend upon the approach clearance);

"FL" means flight level;

"flight crew member" means a crew member charged with duties essential to the operation of an aircraft during a flight duty period;

"flight information service unit" means a person appointed by the competent authority in charge of an aerodrome or area control centre to give –

- (a) in the case of a person appointed in respect of an aerodrome, aerodrome flight information service; or
- (b) in the case of a person appointed in respect of an area control centre, to give information by means of radio signals to aircraft;

"ground visibility" means the visibility at an aerodrome, as reported by an accredited observer or by automatic systems;

"heading" means the direction in which the longitudinal axis of an aircraft is pointed, usually expressed in degrees from North (true, magnetic, compass or grid);

"height" means the vertical distance of a level, a point or an object considered as a point, measured from a specified datum;

"IAS" means indicated airspeed;

"ICAO Contracting State" means any State (including the United Kingdom and its Territories and Dependencies) that is a party to the Chicago Convention;

"IFR flight" means a flight conducted in accordance with the Instrument Flight Rules;

"instrument approach operation" means an approach and landing using instruments for navigation guidance based on an instrument approach procedure and the following are the two methods for executing instrument approach operations —

- (a) a two-dimensional (2D) instrument approach operation, using lateral navigation guidance only; and
- (b) a three-dimensional (3D) instrument approach operation, using both lateral and vertical navigation guidance;

"instrument approach procedure" means a series of predetermined manoeuvres by reference to flight instruments with specified protection from obstacles from the initial approach fix, or where applicable, from the beginning of a defined arrival route to a point from which a landing can be completed and thereafter, if a landing is not completed, to a position at which holding or en-route obstacle clearance criteria apply, and such instrument approach procedures are classified as follows —

- (a) non-precision approach procedure an instrument approach procedure designed for 2D instrument approach operations Type A;
- (b) approach procedure with vertical guidance a performance-based navigation instrument approach procedure designed for 3D instrument approach operations Type A;
- (c) precision approach (PA) procedure an instrument approach procedure based on navigation systems (ILS, MLS, GLS and SBAS Cat I) designed for 3D instrument approach operations Type A or B;

"Instrument Flight Rules" or "IFR" means the Instrument Flight Rules set out in in Part 5:

"level", in relation to the vertical position of an aircraft, means the height, altitude of flight level of the aircraft;

"mode" in relation to an SSR transponder, means the conventional identifier related to specific functions of the interrogation signals transmitted by an SSR interrogator specified in Annex 10 to the Chicago Convention as mode A, mode C, mode S and intermode;

"model aircraft" means an unmanned aircraft, other than toy aircraft, having an operating mass not exceeding limits specified by the competent authority, that is capable of sustained flight in the atmosphere and that is used exclusively for display or recreational activities;

"mountainous area" means an area of changing terrain profile where the changes of terrain elevation exceed 900 m (3 000 ft) within a distance of 18,5 km (10,0 NM);

"MSL" means mean sea level;

"operating site" means a site selected by the operator or pilot-incommand for landing, take-off or hoist operations;

"pressure-altitude" means an atmospheric pressure expressed in terms of altitude which corresponds to that pressure in the Standard Atmosphere, as defined in Annex 8, Part 1 to the Chicago Convention;

"problematic use of substances" means the use of one or more psychoactive substances by aviation personnel in a way that –

- (a) constitutes a direct hazard to the user or endangers the lives, health or welfare of others; or
- (b) causes or worsens an occupational, social, mental or physical problem or disorder;

"prohibited area" means an airspace of defined dimensions, above the land areas or territorial waters of a State, within which the flight of aircraft is prohibited;

"radar" means a radio detection device which provides information on range, azimuth or elevation of objects;

"radio mandatory zone" or "RMZ" means an airspace of defined dimensions wherein the carriage and operation of radio equipment is mandatory; "radio navigation service" means a service providing guidance information or position data for the efficient and safe operation of aircraft supported by one or more radio navigation aids;

"radiotelephony" means a form of radio communication primarily intended for the exchange of information in the form of speech;

"rapid exit taxiway" means a taxiway connected to a runway at an acute angle and designed to allow landing aeroplanes to turn off at higher speeds than are achieved on other exit taxiways thereby minimising runway occupancy times;

"repetitive flight plan" means a flight plan related to a series of frequently recurring, regularly operated individual flights with identical basic features, submitted by an operator for retention and repetitive use by air traffic services units:

"reporting point" means a specified geographical location in relation to which the position of an aircraft can be reported;

"restricted area" means an airspace of defined dimensions, above the land areas or territorial waters of a State, within which the flight of aircraft is restricted in accordance with certain specified conditions;

"restricted area" means an airspace of defined dimensions, above the land areas or territorial waters of a State, within which the flight of aircraft is restricted in accordance with certain specified conditions;

"route segment" means a route or portion of route usually flown without an intermediate stop;

"runway-holding position" means a designated position intended to protect a runway, an obstacle limitation surface, or an ILS/MLS critical/sensitive area at which taxiing aircraft and vehicles must stop and hold, unless otherwise authorized by the aerodrome control tower;

"RVR" means runway visual range;

"safety-sensitive personnel" means a person who might endanger aviation safety if that person fails to perform duties and functions improperly including, crew member, aircraft maintenance personnel and air traffic controller;

"sailplane" means a heavier-than-air aircraft which is supported in flight by the dynamic reaction of the air against its fixed lifting surfaces, the free flight of which does not depend on an engine, including also hang gliders, paragliders and other comparable aircraft;

"secondary surveillance radar" or "SSR" means a surveillance radar system which uses transmitters, receivers (interrogators) and transponders;

"SERA" means the Standard European Rules of the Air;

"SIGMET information" means information issued by a meteorological watch office concerning the occurrence or expected occurrence of specified en-route weather phenomena which may affect the safety of aircraft operations;

"signal area" means an area on an aerodrome used for the display of ground signals;

"significant point" means a specified geographical location used in defining an ATS route or the flight path of an aircraft and for other navigation and ATS purposes;

"strayed aircraft" means an aircraft which has deviated significantly from its intended track or which reports that it is lost;

"taxiing" means the movement of an aircraft on the surface of an aerodrome or an operating site under its own power, excluding take-off and landing;

"taxiway" means a defined path on a land aerodrome established for the taxiing of aircraft and intended to provide a link between one part of the aerodrome and another, including -

- (a) an aircraft stand taxilane;
- (b) an apron taxiway; and
- (c) a rapid exit taxiway;

"territory" means the land areas and territorial waters adjacent thereto under the sovereignty, suzerainty, protection or mandate of a State;

"threshold" means the beginning of that portion of the runway usable for landing;

"total estimated elapsed time" means -

- (a) for IFR flights, the estimated time required from take- off to arrive over that designated point, defined by reference to navigation aids, from which it is intended that an instrument approach procedure will be commenced, or, if no navigation aid is associated with the destination aerodrome, to arrive over the destination aerodrome;
- (b) for VFR flights, the estimated time required from take- off to arrive over the destination aerodrome:

"toy aircraft" means an unmanned aircraft designed or intended for use, whether exclusively, in play by children under 14 years of age;

"track" means the projection on the earth's surface of the path of an aircraft, the direction of which path at any point is usually expressed in degrees from North (true, magnetic or grid);

"traffic avoidance advice" means an advice provided by an air traffic services unit specifying manoeuvres to assist a pilot to avoid a collision;

"traffic information" means information issued by an air traffic services unit to alert a pilot to other known or observed air traffic which may be in proximity to the position or intended route of flight and to help the pilot avoid a collision:

"transfer of control point" means a defined point located along the flight path of an aircraft, at which the responsibility for providing air traffic control service to the aircraft is transferred from one control unit or control position to the next; "transition level" means the lowest flight level available for use above the transition altitude;

"transponder mandatory zone" or "TMZ" means an airspace of defined dimensions wherein the carriage and operation of pressure-altitude reporting transponders is mandatory;

"unidentified aircraft" means an aircraft which has been observed or reported to be operating in a given area but whose identity has not been established:

"unmanned free balloon" means a non-power-driven, unmanned, lighterthan-air aircraft in free flight;

"VFR flight" means a flight conducted in accordance with the Visual Flight Rules;

"visibility" means visibility for aeronautical purposes which is the greater of –

- (a) the greatest distance at which a black object of suitable dimensions, situated near the ground, can be seen and recognized when observed against a bright background;
- (b) the greatest distance at which lights in the vicinity of 1 000 candelas can be seen and identified against an unlit background;

"Visual Flight Rules" or "VFR" means the Visual Flight Rules set out in Part 5;

"voice-automatic terminal information service" or "Voice-ATIS" means the provision of ATIS by means of continuous and repetitive voice broadcast:

"visual meteorological conditions" or "VMC" means meteorological conditions expressed in terms of visibility, distance from cloud, and ceiling, equal to or better than specified minima.

(2) A word or phrase used but not defined in these Rules shall have the meaning given by the Air Navigation (Jersey) Law 2014 whether or not that word or phrase is defined in the Standard European Rules of the Air (as defined in Article 46 of that Law) as amended from time to time.

2 Application

- (1) These Rules, apply
 - (a) to airspace users and aircraft engaged in general air traffic
 - (i) operating into, within or out of Jersey, and
 - (ii) to all aircraft bearing the nationality and registration mark of aircraft registered in Jersey, and operating in any airspace to the extent that these Rules do not conflict with the rules of the air of the country having jurisdiction over the territory overflown; and
 - (b) to air navigation service providers, aerodrome operators and ground personnel engaged in aircraft operations.

(2) These Rules shall not apply to model aircraft and toy aircraft.

3 Exemptions for special operations

The competent authority may, either on the authority's own initiative or based on applications by the entities concerned, grant exemptions to an entity or to category of entities from any of the requirements of these Rules for the following activities of public interest and for the training necessary to carry out those activities safely —

- (a) police and customs;
- (b) traffic surveillance and pursuit missions;
- (c) environmental control missions conducted by, or on behalf of public authorities;
- (d) search and rescue;
- (e) medical flights;
- (f) evacuations;
- (g) fire fighting;
- (h) exemptions required to ensure the security of flights by heads of State, and comparable State functionaries.

PART 2

GENERAL FLIGHT RULES

4 General (flights over the high seas) (SERA.1001)

For flights over the high seas Annex 2 to the Chicago Convention shall apply without exception.

5 Compliance with the rules of the air (SERA.2005)

The operation of an aircraft either in flight, on the movement area or at an operating site shall be in compliance with the general rules, the applicable local provisions and, in addition, when in flight, either with –

- (a) the Visual Flight Rules; or
- (b) the Instrument Flight Rules.

6 Responsibilities (SERA.2010)

(1) The pilot-in-command of an aircraft shall, whether manipulating the controls or not, be responsible for the operation of the aircraft in accordance with these Rules, except that the pilot-in-command may depart from these Rules in circumstances that render such departure absolutely necessary in the interests of safety.

- (2) Before beginning a flight, the pilot-in-command of an aircraft shall become familiar with all available information appropriate to the intended operation.
- (3) Pre-flight action for flights away from the vicinity of an aerodrome, and for all IFR flights, shall include a careful study of available current weather reports and forecasts, taking into consideration fuel requirements and an alternative course of action if the flight cannot be completed as planned.

7 Authority of pilot-in-command of an aircraft (SERA.2015)

The pilot-in-command of an aircraft shall have final authority as to the disposition of the aircraft while in command.

8 Problematic use of psychoactive substances (SERA.2020)

- (1) A person whose function is critical to the safety of aviation because that person is a safety-sensitive personnel shall not undertake that function while under the influence of any psychoactive substance, by reason of which human performance is impaired.
- (2) A person referred to in paragraph (1) shall not engage in any kind of problematic use of substances.

PART 3

GENERAL RULES AND COLLISION AVOIDANCE

Chapter 1 – Protection of persons and property

9 Negligent or reckless operation of aircraft (SERA.3101)

An aircraft shall not be operated in a negligent or reckless manner so as to endanger life or property of others.

10 Minimum heights (SERA.3105)

- (1) Except when necessary for take-off or landing, or except by permission from the competent authority, aircraft shall not be flown over the congested areas of cities, towns or settlements or over an open-air assembly of persons, unless at such a height as will permit, in the event of an emergency arising, a landing to be made without undue hazard to persons or property on the surface.
- (2) The minimum heights for VFR flights shall be those specified in Rule 34(6) and minimum levels for IFR flights shall be those specified in Rule 36(2).

11 Cruising levels (SERA.3110)

The cruising levels at which a flight or a portion of a flight is to be conducted shall be in terms of –

- (a) flight levels, for flights at or above the lowest usable flight level or, where applicable, above the transition altitude; or
- (b) altitudes, for flights below the lowest usable flight level or, where applicable, at or below the transition altitude.

12 Dropping or spraying (SERA.3115)

Dropping or spraying from an aircraft in flight shall only be conducted in accordance with –

- (a) the applicable law for aircraft operations; and
- (b) as indicated by any relevant information, advice and clearance from the appropriate air traffic services unit.

13 Towing (SERA.3120)

An aircraft or other object shall only be towed by an aircraft in accordance with -

- (a) the applicable law for aircraft operations; and
- (b) as indicated by any relevant information, advice and clearance from the appropriate air traffic services unit.

14 Parachute descents (SERA.3125)

Parachute descents, other than emergency descents, shall only be made in accordance with –

- (a) the applicable law for aircraft operations; and
- (b) as indicated by any relevant information, advice and clearance from the appropriate air traffic services unit.

15 Aerobatic flight (SERA.3130)

Aerobatic flights shall only be carried out in accordance with –

- (a) the applicable law for aircraft operations; and
- (b) as indicated by any relevant information, advice and clearance from the appropriate air traffic services unit.

16 Formation flights (SERA.3135)

(1) Aircraft shall not be flown in formation except by pre-arrangement among the pilots-in-command of the aircraft taking part in the flight and, for formation flight in controlled airspace, in accordance with the conditions specified by the competent authority.

- (2) The conditions referred to in paragraph (1) shall include the following
 - (a) one of the pilots-in-command shall be designated as the flight leader:
 - (b) the formation shall operate as a single aircraft with regard to navigation and position reporting;
 - (c) separation between aircraft in the flight shall be the responsibility of the flight leader and the pilots-in-command of the other aircraft in the flight and shall include periods of transition when aircraft are manoeuvring to attain their own separation within the formation and during join-up and breakaway;
 - (d) for State aircraft, there shall be a maximum lateral, longitudinal and vertical distance between each aircraft and the flight leader in accordance with the Chicago Convention; and
 - (e) for other than State aircraft, a distance not exceeding 1 km (0,5 nm) laterally and longitudinally and 30 m (100 ft) vertically from the flight leader shall be maintained by each aircraft.

17 Unmanned free balloons (SERA.3140)

An unmanned free balloon shall be operated in such a manner as to minimize hazards to persons, property or other aircraft and in accordance with Appendix 2.

18 Prohibited areas and restricted areas (SERA.3145)

Aircraft shall not be flown in a prohibited area, or in a restricted area, the particulars of which have been duly published, except in accordance with the conditions of the restrictions or by permission of the competent authority in the jurisdiction over whose territory the area is established.

Chapter 2 – Avoidance of collisions

19 General (SERA.3201)

Nothing in these Rules shall relieve the pilot-in-command of an aircraft from the responsibility of taking such action, including collision avoidance manoeuvres based on resolution advisories provided by ACAS equipment, as will best avert collision.

20 Proximity (SERA.3205)

An aircraft shall not be operated in such proximity to other aircraft as to create a collision hazard.

21 Right-of-way (SERA.3210)

(1) The aircraft that has the right-of-way shall maintain its heading and speed.

- (2) An aircraft that is aware that the manoeuvrability of another aircraft is impaired shall give way to that aircraft.
- (3) An aircraft that is obliged by this Rule to keep out of the way of another shall avoid passing over, under or in front of the other, unless it passes well clear and takes into account the effect of aircraft wake turbulence.
- (4) When 2 aircraft are approaching head-on or approximately so and there is danger of collision, each shall alter its heading to the right.
- (5) When 2 aircraft are converging at approximately the same level, the aircraft that has the other on its right shall give way, except as follows
 - (a) power-driven heavier-than-air aircraft shall give way to airships, sailplanes and balloons;
 - (b) airships shall give way to sailplanes and balloons;
 - (c) sailplanes shall give way to balloons;
 - (d) power-driven aircraft shall give way to aircraft which are seen to be towing other aircraft or objects.
- (6) An aircraft that is being overtaken has the right-of-way and the overtaking aircraft, whether climbing, descending or in horizontal flight, shall keep out of the way of the other aircraft by altering its heading to the right, and no subsequent change in the relative positions of the 2 aircraft shall absolve the overtaking aircraft from this obligation until it is entirely past and clear.
- (7) A sailplane overtaking another sailplane may alter its course to the right or to the left.
- (8) An aircraft in flight, or operating on the ground or water, shall give way to an aircraft landing or in the final stages of an approach to land.
- (9) When 2 or more heavier-than-air aircraft are approaching an aerodrome or an operating site for the purpose of landing, aircraft at the higher level shall give way to aircraft at the lower level, but the latter shall not take advantage of this rule to cut in front of another which is in the final stages of an approach to land, or to overtake that aircraft.
- (10) Notwithstanding paragraph (9), a power-driven heavier-than-air aircraft shall give way to a sailplane.
- (11) An aircraft that is aware that another is compelled to land shall give way to that aircraft.
- (12) An aircraft taxiing on the manoeuvring area shall give way to an aircraft taking off or about to take off.
- (13) In case of danger of collision between 2 aircraft taxiing on the movement area or equivalent part of an operating site, the following shall apply
 - (a) when 2 aircraft are approaching head on, or approximately so, each shall stop or where practicable alter its course to the right so as to keep well clear;
 - (b) when 2 aircraft are on a converging course, the one which has the other on its right shall give way;

- (c) an aircraft which is being overtaken by another aircraft shall have the right-of-way and the overtaking aircraft shall keep well clear of the other aircraft.
- (14) At a controlled aerodrome an aircraft taxiing on the manoeuvring area shall stop and hold at all runway-holding positions unless an explicit clearance to enter or cross the runway has been issued by the aerodrome control tower.
- (15) An aircraft taxiing on the manoeuvring area shall stop and hold at all lighted stop bars and may proceed further in accordance with paragraph (14) when the lights are switched off.
- (16) The movement of persons or vehicles, including towed aircraft, on the manoeuvring area shall be controlled by the aerodrome control tower as necessary to avoid hazard to them or to aircraft landing, taxiing or taking off.
- (17) In conditions where low visibility procedures are in operation
 - (a) persons and vehicles operating on the manoeuvring area shall be restricted to the essential minimum, and particular regard shall be given to the requirements to protect the ILS/MLS critical/sensitive areas when Category II or Category III precision instrument operations are in progress;
 - (b) subject to paragraph (18) the minimum separation between vehicles and taxiing aircraft shall be as specified by the ANSP and approved by the competent authority taking into account the aids available;
 - (c) when mixed ILS and MLS Category II or Category III precision instrument operations are taking place to the same runway continuously, the more restrictive ILS or MLS critical and sensitive areas shall be protected.
- (18) Emergency vehicles proceeding to the assistance of an aircraft in distress shall be afforded priority over all other surface movement traffic.
- (19) Subject to paragraph (18), vehicles on the manoeuvring area shall be required to comply with the following rules
 - (a) vehicles and vehicles towing aircraft shall give way to aircraft which are landing, taking off, taxiing or being towed;
 - (b) vehicles shall give way to other vehicles towing aircraft;
 - (c) vehicles shall give way to other vehicles in accordance with air traffic services unit instructions:
 - (d) notwithstanding sub-paragraphs (a), (b) and (c), vehicles and vehicles towing aircraft shall comply with instructions issued by the aerodrome control tower.
- (20) In this Rule an overtaking aircraft is an aircraft that approaches another from the rear on a line forming an angle of less than 70 degrees with the plane of symmetry of the latter, i.e. is in such a position with reference to the other aircraft that at night it should be unable to see either of the aircraft's left (port) or right (starboard) navigation lights.

22 Lights to be displayed by aircraft (SERA.3215)

- (1) At night all aircraft in flight shall display
 - (a) anti-collision lights intended to attract attention to the aircraft; and
 - (b) except for balloons, navigation lights intended to indicate the relative path of the aircraft to an observer and other lights shall not be displayed if they are likely to be mistaken for these lights.

(2) At night –

- (a) all aircraft moving on the movement area shall display navigation lights intended to indicate the relative path of the aircraft to an observer and other lights shall not be displayed if they are likely to be mistaken for these lights;
- (b) unless stationary and otherwise adequately illuminated, all aircraft on the movement area shall display lights intended to indicate the extremities of their structure, as far as practicable;
- (c) all aircraft taxiing or being towed on the movement area shall display lights intended to attract attention to the aircraft; and
- (d) all aircraft on the movement area whose engines are running shall display lights which indicate that fact.
- (3) Subject to paragraph (5), all aircraft in flight and fitted with anti-collision lights to meet the requirement of paragraph (1)(a) shall display such lights also during day.
- (4) All aircraft
 - (a) taxing or being towed on the movement area and fitted with anticollision lights, to meet the requirement of paragraph (2)(c); or
 - (b) on the movement area and fitted with lights to meet the requirement of paragraph (2)(d), shall display such lights also during day.
- (5) Notwithstanding paragraph (1), (2), (3) or (4), a pilot shall be permitted to switch off or reduce the intensity of any flashing lights fitted to meet the requirements of paragraphs (1), (2), (3) and (4) if they do or are likely to
 - (a) adversely affect the satisfactory performance of duties; or
 - (b) subject an outside observer to harmful dazzle.

23 Simulated instrument flights (SERA.3220)

- (1) An aircraft shall not be flown under simulated instrument flight conditions unless
 - (a) fully functioning dual controls are installed in the aircraft; and
 - (b) an additional qualified pilot (a "safety pilot") occupies a control seat to act as safety pilot for the person who is flying under simulated instrument conditions.
- (2) The safety pilot shall have adequate vision forward and to each side of the aircraft, or a competent observer in communication with the safety

pilot shall occupy a position in the aircraft from which the observer's field of vision adequately supplements that of the safety pilot.

Operation on and in the vicinity of an aerodrome (SERA.3225)

An aircraft operated on or in the vicinity of an aerodrome shall –

- (a) observe other aerodrome traffic for the purpose of avoiding collision;
- (b) conform with or avoid the pattern of traffic formed by other aircraft in operation;
- (c) except for balloons, make all turns to the left, when approaching for a landing and after taking off, unless otherwise indicated, or instructed by the appropriate air traffic control unit;
- (d) except for balloons, land and take off into the wind unless safety, the runway configuration, or air traffic considerations determine that a different direction is preferable.

25 Water operations (SERA.3230)

- (1) When 2 aircraft, or an aircraft and a vessel, are approaching one another and there is a risk of collision, the aircraft shall proceed with careful regard to existing circumstances and conditions including the limitations of the respective craft.
- (2) An aircraft which has another aircraft or a vessel on its right shall give way so as to keep well clear.
- (3) An aircraft approaching another aircraft or a vessel head-on, or approximately so, shall alter its heading to the right to keep well clear.
- (4) The aircraft or vessel which is being overtaken has the right of way, and the one overtaking shall alter its heading to keep well clear.
- (5) Aircraft landing on or taking off from the water shall, in so far as practicable, keep well clear of all vessels and avoid impeding their navigation.

Chapter 3 – Signals

26 General (SERA.3301)

- (1) Upon observing or receiving any of the signals given in Appendix 1, aircraft shall take such action as may be required by the interpretation of the signal given in that Appendix.
- (2) The signals of Appendix 1 shall, when used, have the meaning indicated in that Appendix and shall be used only for the purpose indicated and no other signals likely to be confused with them shall be used.
- (3) A signalman shall be responsible for providing standard marshalling signals to aircraft in a clear and precise manner using the signals shown in Appendix 1.

- (4) Only persons trained, qualified and approved under the applicable law shall carry out the functions of a signalman.
- (5) The signalman shall wear a distinctive fluorescent identification vest to allow the flight crew to identify that he or she is the person responsible for the marshalling operation.
- (6) Daylight-fluorescent wands, table-tennis bats or gloves shall be used for all signalling by all participating ground staff during daylight hours.
- (7) Illuminated wands shall be used at night or in low visibility.

Chapter 4 - Time

27 General (SERA.3401)

- (1) Coordinated Universal Time (UTC) shall be used and shall be expressed in hours and minutes and, when required, seconds of the 24-hour day beginning at midnight.
- (2) A time check shall be obtained prior to operating a controlled flight and at such other times during the flight as may be necessary.
- (3) Wherever time is utilized in the application of data link communications, it shall be accurate to within one second of UTC.
- (4) An aerodrome control tower shall, prior to an aircraft taxiing for take-off, provide the pilot with the correct time, unless arrangements have been made for the pilot to obtain it from other sources.
- (5) An air traffic services unit shall, in addition, provide an aircraft with the correct time on request.
- (6) A time check shall be given at least to the nearest minute.

PART 4

FLIGHT PLANS

28 Submission of a flight plan (SERA.4001)

- (1) Information relative to an intended flight or portion of a flight, to be provided to air traffic services units, shall be in the form of a flight plan.
- (2) A flight plan shall be submitted prior to operating
 - (a) any flight or portion thereof to be provided with air traffic control service;
 - (b) any IFR flight within advisory airspace;
 - (c) any flight within or into areas, or along routes designated by the competent authority, to facilitate the provision of flight information, alerting and search and rescue services;
 - (d) any flight within or into areas or along routes designated by the competent authority, to facilitate coordination with appropriate military units or with air traffic services units in adjacent States in

- order to avoid the possible need for interception for the purpose of identification;
- (e) any flight across international borders, unless otherwise specified by the States concerned;
- (f) any flight planned to operate at night, if leaving the vicinity of an aerodrome.
- (3) A flight plan shall be submitted, before departure, to an air traffic services reporting office or, during flight, transmitted to the appropriate air traffic services unit or air-ground control radio station, unless arrangements have been made for submission of a repetitive flight plan.
- (4) Unless a shorter period of time has been prescribed by the competent authority for a domestic VFR flight, a flight plan for any flight planned to operate across international borders or to be provided with air traffic control service or air traffic advisory service shall be submitted at least 60 minutes before departure, or, if submitted during flight, at a time which will ensure its receipt by the appropriate air traffic services unit at least 10 minutes before the aircraft is estimated to reach
 - (a) the intended point of entry into a control area or advisory airspace; or
 - (b) the point of crossing an airway or advisory route.

29 Contents of a flight plan (SERA.4005)

- (1) A flight plan shall comprise information regarding such of the following items as are considered relevant by the competent authority
 - (a) aircraft identification;
 - (b) flight rules and type of flight;
 - (c) number and type of aircraft and wake turbulence category;
 - (d) equipment;
 - (e) departure aerodrome or operating site;
 - (f) estimated off-block time;
 - (g) cruising speed;
 - (h) cruising level;
 - (i) route to be followed:
 - (j) destination aerodrome or operating site and total estimated elapsed time;
 - (k) alternate aerodrome or operating site;
 - (l) fuel endurance;
 - (m) total number of persons on board;
 - (n) emergency and survival equipment;
 - (o) other information.
- (2) For a flight plan submitted during flight, the departure aerodrome or operating site provided shall be the location from which supplementary information concerning the flight may be obtained, if required, and the

information to be provided in lieu of the estimated off-block time shall be the time over the first point of the route to which the flight plan relates.

30 Completion of a flight plan (SERA.4010)

- (1) A flight plan shall contain information, as applicable, on relevant items including the information specified in Rule 29(1)(a), (b), (c), (d), (e), (f), (g), (h), (i), (j) and (k), regarding the whole route or the portion thereof for which the flight plan is submitted.
- (2) A flight plan shall, in addition to the information specified in paragraph (1), contain information, as applicable, the information specified in Rule 29(1)(1), (m), (n) and (o) when so specified by the competent authority or when otherwise deemed necessary by the person submitting the flight plan.

31 Changes to a flight plan (SERA.4015)

- (1) Subject to Rule 47(2) all changes to a flight plan submitted for an IFR flight, or a VFR flight operated as a controlled flight, shall be reported as soon as practicable to the appropriate air traffic services unit.
- (2) For VFR flights, other than those referred to in paragraph (1), significant changes to a flight plan shall be reported as soon as practicable to the appropriate air traffic services unit.
- (3) Information submitted prior to departure regarding fuel endurance or total number of persons carried on board, if incorrect at time of departure, constitutes a significant change to the flight plan and as such shall be reported.

32 Closing a flight plan (SERA.4020)

- (1) An arrival report shall be made in person, by radiotelephony, via data link or by other means as specified by the competent authority at the earliest possible moment after landing, to the appropriate air traffic services unit at the arrival aerodrome, by any flight for which a flight plan has been submitted covering the entire flight or the remaining portion of a flight to the destination aerodrome.
- (2) Submission of an arrival report is not required after landing on an aerodrome where air traffic services are provided on condition that radio communication or visual signals indicate that the landing has been observed.
- (3) When a flight plan has been submitted only in respect of a portion of a flight, other than the remaining portion of a flight to destination, it shall, when required, be closed by an appropriate report to the relevant air traffic services unit.
- (4) When no air traffic services unit exists at the arrival aerodrome or operating site, the arrival report, when required, shall be made as soon as practicable after landing and by the quickest means available to the nearest air traffic services unit.

- (5) When communication facilities at the arrival aerodrome or operating site are known to be inadequate and alternate arrangements for the handling of arrival reports on the ground are not available, immediately prior to landing, the aircraft shall, if practicable, transmit to the appropriate air traffic services unit, a message comparable to an arrival report, where such a report is required.
- (6) Normally, the transmission referred to in sub-paragraph (5) shall be made to the aeronautical station serving the air traffic services unit in charge of the flight information region in which the aircraft is operated.
- (7) Arrival reports made by aircraft shall contain the following elements of information
 - (a) aircraft identification;
 - (b) departure aerodrome or operating site;
 - (c) destination aerodrome or operating site (only in the case of a diversionary landing);
 - (d) arrival aerodrome or operating site;
 - (e) time of arrival.

PART 5

VISUAL METEOROLOGICAL CONDITIONS, VISUAL FLIGHT RULES, SPECIAL VFR AND INSTRUMENT FLIGHT RULES

33 VMC visibility and distance from cloud minima (SERA.5001)

The following Table shall apply with respect to VMC visibility and cloud minima –

Table S5-1 ()*

Altitude band	Airspace class	Flight visibility	Distance from cloud
At and above 3 050 m (10 000 ft) AMSL	A (**) B C D E F G	8 km	1 500 m horizontally 300 m (1 000 ft) vertically
Below 3 050 m (10 000 ft) AMSL and above 900 m (3 000 ft) AMSL, or above 300 m (1 000 ft) above terrain, whichever is the higher	A (**) B C D E F G	5 km	1 500 m horizontally 300 m (1 000 ft) vertically
At and below 900 m (3 000 ft) AMSL, or 300 m (1 000 ft) above terrain, whichever is the higher	A (**) B C D E	5 km	1 500 m horizontally 300 m (1 000 ft) vertically
	FG	5 km (***)	Clear of cloud and with the surface in sight

- (*) When the height of the transition altitude is lower than 3 050 m (10 000 ft) AMSL, FL 100 shall be used in lieu of 10 000 ft.
- (**) The VMC minima in Class A airspace are included for guidance to pilots and do not imply acceptance of VFR flights in Class A airspace.
- (***) When so prescribed by the competent authority
 - (a) light visibilities reduced to not less than 1 500 m may be permitted for flights operating
 - (1) at speeds of 140 kts IAS or less to give adequate opportunity to observe other traffic or any obstacles in time to avoid collision, or
 - (2) in circumstances in which the probability of encounters with other traffic would normally be low, e.g. in areas of low volume traffic and for aerial work at low levels;
 - (b) Helicopters may be permitted to operate in less than 1 500 m but not less than 800 m flight visibility, if manoeuvred at a speed that will give adequate opportunity to observe other traffic or any obstacles in time to avoid collision.

34 Visual Flight Rules (SERA.5005)

- (1) Except when operating as a special VFR flight, VFR flights shall be conducted so that the aircraft is flown in conditions of visibility and distance from clouds equal to or greater than those specified in the Table S5-1 in Rule 33.
- (2) Except when a special VFR clearance is obtained from an air traffic control unit, a VFR flight shall not take off or land at an aerodrome within a control zone, or enter the aerodrome traffic zone or aerodrome traffic circuit when the reported meteorological conditions at that aerodrome are below the following minima
 - (a) the ceiling is less than 450 m (1 500 ft); or
 - (b) the ground visibility is less than 5 km.
- (3) When so prescribed by the competent authority, a VFR flight at night may be permitted under the following conditions
 - (a) if leaving the vicinity of an aerodrome, a flight plan shall be submitted in accordance with Rule 28(2)(f);
 - (b) a flight shall establish and maintain two-way radio communication on the appropriate ATS communication channel, when available;
 - (c) the VMC visibility and distance from cloud minima as specified in the Table S5-1 in Rule 33 shall apply except that
 - (i) the ceiling shall not be less than 450 m (1 500 ft),
 - (ii) the reduced flight visibility provisions specified in paragraph (a) and (b) of the Table S5-1 in Rule 33 shall not apply,
 - (iii) in airspace classes B, C, D, E, F and G, at and below 900 m (3 000 ft) AMSL or 300 m (1 000 ft) above terrain, whichever is the higher, the pilot shall maintain continuous sight of the surface, and

- (iv) for mountainous areas, higher VMC visibility and distance from cloud minima may be prescribed by the competent authority;
- (d) except when necessary for take-off or landing, or except when specifically authorized by the competent authority, a VFR flight at night shall be flown at a level which is not below the minimum flight altitude established by the State whose territory is overflown, or, where no such minimum flight altitude has been established –
 - (i) over high terrain or in mountainous areas, at a level which is at least 600 m (2 000 ft) above the highest obstacle located within 8 km of the estimated position of the aircraft,
 - (ii) elsewhere than as specified in clause (i), at a level which is at least 300 m (1 000 ft) above the highest obstacle located within 8 km of the estimated position of the aircraft.
- (4) VFR flights shall not be operated
 - (a) at transonic and supersonic speeds unless authorised by the competent authority;
 - (b) above FL 195 except where -
 - an airspace reservation has been established, where practical, by the relevant State, in which VFR flights may be allowed, or
 - (ii) airspace up to and including flight level 285, when VFR traffic in that airspace has been authorized by the responsible air traffic services unit in accordance with the authorisation procedures established by the relevant State and published in the relevant Aeronautical Information Publication.
- (5) Authorization for VFR flights to operate above FL 285 shall not be granted where a vertical separation minimum of 300 m (1 000 ft) is applied above FL 290.
- (6) Except when necessary for take-off or landing, or except by permission from the competent authority, a VFR flight shall not be flown
 - (a) over the congested areas of cities, towns or settlements or over an open-air assembly of persons at a height less than 300 m (1 000 ft) above the highest obstacle within a radius of 600 m from the aircraft;
 - (b) elsewhere than as specified in sub-paragraph (a), at a height less than 150 m (500 ft) above the ground or water, or 150 m (500 ft) above the highest obstacle within a radius of 150 m (500 ft) from the aircraft.
- (7) Except where otherwise indicated in ATC clearances or specified by the competent authority, VFR flights in level cruising flight when operated above 900 m (3 000 ft) from the ground or water, or a higher datum as specified by the competent authority, shall be conducted at a cruising level appropriate to the track as specified in the table of cruising levels in Appendix 3.
- (8) VFR flights shall comply with Part 8
 - (a) when operated within airspace Classes B, C and D;

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- (b) when forming part of aerodrome traffic at controlled aerodromes; or
- (c) when operated as special VFR flights.
- (9) A VFR flight operating within or into areas or along routes designated by the competent authority, in accordance with Rule 28(2)(c) or (d), shall maintain continuous air-ground voice communication watch on the appropriate communication channel of, and report its position as necessary to, the air traffic services unit providing flight information service.
- (10) An aircraft operated in accordance with the Visual Flight Rules which wishes to change to compliance with the Instrument Flight Rules shall
 - (a) if a flight plan was submitted, communicate the necessary changes to be effected to its current flight plan; or
 - (b) as required by Rule 28(2), submit a flight plan to the appropriate air traffic services unit as soon as practicable and obtain a clearance prior to proceeding IFR when in controlled airspace.

35 Special VFR in control zones (SERA.5010)

- (1) Special VFR flights may be authorized to operate within a control zone, subject to an ATC clearance.
- (2) Except when permitted by the competent authority for helicopters in special cases such as, but not limited to, police, medical, search and rescue operations and fire-fighting flights, the following additional conditions shall be applied
 - (a) such special VFR flights may be conducted during the day only, unless otherwise permitted by the competent authority;
 - (b) the aircraft must be flown
 - (i) clear of cloud and with the surface in sight,
 - (ii) with the flight visibility of not less than 1 500 m or, for helicopters, not less than 800 m,
 - (iii) at a speed of 140 kts IAS or less to give adequate opportunity to observe other traffic and any obstacles in time to avoid a collision; and
 - (c) an air traffic control unit shall not issue a special VFR clearance to aircraft to take off or land at an aerodrome within the control zone or aerodrome traffic circuit when the reported meteorological conditions at the aerodrome are below the following minima
 - (i) the ground visibility is not less than 1 500 m or, for helicopters, not less than 800 m,
 - (ii) the ceiling is not less than 180 m (600 ft).

36 Instrument Flight Rules (IFR) – Rules applicable to all IFR flights (SERA.5015)

- (1) Aircraft shall be equipped with suitable instruments and with navigation equipment appropriate to the route to be flown and in accordance with the applicable law relating to air operations.
- (2) Except when necessary for take-off or landing, or except when specifically authorized by the competent authority, an IFR flight shall be flown at a level which is not below the minimum flight altitude established by the State whose territory is overflown, or, where no such minimum flight altitude has been established
 - (a) over high terrain or in mountainous areas, at a level which is at least 600 m (2 000 ft) above the highest obstacle located within 8 km of the estimated position of the aircraft;
 - (b) elsewhere than as specified in sub-paragraph (a), at a level which is at least 300 m (1 000 ft) above the highest obstacle located within 8 km of the estimated position of the aircraft.
- (3) An aircraft electing to change the conduct of its flight from compliance with the Instrument Flight Rules to compliance with the visual flight rules shall notify the appropriate air traffic services unit specifically that the IFR flight is cancelled and communicate thereto the changes to be made to its current flight plan.
- (4) When an aircraft operating under the Instrument Flight Rules is flown in or encounters visual meteorological conditions it shall not cancel its IFR flight unless it is anticipated, and intended, that the flight will be continued for a reasonable period of time in uninterrupted visual meteorological conditions.

37 IFR – Rules applicable to IFR flights within controlled airspace (SERA.5020)

- (1) IFR flights shall comply with Part 8 when operated in controlled airspace.
- (2) An IFR flight operating in cruising flight in controlled airspace shall be flown at a cruising level, or, if authorized by the air traffic services unit to employ cruise climb techniques, between 2 levels or above a level, selected from the table of cruising levels in Appendix 3, except that the correlation of levels to track prescribed therein shall not apply whenever otherwise indicated in ATC clearances or specified by the competent authority in Aeronautical Information Publications.

38 IFR – Rules Applicable to IFR flights outside controlled airspace (SERA.5025)

(1) An IFR flight operating in level cruising flight outside of controlled airspace shall be flown at a cruising level appropriate to its track as specified in the table of cruising levels in Appendix 3, except when otherwise specified by the competent authority for flight at or below 900 m (3 000 ft) above mean sea level.

- (2) An IFR flight operating outside controlled airspace but within or into areas, or along routes, designated by the competent authority in accordance with Rule 28(2)(c) or (d) shall maintain an air-ground voice communication watch on the appropriate communication channel and establish two-way communication, as necessary, with the air traffic services unit providing flight information service.
- (3) An IFR flight operating outside controlled airspace and required by the competent authority to maintain an air-ground voice communication watch on the appropriate communication channel and establish two-way communication, as necessary, with the air traffic services unit providing flight information service, shall report position, as specified in Rule 48 for controlled flights.

PART 6

AIRSPACE CLASSIFICATION

39 Classification of airspaces (SERA.6001)

- (1) Airspace may be designated and notified by a competent authority in accordance with the following airspace classification and in accordance with Appendix 4
 - (a) Class A in which
 - (i) IFR flights only are permitted,
 - (ii) all flights are provided with air traffic control service and are separated from each other,
 - (iii) continuous air-ground voice communications are required for all flights,
 - (iv) all flights are subject to ATC clearance;
 - (b) Class B in which
 - (i) IFR flights and VFR flights are permitted,
 - (ii) all flights are provided with air traffic control service and are separated from each other,
 - (iii) continuous air-ground voice communications are required for all flights,
 - (iv) all flights are subject to ATC clearance;
 - (c) Class C in which
 - (i) IFR flights and VFR flights are permitted,
 - (ii) all flights are provided with air traffic control service and IFR flights are separated from other IFR flights and from VFR flights,
 - (iii) VFR flights are separated from IFR flights and receive traffic information in respect of other VFR flights and traffic avoidance advice on request,
 - (iv) continuous air-ground voice communications are required for all flights,

- (v) for VFR flights a speed limitation of 250 kts IAS applies below 3 050 m (10 000 ft) AMSL, except where approved by the competent authority for aircraft types, which for technical or safety reasons, cannot maintain this speed,
- (vi) all flights are subject to ATC clearance;
- (d) Class D in which
 - (i) IFR flights and VFR flights are permitted and all flights are provided with air traffic control service,
 - (ii) IFR flights are separated from other IFR flights, receive traffic information in respect of VFR flights and traffic avoidance advice on request,
 - (iii) VFR flights receive traffic information in respect of all other flights and traffic avoidance advice on request,
 - (iv) continuous air-ground voice communications are required for all flights and a speed limitation of 250 kts IAS applies to all flights below 3 050 m (10 000 ft) AMSL, except where approved by the competent authority for aircraft types, which for technical or safety reasons, cannot maintain this speed,
 - (v) all flights are subject to ATC clearance;
- (e) Class E in which
 - (i) IFR flights and VFR flights are permitted,
 - (ii) IFR flights are provided with air traffic control service and are separated from other IFR flights,
 - (iii) all flights receive traffic information, as far as is practical,
 - (iv) continuous air-ground voice communications are required for IFR flights,
 - (v) a speed limitation of 250 kts IAS applies to all flights below 3 050 m (10 000 ft) AMSL, except where approved by the competent authority for aircraft types, which for technical or safety reasons, cannot maintain this speed,
 - (vi) all IFR flights are subject to ATC clearance;
- (f) Class F in which
 - (i) IFR flights and VFR flights are permitted,
 - (ii) all participating IFR flights receive an air traffic advisory service and all flights receive flight information service if requested,
 - (iii) continuous air-ground voice communications are required for IFR flights participating in the advisory service and all IFR flights must be capable of establishing air-ground voice communications,
 - (iv) a speed limitation of 250 kts IAS applies to all flights below 3 050 m (10 000 ft) AMSL, except where approved by the competent authority for aircraft types, which for technical or safety reasons, cannot maintain this speed,
 - (v) ATC clearance is not required,

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and implementation of Class F shall be considered as a temporary measure until such time as it can be replaced by alternative classification;

- (g) Class G in which
 - (i) IFR flights and VFR flights are permitted and receive flight information service if requested,
 - (ii) All IFR flights must be capable of establishing air-ground voice communications,
 - (iii) A speed limitation of 250 kts IAS applies to all flights below 3 050 m (10 000 ft) AMSL, except where approved by the competent authority for aircraft types, which for technical or safety reasons, cannot maintain this speed,
 - (iv) ATC clearance is not required.
- (2) The designation of the airspace classification under paragraph (1) shall be appropriate to the needs of Jersey except that airspace above FL 195 shall be classified as Class C airspace.
- (3) Class E shall not be used for control zones.

40 Requirements for communications and SSR transponder (SERA.6005)

Radio mandatory zone (RMZ)

- (1) VFR flights operating in parts of airspace Class E, F or G and IFR flights operating in parts of airspace Class F or G designated as a radio mandatory zone (RMZ) by the competent authority shall maintain continuous air- ground voice communication watch and establish two-way communication, as necessary, on the appropriate communication channel, unless in compliance with alternative provisions prescribed for that particular airspace by the ANSP.
- (2) Before entering RMZ, an initial call containing the designation of the station being called, call sign, type of aircraft, position, level, the intentions of the flight and other information as prescribed by the competent authority, shall be made by pilots on the appropriate communication channel.

Transponder mandatory zone (TMZ)

- (3) All flights operating in airspace designated by the competent authority as a transponder mandatory zone (TMZ) shall carry and operate SSR transponders capable of operating on modes A and C or on mode S, unless in compliance with alternative provisions prescribed for that particular airspace by the ANSP.
- (4) Airspaces designated as RMZ or TMZ shall be duly promulgated in the Aeronautical Information Publications.

PART 7

AIR TRAFFIC SERVICES

41 General – Objectives of the air traffic services (SERA.7001)

The objectives of the air traffic services shall be to –

- (a) prevent collisions between aircraft;
- (b) prevent collisions between aircraft on the manoeuvring area and obstructions on that area;
- (c) expedite and maintain an orderly flow of air traffic;
- (d) provide advice and information useful for the safe and efficient conduct of flights;
- (e) notify appropriate authorities regarding aircraft in need of search and rescue aid, and assist such authorities as required.

Coordination between the aircraft operator and air traffic services (SERA.7005)

- (1) Air traffic services units, in carrying out their objectives, shall have due regard for the requirements of the aircraft operators consequent on their obligations as specified in the applicable law on air operations, and, if so required by the aircraft operators, shall make available to them or their designated representatives such information as may be available to enable them or their designated representatives to carry out their responsibilities.
- (2) When so requested by an aircraft operator, messages (including position reports) received by air traffic services units and relating to the operation of the aircraft for which operational control service is provided by that aircraft operator shall, so far as practicable, be made available immediately to the aircraft operator or a designated representative in accordance with locally agreed procedures.

PART 8

AIR TRAFFIC CONTROL SERVICE

43 Application (SERA.8001)

Air traffic control service shall be provided –

- (a) to all IFR flights in airspace Classes A, B, C, D and E;
- (b) to all VFR flights in airspace Classes B, C and D;
- (c) to all special VFR flights;
- (d) to all aerodrome traffic at controlled aerodromes.

44 Operation of air traffic control service (SERA.8005)

- (1) In order to provide air traffic control service, an air traffic control unit shall
 - (a) be provided with information on the intended movement of each aircraft, or variations therefrom, and with current information on the actual progress of each aircraft;
 - (b) determine from the information received, the relative positions of known aircraft to each other;
 - (c) issue clearances and information for the purpose of preventing collision between aircraft under its control and of expediting and maintaining an orderly flow of traffic;
 - (d) coordinate clearances as necessary with other units
 - (i) whenever an aircraft might otherwise conflict with traffic operated under the control of such other units,
 - (ii) before transferring control of an aircraft to such other units.
- (2) Clearances issued by air traffic control units shall provide separation
 - (a) between all flights in airspace Classes A and B;
 - (b) between IFR flights in airspace Classes C, D and E;
 - (c) between IFR flights and VFR flights in airspace Class C;
 - (d) between IFR flights and special VFR flights;
 - (e) between special VFR flights unless otherwise prescribed by the competent authority,

except that, when requested by the pilot of an aircraft and agreed by the pilot of the other aircraft and if so prescribed by the competent authority for the cases listed this paragraph in airspace Classes D and E, a flight may be cleared subject to maintaining own separation in respect of a specific portion of the flight below 3 050 m (10 000 ft) during climb or descent, during day in visual meteorological conditions.

- (3) Except for cases when a reduction in separation minima in the vicinity of aerodromes can be applied, separation by an air traffic control unit shall be obtained by at least one of the following
 - (a) vertical separation, obtained by assigning different levels selected from the table of cruising levels in Appendix 3 except that the correlation of levels to track as specified therein shall not apply whenever otherwise indicated in appropriate Aeronautical Information Publications or ATC clearances;
 - (b) horizontal separation, obtained by providing
 - (i) longitudinal separation, by maintaining an interval between aircraft operating along the same, converging or reciprocal tracks, expressed in time or distance, or
 - (ii) lateral separation, by maintaining aircraft on different routes or in different geographical areas.
- (4) For the purposes of paragraph (3)(a), the vertical separation minimum shall be a nominal 300 m (1 000 ft) up to and including FL 410 and a nominal 600 m (2 000 ft) above this level.

45 Separation minima (SERA.8010)

- (1) The selection of separation minima for application within a given portion of airspace shall be made by the ANSP responsible for the provision of air traffic services and approved by the competent authority concerned.
- (2) For traffic that will pass from one into the other of neighbouring airspaces and for routes that are closer to the common boundary of the neighbouring airspaces than the separation minima applicable in the circumstances, the selection of separation minima shall be made in consultation between the ANSPs responsible for the provision of air traffic services in neighbouring airspace.
- (3) Details of the selected separation minima and of their areas of application shall be notified
 - (a) to the air traffic services units concerned; and
 - (b) to pilots and aircraft operators through Aeronautical Information Publications, where separation is based on the use by aircraft of specified navigation aids or specified navigation techniques.

46 Air traffic control clearances (ATC clearance) (SERA.8015)

(1) ATC clearances shall be based solely on the requirements for providing air traffic control service.

Operation subject to clearance

- (2) An ATC clearance shall be obtained prior to operating a controlled flight, or a portion of a flight as a controlled flight and such clearance shall be requested through the submission of a flight plan to an air traffic control unit.
- (3) The pilot-in-command of an aircraft shall inform ATC if an ATC clearance is not satisfactory and in such cases, ATC will issue an amended clearance, if practicable.
- (4) Whenever an aircraft has requested a clearance involving priority, a report explaining the necessity for such priority shall be submitted, if requested by the appropriate air traffic control unit.
- (5) If, prior to departure, it is anticipated that, depending on fuel endurance and subject to reclearance in flight, a decision may be taken to proceed to a revised destination aerodrome, the appropriate air traffic control units shall be so notified by the insertion in the flight plan of information concerning the revised route (where known) and the revised destination.
- (6) An aircraft operated on a controlled aerodrome shall not taxi on the manoeuvring area without clearance from the aerodrome control tower and shall comply with any instructions given by that unit.

Clearances for transonic flight

- (7) The ATC clearance relating to the transonic acceleration phase of a supersonic flight shall extend at least to the end of that phase.
- (8) The ATC clearance relating to the deceleration and descent of an aircraft from supersonic cruise to subsonic flight shall seek to provide for uninterrupted descent at least during the transonic phase.

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Contents of clearances

- (9) An ATC clearance shall indicate
 - (a) aircraft identification as shown in the flight plan;
 - (b) clearance limit;
 - (c) route of flight;
 - (d) levels of flight for the entire route or part thereof and changes of levels if required;
 - (e) any necessary instructions or information on other matters such as approach or departure manoeuvres, communications and the time of expiry of the clearance.

Read-back of clearances and safety-related information

- (10) The flight crew shall read back to the air traffic controller safety-related parts of ATC clearances and instructions which are transmitted by voice. The following items shall always be read back
 - (a) ATC route clearances;
 - (b) clearances and instructions to enter, land on, take off from, hold short of, cross, taxi and backtrack on any runway;
 - (c) runway-in-use, altimeter settings, SSR codes, newly assigned communication channels, level instructions, heading and speed instructions; and
 - (d) transition levels, whether issued by the controller or contained in ATIS broadcasts.
- (11) Other clearances or instructions, including conditional clearances and taxi instructions, shall be read back or acknowledged in a manner to clearly indicate that they have been understood and will be complied with.
- (12) The controller shall listen to the read-back to ascertain that the clearance or instruction has been correctly acknowledged by the flight crew and shall take immediate action to correct any discrepancies revealed by the read-back.
- (13) Voice read-back of controller-pilot data link communications messages shall not be required, unless otherwise specified by the ANSP.

Coordination of clearances

- (14) An ATC clearance shall be coordinated between air traffic control units to cover the entire route of an aircraft or a specified portion thereof as described in paragraphs (2) to (6).
- (15) An aircraft shall be cleared for the entire route to the aerodrome of first intended landing
 - (a) when it has been possible, prior to departure, to coordinate the clearance between all the units under whose control the aircraft will come; or
 - (b) when there is reasonable assurance that prior coordination will be effected between those units under whose control the aircraft will subsequently come.

- (16) When coordination as in paragraph (15) has not been achieved or is not anticipated, the aircraft shall be cleared only to that point where coordination is reasonably assured, prior to reaching such point, or at such point, the aircraft shall receive further clearance, holding instructions being issued as appropriate.
- (17) When prescribed by the air traffic services unit, aircraft shall contact a downstream air traffic control unit, for the purpose of receiving a downstream clearance prior to the transfer of control point.
- (18) Aircraft shall maintain the necessary two-way communication with the current air traffic control unit whilst obtaining a downstream clearance.
- (19) A clearance issued as a downstream clearance shall be clearly identifiable as such to the pilot.
- (20) Unless coordinated, downstream clearances shall not affect the aircraft's original flight profile in any airspace, other than that of the air traffic control unit responsible for the delivery of the downstream clearance.
- (21) When an aircraft intends to depart from an aerodrome within a control area to enter another control area within a period of thirty minutes, or such other specific period of time as has been agreed between the area control centres concerned, coordination with the subsequent area control centre shall be effected prior to issuance of the departure clearance.
- (22) When an aircraft intends to leave a control area for flight outside controlled airspace, and will subsequently re-enter the same or another control area, a clearance from the point of departure to the aerodrome of first intended landing may be issued and such clearance or revisions to the clearance shall apply only to those portions of the flight conducted within controlled airspace.

47 Adherence to flight plan (SERA.8020)

- (1) Except as provided for in paragraphs (5) and (7), an aircraft shall adhere to the current flight plan or the applicable portion of a current flight plan submitted for a controlled flight unless a request for a change has been made and clearance obtained from the appropriate air traffic control unit, or unless an emergency situation arises which necessitates immediate action by the aircraft, in which event as soon as circumstances permit, after such emergency authority is exercised, the appropriate air traffic services unit shall be notified of the action taken and that this action has been taken under emergency authority.
- (2) unless otherwise authorized by the competent authority, or directed by the appropriate air traffic control unit, controlled flights shall, in so far as practicable
 - (a) when on an established ATS route, operate along the defined centre line of that route; or
 - (b) when on any other route, operate directly between the navigation facilities or points defining that route, or both.
- (3) Unless otherwise authorized by the competent authority, or directed by the appropriate air traffic control unit, an aircraft operating along an ATS

route segment defined by reference to very high frequency omnidirectional radio ranges shall change over for its primary navigation guidance from the facility behind the aircraft to that ahead of it at, or as close as operationally feasible to, the changeover point, where established.

(4) Deviation from the requirements in paragraph (2) shall be notified to the appropriate air traffic services unit.

Inadvertent changes

- (5) In the event that a controlled flight inadvertently deviates from its current flight plan, the following action shall be taken
 - (a) *deviation from track* if the aircraft is off track, action shall be taken forthwith to adjust the heading of the aircraft to regain track as soon as practicable;
 - (b) variation in true airspeed if the average true airspeed at cruising level between reporting points varies or is expected to vary by plus or minus 5 per cent of the true airspeed, from that given in the flight plan, the appropriate air traffic services unit shall be so informed;
 - (c) change in time estimate if the time estimate for the next applicable reporting point, flight information region boundary or destination aerodrome, whichever comes first, is found to be in error in excess of 2 minutes from that notified to air traffic services, or such other period of time as is prescribed by the competent authority or on the basis of ICAO regional air navigation agreements, a revised estimated time shall be notified as soon as possible to the appropriate air traffic services unit;
 - (d) when an ADS-C agreement is in place, the air traffic services unit shall be informed automatically via data link whenever changes occur beyond the threshold values stipulated by the ADS-C event contract.

Intended changes

- (6) Requests for flight plan changes shall include the following information
 - (a) Change of cruising level aircraft identification, requested new cruising level and cruising speed at this level, revised time estimates (when applicable) at subsequent flight information region boundaries;
 - (b) Change of route -
 - (i) Destination unchanged aircraft identification, flight rules, description of new route of flight including related flight plan data beginning with the position from which requested change of route is to commence, revised time estimates, any other pertinent information,
 - (ii) Destination changed aircraft identification, flight rules, description of revised route of flight to revised destination aerodrome including related flight plan data, beginning with the position from which requested change of route is to

commence, revised time estimates, alternate aerodromes, any other pertinent information.

Weather deterioration below the VMC

- (7) When it becomes evident that flight in VMC in accordance with its current flight plan will not be practicable, a VFR flight operated as a controlled flight shall
 - (a) request an amended clearance enabling the aircraft to continue in VMC to destination or to an alternative aerodrome, or to leave the airspace within which an ATC clearance is required;
 - (b) if no clearance in accordance with sub-paragraph (a) can be obtained, continue to operate in VMC and notify the appropriate air traffic control unit of the action being taken either to leave the airspace concerned or to land at the nearest suitable aerodrome;
 - (c) if operated within a control zone, request authorization to operate as a special VFR flight; or
 - (d) request clearance to operate in accordance with the Instrument Flight Rules.

48 Position reports (SERA.8025)

- (1) Unless exempted by the competent authority or by the appropriate air traffic services unit under conditions specified by that competent authority, a controlled flight shall report to the appropriate air traffic services unit, as soon as possible, the time and level of passing each designated compulsory reporting point, together with any other required information, and position reports shall similarly be made in relation to additional points when requested by the appropriate air traffic services unit.
- (2) In the absence of designated reporting points, position reports shall be made at intervals prescribed by the competent authority or specified by the appropriate air traffic services unit.
- (3) Controlled flights providing position information to the appropriate air traffic services unit via data link communications shall only provide voice position reports when requested.

49 Termination of control (SERA.8030)

A controlled flight shall, except when landing at a controlled aerodrome, advise the appropriate air traffic control unit as soon as it ceases to be subject to air traffic control service.

50 Communications (SERA.8035)

(1) An aircraft operated as a controlled flight shall maintain continuous airground voice communication watch on the appropriate communication channel of, and establish two-way communication as necessary with, the appropriate air traffic control unit, except as may be prescribed by the

- relevant ANSP in respect of aircraft forming part of aerodrome traffic at a controlled aerodrome.
- (2) The requirement for an aircraft to maintain an air-ground voice communication watch shall remain in effect when controller-pilot data link communications have been established.

PART 9

FLIGHT INFORMATION SERVICE

51 Application (SERA.9001)

- (1) Flight information service shall be provided by the appropriate air traffic services units to all aircraft which are likely to be affected by the information and which are
 - (a) provided with air traffic control service; or
 - (b) otherwise known to the relevant air traffic services units.
- (2) The reception of flight information service does not relieve the pilot-in-command of an aircraft of any responsibilities and the pilot-in-command shall make the final decision regarding any suggested alteration of flight plan.
- (3) Where air traffic services units provide both flight information service and air traffic control service, the provision of air traffic control service shall have precedence over the provision of flight information service whenever the provision of air traffic control service so requires.

52 Scope of flight information service (SERA.9005)

- (1) Flight information service shall include the provision of pertinent
 - (a) SIGMET information and AIRMET information;
 - (b) information concerning pre-eruption volcanic activity, volcanic eruptions and volcanic ash clouds;
 - (c) information concerning the release into the atmosphere of radioactive materials or toxic chemicals;
 - (d) information on changes in the availability of radio navigation services:
 - (e) information on changes in condition of aerodromes and associated facilities, including information on the state of the movement areas when they are affected by snow, ice or significant depth of water;
 - (f) information on unmanned free balloons, and of any other information likely to affect safety.
- (2) Flight information service provided to flights shall include, in addition to that outlined in paragraph (1), the provision of information concerning
 - (a) weather conditions reported or forecast at departure, destination and alternate aerodromes;

- (b) collision hazards, to aircraft operating in airspace Classes C, D, E, F and G:
- (c) for flight over water areas, in so far as practicable and when requested by a pilot, any available information such as radio call sign, position, true track, speed, etc., of surface vessels in the area.
- (3) Flight information service provided to VFR flights shall include, in addition to that outlined in paragraph (1), the provision of available information concerning traffic and weather conditions along the route of flight that are likely to make operation under the visual flight rules impracticable.

53 Automatic terminal information service (ATIS) (SERA.9010)

Use of the ATIS messages in directed request or reply transmissions

- (1) When requested by the pilot, the applicable ATIS message shall be transmitted by the appropriate air traffic services unit.
- (2) Whenever Voice-ATIS or D-ATIS, or both, is provided
 - (a) aircraft shall acknowledge receipt of the information upon establishing communication with the air traffic services unit providing approach control service, the aerodrome control tower or Aerodrome Flight Information Service (AFIS), as appropriate; and
 - (b) the appropriate air traffic services unit shall, when replying to an aircraft acknowledging receipt of an ATIS message or, in the case of arriving aircraft, at such other time as may be specified by the competent authority, provide the aircraft with the current altimeter setting.
- (3) Information contained in a current ATIS message, the receipt of which has been acknowledged by the aircraft concerned, need not be included in a directed transmission to the aircraft, with the exception of the altimeter setting, which shall be provided in accordance with paragraph (2).
- (4) If an aircraft acknowledges receipt of an ATIS message that is no longer current, any element of information that needs updating shall be transmitted to the aircraft without delay.

ATIS for arriving and departing aircraft

- (5) ATIS messages containing both arrival and departure information shall contain the following elements of information in the order listed
 - (a) name of aerodrome:
 - (b) arrival or departure indicator;
 - (c) contract type, if communication is via D-ATIS;
 - (d) designator;
 - (e) time of observation, if appropriate;
 - (f) type of approach to be expected;
 - (g) the runway in use, status of arresting system constituting a potential hazard, if any;

- (h) significant runway surface conditions and, if appropriate, braking action:
- (i) holding delay, if appropriate;
- (j) transition level, if applicable,
- (k) other essential operational information;
- (l) surface wind direction and speed, including significant variations and, if surface wind sensors related specifically to the sections of runway in use are available and the information is required by aircraft operators, the indication of the runway and the section of the runway to which the information refers;
- (m) visibility and, when applicable, RVR*;
 - (*These elements are replaced by the term "CAVOK" when the following conditions occur simultaneously at the time of observation: (a) visibility, 10 km or more, and the lowest visibility not reported, (b) no cloud of operational significance, and (c) no weather of significance to aviation.)
- (n) present weather*;
 - (*These elements are replaced by the term "CAVOK" when the following conditions occur simultaneously at the time of observation: (a) visibility, 10 km or more, and the lowest visibility not reported, (b) no cloud of operational significance, and (c) no weather of significance to aviation.)
- (o) cloud below 1 500 m (5 000 ft) or below the highest minimum sector altitude, whichever is greater, cumulonimbus, if the sky is obscured, vertical visibility when available*;
 - (*These elements are replaced by the term "CAVOK" when the following conditions occur simultaneously at the time of observation: (a) visibility, 10 km or more, and the lowest visibility not reported, (b) no cloud of operational significance, and (c) no weather of significance to aviation.)
- (p) air temperature;
- (q) dew point temperature;
- (r) altimeter setting;
- (s) any available information on significant meteorological phenomena in the approach and climb-out areas including wind shear, and information on recent weather of operational significance;
- (t) trend forecast, when available; and
- (u) specific ATIS instructions.

ATIS for arriving aircraft

- (6) ATIS messages containing arrival information only shall contain the following elements of information in the order listed
 - (a) name of aerodrome;
 - (b) arrival indicator;
 - (c) contract type, if communication is via D-ATIS;

- (d) designator;
- (e) time of observation, if appropriate;
- (f) type of approach to be expected;
- (g) main landing runway, status of arresting system constituting a potential hazard, if any;
- (h) significant runway surface conditions and, if appropriate, braking action;
- (i) holding delay, if appropriate;
- (j) transition level, if applicable;
- (k) other essential operational information;
- (l) surface wind direction (in degrees magnetic) and speed, including significant variations and, if surface wind sensors related specifically to the sections of runway(s) in use are available and the information is required by aircraft operators, the indication of the runway and the section of the runway to which the information refers;
- (m) visibility and, when applicable, RVR*, and if visibility/RVR sensors related specifically to the sections of runway in use are available and the information is required by operators, the indication of the runway and the section of the runway to which the information refers:
 - (*These elements are replaced by the term "CAVOK" when the following conditions occur simultaneously at the time of observation: (a) visibility, 10 km or more, and the lowest visibility not reported, (b) no cloud of operational significance, and (c) no weather of significance to aviation.)
- (n) present weather*;
 - (*These elements are replaced by the term "CAVOK" when the following conditions occur simultaneously at the time of observation: (a) visibility, 10 km or more, and the lowest visibility not reported, (b) no cloud of operational significance, and (c) no weather of significance to aviation.)
- (o) cloud below 1 500 m (5 000 ft) or below the highest minimum sector altitude, whichever is greater, cumulonimbus, if the sky is obscured, vertical visibility when available*;
 - (*These elements are replaced by the term "CAVOK" when the following conditions occur simultaneously at the time of observation: (a) visibility, 10 km or more, and the lowest visibility not reported, (b) no cloud of operational significance, and (c) no weather of significance to aviation.)
- (p) air temperature;
- (q) dew point temperature;
- (r) altimeter setting(s);
- (s) any available information on significant meteorological phenomena in the approach area including wind shear, and information on recent weather of operational significance;

- (t) trend forecast, when available; and
- (u) specific ATIS instructions.

ATIS for departing aircraft

- (7) ATIS messages containing departure information only shall contain the following elements of information in the order listed
 - (a) name of aerodrome;
 - (b) departure indicator;
 - (c) contract type, if communication is via D-ATIS;
 - (d) designator;
 - (e) time of observation, if appropriate;
 - (f) runway to be used for take-off, status of arresting system constituting a potential hazard, if any;
 - (g) significant surface conditions of the runway to be used for take-off and, if appropriate, braking action;
 - (h) departure delay, if appropriate;
 - (i) transition level, if applicable;
 - (j) other essential operational information;
 - (k) surface wind direction (in degrees magnetic) and speed, including significant variations and, if surface wind sensors related specifically to the sections of the runway in use are available and the information is required by aircraft operators, the indication of the runway and the section of the runway to which the information refers:
 - (l) visibility and, when applicable, RVR*, and if visibility/RVR sensors related specifically to the sections of runway in use are available and the information is required by operators, the indication of the runway and the section of the runway to which the information refers;
 - (*These elements are replaced by the term "CAVOK" when the following conditions occur simultaneously at the time of observation: (a) visibility, 10 km or more, and the lowest visibility not reported, (b) no cloud of operational significance, and (c) no weather of significance to aviation.)
 - (m) present weather*;
 - (*These elements are replaced by the term "CAVOK" when the following conditions occur simultaneously at the time of observation: (a) visibility, 10 km or more, and the lowest visibility not reported, (b) no cloud of operational significance, and (c) no weather of significance to aviation.)
 - (n) cloud below 1 500 m (5 000 ft) or below the highest minimum sector altitude, whichever is greater, cumulonimbus, if the sky is obscured, vertical visibility when available*;
 - (*These elements are replaced by the term "CAVOK" when the following conditions occur simultaneously at the time of observation: (a) visibility, 10 km or more, and the lowest visibility

not reported, (b) no cloud of operational significance, and (c) no weather of significance to aviation.)

- air temperature; (o)
- dew point temperature; (p)
- altimeter setting; (q)
- significant meteorological (r) any available information on phenomena in the climb-out area including wind shear;
- trend forecast, when available; and (s)
- specific ATIS instructions. (t)

PART 10

ALERTING SERVICE

54 **Application (SERA.10001)**

Alerting service shall be provided by the air traffic services units –

- for all aircraft provided with air traffic control service; (a)
- (b) in so far as practicable, to all other aircraft having filed a flight plan or otherwise known to the ATS; and
- (c) to any aircraft known or believed to be the subject of unlawful interference.

55 Information to aircraft operating in the vicinity of an aircraft in a state of emergency (SERA.10005)

- When it has been established by an air traffic services unit that an aircraft (1) is in a state of emergency, other aircraft known to be in the vicinity of the aircraft involved shall, except as provided in paragraph (2), be informed of the nature of the emergency as soon as practicable.
- (2) When an air traffic services unit knows or believes that an aircraft is being subjected to unlawful interference, no reference shall be made in ATS air-ground communications to the nature of the emergency unless it has first been referred to in communications from the aircraft involved and it is certain that such reference will not aggravate the situation.

PART 11

INTERFERENCE, EMERGENCY CONTINGENCIES AND INTERCEPTION

56 **Unlawful interference (SERA.11001)**

An aircraft which is being subjected to unlawful interference shall endeavour to set the transponder to Code 7500 and notify the appropriate air traffic services unit of any significant circumstances associated therewith, and any deviation from the current flight plan necessitated by the circumstances, in order to enable the air traffic services unit to give priority to the aircraft and to minimize conflict with other aircraft.

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(2) If an aircraft is subjected to unlawful interference, the pilot-in-command shall attempt to land as soon as practicable at the nearest suitable aerodrome or at a dedicated aerodrome assigned by the competent authority unless considerations aboard the aircraft dictate otherwise.

57 Service to aircraft in the event of an emergency (SERA.11005)

- (1) In the case of an aircraft known or believed to be in a state of emergency, including being subjected to unlawful interference, air traffic services units shall give the aircraft maximum consideration, assistance and priority over other aircraft as may be necessitated by the circumstances.
- (2) When an occurrence of unlawful interference with an aircraft takes place or is suspected
 - (a) air traffic services units shall attend promptly to requests by the aircraft;
 - (b) information pertinent to the safe conduct of the flight shall continue to be transmitted; and
 - (c) necessary action shall be taken to expedite the conduct of all phases of the flight, especially the safe landing of the aircraft.
- (3) When an occurrence of unlawful interference with an aircraft takes place or is suspected, air traffic services units shall, in accordance with locally agreed procedures, immediately inform the appropriate authority designated by the State and exchange necessary information with the aircraft operator or its designated representative.

58 Strayed or unidentified aircraft(SERA.11010)

- (1) As soon as an air traffic services unit becomes aware of a strayed aircraft it shall take all necessary steps in paragraphs (2) and (4) to assist the aircraft and to safeguard its flight.
- (2) If the aircraft's position is not known, the air traffic services unit shall
 - (a) attempt to establish two-way communication with the aircraft, unless such communication already exists;
 - (b) use all available means to determine its position;
 - (c) inform other air traffic services units into whose area the aircraft may have strayed or may stray, taking into account all the factors which may have affected the navigation of the aircraft in the circumstances;
 - (d) inform, in accordance with locally agreed procedures, appropriate military units and provide them with pertinent flight plan and other data concerning strayed aircraft;
 - (e) request from the units referred to in sub-paragraphs (c) and (d) and from other aircraft in flight every assistance in establishing communication with the aircraft and determining its position.
- (3) The requirements in paragraph (2)(d) and (e) shall apply also to air traffic services units informed in accordance with paragraph (2)(c).

- (4) When the aircraft's position is established, the air traffic services unit shall
 - (a) advise the aircraft of its position and corrective action to be taken and this advice shall be immediately provided when the air traffic services unit is aware that there is a possibility of interception or other hazard to the safety of the aircraft; and
 - (b) provide, as necessary, other air traffic services units and appropriate military units with relevant information concerning the strayed aircraft and any advice given to that aircraft.
- (5) As soon as an air traffic services unit becomes aware of an unidentified aircraft in its area, it shall endeavour to establish the identity of the aircraft whenever this is necessary for the provision of air traffic services or required by the appropriate military authorities in accordance with locally agreed procedures and to this end, the air traffic services unit shall take such of the following steps as are appropriate in the circumstances
 - (a) attempt to establish two-way communication with the aircraft;
 - (b) inquire of other air traffic services units within the flight information region about the flight and request their assistance in establishing two-way communication with the aircraft;
 - (c) inquire of air traffic services units serving the adjacent flight information regions about the flight and request their assistance in establishing two-way communication with the aircraft;
 - (d) attempt to obtain information from other aircraft in the area;
 - (e) inform the appropriate military unit as soon as the identity of the aircraft has been established.
- (6) In the case of a strayed or unidentified aircraft, the possibility of the aircraft being the subject of unlawful interference shall be taken into account and should the air traffic services unit consider that a strayed or unidentified aircraft may be the subject of unlawful interference, the appropriate authority designated by the State shall immediately be informed, in accordance with locally agreed procedures.

59 ACAS resolution advisory (RA) (SERA.11014)

- (1) ACAS II shall be used during flight, except as provided in any minimum equipment list specified in respect of that aircraft in a mode that enables RA indications to be produced for the flight crew when undue proximity to another aircraft is detected.
- (2) Paragraph (1) shall not apply if inhibition of RA indication mode (using traffic advisory (TA) indication only or equivalent) is called for by an abnormal procedure or due to performance-limiting conditions.
- (3) In the event of an ACAS RA, pilots shall
 - (a) respond immediately by following the RA, as indicated, unless doing so would jeopardise the safety of the aircraft;
 - (b) follow the RA even if there is a conflict between the RA and an ATC instruction to manoeuvre;
 - (c) not manoeuvre in the opposite sense to an RA;

States 🖏 of Jersey

- (d) as soon as possible, as permitted by flight crew workload, notify the appropriate ATC unit of any RA which requires a deviation from the current ATC instruction or clearance;
- (e) promptly comply with any modified RAs;
- (f) limit the alterations of the flight path to the minimum extent necessary to comply with the RAs;
- (g) promptly return to the terms of the ATC instruction or clearance when the conflict is resolved; and
- (h) notify ATC when returning to the current clearance.
- (4) When a pilot reports an ACAS RA, the controller shall not attempt to modify the aircraft flight path until the pilot reports "CLEAR OF CONFLICT".
- (5) Once an aircraft departs from its ATC clearance or instruction in compliance with an RA, or a pilot reports an RA, the controller ceases to be responsible for providing separation between that aircraft and any other aircraft affected as a direct consequence of the manoeuvre induced by the RA.
- (6) The controller shall resume responsibility for providing separation to all the affected aircraft when
 - (a) the controller acknowledges a report from the flight crew that the aircraft has resumed the current clearance; or
 - (b) the controller acknowledges a report from the flight crew that the aircraft is resuming the current clearance and issues an alternative clearance which is acknowledged by the flight crew.

60 Interception (SERA.11015)

- (1) Except for intercept and escort service provided on request to an aircraft, interception of civil aircraft shall be governed by applicable law and administrative directives in compliance with the Chicago Convention, and in particular Article 3(d) of that Convention under which ICAO Contracting States undertake, when issuing regulations for their State aircraft, to have due regard for the safety of navigation of civil aircraft.
- (2) The pilot-in-command of a civil aircraft, when intercepted, shall
 - (a) immediately follow the instructions given by the intercepting aircraft, interpreting and responding to visual signals in accordance with the specifications in the following Tables –

 ${\it Table~S11-1}$ Signals initiated by intercepting aircraft and responses by intercepted aircraft

Series	INTERCEPTING Aircraft Signals	Meaning	INTERCEPTED Aircraft Responds	Meaning
1	Aircraft Signals DAY or NIGHT –	You have	Aircraft Responds DAY or NIGHT –	Understood
1	Rocking aircraft and flashing navigational lights at irregular intervals (and landing lights in the case of a helicopter) from a position slightly above and ahead of, and normally to the left of, the intercepted aircraft (or to the right if the intercepted aircraft is a helicopter) and, after acknowledgement, a slow level turn, normally to the left (or to the right in the case of a helicopter) on the desired	You have been intercepted. Follow me.	DAY or NIGHT – Rocking aircraft, flashing navigational lights at irregular intervals and following.	Understood, will comply
	heading. Note 1 Meteorological conditions or terrain may require the intercepting aircraft to reverse the positions and direction of turn given above in Series 1.			
	Note 2 If the intercepted aircraft is not able to keep pace with the intercepting aircraft, the latter is expected to fly a series of racetrack patterns and to rock the aircraft each time it passes the intercepted aircraft.			

2	DAY or NIGHT – An abrupt breakaway manoeuvre from the intercepted aircraft consisting of a climbing turn of 90 degrees or more	You may proceed.	DAY or NIGHT – Rocking the aircraft.	Understood, will comply.
	without crossing the line of flight of the intercepted aircraft.			
3	DAY or NIGHT – Lowering landing gear (if fitted), showing steady landing lights and overflying runway in use or, if the intercepted aircraft is a helicopter, overflying the helicopter landing area. In the case of helicopters, the intercepting helicopter makes a landing approach, coming to hover near to the landing area.	Land at this aerodrome.	DAY or NIGHT – Lowering landing gear, (if fitted), showing steady landing lights and following the intercepting aircraft and, if, after overflying the runway in use or helicopter landing area, landing is considered safe, proceeding to land.	Understood, will comply.

 ${\it Table~S11-2}$ Signals initiated by intercepted aircraft and responses by intercepting aircraft

Series	INTERCEPTED	Meaning	INTERCEPTING	Meaning
	Aircraft Signals		Aircraft Responds	
4	DAY or NIGHT -	Aerodrome	DAY or NIGHT – If	Understood,
	Raising landing gear	you have	it is desired that the	follow me.
	(if fitted) and flashing	designated	intercepted aircraft	Understood,
	landing lights while	is	follow the	you may
	passing over runway in	inadequate.	intercepting aircraft	proceed.
	use or helicopter		to an alternate	
	landing area at a		aerodrome, the	
	height exceeding		intercepting aircraft	
	300 m (1 000 ft) but		raises its landing	
	not exceeding 600 m		gear (if fitted) and	
	(2 000 ft) (in the case		uses the Series 1	
	of a helicopter, at a		signals prescribed for	
	height exceeding 50 m		intercepting aircraft.	
	(170 ft) but not		If it is decided to	
	exceeding 100 m		release the	

	(330 ft)) above the aerodrome level, and continuing to circle runway in use or helicopter landing area. If unable to flash landing lights, flash any other lights available.		intercepted aircraft, the intercepting aircraft uses the Series 2 signals prescribed for intercepting aircraft.	
5	DAY or NIGHT – Regular switching on and off of all available lights but in such a manner as to be distinct from flashing lights.	Cannot comply.	DAY or NIGHT – Use Series 2 signals prescribed for intercepting aircraft.	Understood.
6	DAY or NIGHT – Irregular flashing of all available lights.	In distress.	DAY or NIGHT – Use Series 2 signals prescribed for intercepting aircraft.	Understood.

- (b) notify, if possible, the appropriate air traffic services unit;
- (c) attempt to establish radio-communication with the intercepting aircraft or with the appropriate intercept control unit, by making a general call on the emergency frequency 121,5 MHz, giving the identity of the intercepted aircraft and the nature of the flight, and if no contact has been established and if practicable, repeating this call on the emergency frequency 243 MHz;
- (d) if equipped with SSR transponder, select Mode A, Code 7700, unless otherwise instructed by the appropriate air traffic services unit:
- (e) if equipped with ADS-B or ADS-C, select the appropriate emergency functionality, if available, unless otherwise instructed by the appropriate air traffic services unit.
- (3) If any instructions received by radio from any sources conflict with those given by the intercepting aircraft by visual signals, the intercepted aircraft shall request immediate clarification while continuing to comply with the visual instructions given by the intercepting aircraft.
- (4) If any instructions received by radio from any sources conflict with those given by the intercepting aircraft by radio, the intercepted aircraft shall request immediate clarification while continuing to comply with the radio instructions given by the intercepting aircraft.
- (5) If radio contact is established during interception but communication in a common language is not possible, attempts shall be made to convey instructions, acknowledgement of instructions and essential information by using the phrases and pronunciations in the following Table and transmitting each phrase twice –

Table S11-3

Phrases for use by INTERCEPTING aircraft		Phrases for use by INTERCEPTED aircraft			
Phrase	Pronunciation ⁽¹⁾	Meaning	Phrase	Pronunciation ⁽¹⁾	Meaning
CALL SIGN	KOL SA-IN	What is your call sign?	CALL SIGN (call sign) ⁽²⁾	KOL SA-IN (call sign)	My call sign is (call sign)
FOLLOW	<u>FOL</u> -LO	Follow me	WILCO	<u>VILL</u> -KO	Understood, will comply
DESCEND	DEE- <u>SEND</u>	Descend for landing			
			CAN NOT	KANN NOTT	Unable to comply
YOU LAND	YOU LAAND	Land at this aerodrome	REPEAT	REE- <u>PEET</u>	Repeat your instruction
			AM LOST	AM LOSST	Position unknown
PROCEED	PRO- <u>SEED</u>	You may proceed			
			MAYDAY	MAYDAY	I am in distress
			HIJACK ⁽³⁾	<u>HI-JACK</u>	I have been hijacked
			LAND (place name)	LAAND (place name)	I request to land at (place name)
			DESCEND	DEE-SEND	I require descent

- (1) In the second column, syllables to be emphasized are underlined.
- (2) The call sign required to be given is that used in radiotelephony communications with air traffic services units and corresponding to the aircraft identification in the flight plan.
- (3) Circumstances may not always permit, nor make desirable, the use of the phrase "HIJACK".
 - (6) As soon as an air traffic services unit learns that an aircraft is being intercepted in its area of responsibility, it shall take such of the following steps as are appropriate in the circumstances
 - (a) attempt to establish two-way communication with the intercepted aircraft via any means available, including the emergency radio frequency 121,5 MHz, unless such communication already exists;
 - (b) inform the pilot of the intercepted aircraft of the interception;
 - (c) establish contact with the intercept control unit maintaining twoway communication with the intercepting aircraft and provide it with available information concerning the aircraft;
 - (d) relay messages between the intercepting aircraft or the intercept control unit and the intercepted aircraft, as necessary;

- (e) in close coordination with the intercept control unit take all necessary steps to ensure the safety of the intercepted aircraft;
- (f) inform air traffic services units serving adjacent flight information regions if it appears that the aircraft has strayed from such adjacent flight information regions.
- (7) As soon as an air traffic services unit learns that an aircraft is being intercepted outside its area of responsibility, it shall take such of the following steps as are appropriate in the circumstances
 - (a) inform the air traffic services unit serving the airspace in which the interception is taking place, providing this unit with available information that will assist in identifying the aircraft and requesting it to take action in accordance with paragraph (6);
 - (b) relay messages between the intercepted aircraft and the appropriate air traffic services unit, the intercept control unit or the intercepting aircraft.

PART 12

SERVICES RELATED TO METEOROLOGY – AIRCRAFT OBSERVATIONS AND REPORTS BY VOICE COMMUNICATIONS

61 Types of aircraft observations (SERA.12001)

The following aircraft observations shall be made during any phase of the flight –

- (a) special aircraft observations; and
- (b) other non-routine aircraft observations.

62 Special aircraft observations (SERA.12005)

- (1) Special observations shall be made and reported by all aircraft whenever the following conditions are encountered or observed
 - (a) moderate or severe turbulence;
 - (b) moderate or severe icing;
 - (c) severe mountain wave;
 - (d) thunderstorms, without hail, that are obscured, embedded, widespread or in squall lines;
 - (e) thunderstorms, with hail, that are obscured, embedded, widespread or in squall lines;
 - (f) heavy dust storm or heavy sandstorm;
 - (g) volcanic ash cloud;
 - (h) pre-eruption volcanic activity or a volcanic eruption.
- (2) Competent authorities shall prescribe as necessary other conditions which shall be reported by all aircraft when encountered or observed.

63 Other non-routine aircraft observations (SERA.12010)

When other meteorological conditions not listed under Rule 62(1), for example wind shear, are encountered and which, in the opinion of the pilot-in-command, may affect the safety or markedly affect the efficiency of other aircraft operations, the pilot-in-command shall advise the appropriate air traffic services unit as soon as practicable.

Reporting of aircraft observations by voice communication (SERA.12015)

- (1) Aircraft observations shall be reported during flight at the time the observation is made or as soon thereafter as is practicable.
- (2) Aircraft observations shall be reported as air-reports and shall comply with the technical specifications in Appendix 5.

65 Exchange of air-reports (SERA.12020)

- (1) Air traffic services units shall transmit, as soon as practicable, special and non-routine air-reports to
 - (a) other aircraft concerned;
 - (b) the associated meteorological watch office (MWO); and
 - (c) other air traffic services units concerned.
- (2) Transmissions to aircraft shall be repeated at a frequency and continued for a period of time which shall be determined by the air traffic services unit concerned.

APPENDIX 1

(Rule 26 (SERA.3301))

Signals

DISTRESS AND URGENCY SIGNALS

1.1. General

- 1.1.1. Notwithstanding the provisions in 1.2 and 1.3, an aircraft in distress shall use any means at its disposal to attract attention, make known its position and obtain help.
- 1.1.2. The telecommunication transmission procedures for the distress and urgency signals shall be in accordance with Volume II of Annex 10 to the Chicago Convention.

1.2. Distress signals

- 1.3.1 The following signals, used either together or separately, mean that grave and imminent danger threatens, and immediate assistance is requested:
 - (a) a signal made by radiotelegraphy or by any other signalling method consisting of the group SOS (...———... in the Morse Code);
 - (b) a radiotelephony distress signal consisting of the spoken word MAYDAY;
 - (c) a distress message sent via data link which transmits the intent of the word MAYDAY;
 - (d) rockets or shells throwing red lights, fired one at a time at short intervals;
 - (e) a parachute flare showing a red light;
 - (f) setting of the transponder to Mode A Code 7700.

1.3. Urgency signals

- 1.3.1. The following signals, used either together or separately, mean that an aircraft wishes to give notice of difficulties which compel it to land without requiring immediate assistance:
 - (a) the repeated switching on and off of the landing lights, or
 - (b) the repeated switching on and off of the navigation lights in such manner as to be distinct from flashing navigation lights.
- 1.3.2. The following signals, used either together or separately, mean that an aircraft has a very urgent message to transmit concerning the safety of a ship, aircraft or other vehicle, or of some person on board or within sight:
 - (a) a signal made by radiotelegraphy or by any other signalling method consisting of the group XXX (—..— ..— in the Morse Code),
 - (b) a radiotelephony urgency signal consisting of the spoken words PAN, PAN,
 - (c) an urgency message sent via data link which transmits the intent of the words PAN, PAN.

2. VISUAL SIGNALS USED TO WARN AN UNAUTHORIZED AIRCRAFT FLYING IN OR ABOUT TO ENTER A RESTRICTED, PROHIBITED OR DANGER AREA

2.1. When visual signals are used to warn unauthorized aircraft flying in or about to enter a restricted, prohibited or danger area by day and by night, a series of projectiles discharged from the ground at intervals of 10 seconds, each showing, on bursting, red and green lights or stars shall indicate to an unauthorized aircraft that it is flying in or about to enter a restricted, prohibited or danger area, and that the aircraft is to take such remedial action as may be necessary.

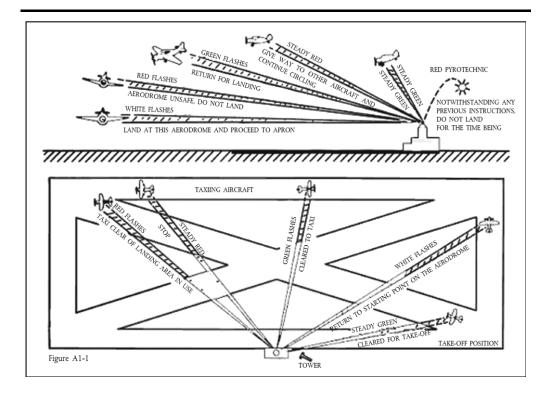
3. SIGNALS FOR AERODROME TRAFFIC

3.1. Light and pyrotechnic signals

3.1.1. Instructions

Table AP 1-1

Light		From Aerodrome Control to:			
		Aircraft in flight	Aircraft on the ground		
	Steady green	Cleared to land	Cleared for take-off		
ircraft	Steady red	Give way to other aircraft and continue circling	Stop		
wards a	Series of green flashes	Return for landing (*)	Cleared to taxi		
Directed towards aircrafi concerned (see Figure A1-1).	Series of red flashes	Aerodrome unsafe, do not land	Taxi clear of landing area in use		
	Series of white flashes	Land at this aerodrome and proceed to apron (*)	Return to starting point on the aerodrome		
Red pyrotechnic		Notwithstanding any previous instructions, do not land for the time being			
(*) Clearances to land and to taxi will be given in due course.					



3.1.2. Acknowledgement by an aircraft

- (a) When in flight:
 - (1) during the hours of daylight:
 - by rocking the aircraft's wings, except for the base and final legs of the approach,
 - (2) during the hours of darkness:
 - by flashing on and off twice the aircraft's landing lights or, if not so equipped, by switching on and off twice its navigation lights.
- (b) When on the ground:
 - (1) during the hours of daylight:
 - by moving the aircraft's ailerons or rudder,
 - (2) during the hours of darkness:
 - by flashing on and off twice the aircraft's landing lights or, if not so equipped, by switching on and off twice its navigation lights.

3.2. Visual ground signals

- 3.2.1. Prohibition of landing
- 3.2.1.1. A horizontal red square panel with yellow diagonals (Figure A1-2) when displayed in a signal area indicates that landings are prohibited and that the prohibition is liable to be prolonged.



Figure A1-2

- 3.2.2. Need for special precautions while approaching or landing
- 3.2.2.1. A horizontal red square panel with one yellow diagonal (Figure A1-3) when displayed in a signal area indicates that owing to the bad state of the manoeuvring area, or for any other reason, special precautions must be observed in approaching to land or in landing.



Figure A1-3

- 3.2.3. Use of runways and taxiways
- 3.2.3.1. A horizontal white dumb-bell (Figure A1-4) when displayed in a signal area indicates that aircraft are required to land, take off and taxi on runways and taxiways only.



3.2.3.2. The same horizontal white dumb-bell as in 3.2.3.1 but with a black bar placed perpendicular to the shaft across each circular portion of the dumb-bell (Figure A1-5) when displayed in a signal area indicates that aircraft are required to land and take off on runways only, but other manoeuvres need not be confined to runways and taxiways.



3.2.4. Closed runways or taxiways

3.2.4.1. Crosses of a single contrasting colour, white on runways and yellow on taxiways (Figure A1-6), displayed horizontally on runways and taxiways or parts thereof indicate an area unfit for movement of aircraft.



Figure A1-6

3.2.5. Directions for landing or take-off

3.2.5.1. A horizontal white or orange landing T (Figure A1-7) indicates the direction to be used by aircraft for landing and take-off, which shall be in a direction parallel to the shaft of the T towards the cross arm. When used at night, the landing T shall be either illuminated or outlined in white lights.



Figure A1-7

3.2.5.2. A set of two digits (Figure A1-8) displayed vertically at or near the aerodrome control tower indicates to aircraft on the manoeuvring area the direction for take-off, expressed in units of 10 degrees to the nearest 10 degrees of the magnetic compass.



3.2.6. Right-hand traffic

3.2.6.1. When displayed in a signal area, or horizontally at the end of the runway or strip in use, a right-hand arrow of conspicuous colour (Figure A1-9) indicates that turns are to be made to the right before landing and after take- off.



Figure A1-9

- 3.2.7. Air traffic services reporting office
- 3.2.7.1. The letter C displayed vertically in black against a yellow background (Figure A1-10) indicates the location of the air traffic services reporting office.



Figure A1-10

- 3.2.8. Sailplane flights in operation
- 3.2.8.1. A double white cross displayed horizontally (Figure A1-11) in the signal area indicates that the aerodrome is being used by sailplanes and that sailplane flights are being performed.



Figure A1-11

4. MARSHALLING SIGNALS

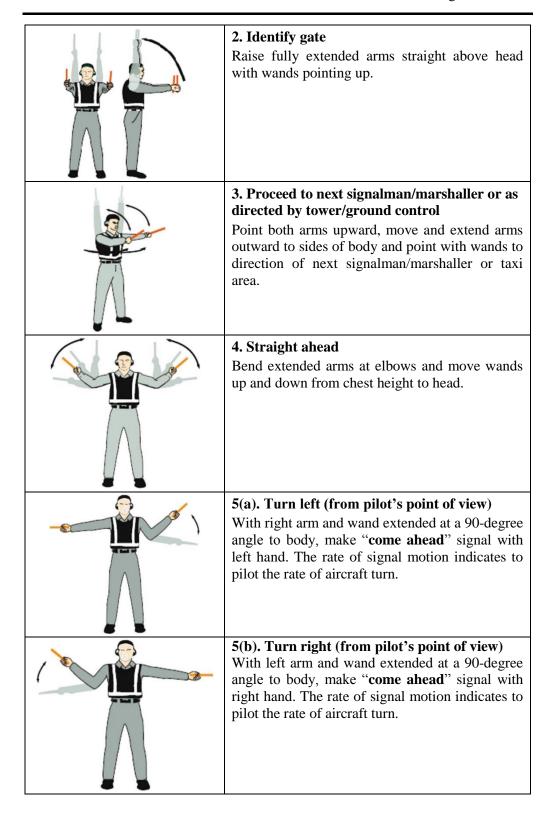
- 4.1. From a signalman/marshaller to an aircraft
- 4.1.1. The signals for use by the signalman/marshaller, with hands illuminated as necessary to facilitate observation by the pilot, and facing the aircraft in a position shall be:
 - (a) for fixed-wing aircraft, on left side of aircraft, where best seen by the pilot, and
 - (b) for helicopters, where the signalman/marshaller can best be seen by the pilot.
- 4.1.2. Prior to using the following signals, the signalman/marshaller shall ascertain that the area within which an aircraft is to be guided is clear of objects which the aircraft, in complying with Rule 26(1), might otherwise strike.

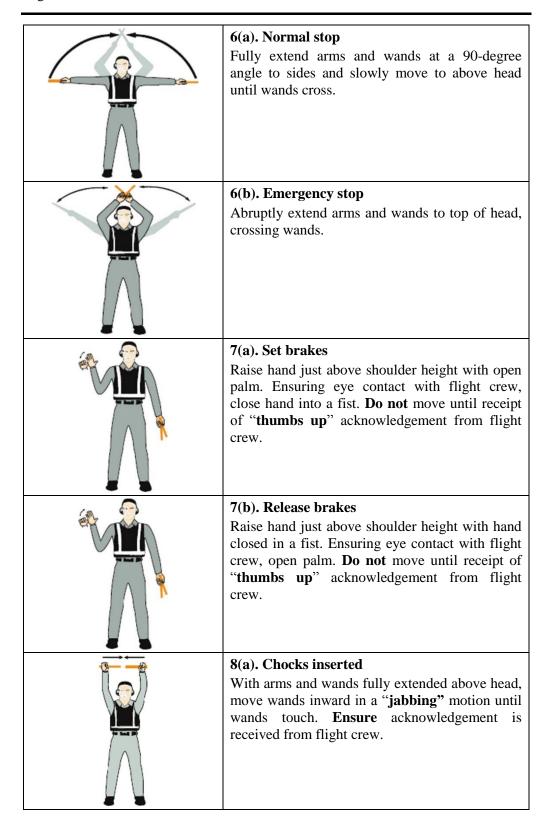


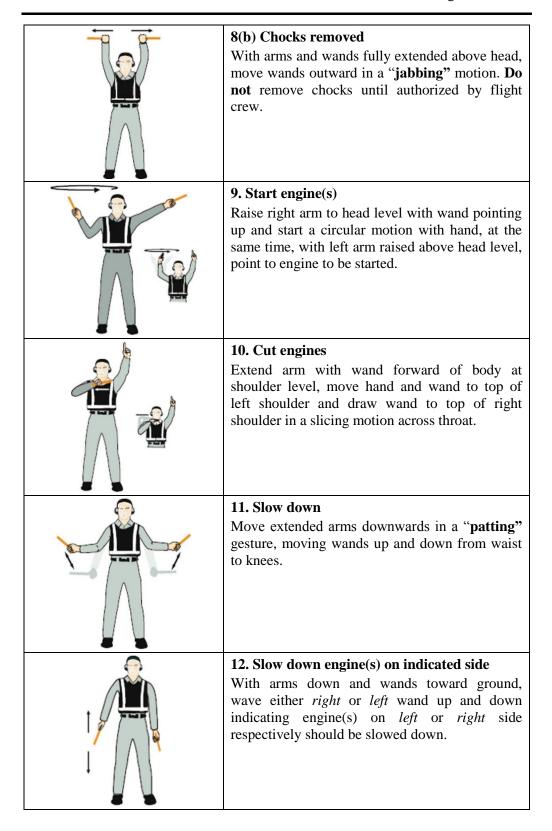
1. Wingwalker/guide (*)

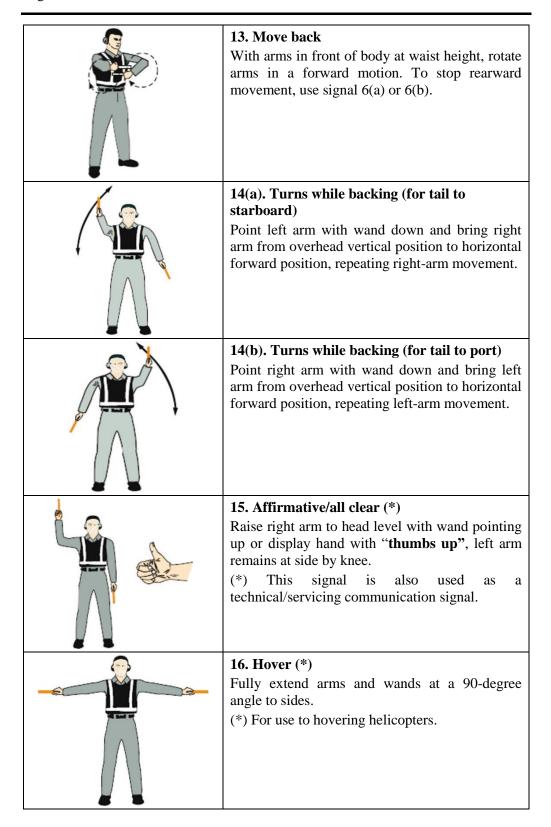
Raise right hand above head level with wand pointing up, move left-hand wand pointing down toward body.

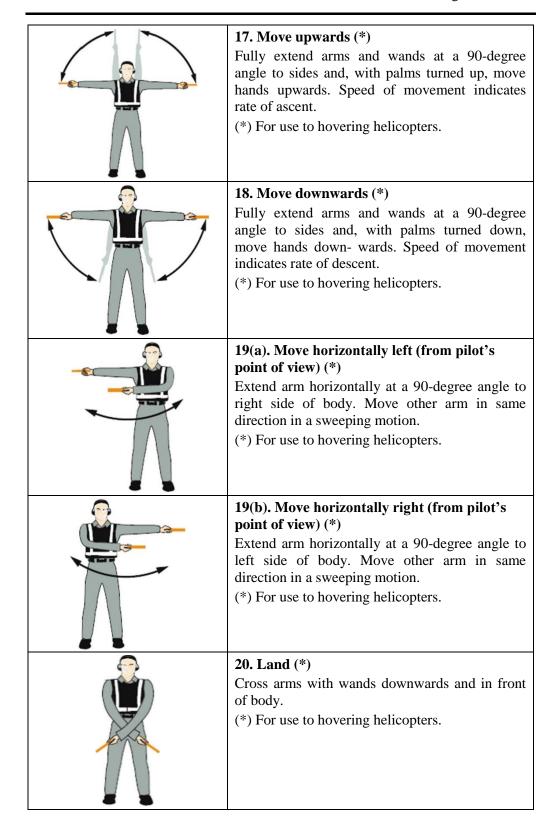
(*) This signal provides an indication by a person positioned at the aircraft wing tip, to the pilot/marshaller/push-back operator, that the aircraft movement on/off a parking position would be unobstructed.

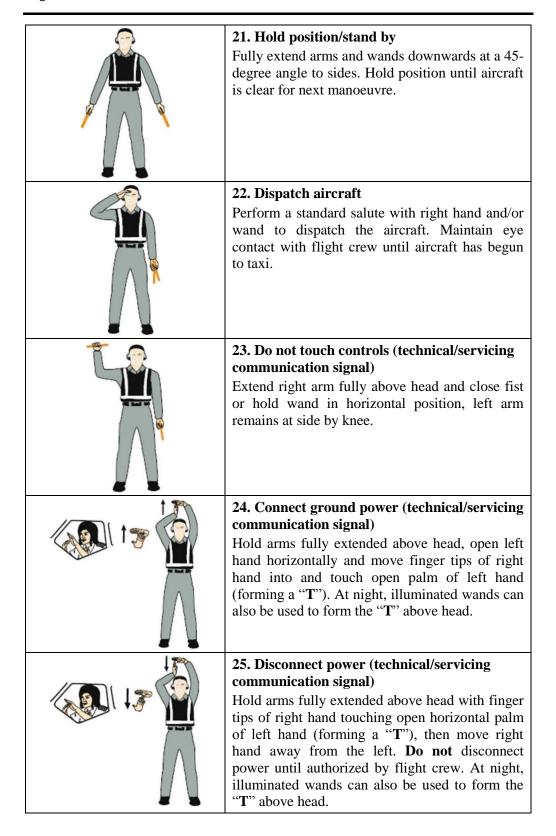


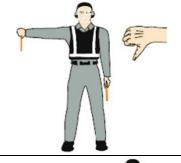












26. Negative (technical/servicing communication signal)

Hold right arm straight out at 90 degrees from shoulder and point wand down to ground or display hand with "thumbs down", left hand remains at side by knee.



27. Establish communication via interphone (technical/ servicing communication signal)

Extend both arms at 90 degrees from body and move hands to cup both ears.



28. Open/close stairs (technical/servicing communication signal) (*)

With right arm at side and left arm raised above head at a 45-degree angle, move right arm in a sweeping motion towards top of left shoulder.

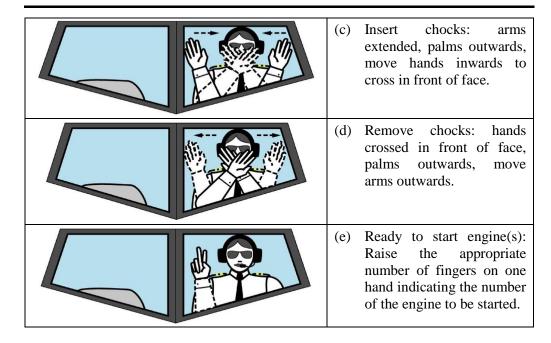
(*) This signal is intended mainly for aircraft with the set of integral stairs at the front.

4.2. From the pilot of an aircraft to a signalman/marshaller

4.2.1. The following signals shall be used by a pilot in the cockpit with hands plainly visible to the signalman/marshaller, and illuminated as necessary to facilitate observation by the signalman/marshaller –



- (a) Brakes engaged: raise arm and hand, with fingers extended, horizontally in front of face, then clench fist.
- (b) Brakes released: raise arm, with fist clenched, horizontally in front of face, then extend fingers.



4.3. Technical/servicing communication signals

- 4.3.1. Manual signals shall only be used when verbal communication is not possible with respect to technical/servicing communication signals.
- 4.3.2. Signalmen/marshallers shall ensure that an acknowledgement is received from the flight crew with respect to technical/servicing communication signals.

5. STANDARD EMERGENCY HAND SIGNALS

5.1. The following hand signals are established as the minimum required for emergency communication between the ARFF incident commander/ARFF firefighters and the cockpit and/or cabin crews of the incident aircraft. ARFF emergency hand signals should be given from the left front side of the aircraft for the cockpit crew.



1. Recommend evacuation

Evacuation recommended based on aircraft rescue and fire-fighting and Incident Commander's assessment of external situation.

Arm extended from body, and held horizontal with hand upraised at eye level. Execute beckoning arm motion angled backward. Non-beckoning arm held against body.

Night – same with wands.



2. Recommend stop

Recommend evacuation in progress be halted. Stop aircraft movement or other activity in progress.

Arms in front of head – Crossed at wrists. Night – same with wands.



3. Emergency contained

No outside evidence of dangerous conditions or "all-clear."

Arms extended outward and down at a 45 degree angle. Arms moved inward below waistline simultaneously until wrists crossed, then extended outward to starting position.

Night – same with wands.



4. Fire

Move right-hand in a "fanning" motion from shoulder to knee, while at the same time pointing with left hand to area of fire.

Night – same with wands.

(Rule 17 (SERA.3140))

Unmanned free balloons

1. CLASSIFICATION OF UNMANNED FREE BALLOONS

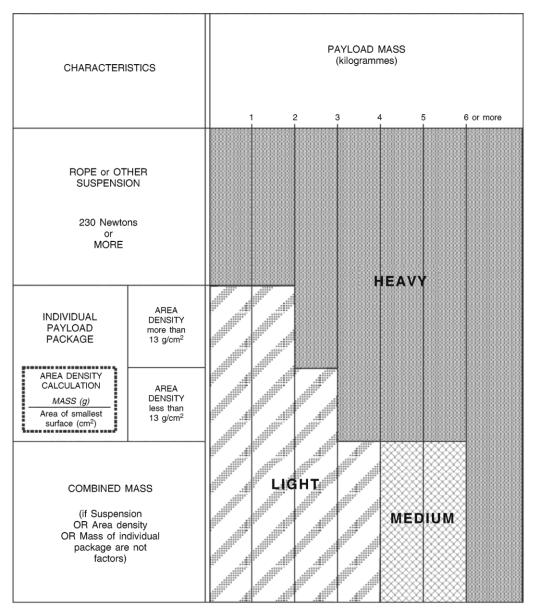
- 1.1. Unmanned free balloons shall be classified as (see Figure AP2-1):
- (a) *light*: an unmanned free balloon which carries a payload of one or more packages with a combined mass of less than 4 kg, unless qualifying as a heavy balloon in accordance with (c)(2), (3) or (4), or
- (b) *medium*: an unmanned free balloon which carries a payload of two or more packages with a combined mass of 4 kg or more, but less than 6 kg, unless qualifying as a heavy balloon in accordance with (c)(2), (3) or (4), or
- (c) heavy: an unmanned free balloon which carries a payload which:
 - (1) has a combined mass of 6 kg or more, or
 - (2) includes a package of 3 kg or more, or
 - (3) includes a package of 2 kg or more with an area density of more than 13 g per square centimetre, determined by dividing the total mass in grams of the payload package by the area in square centimetres of its smallest surface, or
 - (4) uses a rope or other device for suspension of the payload that requires an impact force of 230 N or more to separate the suspended payload from the balloon.

2. GENERAL OPERATING RULES

- 2.1 An unmanned free balloon shall not be operated without authorization from the State from which the launch is made.
- 2.2 An unmanned free balloon, other than a light balloon used exclusively for meteorological purposes and operated in the manner prescribed by the competent authority, shall not be operated across the territory of another State without authorization from the other State concerned.
- 2.3 The authorization referred to in 2.2 shall be obtained prior to the launching of the balloon if there is reasonable expectation, when planning the operation, that the balloon may drift into airspace over the territory of another State. Such authorization may be obtained for a series of balloon flights or for a particular type of recurring flight, e.g. atmospheric research balloon flights.
- An unmanned free balloon shall be operated in accordance with conditions specified by the State of Registry and the State(s) expected to be overflown.

- 2.5 An unmanned free balloon shall not be operated in such a manner that impact of the balloon, or any part thereof, including its payload, with the surface of the earth, creates a hazard to persons or property.
- 2.6 A heavy unmanned free balloon shall not be operated over the high seas without prior coordination with the ANSP(s).

Figure AP2-1



3. OPERATING LIMITATIONS AND EQUIPMENT REQUIREMENTS

- 3.1. A heavy unmanned free balloon shall not be operated without authorization from the ANSP(s) at or through any level below 18 000 m (60 000 ft) pressure-altitude at which:
 - (a) there are clouds or obscuring phenomena of more than four oktas coverage, or

- (b) the horizontal visibility is less than 8 km.
- 3.2. A heavy or medium unmanned free balloon shall not be released in a manner that will cause it to fly lower than 300 m (1 000 ft) over the congested areas of cities, towns or settlements or an open-air assembly of persons not associated with the operation.
- 3.3. A heavy unmanned free balloon shall not be operated unless:
 - (a) it is equipped with at least 2 payload flight-termination devices or systems, whether automatic or operated by telecommand, that operate independently of each other,
 - (b) for polyethylene zero-pressure balloons, at least 2 methods, systems, devices, or combinations thereof, that function independently of each other are employed for terminating the flight of the balloon envelope,
 - (c) the balloon envelope is equipped with either a radar reflective device(s) or radar reflective material that will present an echo to surface radar operating in the 200 MHz to 2 700 MHz frequency range, and/or the balloon is equipped with such other devices as will permit continuous tracking by the operator beyond the range of ground-based radar.
- 3.4. A heavy unmanned free balloon shall not be operated under the following conditions:
 - (a) in an area where ground-based SSR equipment is in use, unless it is equipped with a SSR transponder, with pressure-altitude reporting capability, which is continuously operating on an assigned code, or which can be turned on when necessary by the tracking station, or
 - (b) in an area where ground-based ADS-B equipment is in use, unless it is equipped with an ADS-B transmitter, with pressure-altitude reporting capability, which is continuously operating or which can be turned on when necessary by the tracking station.
- 3.5. An unmanned free balloon that is equipped with a trailing antenna that requires a force of more than 230 N to break it at any point shall not be operated unless the antenna has coloured pennants or streamers that are attached at not more than 15 m intervals.
- 3.6. A heavy unmanned free balloon shall not be operated below 18 000 m (60 000 ft) pressure-altitude at night or during any other period prescribed by the competent authority, unless the balloon and its attachments and payload, whether or not they become separated during the operation, are lighted.
- 3.7. A heavy unmanned free balloon that is equipped with a suspension device (other than a highly conspicuously coloured open parachute) more than 15 m long shall not be operated during night below 18 000 m (60 000 ft) pressure-altitude unless the suspension device is coloured in alternate bands of high conspicuity colours or has coloured pennants attached.

4. TERMINATION

- 4.1. The operator of a heavy unmanned free balloon shall activate the appropriate termination devices required by 3.3(a) and (b):
 - (a) when it becomes known that weather conditions are less than those prescribed for the operation,
 - (b) if a malfunction or any other reason makes further operation hazardous to air traffic or to persons or property on the surface, or
 - (c) prior to unauthorized entry into the airspace over another State's territory.

5. FLIGHT NOTIFICATION

5.1. **Pre-flight notification**

- 5.1.1. Early notification of the intended flight of an unmanned free balloon in the medium or heavy category shall be made to the appropriate air traffic services unit not less than seven days before the date of the intended flight.
- 5.1.2. Notification of the intended flight shall include such of the following information as may be required by the appropriate air traffic services unit:
 - (a) balloon flight identification or project code name,
 - (b) balloon classification and description,
 - (c) SSR code, aircraft address or NDB frequency as applicable,
 - (d) operator's name and telephone number,
 - (e) launch site,
 - (f) estimated time of launch (or time of commencement and completion of multiple launches),
 - (g) number of balloons to be launched and the scheduled interval between launches (if multiple launches),
 - (h) expected direction of ascent,
 - (i) cruising level(s) (pressure-altitude),
 - (j) the estimated elapsed time to pass 18 000 m (60 000 ft) pressurealtitude or to reach cruising level if at or below 18 000 m (60 000 ft), together with the estimated location. If the operation consists of continuous launchings, the time to be included shall be the estimated time at which the first and the last in the series will reach the appropriate level (e.g. 122136Z–130330Z),
 - (k) the estimated date and time of termination of the flight and the planned location of the impact/recovery area. In the case of balloons carrying out flights of long duration, as a result of which the date and time of termination of the flight and the location of impact cannot be forecast with accuracy, the term "long duration" shall be used. If there is to be more than one location of impact/recovery, each location shall be listed together with the appropriate estimated time of impact. If there is to be a series of continuous impacts, the time to be included shall be the estimated time of the first and the last in the series (e.g. 070330Z-072300Z).

5.1.3. Any changes in the pre-launch information notified in accordance with paragraph 5.1.2 shall be forwarded to the air traffic services unit concerned not less than 6 hours before the estimated time of launch, or in the case of solar or cosmic disturbance investigations involving a critical time element, not less than 30 minutes before the estimated time of the commencement of the operation.

5.2. Notification of launch

- 5.2.1. Immediately after a medium or heavy unmanned free balloon is launched the operator shall notify the appropriate air traffic services unit of the following:
 - (a) balloon flight identification,
 - (b) launch site,
 - (c) actual time of launch,
 - (d) estimated time at which 18 000 m (60 000 ft) pressure-altitude will be passed, or the estimated time at which the cruising level will be reached if at or below 18 000 m (60 000 ft), and the estimated location, and
 - (e) any changes to the information previously notified in accordance with 5.1.2(g) and (h).

5.3. Notification of cancellation

5.3.1. The operator shall notify the appropriate air traffic services unit immediately it is known that the intended flight of a medium or heavy unmanned free balloon, previously notified in accordance with paragraph 5.1, has been cancelled.

6. POSITION RECORDING AND REPORTS

- 6.1. The operator of a heavy unmanned free balloon operating at or below 18 000 m (60 000 ft) pressure-altitude shall monitor the flight path of the balloon and forward reports of the balloon's position as requested by air traffic services. Unless air traffic services require reports of the balloon's position at more frequent intervals, the operator shall record the position every 2 hours.
- 6.2. The operator of a heavy unmanned free balloon operating above 18 000 m (60 000 ft) pressure-altitude shall monitor the flight progress of the balloon and forward reports of the balloon's position as requested by air traffic services. Unless air traffic services require reports of the balloon's position at more frequent intervals, the operator shall record the position every 24 hours.
- 6.3. If a position cannot be recorded in accordance with 6.1 and 6.2, the operator shall immediately notify the appropriate air traffic services unit. This notification shall include the last recorded position. The appropriate air traffic services unit shall be notified immediately when tracking of the balloon is re-established.

- 6.4. One hour before the beginning of planned descent of a heavy unmanned free balloon, the operator shall forward to the appropriate air traffic services unit the following information regarding the balloon:
 - (a) the current geographical position,
 - (b) the current level (pressure-altitude),
 - (c) the forecast time of penetration of 18 000 m (60 000 ft) pressurealtitude, if applicable,
 - (d) the forecast time and location of ground impact.
- 6.5. The operator of a heavy or medium unmanned free balloon shall notify the appropriate air traffic services unit when the operation is ended.

(Rules 34 (SERA.5005), 37 (SERA.5020), 38 (SERA.5025) and 44 (SERA.8005))

Table of cruising levels

1.1. The cruising levels to be observed are as follows:

TRACK (*)

From 000 degrees to 179 degrees						From 180 degrees to 359 degrees					
IFR Flights			VFR Flights			IFR Flights		VFR Flights			
Level			Level			Level			Level		
FL	Feet	Metres	FL	Feet	Metres	FL	Feet	Metres	FL	Feet	Metres
010	1 000	300	_	_	-	020	2 000	600	_	-	_
030	3 000	900	035	3 500	1 050	040	4 000	1 200	045	4 500	1 350
050	5 000	1 500	055	5 500	1 700	060	6 000	1 850	065	6 500	2 000
070	7 000	2 150	075	7 500	2 300	080	8 000	2 450	085	8 500	2 600
090	9 000	2 750	095	9 500	2 900	100	10 000	3 050	105	10 500	3 200
110	11 000	3 350	115	11 500	3 500	120	12 000	3 650	125	12 500	3 800
130	13 000	3 950	135	13 500	4 100	140	14 000	4 250	145	14 500	4 400
150	15 000	4 550	155	15 500	4 700	160	16 000	4 900	165	16 500	5 050
170	17 000	5 200	175	17 500	5 350	180	18 000	5 500	185	18 500	5 650
190	19 000	5 800	195	19 500	5 950	200	20 000	6 100	205	20 500	6 250
210	21 000	6 400	215	21 500	6 550	220	22 000	6 700	225	22 500	6 850
230	23 000	7 000	235	23 500	7 150	240	24 000	7 300	245	24 500	7 450
250	25 000	7 600	255	25 500	7 750	260	26 000	7 900	265	26 500	8 100
270	27 000	8 250	275	27 500	8 400	280	28 000	8 550	285	28 500	8 700
290	29 000	8 850				300	30 000	9 150			
310	31 000	9 450				320	32 000	9 750			
330	33 000	10 050				340	34 000	10 350			
350	35 000	10 650				360	36 000	10 950			
370	37 000	11 300				380	38 000	11 600			
390	39 000	11 900				400	40 000	12 200			
410	41 000	12 500				430	43 000	13 100			
450	45 000	13 700				470	47 000	14 350			
490	49 000	14 950				510	51 000	15 550			
etc.	etc.	etc. etc.				etc.	etc.	etc.			

^(*) Magnetic track, or in polar areas at latitudes higher than 70 degrees and within such extensions to those areas as may be prescribed by the competent authorities, grid tracks as determined by a network of lines parallel to the Greenwich Meridian superimposed on a polar stereographic chart in which the direction towards the North Pole is employed as the Grid North.

(Rule 39 (SERA.6001))

ATS airspace classes – services provided and flight requirements

Class	Type of flight	Separation provided	Service provided	Speed limitation (*)	Radio communication capability requirement	Continuous two-way air-ground voice communication required	Subject to an ATC clearance	
A	IFR only	All aircraft	Air traffic control service	Not applicable	Yes	Yes	Yes	
В	IFR	All aircraft	Air traffic control service	Not applicable	Yes	Yes	Yes	
	VFR	All aircraft	Air traffic control service	Not applicable	Yes	Yes	Yes	
С	IFR	IFR from IFR IFR from VFR	Air traffic control service	Not applicable	Yes	Yes	Yes	
	VFR	VFR from IFR	(1) Air traffic control service for separation from IFR. (2) Air traffic control service, VFR/VFR traffic information (and traffic	250 kts IAS below 3 050 m (10 000 ft) AMSL	Yes	Yes	Yes	
	IFR	IFR from IFR	Air traffic control service, traffic information about VFR flights (and traffic avoidance advice on request)	250 kts IAS below 3 050 m (10 000 ft) AMSL	Yes	Yes	Yes	
	VFR	Nil	Air traffic control service, IFR/VFR and VFR/VFR traffic information (and traffic avoidance advice on	250 kts IAS below 3 050 m (10 000 ft) AMSL	Yes	Yes	Yes	
E	IFR	IFR from IFR	Air traffic control service and, as far as practical, traffic information about VFR flights	250 kts IAS below 3 050 m (10 000 ft) AMSL	Yes	Yes	Yes	

Class	Type of flight	Separation provided	Service provided	Speed limitation (*)	Radio communication capability requirement	Continuous two-way air-ground voice communication required	Subject to an ATC clearance
	VFR	Nil	Traffic information as far as practical	250 kts IAS below 3 050 m (10 000 ft) AMSL	No (**)	No (**)	No
F	IFR	IFR from IFR as far as practical	Air traffic advisory service; flight information service if requested	250 kts IAS below 3 050 m (10 000 ft) AMSL	Yes (***)	No (***)	No
	VFR	Nil	Flight information service if requested	250 kts IAS below 3 050 m (10 000 ft) AMSL	No (**)	No (**)	No
G	IFR	Nil	Flight information service if requested	250 kts IAS below 3 050 m (10 000 ft) AMSL	Yes (**)	No (**)	No
	VFR	Nil	Flight information service if requested	250 kts IAS below 3 050 m (10 000 ft) AMSL	No (**)	No (**)	No

^(*) When the level of the transition altitude is lower than 3 050 m (10 000 ft) AMSL, FL 100 should be used in lieu of 10 000 ft. Competent authority may also exempt aircraft types, which for technical or safety reasons, cannot maintain this speed.

^(**) Pilots shall maintain continuous air-ground voice communication watch and establish two-way communication, as necessary, on the appropriate communication channel in RMZ.

^(***) Air-ground voice communications mandatory for flights participating in the advisory service. Pilots shall maintain continuous air-ground voice communication watch and establish two-way communication, as necessary, on the appropriate communication channel in RMZ.

(Rule 64 (SERA.12015))

Requirements regarding services in air navigation

TECHNICAL SPECIFICATIONS RELATED TO AIRCRAFT OBSERVATIONS AND REPORTS BY VOICE COMMUNICATIONS

1. CONTENTS OF AIR-REPORTS

1.1 Special air-reports

1.1.1 The elements contained in special air-reports shall be:

Message type designator

Section 1 (Position information)

Aircraft identification

Position or latitude and longitude

Time

Level or range of levels

Section 3 (Meteorological information)

Condition prompting the issuance of a special air-report, to be selected from the list of observations in Rule 62(1) (SERA.12005(a)).

2. SPECIFIC PROVISIONS RELATED TO REPORTING WIND SHEAR AND VOLCANIC ASH

2.1. Reporting of wind shear

- 2.1.1. When reporting aircraft observations of wind shear encountered during the climb-out and approach phases of flight, the aircraft type shall be included.
- 2.1.2. Where wind shear conditions in the climb-out or approach phases of flight were reported or forecast but not encountered, the pilot-in-command shall advise the appropriate air traffic services unit as soon as practicable unless the pilot-in-command is aware that the appropriate air traffic services unit has already been so advised by a preceding aircraft.

2.2. Post-flight reporting of volcanic activity

- 2.2.1. On arrival of a flight at an aerodrome, the completed report of volcanic activity shall be delivered by the aircraft operator or a flight crew member, without delay, to the aerodrome meteorological office, or if such office is not easily accessible to arriving flight crew members, the completed form shall be dealt with in accordance with local arrangements made by the meteorological authority and the aircraft operator.
- 2.2.2. The completed report of volcanic activity received by a meteorological office shall be transmitted without delay to the meteorological watch

office responsible for the provision of meteorological watch for the flight information region in which the volcanic activity was observed.

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