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SUBSIDIARY LEGISLATION
GUYANA CIVIL AVIATION REGULATIONS
PART VIII – OPERATIONS

MADE BY THE MINISTER IN ACCORDANCE WITH
SECTION 140 OF THE CIVIL AVIATION ACT 2018

Citation **1.** These Regulations may be cited as the Guyana Civil Aviation Regulations, Part VIII – Operations

Interpretation **2.** In these Regulations –
 “accelerate-stop distance available (ASDA)” means the length of the take-off run available plus the length of the stop-way, where provided;
 “accident” means an occurrence associated with the operation of an aircraft which takes place between the time any person boards the aircraft with the intention of flight until such time as all persons have disembarked, in which –
 (i) a person is fatally or seriously injured as a result of –
 (a) being in the aircraft;
 (b) direct contact with any part of the aircraft, including parts which have become detached from the aircraft; or
 (c) direct exposure to jet blast,

except when the injuries are from natural causes, self-inflicted or inflicted by other persons, or when the injuries are to stowaways hiding outside the areas normally available to the passenger and crew; or

- (ii) the aircraft sustains damage or structural failure which adversely affects the structural strength, performance or flight characteristics of the aircraft;
- (iii) the aircraft would normally require major repair or replacement of the affected component; except for engine failure or damage, when the damage is limited to the engine, its cowlings or accessories; or for damage limited to propellers, wing tips, antennas, tyres, brakes, fairings, small dents or puncture holes in the aircraft skin; or
- (iv) the aircraft is missing or is completely inaccessible;

“advisory airspace” means airspace of defined dimensions or designated routes, within which air traffic advisory services are available;

“aerial work” means an aircraft operation in which an aircraft is used for specialised services including agriculture, construction, photography, surveying, observation and patrol, search and rescue and aerial advertisement;

“aerobatic flight” means manoeuvres intentionally performed by an aircraft involving an abrupt change in its altitude, an abnormal attitude or an abnormal variation in speed;

“aerodrome operating minima” means the limits of usability of an aerodrome for –

- (i) take-off, expressed in terms of runway visual range or visibility and, if necessary, cloud conditions;
- (ii) landing in precision approach and landing operations, expressed in terms of visibility or runway visual range and decision altitude or height as appropriate to the category of the operation;
- (iii) landing in approach and landing operations with vertical guidance, expressed in terms of visibility and/or runway visual range and decision altitude or height; and
- (iv) landing in non-precision approach and landing operations, expressed in terms of visibility or runway visual range, minimum descent altitude or height and, where necessary, cloud conditions;

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

“aeronautical station” means a station in the aeronautical mobile service located on land, on board a ship, or on a platform at sea;

“aircraft” means any machine that can derive support in the atmosphere from the reactions of the air other than the reactions of the air against the surface of the earth;

“aircraft flight manual” means an approved Aeroplane Flight Manual or an approved Rotorcraft Flight Manual as applicable;

“air operator” means any person, organisation or enterprise who undertakes to engage in domestic commercial air transport or international commercial air transport, whether directly or indirectly or by a lease or any other arrangement;

“aircraft operating manual” means a manual, acceptable to the State of the Operator, containing normal, abnormal and emergency procedures, checklists, limitations, performance information, details of the aircraft systems and other material relevant to the operation of the aircraft and is part of the operations manual;

“air navigation facility” means any facility used, available for use, or designated for use in aid of air navigation, including aerodromes, landing areas, lights, any apparatus or equipment for signaling, for radio directional finding or for radio or other electrical communication and any other structure or mechanism having

a similar purpose for guiding or controlling flight in the air or the landing and take-off of aircraft;

“airworthiness directive” means a document issued or adopted by the Authority which mandates actions to be performed to restore an acceptable level of safety for an aircraft when evidence shows that the safety level may otherwise be compromised;

“airworthy” means the status of an aircraft, engine, propeller or part when it conforms to its approved design and is in a condition for safe operation;

“altimetry system error” means the difference between the altitude indicated by the altimeter display, assuming a correct altimeter barometric setting, and the pressure altitude corresponding to the undisturbed ambient pressure;

“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 and includes the following;

- (i) “take-off alternate” which is an alternate aerodrome at which an aircraft can land should this become necessary shortly after take-off and it is not possible to use the aerodrome of departure;
- (ii) “enroute alternate” which is an aerodrome at which an aircraft would be able to land after experiencing an abnormal or emergency condition while enroute; and
- (iii) “ETOPS enroute alternate” which is 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 enroute in an ETOPS operation;

“alternate heliport” means a heliport to which a helicopter may proceed when it becomes either impossible or inadvisable to proceed to or to land at the heliport of intended landing and includes –

- (i) “take-off alternate” which is an alternate heliport at which a helicopter can land should this become necessary shortly after take-off and it is not possible to use the heliport of departure;
- (ii) “enroute alternate” which is a heliport at which a helicopter would be able to land after experiencing an abnormal or emergency condition while enroute and may include the heliport of departure; and
- (iii) “destination alternate” which is an alternate heliport to which a helicopter may proceed should it become either impossible or inadvisable to land at the heliport of intended landing and may include the heliport of departure;

“appropriate authority” means –

(i) in relation to flight over the high seas, the relevant authority of the State of Registry;

(ii) in relation to flight other than over the high seas, the relevant authority of the State having oversight over the territory being over flown;

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

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

“automatic dependent surveillance – contract agreement” means a reporting plan which established the conditions of automatic dependent surveillance – contract data such as data required by the air traffic services unit and frequency of automatic dependent surveillance – contract reports which have to be agreed to prior to using automatic dependent surveillance – contract in the provision of air traffic services;

“automatic dependent surveillance – broadcast (ADS-B)” means a system by which aircraft, aerodrome vehicles and other objects can automatically transmit or receive data such as identification, position and any additional data as appropriate, in a broadcast mode via a data link;

“cabin crew” means a person employed to facilitate the safety of passengers, whose duties are detailed by the air operator or the pilot-in-command;

“ceiling” means the height above the ground or water of the base of the lowest layer of clouds below 6,000 meters (20,000 feet) covering more than half the sky;

“check airman” means a person who is qualified and permitted, to conduct an evaluation in an aircraft, flight simulator, or a flight training device for a particular type aircraft, or flight simulator, for a particular air operator;

“configuration deviation list” means a list established by the organisation responsible for the type design with the approval of the State of Design which identifies any external parts of an aircraft type which may be missing at the commencement of a flight, and which contains, where necessary, any information on associated operating limitations and performance correction;

“congested area” means in relation to a city, town or settlement, any area which is substantially used for residential, commercial or recreational purposes;

“congested hostile environment” means a hostile environment within a congested area;

“continuing airworthiness” means the set of processes by which an aircraft, engine, propeller, or part, complies with the applicable airworthiness requirements and remains in a condition for safe operation throughout its operating life;

“controlled flight” means any flight which is subject to an air traffic control clearance;

“crew” means any member of the flight crew or cabin crew;

“critical engine” means the engine of an aircraft, the failure of which would most adversely affect the performance or handling qualities of an aircraft;

“critical phases of flight” means those portions of operations involving taxing, take-off and landing and all flight operations below ten thousand feet (10,000 ft), except cruise flight;

“cruising level” means a level maintained during a significant portion of a flight;

“cruise relief pilot” means a flight crew member who is assigned to perform pilot tasks during cruise flight, to allow the pilot-in-command or co-pilot to obtain planned rest;

“current flight plan” means the flight plan, including changes brought about by subsequent clearance;

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

“dangerous goods” means articles or substances which are capable of posing significant risks to health, safety, property, or the environment, and which are shown in the list of dangerous goods in the Technical Instructions, or which are classified according to those Instructions;

“dangerous goods accident” means an occurrence associated with and related to the transport of dangerous goods which results in fatal or serious injury to a person, or major property or environmental damage;

“dangerous goods approval” means an authorisation granted by the Authority for –

- (i) the transport of dangerous goods forbidden on passenger or cargo aircraft where the Technical Instructions state that such goods may be carried with an approval; or

(ii) other purposes as provided for in the Technical Instructions;

“dangerous goods exemption” means an authorisation other than a dangerous goods approval issued by the Authority providing relief from the provisions of the Technical Instructions;

“dangerous goods incident” means an occurrence, other than a dangerous goods accident, associated with and related to the transport of dangerous goods, not necessarily occurring on board an aircraft, which results in injury to a person, property or environmental damage, fire, breakage, spillage, leakage of fluid or radiation or other evidence that the integrity of the packaging has not been maintained or any occurrence relating to the transport of dangerous goods, which seriously jeopardises the aircraft or its occupants;

“dangerous goods transport document” means a document specified by the Technical Instructions that bears a signed declaration indicating that the dangerous goods are fully and accurately described by their proper shipping names and the four-digit number assigned by the United Nations Committee of Experts on the Transport of Dangerous Goods to identify a substances, where assigned, and that they are correctly classified, packed, marked, labelled and in a proper condition for transport;

“day” means the period of elapsed time, using Co-ordinated Universal Time or local time that begins at midnight and ends twenty-four (24) hours later at the next midnight;

“decision altitude” or “decision height” means a specified altitude or height in the precision approach or approach with vertical guidance at which a missed approach must be initiated where the required visual reference to continue the approach has not been established;

“defined point after take-off” means the point, within the take-off and initial climb phase, before which the ability of the helicopter operating in Performance Class 2, to continue the flight safely, with one (1) engine inoperative, is not assured and a forced landing may be required;

“defined point before landing” means the point, within the approach and landing phase, after which the ability of a helicopter operating in Performance Class 2, to continue the flight safely, with one (1) engine inoperative, is not assured and a forced landing may be required;

“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;

“duty” means any continuous period during which a crew member is required to carry out any task associated with the business of an air operator;

“duty period” means a period which starts when a flight or cabin crew member is required by an operator to report for or to commence a duty and ends when that person is free from all duties;

“effective length of the runway” means the distance for landing from the point at which the obstruction clearance plane associated with the approach end of the runway intersects the centerline of the runway to the far end;

“elevated heliport” means a heliport located on a raised structure on land;

“emergency locator transmitter” is a generic term describing equipment which broadcasts distinctive signals on designated frequencies and, depending on application, may be automatically activated by impact or be manually activated and may be any of the following;

- (i) “automatic fixed ELT” which is an automatically activated ELT permanently attached to an aircraft;
- (ii) “automatic portable ELT” which is an automatically activated ELT rigidly attached to an aircraft but readily removable from the aircraft;
- (iii) “automatic deployable ELT” which is an ELT rigidly attached to an aircraft and which is automatically deployed and activated by impact, and, in some cases, also by hydrostatic sensors and may be deployed manually; or
- (iv) “survival ELT” is an ELT which is removable from an aircraft, stowed to facilitate its ready use in an emergency, and manually activated by survivors;

“engine” means a unit used or intended to be used for aircraft propulsion consisting of at least those components and equipment necessary for functioning and control, but excludes propellers and rotors;

“enhanced vision system (EVS)” means a system to display electronic real-time images of the external scene achieved through the use of image sensors;

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

“estimated time of arrival” means –

- (i) for IFR flights, the time at which it is estimated that the aircraft will 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 aerodrome, the time at which the aircraft will arrive over the aerodrome; and

- (ii) for VFR flights, the time at which it is estimated that the aircraft will arrive over the aerodrome;

“expected approach time” means the time at which Air Traffic Control expects that an arriving aircraft, following a delay, will leave the holding fix to complete its approach for a landing;

“extended over-water operation” means –

- (i) in the case of a single engine landplane, a distance greater than one hundred (100) nautical miles from land suitable for making an emergency landing; or
- (ii) in the case of a multi-engine landplane, a distance greater than two hundred (200) nautical miles from land suitable for making an emergency landing with the capability of continuing flight with one (1) engine inoperative;

“filed flight plan” means the flight plan as filed with an ATS unit by the pilot or a designated representative, without any subsequent changes;

“final approach and take-off area” means the defined area over which the final phase of the approach maneuver to hover or landing is completed and from which the take-off maneuver is commenced and includes the rejected take-off area available for helicopters operating in performance Class 1;

“flight” means one (1) or more sectors and is defined by a flight number;

“flight crew” means those members of the crew of an aircraft who act as a pilot-in-command, co-pilot or flight engineer;

“flight dispatcher” means a person who holds a flight dispatcher licence or certificate from a Contracting State;

“flight duty period” means any time during which a person operates in an aircraft as a member of its crew, beginning when the crew member is required by the air operator to report for a flight duty and finishing at the end of flight duty time on the final sector;

“flight test examiner” means a person designated by the Authority, to conduct an evaluation in an aircraft, in a flight simulator or in a flight training device for a particular type aircraft, for a particular air operator or approved Training Organisation;

“flight manual” means a manual associated with the certificate of airworthiness, containing limitations within which the aircraft is to be considered airworthy, and instructions and information necessary to the flight crew members for the safe operation of the aircraft;

“flight operations officer” means a person designated by the operator to engage in the control and supervision of flight operations, who is qualified in accordance with the Civil Aviation Personnel Licensing Regulations, and who supports, briefs and assists the pilot-in-command in the safe conduct of the flight;

“flight plan” means specified information provided to Air Traffic Services Units, relative to an intended flight or portion of a flight of an aircraft, and may mean variously, full information on all items comprised in the flight plan description, covering the whole route of a flight or limited information required when the purpose is to obtain a clearance for a minor portion of a flight such as to cross an airway, to take-off from or to land at a controlled aerodrome;

“flight time (aeroplane)” means the total time from the moment an aeroplane first moves under its own power for the purpose of taking off until the moment it finally comes to rest at the end of the flight;

“flight time (helicopter)” means the total time from the moment a helicopter first moves under its own power for the purpose of taking off until the rotors are next stopped;

“flight visibility; means the visibility forward from the cockpit of an aircraft in flight;

“freight container” means an article of transport equipment for radioactive materials, designed to facilitate the transport of such materials, either package or unpackaged, by one (1) or more modes of transport;

“general aviation operation” means an aircraft operation other than a commercial air transport operation or an aerial work operation;

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

“Guyana aircraft” means all civil aircraft registered in Guyana;

“handling agent” means an agency which performs on behalf of the operator some or all, of the latter’s functions, including receiving, loading, unloading, transferring or other processing of passenger or cargo;

“heading” means the direction in which the longitudinal axis of an aircraft is pointed, usually expressed in degrees from North;

“head-up display system” means a display system that presents flight information into the pilot’s forward external field of view;

“helideck” means a heliport located on a floating or fixed offshore structure;

“helipad” a small area, with a hardened surface, designated as such by the Authority, where a helicopter can take off or land.

“heliport” means an aerodrome or defined area on a structure intended to be used wholly or in part for the arrival, departure, and surface movement of helicopters;

“hostile environment” means an environment in which –

- (i) a safe forced landing cannot be accomplished because the surface, and its surrounding environment, is inadequate;
- (ii) the helicopter occupants cannot be adequately protected from the atmospheric and weather elements;
- (iii) search and rescue response or capability is not provided consistent with anticipated exposure; or
- (iv) there is an unacceptable risk of endangering persons or property on the ground;

“incident” means an occurrence, other than an accident, associated with the operation of an aircraft which effects or could affect the safety of operation.

“instrument meteorological conditions” means meteorological conditions expressed in terms of visibility, distance from cloud, and ceiling, less than the minima specified for visual meteorological conditions;

“journey log” means a form signed by the pilot-in-command of each flight that records the registration of the aircraft, crew member names and duty assignments, the type of flight, and the date, place, and time of arrival and departure;

“landing decision point” means the point used in determining the landing performance of a helicopter operating in performance Class 1, where, should a power-unit failure occur at the point, the landing may be safely continued, or a balked landing initiated;

“landing distance available (LDA)” means the length of runway which is declared available and suitable for the ground run of an aeroplane landing;

“line operating flight time” means flight time recorded by the pilot-in-command or co-pilot while conducting commercial operations for an air operator;

“master minimum equipment list” is a list established for a particular aircraft type by the organisation responsible for the type design, with the approval of the State of Design, containing items, one (1) or more of which is permitted to be unserviceable at the commencement of a flight and may be associated with special operating conditions, limitations or procedures;

“minimum descent altitude” or minimum descent height” means a specified altitude or height in a non-precision approach or circling approach below which descent must not be made without the required visual reference;

“national air operator” means a person organisation or enterprise who has been issued a Guyana air operator certificate in accordance with the Civil Aviation Air Operators Certification and Administration Regulations;

“navigation specification” means a set of aircraft and flight crew requirements needed to support performance- based navigation operations within a defined airspace as follows:

- (i) required navigation performance specification which is a navigation specification based on area navigation that includes the requirement for performance monitoring and alerting, designated by the prefix RNP, such as RNP4, RNP, APCH; and
- (ii) area navigation specification which is a navigation specification based on area navigation that does not include the requirement for performance monitoring and alerting, designated by the prefix RNAV, for example, RNAV 5, RNAV 1;

“non-congested hostile environment” means a hostile environment outside a congested area;

“non-hostile environment” means an environment in which –

- (i) a safe forced landing can be accomplished because the surface, and its surrounding environment, is adequate; or
- (ii) the helicopter occupants can be adequately protected from the elements;
- (iii) search and rescue response/capability is provided consistent with anticipated exposure; and
- (iv) the assessed risk of endangering persons or property on the ground is acceptable;

“obstacle clearance altitude (OCA)” or “obstacle clearance height (OCH)” means the lowest altitude or the lowest height above the elevation of the relevant runway threshold or the aerodrome elevation as applicable, used in establishing compliance with appropriate obstacle clearance criteria;

“occurrence” includes an incident, a serious incident or accident;

“operator” means –

- (i) a person, organisation or enterprise, engaged in or offering to engage in, aircraft operations and any person who causes or authorises the operation of an aircraft, in the capacity of owner,

lessee, or otherwise whether with or without the control of the aircraft;

(ii) who or which is deemed to be engaged in the operation of aircraft within the meaning of the Civil Aviation Act;

“operational control” means the exercise of authority over the initiation, continuation, diversion or termination of a flight in the interest of the safety of the aircraft and the regularity and efficiency of the flight;

“operational flight plan” means the plan of an operator for the safe conduct of flight base on considerations of aircraft performance, other operating limitations, and relevant expected conditions on the route to be followed and at the aerodromes or helicopters concerned;

“operations manual” means a manual containing procedures, instructions, and guidance for use by operational personnel in the extension of their duties;

“operational specifications” means the authorisations, conditions and limitations associated with the air operator certificate and the subject to the conditions in the operations manual;

“offshore operations” means operations which routinely have a substantial proportion of the flight conducted over water areas to or from offshore locations and include but are not limited to support of offshore oil, gas and mineral exploitation and sea-pilot transfer;

“okta(s)” is the international unit for reporting cloud amount which is the estimated total apparent area of the sky covered with cloud such that 0 okta means clear sky, 1 okta means one-eighth of the sky covered with cloud, 1-2 okta means up to one quarter of the sky covered with cloud, 3-4 okta means up to one half of the sky covered with cloud, 5-7 oktas means up to three quarters of the sky covered with cloud, and 8 oktas means sky overcast with cloud;

“operations in Performance Class 1” means operations of a helicopter with performance such that, in the event of a critical power unit failure, performance is available to enable the helicopter to safely continue the flight to an appropriate landing area, unless the failure occurs prior to reaching the take-off decision point, in which cases the helicopter must be able to land within the rejected take-off or landing area;

“operations in Performance Class 2” means operations of helicopter with performance such that, in the event of critical power unit failure, performance is available to enable the helicopter to safely continue the flight to an appropriate landing are, except when failure occurs early during the take-off maneuver or late in the landing maneuver, in which case a forced landing may be required,

“operations in Performance Class 3” means operations with performance such that, in the event of a power unit failure at any time during the flight, a forced landing will be required;

“package” means the complete product of the packing operation consisting of the packaging and its contents prepared for transport;

“packaging” means receptacles and any other components or materials necessary for the receptacle to perform its containment function and to ensure compliance with the packing requirements;

“passenger exist seats” means those seats from which a passenger can proceed directly to the exist without entering an aisle or passing around an obstruction and those seats in a row of seats through which passengers would have to pass to gain access to an exit, from the first seat inboard of the exist to the first aisle inboard of the exist;

“performance-based navigation” means area navigation based on performance requirements for aircraft operating along an air traffic service route, on an instrument approach procedure in a designated airspace;

“positioning” means the practice of transferring crews from place to place as passengers in surface or air transport on behalf of the air operator;

“pressure-altitude” means an atmospheric pressure expressed in terms of altitude which corresponds to that pressure in the standard Atmosphere;

“proper shipping name” means the name to be used to describe a particular article or substance in all shipping documents and notifications and, where appropriate, on packaging;

“required communication performance (RCP)” means a statement of the performance requirements for operational communication in support of specific Air Traffic Management functions;

“RCP type” means a label that represents the values assigned to required communication performance parameters for communication transaction time, continuity, availability and integrity such as RCP 240;

“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 ATS units;

“reporting time” means the time at which a crew member is required by the air operator to report for duty;

“reserve duty” means a period during which the air operator requires a crew member who would otherwise be off-duty to be available for flight duty;

“rest period” means a period of time before starting a flying duty period that is designed to give crew members adequate opportunity to rest before a flight;

“RNP” means a statement of the navigation performance necessary for operation within a defined airspace, the performance and requirements of which are defined for a particular RNP type application,

“RNP type” means a containment value of navigation accuracy, expressed as a distance in nautical miles from the intended aircraft position within which flights would be for at least ninety- five percent (95%) of the total flying time, for example, RNP4 represents a navigation accuracy of plus or minus four (4) nautical miles on a ninety- five percent (95%) containment basis.

“rostered duty” means a planned duty period, or series of duty periods, with stipulated start and finish times, notified by the air operator to crews in advance;

“rostering period” means a period of consecutive days which the air operator shall roster duty and rest periods notified by the air operator in advance;

“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 shall stop and hold, unless otherwise authorized by the aerodrome control tower;

“safe forced-landing” means an unavoidable

Landing or ditching of an aircraft with a reasonable expectancy of no injuries to persons in the aircraft or on the surface;

“safety programme” means an integrated set of regulations and activities aimed at improving safety;

“safety management system (SMS)” means a systematic approach to managing safety, including the necessary organizational structures, accountabilities, policies and procedures;

“scheduled duty” means the allocation of specific flights or other duties to a crew member within the pre-notified rostered series of duty periods;

“sector” means the time between an aircraft moving under its own power until it next comes to rest after landing, at the designated parking position;

“series of flight” means consecutive flight of helicopter that –

- (i) begin and end within a period of twenty-four (24) hours; and
- (ii) are all conducted by the same pilot-in-command;

“serious incident” means an incident involving circumstances indicating that an accident nearly occurred;

“serious injury” means an injury which is sustained by a person in an accident and which –

- (i) requires hospitalisation for more than forty-eight (48) hours, commencing within seven (7) days from the date the injury was received;
- (ii) results in a fracture of any bone (expect simple fractures of fingers, toes or nose);
- (iii) involves lacerations which cause severe hemorrhage, nerve, muscle or tendon damage;
- (iv) involves injury to any internal organ;
- (v) involves second- or third-degree burns, or any burns affecting more than five percent (5%) of the body surface; or
- (vi) involves verified exposure to infectious substances or injurious radiation

“short haul operation” means flights where the origins and destinations are less than three (3) hours’ time change apart;

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

“Special Flight Permit” means a permit issued by the Authority in accordance with the Civil Aviation Airworthiness Regulations, in respect of an aircraft that is capable of safe flight, but unable to meet applicable airworthiness requirements;

“split duty” means a flying duty period which consists of two (2) or more sectors separated by less than a minimum rest period;

“State of the Operator” means the State in which the principal place of business of the operator is located or, where there is no such place of business, the permanent residence of the operator;

“State of Origin” means the State in which dangerous goods consignment was first loaded on an aircraft;

“suitable accommodation” means a furnished bedroom which is subject to minimum noise, is well ventilated and has the facility to control the levels of light and temperature;

“take-off decision point (TDP) means the point used un determining take-off performance of a helicopter operating in performance Class 1 form which, a power-unit failure occurring at this point, either a rejected take-off may be made, or a take-off safely continued;

“target level of safety” means a generic term representing the level of risk which is considered acceptable in particular circumstances;

“Technical Instructions” means the Technical Instructions for the Safe Transport of Dangerous Goods by Air (Doc 9284) approved and issued periodically in accordance with the procedures established by the ICAO Council;

“total estimated elapsed time” means –

- (i) 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; and
- (ii) for VFR flights, the estimated time required from take-off to arrive over the destination aerodrome;

“total vertical error” means the geometric difference between that actual pressure altitude flown by an aircraft and its assigned pressure altitude (flight level);

“travelling” means all the time spent by the crew member transiting between the place of rest and the place of reporting for duty and does not count as duty time;

“unit load device” means any type of aircraft container for baggage or freight, aircraft pallet with net, or aircraft pallet with a net over an igloo;

“unmanned free balloon” means a non-power-driven, unmanned, lighter-than-air aircraft in free flight;

“VHF Omni Range” means a ground-based radio navigation equipment capable of giving visual indications of bearings in the cockpit by means of signals received from very high frequency omni-directional radio ranges.

“visibility” means for aeronautical purposes the greater of –

- (i) 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;
- (ii) the greatest distance at which light in the vicinity of one thousand (1,000) candelas can be seen and identified in an unlit background; and

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

Applicability of
Regulations

- 3.** (1) These Regulations prescribe the requirements for-
 - (a) operations conducted on a Guyana aircraft by airmen and operators certified by the Authority;
 - (b) the use of a foreign registered aircraft by a Guyana air operator;
 - (c) operations of aircraft within Guyana by airmen or air operators of a foreign state.
- (2) Operators of Guyana aircraft and holders of flight crew licences, in Guyana, and operating outside of Guyana, shall comply with the requirements under these Regulations unless such compliance would violate any law of the foreign state in which the operation is conducted.

PART I

GENERAL OPERATIONS REQUIREMENTS

Requirements
for Registration
Markings

- 4.** A person shall not operate an aircraft, unless such aircraft displays the proper markings prescribed under the Civil Aviation Registration and Markings Regulations and in the case of a foreign register aircraft, markings approved by the State of Registry.

Restrictions on the
Operation of
Aircraft

- 5.** (1) A person shall not operate an aircraft in Guyana, or a Guyana aircraft at any time, unless that aircraft is in an airworthy condition.
- (2) Prior to initiating flight, a pilot-in-command shall determine whether an aircraft is in a condition for safe flight.
- (3) The pilot-in-command shall discontinue a flight as soon as practicable when a mechanical, electrical or structural condition occurs that would render the aircraft no longer airworthy.

Flight Permit
Operational
Restrictions

- 6.** Where a Guyana aircraft is issued a Flight Permit in accordance with the Civil Aviation Airworthiness Regulations, a person shall operate such aircraft in accordance with the limitations issued with such Flight Permit.

Required Aircraft
Instruments and
Equipment

- 7.** A person shall not operate a Guyana aircraft unless it is equipped with the required instruments and navigation equipment appropriate to the type of flight operations conducted and the route being flown, as prescribed under the Civil Aviation Instruments and Equipment Regulations.

- 8.** (1) An operator shall not employ electronic navigation data products that have been processed for application in the air and on the ground unless he has documented procedures for ensuring that the process applied and the product delivered have met acceptable standards of integrity, and that the products are compatible with the intended functions of the equipment that will use them, and these procedures have been approved by the Authority.
- (2) Where an operator employs electronic navigation data products the operator shall –
- (a) Continuously monitor the process and the product to ensure that the standards are maintained; and
 - (b) Implement procedures that ensure timely distribution and insertion of current and unaltered electronic navigation data to all aircraft that require it.
- 9.** (1) A person shall not operate an aircraft in flight with inoperative instruments or equipment installed, except as authorised by the Authority.
- (2) A person shall not operate an aircraft in commercial air transport with inoperative instruments and equipment installed unless maintenance on those items has been properly deferred in accordance with a current Minimum Equipment List approved by the Authority for that aircraft.
- (3) An air operator shall not operate a multi-engine aircraft with inoperative instruments and equipment installed unless the following conditions are met:
- (a) An approved Minimum Equipment List exists for that aircraft;
 - (b) The Authority has issued the air operator with operations specifications authorising operations in accordance with an approved Minimum Equipment List;
 - (c) the flight crew shall have direct access prior to flight to all of the information contained in the approved Minimum Equipment List through printed or other means approved by the Authority in the air operator's operations specifications;
 - (d) records identifying the inoperative instruments and equipment and the information required by sub-regulation (4) (b), shall be available to the pilot; and
 - (e) the aircraft is operative under all applicable conditions and limitations contained in the Minimum Equipment List and the operations specifications authorising use of the Minimum Equipment List.

- (4) The Minimum Equipment List under sub-regulation (3) shall –
- (a) be prepared in accordance with the limitations specified in the Civil Aviation Air Operator Certification and Administration Regulations;
 - (b) provide for the operations of the aircraft with certain instruments and equipment in an inoperative condition; and
 - (c) shall be carried on board the aircraft at all times while the aircraft is in operation.

- 10.** (1) A person shall not operate a Guyana aircraft unless there is available in such aircraft –
- (a) a current Aircraft Flight Manual for that aircraft; and
 - (b) an Aircraft Operating Manual approved by the Authority for the air operator
- (2) Where an Aircraft Flight Manual required by sub-regulation (1)(a), does not exist, another –
- (a) manual;
 - (b) document;
 - (c) instruction;
 - (d) necessary information;
 - (e) markings and placards; or
 - (f) any combination thereof, that is approved or accepted by the Authority and which provides the pilot-in-command with necessary limitations for safe operation shall be on board such aircraft.
- (3) A person shall not operate an aircraft within or over Guyana without complying with the operating limitations specified –
- (a) in the Aircraft Flight Manual;
 - (b) on the markings of the aircraft;
 - (c) on placards in the aircraft; or
 - (d) by the certifying authority for the State of Registry of the aircraft
- (4) An operator shall display in his aircraft all placards, listings, instrument markings or combination thereof, containing those operating limitations prescribed by the certifying authority for the State of Registry of the aircraft.
- 11.** (1) Unless otherwise authorised by the Authority, a person shall not operate a Guyana aircraft unless it has had the following inspections:
- (a) an annual inspection within the past twelve (12) months;
 - (b) a one hundred (100) hour inspection, where the aircraft is used in commercial operations;
 - (c) an altimeter and pilot-static system inspection in the past twenty-four (24) months where the aircraft is being operated under Instrument Flight Rules;
 - (d) a transponder check within the past twelve (12) months, for transponder equipped aircraft; and
 - (e) an emergency locating transmitter check within the past twelve (12) months, for emergency locating transmitter equipped aircraft.
- (2) Where an aircraft has been maintained under an alternate maintenance and inspection programme approved by the Authority, the operator shall, prior to flight, have completed, recorded, and

certified all such inspections and other maintenance activities, as required by the continuing airworthiness programme approved by the Authority.

- (3) An alternate maintenance and inspection programme under sub-regulation (2), may include a recommended programme of the manufacturer, instruction for continue airworthiness or a programme designed by the operator and approved by the Authority.
- (4) The requirements for inspections under this regulation shall be prescribed under Civil Aviation (Airworthiness) Regulations.

Documents to be
Carried on Aircraft
for all Operation

- 12.** (1) Except as provided in regulation 10, a person shall not operate an aircraft unless such aircraft has on board, the following current documents in respect of such aircraft except those current documents marked with asterisk (*), are required for operators other than air operators:
- (a) *Aircraft Registration Certificate issued to the owner;
 - (b) *Airworthiness Certificate;
 - (c) *aircraft journey log;
 - (d) *Aircraft Radio Licence;
 - (e) *list of passenger names and points of embarkation and destination;
 - (f) Cargo manifest including special loads information;
 - (g) For the air operator, an aircraft technical log;
 - (h) Document attesting to noise certification;
 - (i) *Aircraft Flight Manual or equivalent document under regulation (10);
 - (j) *the part of the Operations Manual relevant to operation being conducted;
 - (k) for an air operator, minimum equipment list;
 - (l) Operational Flight Plan;
 - (m) Filed Air Traffic Control flight plan;
 - (n) Notices to Airmen briefing documentation;
 - (o) Meteorological information;
 - (p) Mass and balance documentation otherwise referred to as “load sheet”;
 - (q) Listing of special situation passengers;
 - (r) Procedures and signals for intercepted aircraft;
 - (s) *current and suitable maps and charts for routes of proposed flight or possibly diverted flight;
 - (t) Forms for complying with reporting requirements of the Authority and the air operator;
 - (u) for international flight, a general declaration for customs;
 - (v) any documentation which may be required by the Authority or State concerned with the proposed flight;
 - (w) *Certificate of Insurance for the aircraft;

Civil Aviation Authority

- (x) Category II and Category III Manuals for general aviation operations; and
- (y) Certificate of Maintenance Review

(2) An operator shall ensure that –

- (a) a true certified copy of his air operator certificate; and
- (b) a copy of the operations specifications relevant to the aircraft type issued in conjunction with the air operator certificate, in the English language, are carried on board each aircraft during operations.
- (3) The Authority may permit the information required under sub-regulation (1) to be presented in a form other than printed paper where accepted by the Authority.
- (4) The Noise Certificate under sub-regulation (1)(h), shall state the standards in Annex 16, Volume 1 of the Chicago Convention, and may be contained in any other document under sub-regulation (1), approved by the Authority.
- (5) The operator of an aircraft shall ensure that an acceptable standard or accessibility, usability and reliability in respect of the operational flight plan under sub-regulation (1)(l).
- (6) In this regulation “special situation passengers” includes armed security personnel, deportees, persons in custody, and persons with special medical needs.

PART II **DANGEROUS GOODS**

Approval to
Transport
Dangerous Goods

- 13.** (1) An operator shall not transport dangerous goods unless approved to do so by the Authority.
- (2) Where an operator wishes to transport dangerous goods, he shall apply to the Authority for approval to do so.
- (3) Where approval is granted for an operator to transport dangerous goods, the continued validity of such approval shall be dependent upon –
- (a) The operator remaining in compliance with these Regulations; and
 - (b) The Director General being granted access to the facilities of the organisation to determine continued compliance with these Regulations.

- 14.** (1) An operator shall comply with the provisions contained in Annex 18 of the Chicago Convention on all occasions when dangerous goods are carried, irrespective of whether the flight is wholly or partly within, or wholly outside, Guyana.
- (2) Where dangerous goods are to be transported outside of Guyana, the operator shall review and comply with the appropriate variations noted by Contracting States contained in Attachment 3 to the Technical Instructions.
- (3) Articles and substances which would otherwise be classified as dangerous goods are excluded from the provisions of these Regulations, to the extent specified in the Technical Instructions.
- (4) The Director General may grant a dangerous goods approval for the transport of dangerous goods by air where specifically provided for in the Technical Instructions provided that in such instance an overall level of safety in air transport which is equivalent to the level of safety provided for in the Technical Instructions is achieved.
- (5) The Director General may grant a dangerous goods exemption from the provisions of the Technical Instructions for the transport of dangerous goods by air in instances –
- (a) of extreme urgency;
 - (b) where other forms of transport are inappropriate; or
 - (c) where full compliance with the prescribed requirements is contrary to the public interest, provided that in such instances every effort is made to achieve an overall level of safety in air transport which is equivalent to the level of safety provided for in the Technical Instructions.
- 15.** (1) An operator shall take all reasonable measures to ensure that –
- (a) dangerous goods that are identified in the technical Instructions as being forbidden for transport in normal circumstances; and
 - (b) infected live animals are not carried in any aircraft unless exempted by the States concerned or unless the provisions of the Technical Instructions indicate that they may be transported under an approval granted by the State of Origin.
- (2) An operator shall take all reasonable measures to ensure that articles and substances or other goods that are identified in the Technical Instructions as being forbidden for transport in normal circumstances are transported only when –
- (a) they are exempted by the States concerned under the provisions of the Technical Instructions; or

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| <p>Classifications of Dangerous Goods</p> <p>Packing of Dangerous Goods</p> <p>Labelling and Marking of Dangerous Goods</p> <p>Requirement for a Dangerous Goods Transport Document</p> <p>Restrictions on the Acceptance of Dangerous Goods by an Operator or his Handling Agent</p> | <p>(b) the Technical Instructions indicate that they may be transported under an approval issued by the State of Origin.</p> <p>16. An operator shall take all reasonable measures to ensure that articles and substances are classified as dangerous goods as specified in the Technical Instructions.</p> <p>17. An operator shall take all reasonable measures to ensure that dangerous goods are packed as specified in the Technical Instructions.</p> <p>18. (1) An operator shall take all reasonable measures to ensure that packages, overpacks and freight containers are labelled and marked as specified in the Technical Instructions.</p> <p>(2) Where dangerous goods are carried on a flight which takes place wholly or partly outside the territory of Guyana, the operator shall ensure that labelling and marking are in the English Language in addition to any other language requirements.</p> <p>19. (1) An operator shall ensure that, except when otherwise specified in the Technical Instructions, dangerous goods are accompanied by a Dangerous Goods Transport Document which shall contain information specified in the Technical Instructions.</p> <p>(2) The Dangerous Goods Transport Document under sub-regulation (1), shall bear a declaration signed by the person who offers the dangerous goods for transport, indicating that the dangerous goods are fully described by their proper shipping names and that they are classified, packed, marked, labelled and are in proper condition for transport by air in accordance with the Technical Instructions.</p> <p>(3) Where dangerous goods are carried on flight which takes place wholly or partly outside the territory of a State, the operator shall ensure that English Language is used for the dangerous goods transport document in addition to any other language requirements.</p> <p>20. (1) An operator or his handling agent, shall not accept dangerous goods for transport until the package, overpacks or freight container has been inspected in accordance with the acceptance procedures set out in the Technical Instructions.</p> <p>(2) An operator, or his handling agent, shall use an acceptance checklist which shall –</p> <p>(a) allow for all relevant details to be checked; and</p> <p>(b) be in such form as will allow for the recording of the results of the acceptance check by manual, mechanical or computerized means</p> |
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Inspection for
Damage, Leakage or
Contamination by
Dangerous Goods

21. An operator shall ensure that –

- (a) packages, overpacks and freight containers are inspected for evidence of leakage or damage immediately prior to loading on an aircraft or into a unit load device, as specified in the Technical Instructions;
- (b) a unit load device is not loaded on an aircraft unless it has been inspected as required by the Technical Instructions and found free from any evidence of leakage from, or damage to the dangerous goods contained therein;
- (c) leaking or damaged packages, overpacks or freight containers are not loaded on an aircraft;
- (d) any package of dangerous good found on an aircraft and which appears to be damaged or leaking is removed or arrangements are made for its removal by an appropriate authority or organisation;
- (e) after removal of any leaking or damaged goods, the remainder of the consignment is inspected to ensure it is in a proper condition for transport and that no damage or contamination has occurred to the aircraft or its load; and
- (f) packages, overpacks and freight containers are inspected for signs of damage or leakage upon unloading from an aircraft or form a unit load device and where there is evidence of damage or leakage, the area where the dangerous goods were stowed is inspected for damage or contamination.

Removal of
Contamination by
Dangerous Goods

22. An operator shall ensure that –

- (a) any contamination found as a result of the leakage or damage of dangerous goods is removed without delay; and
- (b) an aircraft which has been contaminated by radioactive materials is immediately taken out of service and not returned until the radiation level at any accessible surface and the non-fixed contamination are not more than the values specified in the Technical Instructions.

Loading
Restrictions for
Dangerous Goods

- 23.**
 - (1) An operator shall ensure that dangerous goods are not carried in an aircraft cabin occupied by passengers or in the cockpit, unless otherwise specified in the Technical Instructions
 - (2) An operator shall ensure that dangerous goods are protected from damage when loading, segregating, stowing and securing such dangerous goods on an aircraft as specified in the Technical Instructions
 - (3) An operator shall ensure that packages of dangerous goods bearing the “Cargo Aircraft Only” label are carried on a cargo aircraft and loaded as specified in the Technical Instructions.

- 24.** (1) An operator shall ensure that –
- (a) information is provided to enable ground staff to carry out their duties with regard to the transport of dangerous goods, including the actions to be taken in the event of incidents and accidents involving dangerous goods; and
 - (b) where applicable, the information referred to in paragraph (a), is also provided to his handling agent.
- (2) An air operator shall ensure that information is promulgated as required by the technical Instruction so that passengers are warned as to the types of goods which they are forbidden from transporting as checked baggage or carry-on luggage.
- (3) An air operator and, where applicable, his handling agent, shall ensure that notices are provided at check-in points for cargo giving information about the transport of dangerous goods.
- (4) An operator shall ensure that information is provided in his Operations Manual to enable crew members to carry out their responsibilities in regard to the transport of dangerous goods, including the actions to be taken in the event of emergencies involving dangerous goods which may arise.
- (5) An operator shall ensure that the pilot-in-command is provided with written information on the details in respect of the dangerous goods on board as early as practicable before flights in the manner specified in the Technical Instructions.
- (6) Where dangerous goods are on board an aircraft and an aircraft accident occurs the operator of such aircraft shall –
- (a) as soon as possible, inform the appropriate authority of the State in which the aircraft accident occurred of any dangerous goods carried; and
 - (b) on request, provide any information required to minimise the hazards created by any dangerous goods carried.
- 25.** (1) An operator shall establish, maintain and have approved by the Authority, an initial and recurrent dangerous goods training programme, as required by the Technical Instruction in respect of his operations.
- (2) Notwithstanding the generality of sub-regulation (1), an operator who does not hold an approval to carry dangerous goods under regulation 13 shall ensure that –
- (a) staff who are engaged in general cargo handling have received training to carry out their duties in respect of dangerous goods

which covers as a minimum, the areas identified under sub-regulation (1), to an extent sufficient to ensure that an awareness is gained –

- (i) of the hazards associated with dangerous goods; and
- (ii) how to identify such goods;

(b) crew members, passenger and ground handling staff and security staff employed by the air operator who deal with the screening of passengers and their baggage, have received training which covers as a minimum the areas identified in sub-regulation (1), to an extent sufficient to ensure that an awareness is gained –

- (i) of the hazards associated with dangerous goods;
- (ii) how to identify such goods; and
- (iii) what requirements apply to carriage of such goods specified under regulation 13.

Dangerous Goods
Incident and
Accident Reports

- 26.** (1) An operator of an aircraft transporting dangerous goods shall report –
- (a) all dangerous goods incidents and accidents; and
 - (b) all instances of undeclared and mis-declared dangerous goods in cargo, occurring in Guyana and which involve the transport of dangerous goods originating in another State or destined for another State.
- (2) The report required by sub-regulation (1) shall be made in accordance with the detailed provision of *ICAO Doc.9284 – Technical Instructions for the Safe Transport of Dangerous Goods by Air*.

PART III

AIRCRAFT MAINTENANCE REQUIREMENTS

Applicability of
Part III

- 27.** (1) This Part applies to all general aviation and large complex aircraft operated in Guyana, whether or not the aircraft is registered in Guyana.
- (2) Regulations 29 and 30 do not apply to an aircraft subject to an approved aircraft maintenance programme approved by the Authority for an air operator under the Civil Aviation Air Operator Certificate and Administration Regulations
- (3) Where any aircraft, not registered in Guyana and operating under an inspection programme approved or accepted by the State of Registry, does not have the equipment required by the Authority for operations within Guyana, the operator of such aircraft shall ensure that such equipment is installed and inspected in accordance with the requirements of the State of Registry, acceptable to the Authority prior to operation of that aircraft in Guyana.

28. (1) An operator of an aircraft shall be primarily responsible for maintaining such aircraft in an airworthy condition, including compliance with all airworthiness directives.

(2) A person shall not perform maintenance, preventive maintenance, or alterations to an aircraft other than as prescribed by the Act or Regulations made thereunder.

(3) A person shall not certify an aircraft as airworthy unless he is qualified in accordance with the Act or Regulations made thereunder to issue such certificate.

(4) A person shall not operate an aircraft for which a maintenance manual published by the manufacturer, or instructions for continued airworthiness containing an airworthiness limitations section has been issued unless –

(a) the mandatory replacement times;

(b) inspection intervals; and

(c) related procedures set forth in the specific operating provisions, are approved by the Authority under the Act or Regulations made thereunder.

29. An operator shall –

(a) have his aircraft inspected as prescribed under this Part and discrepancies rectified as required under the Civil Aviation Airworthiness Regulations;

(b) inspect, repair, replace or remove an inoperative instrument or item of equipment at the next required inspection, except when permitted under the provisions of an approved Minimum Equipment List;

(c) ensure that a placard has been installed on the aircraft advising the crew when listed discrepancies include inoperative instruments or equipment;

(d) ensure that all maintenance, overhaul, alterations and repairs that affect airworthiness are performed as prescribed in accordance with the Civil Aviation Airworthiness Regulations;

(e) ensure that maintenance personnel make appropriate entries in the maintenance records in accordance with this Part; and

(f) ensure that the appropriate maintenance personnel complete and sign the Certificate of Release to Service, after the maintenance has been accomplished satisfactorily and in accordance with prescribed methods.

30. (1) Except as provided in regulation 6, a person shall not operate an aircraft unless –

(a) an annual inspection was conducted on the aircraft in accordance with the Civil Aviation Airworthiness Regulations and the aircraft

- has been issued with a Certificate of Release to Service by a person authorised under the regulations to issue such a certificate;
- (b) an inspection was conducted for the issuance of an Airworthiness Certificate in accordance with the Civil Aviation Airworthiness Regulations and such a certificate is in force; and
 - (c) the aircraft's records have been inspected in accordance with the requirements of Regulation 37 of the Civil Aviation Airworthiness Regulations, and a Certificate of Maintenance Review is in force in respect of such aircraft.
- (2) An inspection performed under sub-regulation (1)(b), shall not be substituted for any other inspection required by this Regulation.
- (3) Except as provided in sub-regulation (6), a person shall not operate an aircraft for hire carrying any person, other than a crew member; or give flight instruction in an aircraft, unless within the preceding one hundred (100) hours of time in service, the aircraft has received an annual or one hundred (100) hour inspection and has been issued a Certificate of Release to Service in accordance with the Civil Aviation Airworthiness Regulations.
- (4) The one hundred (100) hour limitation under sub-regulation (3), may be exceeded by no more than ten (10) hours while enroute to reach a place where the inspection can be done.
- (5) The excess time, under sub-regulation (4), used to reach a place where the inspection can be done shall be included in computing the next one hundred (100) hours of time in service.
- (6) Sub-regulations (1) through (5), shall not apply to –
- a) an aircraft that is operating under the conditions of a Flight Permit;
 - b) an aircraft subject to the requirements of sub-regulation (7) or (9); or
 - c) turbine-powered rotorcraft when the operator elects to inspect such rotorcraft in accordance with sub-regulation (9).
- (7) An operator of an aircraft desiring to use a progressive inspection programme shall submit a written request to the Authority.
- (8) A written request under sub-regulation (7), shall be accompanied by
-
- (a) details of –
- (i) the Aircraft Maintenance Engineer who shall be conducting inspections and maintenance and who holds a type rating

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- as required by the Civil Aviation Airworthiness Regulations; or
- (ii) the Approved Maintenance Organisation, appropriately rated in accordance with the Civil Aviation Regulations, who will be conducting the progressive inspection; and
- (b) a current Inspection Procedures manual available and readily understandable to flight crew and maintenance personnel containing –
- (i) an explanation of the progressive inspection, including the continuity of inspection responsibility, the making of reports, and the keeping of records and technical reference material;
 - (ii) an inspection schedule, specifying the intervals in hours or days when routine and detailed inspections will be performed and including instructions for exceeding an inspection interval by not more than ten (10) hours while en-route and for changing an inspection interval based on service experience;
 - (iii) a sample of the routine and detailed inspection form and instructions for its use; and
 - (iv) a sample of the report and record and instructions for their use;
- (c) details of the housing and equipment required for disassembly and proper inspection of the aircraft; and
- (d) appropriate current technical information for the aircraft
- (9) An operator of a large aeroplane, turbojet multi-engine aeroplane and turbine-powered rotorcraft shall select and use one (1) of the following programmes appropriate to the aircraft:
- (a) a current inspection programme recommended by the manufacturer;
 - (b) a continuous maintenance programme that is part of a continuous maintenance programme for that make and model of aircraft currently approved by the Authority for use by an operator; or
 - (c) any other inspection programme established by the operator of that aircraft and approved by the Authority.
- (10) An operator shall –
- (a) include in the programme selected under sub-regulation (9), the name and address of the person responsible for the scheduling of the inspections required by the programme; and
 - (b) provide a copy of the programme selected under sub-regulation (9), to the person performing the inspection on the aircraft.

- (11) A person shall not issue a Certificate of Release to Service for an aircraft unless the replacement times for life limited parts specified in the aircraft specification type data sheets are complied with and the aircraft and its associated aeronautical products including survival and emergency equipment are inspected in accordance with an inspection programme approved under sub-regulation (9).
 - (12) A person wishing to establish or change an approved inspection programme shall submit the new programme to the Authority for approval.
 - (13) A request for an approval under sub-regulation (12), shall be accompanied by –
 - (a) instructions and procedures for the conduct of the inspection for the particular make and model aircraft, including necessary tests and checks and details of the parts and areas of the aeronautical products, including survival and emergency equipment required to be inspected; and
 - (b) a schedule of the inspections required to be performed which may be expressed in terms of time in service, calendar time, cycles of operation accumulated, or any combination thereof.
 - (14) Where an operator changes from one inspection programme to another, he shall apply the time in service, calendar time, or cycles of operation accumulated under the previous programme, in determining when an inspection becomes due under the new programme.
 - (15) The frequency and detail of the progressive inspections under this regulation shall be as set out in Schedule 1.
- 31.** (1) Where the Director General finds a revision to an approved inspection programme is necessary for the continued adequacy of such programme, he shall notify the operator of the changes required to the inspection programme prior to its approval.
- (2) Where an operator receives a notification under sub-regulation (1), he shall make such change in the inspection programme as notified by the Director General.
- (3) Notwithstanding sub-regulation (2), an operator may petition the Authority to reconsider the notification within thirty (30) days of receipt thereof.
- (4) A petition under sub-regulations (3), shall include justification or an alternate method of compliance with an equivalent level of safety being maintained for the decision to be revoked.

Owner, Lessee or
Operator to Keep
Maintenance
Records

(5) Except in the case of an emergency requiring immediate action in the interest of safety, the filing of the petition stays the notification pending a decision by the Authority.

32. (1) An operator of an aircraft shall keep a maintenance record of -

(a) the entire aircraft to include -

- (i) the total time in service which shall include hours, calendar time and cycles, as appropriate, of the aircraft and all life limited parts;
- (ii) the current inspection status of the aircraft, including the time since required or approved inspection was last performed;
- (iii) the current empty mass and the location of the centre of gravity when empty;
- (iv) addition or removal of equipment;
- (v) the type and extent of maintenance and alteration including the time in service and date;
- (vi) the date when work was performed; and
- (vii) a chronological list of compliance with Airworthiness Directives including methods of compliance;

(b) life limited aeronautical products including survival and emergency equipment to include -

- (i) total time service;
- (ii) date of the last overhaul;
- (iii) time in service since the last overhaul; and
- (iv) date of the last inspection;

(c) instruments and equipment, the serviceability and operating life of which are determined by their time in service to include -

- (i) records of the time in service as are necessary to determine their serviceability or to compute their operating life; and
- (ii) date of last inspection.

Owner, Lessee or
Operator to Retain
Maintenance
Records

33. (1) Except for records maintained by an Approved Maintenance Organisation, an operator shall retain, until the work is repeated or superseded by other work of equivalent scope and detail, the following:

(a) records of the maintenance, preventive maintenance, minor modifications, and records of the one hundred (100) hour, annual and other required or approved inspections, as appropriate for each aircraft, including the airframe and each engine, propeller, rotor and appliance of an aircraft to include -

- (i) a description or reference to data acceptable to the Authority, of the work performed;
- (ii) the date of completion of the work performed; and
- (iii) the signature and licence number of the person issuing the Certificate of Release to Service;

(b) records containing the following information -

- (i) the total time in service of the airframe, each engine, each propeller and each rotor;
- (ii) the current status of all life limited aeronautical products;
- (iii) the time since last overhaul of all items installed on the aircraft which are required to be overhauled on a specified time basis;
- (iv) the addition and removal of equipment;
- (v) the current empty mass and the location of the center of gravity of the aircraft when empty;
- (vi) the current inspection status of the aircraft, including the time since the last inspection required by the inspection programme under which the aircraft and its appliances are maintained;
- (vii) the current status of applicable Airworthiness Directives including, for each, the method of compliance, the Airworthiness Directive number, and revision date;
- (viii) where the Airworthiness Directive involves recurring action, the time and date when the next action is required; and
- (ix) copies of the prescribed forms for each major repair and major modification to the airframe and currently installed engines, rotors, propellers, and appliances.

(2) The records specified in sub-regulation (1), shall be retained and transferred with the aircraft at the time the aircraft is sold or leased.

(3) An operator shall make maintenance records required by this regulation available for inspection by the Director General.

(4) The records specified in sub-regulation (1), shall be preserved by an operator for two (2) years after the aircraft has been permanently withdrawn from service or destroyed.

34. An operator who sells or leases a Guyana aircraft shall transfer to the purchaser or lessor at the time of sale or lease, the records identified in regulation (33) in respect of such aircraft, in plain language form or in coded form at the option of the purchaser or lessor, where the coded form provides for the preservation and retrieval of information in a manner acceptable to the Authority.

PART IV

FLIGHT CREW REQUIREMENTS

- 35.** (1) An operator shall ensure that –
- (a) the number and composition of the flight crew is no less than as specified in the Aircraft Flight Manual;
 - (b) all flight crew hold an applicable and valid licence acceptable to the Authority and are suitably qualified and competent to conduct the duties assigned to them;
 - (c) procedures are established, acceptable to the Authority, to prevent the crewing together of inexperienced flight crew;
 - (d) one (1) pilot amongst the flight crew, qualified as a pilot-in-command, is designated as the pilot-in-command who may delegate the conduct of the flight to another qualified pilot;
 - (e) where a dedicated system panel operator is required by the Aircraft Flight Manual, the flight crew includes one (1) member who holds a Flight Engineer Licence issued under the Civil Aviation General Application and Personnel Licensing Regulations, or suitable qualified flight crew acceptable to the Authority;
 - (f) an operator shall ensure that when engaging the services of flight crew who are self-employed or working on a freelance or part-time basis, all applicable flight crew requirements are complied with;
 - (g) attention is paid in respect of paragraph (f), to the total number of aircraft types or variants including when his services are engaged by operators that flight crew members may fly for the purpose of commercial air transport;
 - (h) a co-pilot is included as part of the flight crew in commercial air transport operations under Instrument Flight Rules, unless the Authority has issued a deviation;
 - (i) an aeroplane is not operated under the Instruments Flight Rules or at night in commercial air transport operations by a single pilot unless such operation is approved by the Authority.
- (2) Notwithstanding the minimum number and composition of flight crew specified in an Aircraft Flight Manual, where the Director General is of the opinion that considerations related to –
- (a) the type of aircraft used;
 - (b) the type of operation involved; and
 - (c) the duration of flight between points where flight crews are changed,
- require that the number and composition of the flight crew should exceed the number specified in such Aircraft Flight Manual, The Director General may increase the minimum number of flight crew required for the operation.
- (3) An operator shall ensure that the revised minimum number and composition of flight crew under sub-regulation (2), is met.

- (4) For operations under Instrument Flight Rules, or at night, an operator shall ensure that –
- (a) for all turbo-propeller aircraft with an approved passenger seating configuration of more than nine (9), the minimum flight crew shall be two (2) pilots; or
 - (b) for a turbojet aircraft, the minimum flight crew shall be two (2) pilots.
- (5) Where an aircraft other than those covered by sub-regulation (4)(a) and (b), is operated by a single pilot, the operator shall ensure that –
- (a) the Operations Manual conversion and recurrent training programme includes the additional requirements for a single pilot operation;
 - (b) the cockpit procedures include –
 - (i) engine management and emergency handling;
 - (ii) use of normal, abnormal and emergency checklists;
 - (iii) Air Traffic Control communication
 - (iv) departure approach; and
 - (v) auto-pilot management; and
 - (vi) use of simplified in-flight documentation;
 - (c) the recurrent checks required by regulation 266 shall be performed in the single-pilot role on the type or class of aircraft in an environment representative of the operation;
 - (d) such pilot shall have a minimum of fifty (50) hours flight time on the specified type or class of aircraft under Instrument Flight Rules of which ten (10) hours shall be as pilot-in-command; and
 - (e) the minimum required recency experience for a pilot engaged in a single-pilot operation under Instrument Flight Rules or at night shall be five (5) Instrument Flight Rules flights, including three (3) instrument approaches, carried out during the preceding ninety (90) days on the type or class of aircraft in the single-pilot role.
- (6) The requirement under sub-regulation (5) (e) may be met by using an Instrument Flight Rules instrument approach check on the type or class of aircraft.
- (7) An operator shall ensure that where the requirements under sub-regulation (5) are not satisfied, the minimum flight crew shall be two (2) pilots.
- 36.** (1) An operator shall ensure that each member of his flight crew holds valid licences with appropriate rating.
- (2) An operator shall ensure that a flight crew member demonstrates the ability to speak and understand the language used for aeronautical

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radio telephony communication as specified in the Civil Aviation General Application and Personnel Licensing Regulations;

- (3) A pilot-in-command shall not operate an aircraft in commercial air transportation operations unless he ensures that the licence of each flight crew member –
 - (a) is valid; and
 - (b) contains the proper ratings
- (4) A pilot shall not operate an aircraft in commercial air transport operations or aerial work unless he meets the requirements of the Act or Regulations made thereunder for the specific operation and in the specific type of aircraft used.
- (5) The pilot-in-command of an aeroplane equipped with an airborne collision avoidance system (ACASII) shall ensure that each flight crew member has been appropriately trained to competency in the use of ACASII equipment and the avoidance of collisions.

Licence
Requirement for
Flight Crew

- 37.** (1) A person shall not act as pilot-in-command or in any other capacity as required flight crew member –
 - (a) a Guyana aircraft, unless he carries in his personal possession the appropriate and valid licence for that flight crew position for that type of aircraft;
 - (b) a foreign aircraft, unless he carries in his personal possession the appropriate and valid licence for that type of aircraft which shall include a current medical certificate issued by the State which issued the licence.
 (2) the flight crew of an aircraft shall include at least one (1) member who holds a valid licence issued or rendered valid by the Authority, authorising operation of the type of radio transmitting equipment to be used.

Limitation on Use
of Services for
Commercial Air
Transport
Operations

- 38.** A person shall not act as a required flight crew member, nor shall any national air operator require a person to act as a required flight crew member in commercial air transport operations, where he does not meet the requirements of the Civil Aviation General Application and Personnel Licensing Regulations, and has successfully completed the full training programme under these Regulations of the national air operator.

Rating Required for
Instrument Flight
Rules Operation

- 39.** A person shall not act as pilot-in-command of an aircraft under Instrument Flight Rules or in weather conditions less than the minimum prescribed for Visual Flight Rules flight unless –

- (a) in the case of an aeroplane, the pilot holds an Instrument Rating or an Airline Transport Pilot Licence with an appropriate aeroplane category being flown;
- (b) in the case of helicopter, the pilot holds a helicopter Instrument Rating or an Airline Transport Pilot Licence for helicopter not limited to Visual Flight Rules operations.

Special
Authorisation
Required for
Category II or III
Operations

40. (1) Except as provided in sub-regulation (2), a person shall not act as flight crew member of an aircraft in a Category II or III operation under Part VII unless –

- (a) in the case of a pilot-in-command, he holds a current Category II or III pilot authorisation issued in accordance with the Civil Aviation General Application and Personnel Licensing Regulations, for that type of aircraft; and
- (b) in the case of a co-pilot, he is authorised under that Part to act as co-pilot in that aircraft in Category II or III operations

(2) An authorisation is not required for individual pilots of an operator who has operations specifications approving Category II or III operations.

Pilot
Logbooks

41. (1) A pilot shall provide the Authority with evidence that he possesses the aeronautical training and experience to meet the requirements for a licence or rating, or recency of experience, recorded in his logbook.

(2) A Student Pilot shall carry his logbook, including the proper Flight Instrument endorsements, on all solo cross-country flights.

Recency
Requirements for a
Pilot-in-command

42. (1) A person shall not act as pilot-in-command or co-pilot of a type or variant of type of an aeroplane or helicopter carrying passengers, nor of an aeroplane or helicopter certified for more than one (1) required flight crew member unless within the preceding ninety (90) days that pilot has –

- (a) made three (3) take-offs and landings as the sole manipulator of the flight controls in an aeroplane or helicopter of the same category and class and where a type rating is required, of the same type; or
- (b) for a tail-wheel aeroplane, made three take-offs and landings in a tail-wheel aeroplane with each landing to a full stop.

(2) A pilot who has not met the recency of experience for take-offs and landings under sub-regulation (1), shall satisfactorily complete a re-qualification training programme acceptable to the Authority.

(3) Requirements of sub-regulations (1) and (2), may be satisfied in a flight simulator.

(4) Where a pilot-in-command or co-pilot is flying several variants of the same type of aeroplane or helicopter or different types of aeroplanes or helicopters with similar characteristics in terms of operating procedures, systems and handling, the Director General shall determine under which conditions the requirements of sub-regulation (1) for each variant of each type of aeroplane or helicopter can be combined.

Recent Experience –
Cruise Relief Pilot

- 43.** (1) An operator shall not assign a pilot to act in the capacity of cruise relief pilot in a type or variant of a type of aeroplane unless, within the preceding ninety (90) days that pilot has either –
- (a) operated as a pilot-in-command, co-pilot or cruise relief pilot on the same type of aeroplane; or
 - (b) carried out flying skill refresher training including normal, abnormal and emergency procedures specific to cruise flight on the same type of aeroplane or in a flight simulator approved for the purpose, and has practiced approach and landing procedures, where the approach and landing procedure practice may be performed as the pilot who is not flying the aeroplane.
- (2) When a cruise relief pilot is flying several variants of the same type of aeroplane or different types of aeroplane with similar characteristics in terms of operating procedures, systems and handling, the Director General shall decide under which conditions the requirements of sub-regulation (1) for each variant or each type of aeroplane can be combined.

Requirements for
Flying under
Instrument Flight

- 44.** (1) A person shall not act as pilot-in-command in an aircraft under Instrument Flight Rules, nor in Instrument Meteorological Conditions, unless he has, within the past six (6) months –
- (a) logged at least six (6) hours of instrument flight time including at least three (3) hours in flight in the category of aircraft; and
 - (b) completed at least six (6) instrument approaches.
- (2) A pilot who has completed an instrument proficiency check with a Flight Test Examiner retains recency for Instrument Flight Rules operations for twelve (12) months following such check.

Recency Take-Off
and Landings
Requirements for
Co-Pilot

- 45.** (1) A pilot shall not act as co-pilot at the flight controls of an aircraft during take-off and landing unless, within the preceding ninety (90) days, such pilot has –
- (a) made three (3) take-offs and landings as the pilot-in-command or co-pilot in an aircraft of the same category and class and where a type rating is required, of the same type; and
 - (b) for a tail-wheel aircraft, made the three (3) take-offs and landings as pilot-in-command or co-pilot in a tail-wheel aircraft with each landing to full stop.

- (2) A pilot who has not met the recency requirements for take-offs and landings prescribed by sub-regulation (1), shall satisfactorily complete a re-qualification training programme acceptable to the Authority.
- (3) The requirements of sub-regulations (1) and (2), may be satisfied in a flight simulator.
- (4) The ninety-day (90) period prescribed under sub-regulation (1), may be extended up to a maximum of one hundred and twenty (120) days where the pilot meets the requirements of sub-regulation (1), on a line flight under the supervision of a type rating instructor or Flight Test Examiner.
- (5) Where a period beyond the one hundred and twenty (120) days extension under sub-regulation (4), is required, the recency requirement shall be satisfied by a training flight or use of a flight simulator.
- 46.** (1) A person shall not act as pilot-in-command of an aircraft type certified for more than one (1) pilot unless, since the beginning of the preceding twelve (12) months, he has passed, with a Flight Test Examiner, a proficiency check in an aircraft requiring more than one (1) pilot.
- (2) A person shall not act as pilot-in-command of an aircraft type certified for more than one (1) pilot unless, since the beginning of the preceding twenty-four (24) months, he has passed a proficiency check in the aircraft type to be operated.
- (3) A person shall not act as pilot-in-command of an aircraft type certified for a single pilot unless, since the beginning of the preceding twenty-four (24) months, he has passed a proficiency check with a Flight Test Examiner.
- (4) A Flight Test Examiner conducting proficiency checks under this regulation shall ensure that each proficiency check duplicates the manoeuvres of the type rating skill test.
- (5) A person shall not act as co-pilot of an aircraft type certified for more than one (1) pilot unless, since the beginning of the preceding twelve (12) months, he has –
- (a) become familiar with the aircraft systems, performance, normal and emergency procedures; and
 - (b) logged three (3) take-off and landings as the sole manipulator of the controls.

Required
Proficiency for
General Aviation
Pilots

(6) This regulation shall not apply to pilots engaged in commercial air transport operations.

47. A pilot may conduct operations only within the privileges and limitations of his licence.

PART V

CREW MEMBER DUTIES AND RESPONSIBILITIES

48. (1) A crew member shall be responsible for the proper execution of his duties that are –

- (a) related to the safety of the aircraft and its occupants; and
- (b) specified in the instructions and procedures laid down in the Operations Manual.

(2) A crew member shall –

- (a) report to the pilot-in-command any fault, failure, malfunction or defect which he believes may affect the airworthiness or safe operating of an aircraft including emergency systems;
- (b) report to the pilot-in-command any occurrence that endangers, or may endanger the safety of operation; and
- (c) make use of the occurrence reporting scheme of the operator in accordance with these Regulations and in all such cases a copy of the report shall be communicated to the pilot-in-command concerned.

(3) Nothing in sub-regulation (2), shall require a crew member to report an occurrence which has already been reported by another crew member.

(4) A crew member shall not perform duties on an aircraft –

- (a) while under the influence of any drug that may affect his faculties in a manner contrary to safety;
- (b) until a reasonable time period has elapsed after deep-water diving;
- (c) following blood donation except when a reasonable time period has elapsed;
- (d) where he is in any doubt of being able to accomplish his assigned duties; or
- (e) where he knows or suspects that he is suffering from fatigue or feels unfit to the extent that the flight may be endangered.

(5) A crew member shall not-

- (a) consume alcohol less than eight (8) hours prior to the specified reporting time for flight duty or the commencement of reserve or standby duty;
- (b) commence a flight duty period with a blood alcohol level in excess of 0.04 percent (0.04%) by weight in the period;
- (c) consume alcohol during the flight duty period or whilst on reserve or standby duty;

(6) A pilot-in-command shall –

- (a) be responsible for the safe operations of the aircraft and the safety of its occupants during flight time;
- (b) decide whether or not to accept an aircraft with unserviceable equipment permitted by the Configuration Deviation List or Minimum Equipment List;
- (c) ensure that the pre-flight inspection has been carried out
- (d) have authority to give all commands he deems necessary for the purpose of securing the safety of the aircraft and of persons or property carried therein;
- (e) have authority to require any person to disembark, or have removed who in his opinion, may represent a potential hazard to the safety of the aircraft or its occupants;
- (f) have authority to require any part of cargo on an aircraft be removed, which in his opinion, may represent a potential hazard to the safety of the aircraft or its occupants;
- (g) not permit any person to be carried in the aircraft who appears to be under the influence of alcohol or drugs to the extent that the safety of the aircraft or its occupants is likely to be endangered;
- (h) have the right to refuse transportation of inadmissible passengers, deportees or persons in custody if their carriage poses any risk to the safety of the aircraft or its occupants;
- (i) detain any person or cargo for any period he considers reasonably necessary to ensure compliance with the Act or Regulations made thereunder;
- (j) ensure that all passengers are briefed on the location of emergency exits and the location and use of relevant safety and emergency equipment;
- (k) ensure that all operational procedures and checklists are complied with in accordance with the Operations Manual;
- (l) not allow any crew member to perform any activity during take-off, initial climb, final approach and landing except those duties enquired for the safe operation of the aircraft; and
- (m) not allow –
 - (i) a flight data recorder to be disabled, switched off or erased during flight;
 - (ii) recorder data to be erased after flight in the event of an accident or an incident subject to mandatory reporting;

- (iii) a cockpit voice recorder to be disabled or switched off during flight unless he believes that the recorded data, which otherwise would be erased automatically, should be preserved for incident or accident investigation; and
- (iv) recorded data to be manually erased during or after flight in the event of an accident or incident subject to mandatory reporting.

(7) The pilot-in-command or the pilot to whom conduct of the flight has been delegated shall, in an emergency situation that requires immediate decision and actions, take any action he considers necessary under the circumstances and in such cases he may deviate from rules, operational procedures and methods in the interest of safety.

Powers of the
Pilot-in-command

49. An operator shall take all necessary measures to ensure that all persons carried in the aircraft, obey all reasonable commands given by the pilot-in-command for the purpose of securing the safety of the aircraft and of persons or property carried therein.

Compliance with
Local Regulations

50. (1) Subject to sub-regulation (2), a pilot-in-command shall comply with the relevant laws, regulations and procedures of the States in which the aircraft is operated.

(2) Where an emergency situation exists, which endangers the safety of an aircraft or persons on board an aircraft and necessitates the taking of action which involves a violation of the requirements under sub-regulation (1), the pilot-in-command shall –

- (a) notify the appropriate Civil Aviation Authority without delay; and
- (b) submit a report of the circumstances, where required by the State in which the incident occurred.

(3) A copy of the report under sub-regulation (2)(b), shall be submitted by the pilot-in-command to the Authority within ten (10) days of the violation in the form prescribed.

Prohibition on the
Negligent or Reckless
Operations of aircraft

51. A person shall not operate an aircraft in a negligent or reckless manner that could endanger life or property.

Fitness of Flight
Crew

52. (1) A person shall not act as pilot-in-command or in any other capacity as a required member of the crew when he is aware of any decrease in his medical fitness that might render him unable to safely exercise the privileges of his licence.

- (2) The pilot-in-command shall be responsible for ensuring that a flight is not –
- (a) commenced where any flight crew member is incapacitated from performing duties for any cause such as injury, sickness, fatigue, the effects of alcohol or drugs; or
 - (b) continued beyond the nearest suitable aerodrome where the capacity of the flight crew to perform functions is significantly reduced by impairment of faculties due to fatigue, sickness or lack of oxygen.

**Crew Member Use
of Seat Belts and
Shoulder Harness**

- 53.** (1) A crew member shall have his seat belt fastened during take-off and landing and all other times when seated at his station.
- (2) A member of the flight crew occupying a pilot seat shall keep the safety harness fastened during take-off and landing phases.
- (3) Crew members other than those specified in sub-regulation (1), occupying a station equipped with a shoulder harness shall fasten that harness during take-off and landing, except that the shoulder harness may be unfastened where those crew members cannot perform the required duties with the shoulder harness fastened.
- (4) An occupant of a seat equipped with a combined safety belt and shoulder harness shall have the combined safety belt and shoulder harness properly secured about himself, during take-off and landing and be able to properly perform assigned duties.
- (5) At an unoccupied seat, the safety belt and shoulder harness, where installed, shall be secured so as not to interfere with a crew member in the performance of his duties or with the rapid egress of persons in an emergency.

**Requirements of
Flight Crew at Duty
Stations**

- 54.** (1) A required flight crew member shall remain at his assigned duty station during take-off and landing and critical phases of flight.
- (2) A flight crew member shall remain at his station during all phases of flight unless –
- (a) absence is necessary for the performance of his duties in connection with the operation;
 - (b) absence is necessary for physiological needs, provided one qualified pilot always remains at the controls; or
 - (c) the crew member is taking a rest period and a qualified relief crew member replaces him at the duty station.
- (3) On all decks of an aircraft that are occupied by passenger, required cabin members shall be seated at their assigned stations during the

take-off and landing and whenever deemed necessary by the pilot-in-command in the interest of safety.

Flight Crew
Emergency Duties

- 55.** An operator shall assign for each type of aircraft the necessary functions that flight crew are to perform in an emergency or in a situation requiring emergency evacuation.

Required Crew
Equipment

- 56.** (1) A crew member involved in night operations shall have a flashlight at his station.
- (2) A flight crew member shall have at his station an aircraft checklist containing at least the pre-take-off, after take-off, before landing and emergency procedures.
- (3) A flight crew member shall have at his station, current and suitable charts to cover the route of the proposed flight and any route along which it is reasonable to expect that the flight may be diverted.
- (4) A flight crew member assessed as fit to exercise the privileges of a licence subject to the use of suitable corrective lenses shall have a spare set of the corrective lenses readily available when performing as required crew member in commercial air transport operations.

Requirements to
Comply with Approved
Checklist Procedures

- 57.** A pilot-in-command shall ensure that the flight crew follows the approved checklist procedures under the Civil Aviation Air Operator Certification and Administration Regulations, when operating the aircraft.

Requirement to
Have Search and
Rescue Information
on Board Aircraft

- 58.** For all international flights, a pilot-in-command shall have on board the aircraft essential information concerning the search and rescue services in the areas over which they intend to operate the aircraft.

Production of
Aircraft and Flight
Documentation

- 59.** A pilot-in-command shall produce to an Inspector of the Authority or of any other Civil Aviation Authority of a contracting state the documentation required to be carried on board an aircraft when such Inspector so requests.

Requirements for
Cockpit in Commercial
Security for Commercial
Air Transport
Operations

- 60.** A pilot-in-command shall ensure that approved procedures under Civil Aviation Air Operator Certification and Administration Regulations, to prevent unauthorised persons from entering the flight crew compartment during flight are complied with at all times during passenger carrying commercial air transport operations.

Admission to the
Cockpit in
Commercial Air
Transport

- 61.** (1) A pilot-in-command shall not admit any person to the cockpit of a Guyana aircraft engaged in commercial air transport operations unless the person being admitted is –
- (a) an operating crew member;
 - (b) a representative of the Authority responsible for certification, licensing or inspection, where this is required for the performance of his official duties;
 - (c) permitted by the operator and admitted in accordance with instructions contained in the Operations Manual;
 - (d) a flight operations officer undergoing air operator observation training; or
 - (e) an Air Traffic Controller who is authorised by the Authority to observe Air Traffic Control Procedures.
- (2) The pilot-in-command shall ensure that –
- (a) in the interest of safety, admission to the cockpit does not cause distraction and interference with the operations of the flight; and
 - (b) a person who is being carried in the cockpit is first made familiar with the relevant safety procedures.

Admission of an
Inspector to the
Cockpit

- 62.** (1) Where, in performing the duties of conducting an inspection, an Inspector from the Authority presents his authorisation to the pilot-in-command, the pilot-in-command shall give the Inspector free and uninterrupted access to the cockpit of the aircraft.
- (2) An air operator shall make available for the use of the Inspector, the observer seat most suitable to perform his duties as determined by the Inspector.

Requirement for
In-Flight Fuel
Management

- 63.** (1) An air operator shall establish a procedure to ensure that in-flight fuel checks and fuel management are carried out.
- (2) A pilot-in-command shall ensure that the amount of usable fuel remaining in flight is not less than the fuel required to proceed to an aerodrome where a safe landing can be made, with final reserve fuel remaining.
- (3) A pilot-in-command shall declare an emergency when the actual usable fuel on board is less than the final reserve fuel.

Duties of Flight
Crew during
Critical Phases of
Flight

- 64.** (1) A flight crew member shall not perform any duties during a critical phase of flight except those required for the safe operation of the aircraft.
- (2) A pilot-in-command shall not permit a flight crew member to engage in any activity during a critical phase of flight which could distract or interfere with the performance of his assigned duties.
- (3) A flight crew member required to be on cockpit duty shall communicate through boom microphones below Flight Level 150.

Restriction on
Manipulation of the
Controls in
Commercial Air
Transport Operations

Simulated Abnormal
Situations in Flight
for Commercial Air
Transport
Operations

Completion of
Technical Logbook
for Commercial Air
Transport
Operations

Reporting
Mechanical
Irregularities

General Reporting
Procedures for
Occurrences

- 65.** A pilot-in-command shall not allow an unqualified person to manipulate the controls of an aircraft during commercial air transport operations.
- 66.** A person shall not cause or engage in simulated abnormal or emergency situations or the simulation of instrument meteorological conditions by artificial means during commercial air transport operations.
- 67.** (1) The pilot-in-command shall ensure that all portions of the technical logbook are completed in dark blue or black indelible ink at the appropriate points before, during and after flight operations.
(2) The pilot-in-command shall be responsible for the journey log and the general declaration.
- 68.** An operator shall ensure that all known or suspected defects and mechanical irregularities occurring during flight time are entered in the technical log of the aircraft at the end of such flight.
- 69.** (1) An operator shall establish procedures for reporting occurrences taking into account the following responsibilities:
(a) a pilot-in-command or the operator of an aircraft shall submit a report to the Authority of any occurrence that endangers or could endanger the safety of the operation;
(b) a report under paragraph (a), by the pilot-in-command shall be dispatched within seventy-two (72) hours of the time when the incident was identified unless exceptional circumstances prevent this;
(c) a pilot-in-command shall ensure that all known or suspected technical defects and all occurrences whose technical limitations occurring while he was responsible for the flight are recorded in the aircraft technical log and where the deficiency or exigency of technical limitations endangers or could endanger the safety of operation, the pilot-in-command shall in addition initiate the submission of a report to the Authority in accordance with paragraph (a).
(2) In the case of incidents reported in accordance with sub-regulation (1) –
(a) arising from or relating to, any failure, malfunction defect in the aircraft, its equipment or any item of ground support equipment; or

(b) which causes or may cause adverse effects on continuing airworthiness of the aircraft, the operator shall also inform the organisation responsible for the design or the supplier or, where applicable, the organisation responsible for continued airworthiness, at the same time as report is submitted to the Authority.

70. An operator shall establish procedures for reporting accidents and serious incidents taking into account the following responsibilities and the circumstances:

- (a) a pilot-in-command shall notify the operator of any accident or serious incident occurring while he was responsible for the flight, and when he is incapable of providing such notification, this task shall be undertaken by the next senior crew member as specified by the air operator where such other member is able to do so;
- (b) an operator shall ensure that the civil aviation authority in the State of the operator, the nearest appropriate civil aviation authority where not the civil aviation authority in the State of the operator, and any other organisation required by the State of the operator to be informed, are notified by the quickest means available of any accident or serious incident and in the case of accidents only, at least before the aircraft is moved unless exceptional circumstances prevent this; and
- (c) a pilot-in-command or the operator of an aircraft shall submit a report to the civil aviation authority in the State of the operator within seventy-two (72) hours of the time when the accident or serious incident occurred.

71. Where an air traffic incident occurs, a pilot-in-command shall without delay notify –

- (a) the applicable Air Traffic Control facility, about the incident and of his intention to submit an air traffic incident report after the flight has ended whenever an aircraft in flight has been endangered by –
 - (i) near collision with any other flying device;
 - (ii) faulty air traffic procedures or lack of compliance with applicable procedures by air traffic control or by the flight crew; or
 - (iii) failure of air traffic control facilities; and

(b) the Authority, about the incident.

72. A pilot-in-command shall –

- (a) immediately notify the Air Traffic Control Facility concerned whenever an aircraft in flight has maneuvered in response to an Airborne Collision Avoidance System Resolution Advisory; and

Procedures for
Reporting Bird
Hazards and Strikes

(b) submit a report to the Authority on any occurrence of an Airborne Collision Avoidance System Resolution Advisory

73. (1) A pilot-in-command shall immediately inform the local Air Traffic Control Facility whenever a potential bird hazard is observed.

(2) Where a pilot-in-command of an aircraft is aware that a bird strike has occurred and such bird strike has resulted in significant damage or the loss or malfunction of any essential service of the aircraft he shall submit a written bird strike report to the Authority, upon landing.

(3) Where evidence of a bird strike is discovered on an aircraft when the pilot-in-command is not available, the operator shall be responsible for submitting the report.

Procedures for
Reporting In-Flight
Emergency

74. (1) Where an in-flight emergency occurs the pilot-in-command shall inform the appropriate Air Traffic Facility –
(a) of such an occurrence; and
(b) where the situation permits, any dangerous goods on board the aircraft.

(2) Where an aircraft under sub-regulation (1), has landed, the pilot-in-command shall, where the occurrence has been associated with and was related to the transport of dangerous goods, comply also with the reporting requirements specified in regulation 26.

Procedures for
Reporting Unlawful
Interference

75. Where there has been an act of unlawful interference on board an aircraft, the pilot-in-command or, in his absence, the operator shall submit a report as soon as practicable to the civil authority of the State where the incident occurred and to the Authority.

Procedures for
Reporting Potentially
Hazardous Conditions

76. A pilot-in-command shall notify the appropriate Air Traffic Control Facility as soon as practicable whenever a potentially hazardous condition such as an irregularity in a ground or navigational facility, a meteorological phenomenon or a volcanic ash cloud is encountered during flight.

Operation of
Cockpit Voice and
Flight Data
Recorder

77. (1) A pilot-in-command shall ensure that whenever an aircraft has flight recorders installed, such recorders are operated continuously from the instant –
(a) for a flight data recorder, the aircraft begins its take-off roll until it has completed the landing roll; and
(b) for a cockpit voice recorder, the initiation of the prestart checklist until the end of the aircraft shutdown checklist.

(2) A pilot-in-command, in order to preserve the data for an accident or incident investigation by the Authority, shall not, unless necessary,

Civil Aviation Authority

permit a flight data recorder or cockpit voice recorder to be disabled, switched off or erased during flight.

**Requirements for
Minimum Supply
and Use of Oxygen**

- (3) In the event of an accident or incident, a pilot-in-command shall act to preserve the recorded data for subsequent submission to the Authority as may be requested for the conduct of an investigation.
- 78.** (1) A pilot-in-command shall ensure that breathing oxygen is provided on flights at such altitudes where a lack of oxygen may result in impairment of the faculties of crew members.
- (2) The minimum supply of oxygen on board the aircraft shall not be less than that prescribed by the Civil Aviation Instrument and Equipment Regulations.
- (3) A pilot-in-command shall ensure that all flight crew members, when performing duties essential to the safe operation of an aircraft in flight, use breathing oxygen continuously where the cabin altitude exceeds ten thousand feet (10,000 ft) for a period in excess of thirty (30) minutes and whenever the cabin altitude exceeds thirteen thousand feet (13,000 ft).
- (4) One pilot at the controls of a pressurised aircraft in flight shall have available at his pilot station, a quick-donning oxygen mask with oxygen readily available on demand –
 (a) for general aviation operations, at flight levels above flight level 350, where there is no other pilot at his duty station; and
 (b) for commercial air transport operations, at flight levels above flight level 250, if there is no other pilot at his duty station.

**Restrictions on Use
of Portable
Electronic Devices**

- 79.** A pilot-in-command or senior cabin crew shall not permit any person to use, nor shall any person use a portable electronic device on board an aircraft that may adversely affect the performance of the aircraft systems and equipment unless –
 (a) for Instrument Flight Rules operations other than commercial air transport, he allows such a device prior to its use; or
 (b) for commercial air transport operations, the air operator makes a determination of acceptable devices and publishes that information in the Operations Manual for the crew members use; and
 (c) he informs passengers of those portable electronic devices that may be used on the aircraft.

PART VI

FLIGHT PLANNING AND SUPERVISION

- 80.** (1) Information in respect of an intended flight or portion of a flight, to be provided to the appropriate Air Traffic Control facility shall be in the form of an Air Traffic Control flight plan (hereinafter referred to as a “flight plan”).
- (2) A flight plan under sub-regulation (1) shall be filed for all Visual Flight Rules and Instrument Flight Rules flights.
- (3) A pilot-in-command shall submit a flight plan before departure or during flight, to the appropriate Air Traffic Control Facility, unless arrangements have been made for submission of a repetitive flight plan.
- (4) Unless otherwise prescribed by the appropriate Air Traffic Control Facility, a pilot shall submit a flight plan to the appropriate Air Traffic Control Facility –
- (a) at least sixty (60) minutes before departure of the aircraft; to
 - (b) where submitted during flight, at a time which will ensure its receipt by the appropriate Air Traffic Control Facility at least ten (10) minutes before the aircraft is estimated to reach –
 - (i) the intended point of entry into a control area or advisory area; or
 - (ii) the point of crossing an airway or advisory route.

- 81.** A person shall not take-off an aircraft in commercial air transport operations where flight plan has not been filed, except as authorised by the Authority.

- 82.** (1) A person filing an Instrument Flight Rules flight plan or Visual Flight Rules flight plan shall provide the following information to Air Traffic Control Facility prior to departure of the aircraft –
- (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 and alternate, where required;
 - (f) estimate off-block time;
 - (g) cruising speed;
 - (h) cruising level;
 - (i) route to be followed;
 - (j) destination aerodrome and total estimated elapsed time;
 - (k) alternate aerodrome;
 - (l) fuel endurance;
 - (m) total number of persons on board;
 - (n) emergency and survival equipment;
 - (o) name of pilot-in-command; and

(p) any other information as may be prescribed by Authority.

- (2) Whatever the purpose for which it is submitted, a flight plan under sub-regulation (1), shall contain information, as applicable, on the items set out in sub-regulation (1)(a), through (k) regarding the whole route or the portion thereof which the flight plan is submitted.

83. Where during flight planning a Flight Operations Officer or an equivalently qualified person determines that fuel endurance of the aircraft may permit the pilot-in-command to change the destination filed to one of greater distance during flight while still complying with the minimum fuel planning requirements he shall, where the pilot-in-command agrees, notify the appropriate Air Traffic Control Facility of this possibility when the flight plan is submitted.

84. (1) When a flight plan is submitted for an Instrument Flight Rules flight or a Visual Flight Rules flight operated as a controlled flight, and a change occurs to such flight plan in respect of –
 (a) Instrument Flight Rules Flight to Visual Flight Rules flight; or
 (b) Visual Flight Rules Flight to Instrument Flight Rules Flight, the pilot shall report such change as soon as practicable to the appropriate Air Traffic Control Facility.

(2) For Visual Flight Rules flight other than that operated as a controlled flight, the pilot-in-command shall report significant changes to a flight plan as soon as practicable to the appropriate Air Traffic Control Facility.

(3) Operational instructions involving a change to the filed flight plan, shall when practicable, be coordinated with the appropriate Air Traffic Control Facility before transmission to the aircraft.

(4) Where information is submitted prior to departure regarding fuel endurance or total number of persons carried on board, is incorrect at time of departure, such circumstance constitutes a significant change under sub-regulation (2) and shall be reported to the Air Traffic Control Facility.

85. (1) A pilot-in-command shall make a report of arrival (hereinafter referred to as an “arrival report”) either in person or by radio to the appropriate Air Traffic Control Facility at the earliest opportunity upon landing at the destination aerodrome, unless the Air Traffic Control Facility automatically closes a flight plan.
 (2) Where a flight plan has been submitted for a portion of a flight, but not the arrival at destination, the pilot shall close that flight plan en-route with appropriate Air Traffic Control Facility.

- (3) Where an Air Traffic Control Facility under sub-regulation (2) does not exist at the arrival aerodrome, the pilot shall contact the nearest Air Traffic Control Facility to close the flight plan as soon as practicable after landing and by the quickest means available.
- (4) When communication facilities at the arrival aerodrome are known to be inadequate and alternate arrangements for the handling of arrival reports on the ground are not available prior to landing the aircraft, they shall transmit to the appropriate Air Traffic Control Facility, a message with all the arrival details which would normally be contained in an arrival report.
- (5) An arrival report under this regulation shall include the following information:
 - (a) aircraft identification;
 - (b) departure aerodrome;
 - (c) destination aerodrome, only in the case of a diversionary landing;
 - (d) arrival aerodrome; and
 - (e) time of arrival
- (6) In this regulation “closing a flight plan” means an indication by the pilot-in-command of the end or intended end of a flight within an Air Traffic Control Facility.

Requirements for
Aircraft
Airworthiness and
Safety Precautions

- 86.** (1) A pilot-in-command shall not operate an aeroplane in flight or helicopter in a series of flights unless he is satisfied that –
- (a) the aircraft is airworthy, duly registered and that appropriate certificates are aboard the aircraft;
 - (b) the instruments and equipment installed in the aircraft are appropriate for the expected flight conditions; and
 - (c) all necessary scheduled and maintenance activities have been performed and a Certificate of Release to Service has been issued in respect to the aircraft.
- (2) For commercial air transport operations, a pilot-in-command shall certify by signing the aircraft technical log that he is satisfied that the requirements of sub-regulation (1) have been met.
- (3) A pilot-in-command shall certify by signing the load sheet and operational flight plan when he is satisfied that –
- (a) the mass and centre of gravity of the aircraft are such that the flight can be conducted safely, considering the flight conditions expected;
 - (b) any load carried is properly distributed and safely secured in accordance with the Aircraft Loading Manual;

Requirement for
Adequacy of
Operating Facilities

(c) a check has been completed indicating that the operating limitations of Part VI can be complied with for the flight to be undertaken.

87. (1) A person shall not commence a flight unless it has been determined by every reasonable means available that the ground or water areas and aerodrome facilities required for such flight and for the safe operation of the aircraft, including communication facilities and navigational aids, are available and are adequate.

(2) In this regulation “every reasonable means” means the use at the point of departure of information available to the pilot-in-command either through official information published by the Aeronautical Information Services or readily obtainable from other sources.

Pilot-in-command
to be Familiar with
Meteorological
Information

88. (1) Before commencing a flight, a pilot-in-command shall be familiar with all available meteorological information appropriate to the intended flight.

(2) A pilot-in-command shall include, during preparation for flight –
 (a) a study of current weather reports and forecasts; and
 (b) the planning of an alternative course of action to provide for the possibility that the flight cannot be completed as planned, because of advance weather conditions

Weather
Limitations for
Visual Flight Rules
Flights

89. A person shall not commence a flight to be conducted in accordance with Visual Flight Rules unless current meteorological reports, or a combination of current reports and forecasts, indicate that the meteorological conditions along the route, or that part of the route to be flown or in the intended area of operations under Visual Flight Rules, will, at the appropriate time, allow Visual Flight Rules operations.

Instrument Flight
Rules, Destination
Aerodrome
Requirements

90. (1) A person shall not, for Instrument Flight Rules flight planning purposes, commence an Instrument Flight Rules flight unless approach minima are prescribed and the information indicates that the weather conditions at the aerodrome of intended landing and where required, at least one (1) suitable alternate at the estimated time of arrival, will be at or above the –

(a) minimum ceiling and visibility values for the standard instrument approach procedures to be used; or
 (b) minimum operating altitude, where no instrument approach procedures is to be used, that would allow a Visual Flight Rules descent to the aerodrome.

(2) Notwithstanding sub-regulation (1), where Instrument Flight Rules flight planning is required for commercial air transport, the weather at the destination is not required to be at above the approach minima to release and commence a flight where the designated alternate

aerodrome meets the Instrument Flight Rules weather selection criteria.

Instrument Flight
Rules, Destination
Alternate
Requirements

- 91.** (1) A pilot-in-command shall, for a flight to be conducted in accordance with the Instrument Flight Rules, ensure that at least one (1) destination alternate aerodrome is selected and specified in the operational flight plan under regulation 105 and the Air Traffic Control flight plans, unless –
- (a) the duration of the flight and the meteorological conditions prevailing are such that there is reasonable certainty that, at the estimated time of arrival at the aerodrome of intended landing, and for a reasonable period before and after such time, the approach and landing may be made under Visual Flight Rules; or
 - (b) the aerodrome or heliport of intended landing is isolated and there is no suitable destination alternate aerodrome.
- (2) The requirements set out in sub-regulation (1) shall be satisfied where –
- (a) there is a standard instrument approach procedure prescribed by the appropriate authority for the aerodrome of intended landing; and
 - (b) available current meteorological information indicates that the following meteorological conditions will exist from two (2) hours before to two (2) hours after the estimated time of arrival:
 - (i) a cloud base of at least one thousand feet (1,000 ft) above the approach minimum associated with the instrument approach procedure; and
 - (ii) visibility of four kilometers (4 km) more than the approach minimum associated with the procedure, or five and a half kilometers (5.5 km), whichever is the greater.
- (3) The ceiling and visibility requirements of sub-regulation (2)(b), may be reduced upon approval of the Authority for –
- (a) helicopters; or
 - (b) commercial air transport operations where no suitable destination alternate exists.

Instrument Flight
Rules, Alternate
Aerodrome
Selection Criteria

- 92.** (1) A pilot-in-command shall not designate an alternate aerodrome in an Instrument Flight Rules plan unless –
- (a) the current available forecast indicates that the meteorological conditions at that alternate aerodrome at the estimated time of arrival will be at or above approach minima for such alternate aerodrome; or
 - (b) specifically, authorised by the Authority
- (2) Unless otherwise specifically authorised by the Authority, where approach minima under this regulation are not published, and where

there is no prohibition against using the aerodrome as an Instrument Flight Rules planning alternate, a pilot-in-command shall ensure that the meteorological conditions at that alternate at the estimated time of arrival will be at or above –

- (a) a ceiling of at least six hundred feet (600 ft) and visibility of not less than two (2) statute miles for a precision approach procedure; or
- (b) a ceiling of at least eight hundred feet (800 ft) and visibility of not less than two (2) statute miles for a non-precision approach procedure.

Requirements for
Off-Shore
Alternates for
Helicopter
Operations

93. (1) A person shall not designate an offshore alternate aerodrome landing site for helicopter operations when it is possible to carry enough fuel to have an on-shore alternate landing site

(2) A person selecting an offshore alternate aerodrome landing site for helicopter operations shall consider the following:

- (a) calculating the point of no return;
- (b) the use of offshore alternate only after a point of no return;
- (c) attaining one (1) engine inoperative performance capability prior to arrival at the alternate;
- (d) guaranteeing helideck availability;
- (e) the weather information at the helideck shall be available from a source approved by the Authority; and
- (f) for Instrument Flight Rules operations and instrument approach procedure shall be prescribed and available.

Take-Off Alternate
Aerodromes for
Commercial Air
Transport
Operations

94. (1) A person shall not release or take-off an aircraft without a suitable take-off alternate aerodrome specified in the flight release where it would not be possible to return to the aerodrome of departure.

(2) An air operator shall ensure that each take-off alternate aerodrome specified under sub-regulation (1), shall be located within –

- (a) one (1) hour flight time at single-engine cruise speed for two-engine aircraft; or
- (b) for three or four-engine aircraft, two (2) hours flight time at one-engine inoperative cruise speed.

(3) A take-off alternate aerodrome or heliport shall be selected and specified in the operational flight plan where the weather conditions at the aerodrome or heliport of departure are at or below the applicable aerodrome or heliport operating minima or it would not be possible to return to the aerodrome or heliport of departure for other reasons.

(4) An operator shall not select an alternate aerodrome unless –

- (a) the appropriate weather reports or forecast or any combination thereof indicate that, during a period commencing one (1) hour

before and ending one (1) hour after the estimated time of arrival at the aerodrome, the weather condition will be at or above the applicable landing minima specified for that aerodrome;

- (b) the height of the ceiling is considered, when the only approaches available are non-precision and circling approaches; and
- (c) limitations related to one-engine inoperative operations are considered.

Maximum Distance
from an Adequate
Aerodrome for Two-
Engine Aeroplanes
without an Extended
Range Operations
Approval

- 95.** (1) Unless specifically approved by the Authority, an air operator shall not operate a large two-engine aerodrome over a route which contains a point from an adequate aeroplane, further than the distance flown in sixty (60) minutes at the one-engine-inoperative cruise speed determined in accordance with sub-regulation (2), with either –
- (a) a maximum approved passenger seating configuration greater than nineteen (19); or
 - (b) a maximum take-off mass greater than forty-five thousand, three hundred and sixty kilograms (45,360 kg).
- (2) An air operator shall determine a speed for the calculation of the maximum distance to an adequate aerodrome for each two-engine aircraft type or variant operated, not exceeding the maximum operating speed based upon the true airspeed that the aircraft can maintain with one engine inoperative under the following conditions:
- (a) International Standard Atmosphere;
 - (b) Level flight –
 - (i) For turbine engine powered aeroplane at –
 - A. Flight Level 170; or
 - B. The maximum flight level to which the aeroplane, with one-engine-inoperative, can climb and maintain, using the gross rate of climb specified in the Aeroplane Flight Manual, whichever is less;
 - (ii) For a propeller driven aeroplane at –
 - A. Flight Level 80; or
 - B. the maximum flight level to which the aeroplane, with one-engine inoperative, can climb and maintain, using the gross rate of climb specified in the Aeroplane Flight Manual, whichever is less;
 - (c) maximum continuous thrust or power on the remaining operating engine;
 - (d) an aeroplane mass not less than that resulting from –
 - (i) take-off at sea-level at maximum take-off mass until the time elapsed since take-off is equal to the applicable threshold prescribed in sub-regulation (1);

- (ii) all engines climb to the optimum long-range cruise altitude until the time elapsed since take-off is equal to the applicable threshold prescribed in sub-regulation (1); and
 - (iii) all engines cruise at the long-range cruise speed at the optimum long range cruise altitude until the time elapsed since take-off is equal to the applicable threshold prescribed in sub-regulation (1).
- (3) An air operate shall ensure that the following data, specific to each type or variant, is included in the Operations Manual:
- (a) the one-engine-inoperative cruise speed, determined in accordance with sub-regulation (2);
 - (b) the maximum distance from an adequate aerodrome determined in accordance with sub-regulations (1) and (2); and
 - (c) any other pertinent data required by the Authority

Extended Range
Operations with
Two-Engine
Aeroplane

- 96.** (1) An operator shall not conduct operations beyond the threshold distance determined in accordance with regulation 95 unless so approved by the Authority.
- (2) An operator wishing to conduct operations beyond the threshold distance determined in accordance with regulation 95 shall apply to the Authority for approval to do so.
- (3) Where the Director General is satisfied that –
- (a) the airworthiness certification of the aircraft type;
 - (b) the reliability of the propulsion system; and
 - (c) the maintenance procedures of the operator, operating practices, flight dispatch and crew training programmes, meet the requirements of these Regulations he may approve the operation.

Requirements for
Enroute Alternate
Aerodromes for
Extended Range
Operations

- 97.** (1) Prior to conducting an Extended Range Operations flight an air operator shall ensure that a suitable Extended Range Operations enroute alternate is available, within either the approved diversion time or diversion time based on the Minimum Equipment List serviceability status of the aircraft, whichever is shorter.
- (2) A pilot-in-command shall ensure that the required enroute alternates for Extended Range Operations are selected and specified in the flight plan in accordance with the Extended Range Operations diversion time approved by the Authority.
- (3) A person shall not select an aerodrome as an Extended Range Operations enroute alternate aerodrome unless the appropriate weather reports or forecasts or any combination thereof, indicate

that during a period commencing one (1) hour before and ending one (1) hour after the expected time of arrival at the aerodrome, the weather conditions will be at or above the planning minima prescribed in Schedule 2.

- 98.** (1) A person shall not commence a flight unless the aircraft carries sufficient amounts of fuel, oil and oxygen including any reserves to be carried for contingencies needed to ensure the safe completion of the flight.
- (2) In computing the amounts required under sub-regulation (1), a person shall ensure that additional fuel, oil and oxygen are carried to provide for the increased consumption that would result from any of the following contingencies:
- (a) expected winds and other meteorological conditions;
 - (b) possible variations in Air Traffic Control routings;
 - (c) anticipated traffic delays;
 - (d) for instrument flight rules flight, one instrument approach at the destination aerodrome, including a missed approach;
 - (e) the procedures prescribed in the Operations Manual for loss of Pressurisation en-route where applicable;
 - (f) loss of one (1) power unit en-route; and
 - (g) any other conditions that may delay landing of the aircraft or increase fuel and oil consumption.
- (3) A person computing the required minima fuel supply shall ensure that, for flights of more than two thousand (2,000) nautical miles, the minima fuel supply calculation includes an additional amount of fuel equal to that necessary to fly ten percent (10%) of the total time for the flight from take-off to destination.
- (4) A pilot-in-command shall not commence a flight to an aerodrome where a suitable alternate aerodrome is not available due to the destination aerodrome being isolated, without enough reserve fuel for two (2) additional hours flight at normal cruise fuel consumption.
- (5) A pilot-in-command shall not commence a flight in accordance with instrument flight rules to an aerodrome or heliport where a suitable alternate is not available due to the destination aerodrome or heliport being isolated, without enough fuel carried to enable the helicopter to fly to the destination to which the flight is planned and thereafter for a period that will, based on geographic and environmental considerations, enable a safe landing to be made.
- (6) The Authority may grant specific approval for commercial air transport operations to isolated aerodromes without regard to fuel consumption requirement of sub-regulation (4).

(7) A flight plan may be amended in flight in order to re-plan the flight to another aerodrome, provided that the requirements of this regulation can be complied with from the point where the flight has been re-planned.

(8) Notwithstanding sub-regulation (1) through (5) the Authority may require, in addition to any other requirement herein, extra fuel to be carried on a particular route or flight operation in the interest of safety.

(9) Any extra fuel under sub-regulation (7) shall be included in the computation of the minimum fuel requirement for that route.

**Fuel Supply
Requirement for
Visual Flight Rules
Flight**

99. (1) A person shall not commence a flight in an aeroplane under Visual Flight Rules unless, considering the wind and forecast weather conditions, there is enough fuel to fly to the first point of intended landing and assuming normal cruising speed –
 (a) for flights during the day, for at least thirty (30) minutes thereafter; or
 (b) for flights at night, for at least forty-five (45) minutes thereafter; and
 (c) for international flight, for at least an additional fifteen percent (15%) of the total flight time calculated for cruise flight

(2) A person shall not commence a flight in a helicopter under Visual Flight Rules unless, considering the wind and forecast weather conditions there is enough fuel to fly to the first point of intended landing and assuming normal cruising speed –
 (a) for twenty (20) minutes thereafter; or
 (b) for international flights, for at least an additional ten percent (10%) of the total flight time calculated, plus a reserve for contingencies specified by the operator and approved by the Authority.

**Fuel Supply
Requirement for
Instrument Flight
Rules Flight**

100. (1) A person shall not commence a flight under Instrument Flight Rules unless there is enough fuel supply, considering weather reports and forecast, to –
 (a) fly to the first point of intended landing;
 (b) fly from that aerodrome to the planned alternate aerodrome, where required; and
 (c) fly thereafter at normal cruising speed –
 (i) in a propeller-driven aeroplane, for forty-five (45) minutes; and
 (ii) in a rotorcraft, turbojet or turbofan aeroplane, for thirty (30) minutes in a holding pattern at one thousand, five hundred feet (1,500 ft) above the aerodrome, plus a reserve for contingencies specified by the operator and approved by the Authority.

- (2) For Instrument Flight Rules flight to isolated aerodromes, the two (2) hour minimum reserve specified in sub-regulation 98 (4) shall apply.
 - (3) Notwithstanding sub-regulation (2), regulation 98 (6) shall not apply to commercial air transport operations unless specifically approved by the Authority.
- 101.** (1) For commercial air transport operations, a pilot-in-command shall complete and sign the following flight preparation documents prior to departure:
- (a) an operational flight plan, which takes into consideration Notices to Airmen and weather pertinent to the flight planning decisions regarding minimum fuel supply, enroute performance, destination aerodrome and alternate aerodromes.
 - (b) a load manifest, which takes into consideration the distribution of the load, centre of gravity, take-off and landing weights and compliance with maximum operating weight limitations and performance analysis.
 - (c) An applicable technical log page, where –
 - (i) Mechanical irregularities were entered after previous flight;
 - (ii) Maintenance or inspection functions were performed; or
 - (iii) Fuel and oil uplift were recorded; and
 - (iv) A Certificate of Release to Service was issued at the departure aerodrome.
- (2) A person shall not take-off an aircraft in commercial air transport unless all flight release documents, signed by the pilot-in-command, are retained and available at the point of departure.
- (3) A pilot-in-command shall carry on the aircraft a copy of the documents specified in sub-regulation (1), to the destination aerodrome.
- (4) Completed flight preparation documents shall be kept by an air operator in the manner set out in the Civil Aviation Air Operator Certification and Administration Regulations, for a period of not less than three (3) months.
- (5) An operational flight plan shall be completed for every intended flight of an aircraft or series of flight of a helicopter and shall be approved and signed by the pilot-in-command and signed by the Flight Operations Officer.
- (6) A copy of the operational flight plan under subregualtion (5) shall be filed at the designated retention location.

- (7) Where the procedures under sub-regulation (6), are not possible the flight plan shall be left with the aerodrome authority or on record at the appropriate Authority specified by the air operator in his Operations Manual.
- (8) Notwithstanding sub-regulation (6), the Authority may approve a different retention location where all documents can be available for subsequent review.
- (9) In this regulation “retention location” means the operator or an agent designated by him.

Requirements for
Aircraft Loading,
Mass and Balance

- 102.** (1) A person shall not operate an aircraft unless all loads carried are properly distributed and safely secured on the aircraft in accordance with the approved loading manual for such aircraft or the procedures of the manufacturer in the case of small aeroplanes.
- (2) A person shall not operate an aircraft unless the calculations for the mass and center of gravity location of the aircraft indicate that the flight can be conducted safely, considering the flight conditions expected.
- (3) A pilot-in-command of an aircraft may delegate to a suitably qualified person the function to supervise and ensure the proper loading of an aircraft.
- (4) Notwithstanding sub-regulation (3), a pilot-in-command shall retain ultimate responsibility and shall ascertain that the proper loading procedures are followed.
- (5) For commercial air transport operations, a pilot-in-command shall not commence a flight unless he is satisfied that the loading and mass and balance calculations contained in the load manifest are accurate and comply with the aircraft limitations.
- (6) An air operator shall establish mass and balance documentation in the manner set out in Schedule 3, prior to the departure of each flight specifying the load and its distribution which shall enable the pilot-in-command to determine that the load and its distribution is such that the mass and balance limits of the aircraft are not exceeded.
- (7) The person preparing the mass and balance documentation under sub-regulation (6), shall be named in such documentation.
- (8) The person supervising the loading of the aircraft shall confirm by signature that the load and its distribution are in accordance with the mass and balance documentation.

- (9) The document shall be acceptable to the pilot-in-command and his acceptance shall be indicated by counter signature or equivalent.
- (10) An operator shall have documented procedures to ensure that last minute changes to the load are included in the final calculation of the load, its distribution, and the mass and balance documentation.
- (11) Subject to the approval of the Authority, an air operator may use documentation procedures other than those required by this regulation.

Allowable Weights
on All Load
Manifest

- 103.** A pilot-in-command shall ensure that the maximum allowable weight for a flight does not exceed the maximum allowable take-off weight of the aircraft—

- (a) for the specified runway and conditions existing at the take-off time; and
- (b) considering anticipated fuel and oil consumption that allows compliance with applicable enroute performance, landing weight and landing distance limitations for destination and alternate aerodromes.

Requirement for
Flight Release for
Commercial Air
Transport
Operations

- 104.** (1) A person shall not commence a flight under a flight following system without specific authority from the person authorised by the air operator to exercise operational control over the flight.
- (2) A person shall not commence a passenger carrying flight in commercial air transport operations for which there is a published schedule, unless a qualified person authorised by the air operator to perform operational control functions has issued a flight release for that specific operation or series of operations.
- (3) The pilot-in-command and Flight Operations Officer shall sign the flight release document.

Requirements for
Operational Flight
Plan for Commercial
Air Transport
Operations

- 105.** (1) An air operator shall not permit a person to commence a flight unless his operational flight plan meets the requirements set out in Schedule 4 and has been prepared in accordance with the procedures specified in the Operations Manual of the air operator and signed by the pilot-in-command and the Flight Operations Officer.
- (2) A pilot-in-command shall sign the operational flight plan only when he and the Flight Operations Officer exercising operational supervision have determined that the flight can be safely completed.
- (3) The operational flight plan under this regulation shall include the routing and fuel calculations with respect to the meteorological and

other factors expected to complete the flight to the destination and all required alternates.

- (4) A pilot-in-command signing an operational flight plan shall have access to the applicable flight planning information for fuel supply, alternate aerodromes, weather reports, forecasts and notices to Airmen for the routing and aerodromes of operation.
- (5) A person shall not continue a flight from an intermediate aerodrome without a new operational flight plan where the aircraft has been on the ground more than six (6) hours.
- (6) A pilot-in-command of an aircraft shall ensure that one copy of the operational flight plan is left at a point of departure, in accordance with the procedures specified in the company Operations Manual and that another copy is carried on board the aircraft until the aircraft reaches the final destination of the flight.
- (7) An air operator shall specify in its company Operations Manual –
 - (a) the period for which the operational flight plan shall be kept;
 - (b) the method of recording the formal approval of the plan by the flight operations officer; and
 - (c) the method of recording the formal approval of the plan by the pilot-in-command
- (8) An air operator shall keep a copy of the operational flight plan, including any amendments to the plan, for not less than ninety (90) days

Requirement to
Keep Records of
Emergency and
Survival Equipment
for Commercial Air
Transport
Operations

- 106.** (1) An air operator shall have available for immediate communication to centres, lists containing information on the emergency and survival equipment carried on board each aircraft approved on his Operations Specifications and engaged in international air transportation.
- (2) The information required under sub-regulation (1), shall include as applicable the number, colour, and type of life rafts and pyrotechnics, details of emergency medical supplies, and type and frequencies of the emergency portable radio equipment.

PART VII

AIRCRAFT OPERATING AND PERFORMANCE LIMITATIONS

Applicability

- 107.** This Part prescribes the operating and performance limitations for all civil aircraft.

- 108.** (1) An operator shall operate an aircraft in accordance with a comprehensive and detailed code of aircraft performance prescribed by the Authority in compliance with the applicable Regulations of this Part.
- (2) An operator shall not operate an aircraft that –
- (a) exceeds its designed performance limitations for any operation, as established by the Authority; or
 - (b) exceeds operating limitations contained in the Aircraft Flight Manual, or its equivalent.
- (3) An aircraft shall be operated in compliance with the terms of its Certificate of Airworthiness and within the approved operating limitations contained in its flight manual.
- (4) An operator shall not operate a helicopter to or from heliports in a congested hostile environment, unless he satisfied the requirements specified by the competent authority in which the heliport is situated, to enable the operation to be conducted in manner that gives appropriate consideration for the risk associated with a power-unit failure.
- (5) In conditions where the safe continuation of flight is not ensured in the event of a critical power-unit failure, helicopter operations shall be conducted in a manner that gives appropriate consideration for achieving a safe forced landing.
- (6) An unmanned free balloon shall be operated in such a manner as to minimise hazards to person, property or other aircraft in accordance with conditions in Schedule 5 or specified by the Authority.

- 109.** (1) An operator shall ensure that the aircraft performance data contained in the Aircraft Flight Manual, or other authorised source is used to determine compliance with the appropriate requirements of this Part.
- (2) When applying performance data, a person performing calculations shall account for the aircraft configuration, environmental conditions and the operation of any system or systems which may have an adverse effect on aircraft performance.
- 110.** (1) An operator shall not cause an aircraft to commence a flight without ensuring that the maximum allowable weight for flight does not exceed the maximum allowable take-off or landing weight or any applicable enroute aircraft performance or landing distance limitations considering the –
- (a) condition of the take-off and landing areas to be used;

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- (b) gradient of runway to be used in respect of landplanes;
 - (c) pressure altitude;
 - (d) ambient temperature;
 - (e) current and forecast winds; and
 - (f) any known conditions such as atmospheric and aircraft configuration, which may adversely affect aircraft performance.
- (2) An operator shall not cause an aircraft to commence a flight, assuming normal engine operations, where that aircraft due to its weight, is unable to safely clear all obstacles during all phases of flight, including all points along the intended enroute path and any planned diversions.
- (3) An operator shall ensure that an aircraft is operated in compliance with its mass limitations and noise certificate limitations where applicable.

111. Regulations 112 to 120 prescribe aircraft performance and operating limitations for aircraft used in commercial air transport operations.

Applicability of
Regulations 112 to
120

General
Requirements for
Aircraft Performance
in Commercial Air
Transport

Prohibitions on the
Use of Single-Engine
Aircraft

Required Mass
Limitations for
Aeroplanes

112. Where full compliance with the requirements of regulations 113 and 120 cannot be shown due to specific design characteristics such as seaplanes, airships, or supersonic aircraft, the operator shall apply approved performance standards that ensure a level of safety not less restrictive than those of relevant requirements of these Regulations.

113. (1) An operator shall not operate a single-engine aircraft used for revenue passenger carrying operations unless such aircraft is continually operated in daylight, under Visual Flight Rules.

(2) An operator shall not operate a multi-engine aircraft used for revenue passengers carrying operations that is unable to comply with any of the performance limitations of regulations 116 through 120 unless that aircraft is continually operated –

- (a) in daylight;
- (b) under Visual Flight Rules; and
- (c) at a weight that will allow it to climb, with the critical engine inoperative, at least fifty feet (50 ft) a minute when operating at the minimum en-route altitude of the intended route or any planned diversion, or at five thousand feet (5,000 ft) above mean sea level, whichever is higher.

(3) A multi-engine aircraft that is unable to comply with sub-regulation (2)(c), is for the purpose of these regulations, considered to be a single engine aircraft and shall comply with the requirements of sub-regulation (4).

(4) Except as provided in regulation 121 a single engine aircraft shall only be operated in conditions of weather and light and over such routes and diversions therefrom, that permit a safe forced landing to be executed in the event of engine failure.

114. (1) The mass of an aircraft at the start of take-off shall not exceed the mass at which take-off limitations are complied with, nor the mass at which enroute engine inoperative and landing limitations are complied with, allowing for expected reductions in mass as the flight proceeds and for any applicable jettisoning of fuel.

(2) The mass of an aircraft at the start of take-off shall not exceed the maximum take-off mass specified in the flight manual considering the factors specified in regulation 108(1).

(3) The estimated mass of an aircraft for the expected time of landing at the aerodrome of intended landing and at any alternate aerodrome shall not exceed the maximum landing mass specified in the flight manual considering the factors specified in regulation 110 (1).

(4) The mass of an aircraft at the start of take-off and the estimated mass for the expected time of landing at the aerodrome of intended landing and at any alternate aerodrome shall not exceed the relevant maximum mass at which compliance was demonstrated with the applicable noise certification standards, unless otherwise authorised by the Authority in respect of that aerodrome.

- 115.** (1) An air operator shall not release an aircraft used in commercial air transport for flight without ensuring that the applicable operating and performance limitations required for this regulation can be accurately computed based on the Aircraft Flight Manual, or other data source approved by the Authority.
- (2) An air operator calculating performance and operating limitations for an aircraft used in commercial air transport shall ensure that performance data used to determine compliance with these regulations can, during any phase of flight, accurately account for –
- (a) any reasonably expected adverse operating conditions that may affect aircraft performance;
 - (b) one (1) engine failure for aircraft having two (2) engines, where applicable; and
 - (c) two (2) engine failure for aircraft having three (3) or more engines, where applicable
- (3) When calculating the performance and limitations requirements of regulations 116 to 120, a person performing the calculation shall, for all engines operating and for inoperative engines, accurately account –
- (a) in all phases of flight for –
 - (i) the effect of fuel and oil consumption on aircraft weight;
 - (ii) the effect of fuel consumption on fuel reserves resulting from changes in flight paths, winds, and aircraft configuration;
 - (iii) the effect of fuel jettisoning on aircraft weight and fuel reserves, where applicable and approved;
 - (iv) the effect of any ice protection system, where weather conditions require its use;
 - (v) ambient temperatures and winds along intended route and any planned diversion; and
 - (vi) flight paths and minimum altitudes required to remain clear of obstacles; and
 - (b) during take-off and landing for –

- (i) the condition of the take-off runway or area to be used, including any contamination such as water, slush, snow and ice;
 - (ii) the gradient of runway to be used;
 - (iii) the runway length including clearways and stop ways, where applicable;
 - (iv) pressure altitude at take-off and landing sites;
 - (v) current ambient temperature and wind at take-off;
 - (vi) forecast ambient temperatures and winds at each destination and planned alternate landing site;
 - (vii) the ground handling characteristics, such as braking action, of the type of aircraft; and
 - (viii) landing aid and terrain that may affect the take-off path, landing path, and landing roll.
- (4) Obstacle data shall be provided by the air operator, for the development of procedures and calculations to ensure compliance with take-off and obstacle clearance limitations.
- (5) An air operator shall take account of charting accuracy when complying with these Regulations.
- (6) Where conditions are different from those on which the performance is based, compliance may be determined by interpolation or by computing the effects of changes in the specific variables, where the results of the interpolation or computations are substantially as accurate as the results of direct tests.
- (7) In performing aircraft performance calculation under this regulation an air operator may correct take-off data based on still air by taking into account not more than fifty percent (50%) of any reported headwind component and not less than one hundred and fifty percent (150%) of any reported tailwind component.

Commercial Air
Transport
Operations Take-
Off Limitations

- 116.** (1) An air operator shall take account of charting accuracy when assessing compliance with this regulation.
- (2) An air operator shall ensure that an aeroplane shall be able, in the event of a critical power-unit failing at any point in the take-off, either to discontinue the take-off and stop within the accelerate-stop distance available or to continue the take-off and clear all obstacles along the flight path by an adequate margin until the aircraft is in a position to comply with the enroute one engine inoperative limitations.

- (3) An air operator shall ensure that an aeroplane is not allowed to take-off unless the following requirements are met when determining the maximum permitted take-off mass:
- (a) the take-off run shall not be greater than the length of the runway;
 - (b) where the critical engine fails at any time after the aeroplane reaches V₁, to continue the take-off flight path and clear all obstacles either –
 - (i) by a height of at least thirty-five feet (35 ft) vertically for turbine engine powered aeroplanes or fifty feet (50 ft) for reciprocating engine powered aeroplane; and
 - (ii) by at least sixty meters (60 m) horizontally within the aerodrome boundaries and by at least ninety meters (90 m) horizontally after passing the boundaries, without banking more than fifteen (15) degrees at any point on the take-off flight path;
 - (c) for a turbine engine powered aeroplane –
 - (i) the take-off distance shall not exceed the length of the runway plus the length of any clearway, except that the length of any clearway included in the calculation shall not be greater than half the length of the runway; and
 - (ii) the accelerate-stop distance shall not exceed the length of the runway, plus the length of any stop-way at any time during take-off until reaching V₁;
 - (d) the accelerate-stop distance shall not exceed the length of the runway at any time during take-off until reaching V₁ for reciprocating engine powered aeroplane.
- (4) In determining the length of the runway available for an aircraft, account shall be taken of the loss, where any, of runway length due to alignment of the aeroplane prior to take-off.
- (5) An air operator operating a helicopter in Performance Class 1 shall ensure that the helicopter is able, in the event of the critical power-unit failure being recognised –
- (a) at or before the take-off decision point, to discontinue the take-off and stop within the rejected take-off area available; or
 - (b) at or after the take-off decision point, to continue the take-off, clearing all obstacles along the flight path by an adequate margin until the helicopter is in a position to comply with the requirements of regulation 118 (5).
- (6) An air operator operating a helicopter in Performance Class 2 shall ensure that the helicopter is able, in the event of the failure of the critical power-unit –

- (a) at any time before reaching defined point after take-off, to achieve a safe forced landing; or
 - (b) at any time after reaching defined point after take-off, to continue the take-off clearing all obstacles along the flight path by an adequate margin until the helicopter is in a position to comply with the requirements of regulation 118 (5).
- (7) An air operator operating a helicopter in Performance Class 3 shall ensure that the helicopter is able, in the event of the failure of the critical power-unit at any point of the flight path, to achieve a safe forced landing.

**Enroute
Limitations with All
Engines Operating**

117. An air operator shall not cause a reciprocating engine powered aeroplane used in commercial air transport operations to take-off at a weight that does not allow a rate of climb of at least 6.9 V_{so}, with all engines operating, at an altitude of at least one thousand feet (1,000 ft) above all terrain and obstructions within ten miles of each side of the intended track.

**Enroute
Limitations Where
One Engine is
Inoperative**

118. (1) An air operator shall not cause an aeroplane, having two (2) engines and being used in commercial air transport operations, to take-off unless such aeroplane can, in the event of a power failure at the most critical point long the route or planned diversion there from, continue the flight to a suitable aerodrome where a landing can be made within the landing limitations and without flying below the minimum flight altitude at any point, while allowing –

- (a) for a reciprocating engine powered aeroplane –
 - (i) at least a rate of climb of 0.079 - (0.106/number of engines installed) V_{so2} (when V_{so} is expressed in knots) at an altitude of per one thousand feet (1,000 ft) above all terrain and obstructions within five (5) statute miles on each side of the intended track; and
 - (ii) a positive slope at an altitude of at least one thousand, five hundred feet (1,500 ft) above the aerodrome where the aircraft is assumed to land;
- (b) for a turbine engine powered transport category aeroplane –
 - (i) a positive slope at an altitude of at least one thousand feet (1,000 ft) above all terrain and obstructions within 9.3 kilometers, on each side of the intended track;
 - (ii) net flight path from cruising altitude to the intended landing aerodrome that allows at least two thousand feet (2,000 ft) clearance above all terrain and obstructions within five (5) statute miles, on each side of the intended track; and
 - (iii) a positive slope at an altitude of at least one thousand, five hundred feet (1,500 ft) above the aerodrome where the aircraft is assumed to land.

- (2) The climb rate specified in sub-regulation (1)(a)(i) may be amended to 0.026 Vs₀₂ for large transport category aircraft issued a type certificate prior to the years 1953.
- (3) The five (5) statute miles clearance margin stated in sub-regulation (1)(a), shall be increased to ten (10) statute miles where navigational accuracy does not meet the ninety-five percent (95%) containment level.
- (4) An air operator shall not cause a helicopter used in commercial air transport operations and having two (2) engines, to take-off, unless that helicopter can, in the event of the critical engine failing at any point in the enroute phase, continue the flight to the destination or alternate landing site without flying below the minimum flight altitude at any point and clearing all obstacles in the approach path by a safe margin.
- (5) An air operator operating a helicopter in Performance Class 1 shall ensure that the helicopter is able, in the event of the failure of the critical power-unit at any point in the enroute phase, to continue the flight to a site and meet the requirements of regulation 120 (7) or (8), without flying below the appropriate minimum flight altitude at any point.
- (6) An air operator operating a helicopter in Performance Class 3 shall ensure that the helicopter is able –
- (a) with all power-units operating, to continue along its intended route or planned diversions without flying at any point below the appropriate minimum flight altitude; or
 - (b) in the event of the failure of a power-unit at any point in the enroute phase, to achieve a safe forced landing.
- 119.** (1) An air operator shall not cause an aeroplane used in commercial air transport operations and having three (3) or more engines, to take-off at such a weight where there is no suitable landing aerodrome within ninety (90) minutes at any point along the intended route with all engines operating at cruising power, unless that aircraft can, in the event of simultaneous power failure of two (2) critical engines at the most critical point along that route, continue to a suitable landing aerodrome while allowing –
- (a) for a turbine engine powered aeroplane –
 - (i) a net flight path considering the ambient temperatures anticipated along the track clearing vertically, by at least two thousand feet (2,000 ft), all terrain and obstructions within five (5) statute miles on each side of the intended track;
 - (ii) a positive slope at one thousand, five hundred feet (1,500 ft) above the aerodrome of intended landing; and

- (iii) enough fuel to continue to the aerodrome of intended landing, to arrive at an altitude of at least one thousand, five hundred feet (1,500 ft) directly over the aerodrome and thereafter to fly for fifteen (15) minutes at cruise power;
 - (b) for a reciprocating engine powered aeroplane –
 - (i) a rate a climb at 0.013 Vs₀₂ feet per minute, at an altitude of one thousand feet (1,000 ft) above the highest ground or obstruction within ten (10) miles on each side of the intended track, or at an altitude of five thousand feet (5,000 ft), whichever is higher; and
 - (ii) enough fuel continues to the aerodrome of intended landing and to arrive at an altitude of at least three hundred meters (300 m) directly over that aerodrome.
 - (2) An air operator shall ensure that in computing the fuel required to continue to the aerodrome of intended landing under sub-regulation (1)(a) the consumption of fuel and oil after engine failure is the same as the consumption that is allowed for in the net flight path data in the Aircraft Flight Manual.
 - (3) Where the two (2) engines of the reciprocating-engine aeroplane are predicted to fail at an altitude above the prescribed minimum altitude, compliance with the prescribed rate of climb need not be shown during the descent from the cruising altitude to the prescribed minimum altitude, where those requirements can be met once the prescribed minimum altitude is reached, and assuming descent to be along a net flight path and the rate of descent to be 0.013 Vs₀₂ greater than the rate in the approved performance data.
 - (4) Where the jettisoning of fuel is authorised or planned, the weight of the aeroplane at the point where the two engines fail is considered to be not less than that which would include enough fuel to proceed to an aerodrome and to arrive at an altitude of at least one thousand feet (1,000 ft) directly over that aerodrome.
 - (5) An air operator shall not cause a Performance Class 1 helicopter, or Performance Class 2 helicopter used in commercial air transport operations and having three (3) or more engines, to take-off, unless that helicopter can, in the event of two (2) critical engines failing simultaneously at any point In the enroute phase of light, continue the flight to a suitable landing site.
- 120.** (1) Before commencing an approach to land, a pilot-in-command shall satisfy himself that, according to the information available to him, the weather at the aerodrome and the condition of the runway intended to be used, do not prevent a safe approach, landing or

missed approach, having regard to the aircraft performance information contained in the Operations Manual.

- (2) An air operator shall not cause an aeroplane used in commercial air transport operations to take-off unless its weight on arrival at either the intended destination aerodrome or any planned alternate aerodrome would allow a full stop landing from a point fifty feet (50 ft) above the intersection of the obstruction clearance plane and the runway, and within –
 - (a) for a turbine engine powered aeroplane, sixty percent (60%) of the effective length of each runway.
 - (b) for reciprocating engine powered aeroplane, seventy percent (70%) of the effective length of each runway.
- (3) For the purpose of determining the allowable landing weight at the destination aerodrome, an operator determining the landing limit shall ensure that –
 - (a) the aeroplane is landed on the most favorable runway and in the most favorable direction, in still air; or
 - (b) the aeroplane is landed on the most suitable runway considering the probable wind speed and direction, runway conditions, the ground handling characteristics of the aircraft, and considering other conditions such as landing aids, terrain and expected variations in the approach and landing techniques, where such allowance has not been made in the scheduling of performance data.
- (4) Where the runway at the landing destination is reported or forecast to be wet or slippery, the landing distance available shall be at least one hundred and fifteen percent (115%) of the required landing distance unless, based on showing of actual operating landing techniques on wet or slippery runways, a shorter landing distance, but not less than that required by sub-regulation (2), has been approved for a specific type and model aeroplane and this information is included in the Aeroplane Flight Manual.
- (5) A turbine powered transport category aeroplane that would be prohibited from taking off for its destination aerodrome because it could not meet the requirements of sub-regulation (2)(a) for mass landing for such destination aerodrome, may take-off from the departure aerodrome where an alternate aerodrome is specified that meets all the requirements of sub-regulation (2).
- (6) An air operator shall not cause a helicopter used in commercial air transport to take-off unless, with all engines operating on arrival at the intended destination landing site or any planned alternate

landing, it can clear all obstacles on the approach path and can land and stop within the landing distance available.

- (7) An air operator operating a helicopter in Performance Class 1 shall ensure that the helicopter is able to, in the event of the failure of the critical power-unit being recognised –
- (a) at any point during the approach and landing phase, before the landing decision point, after clearing all obstacles in the approach path –
- (i) land and stop within the landing distance available; or
- (ii) perform a balked landing and clear all obstacles in the flight path by an adequate margin equivalent to that specified in regulation 116 (5); or
- (b) after the landing decision point, to stop and land within the landing distance available
- (8) An air operator operating a helicopter in Performance Class 2 shall ensure that the helicopter is able to, in the event of the failure of the critical power-unit being recognised –
- (a) at any point during the approach and landing phase, before the landing decision point, after clearing all obstacles in the approach path –
- (i) land and stop within the landing distance available;
- (ii) perform a balked landing and clear all obstacles in the flight path by an adequate margin equivalent to that specified in regulation 116 (5); or
- (b) after the landing decision point, to achieve a safe forced landing.
- (9) An air operator operating a helicopter in Performance Class 3 shall ensure that the helicopter is able, in the event of the failure of the critical power-unit at any point in the approach and landing phase of flight, to achieve a safe forced landing.
- (10) In this regulation the term “obstruction clearance plane” means a plane sloping upward from the runway at a slope of 1:20 to the horizontal, and tangent to or clearing all obstructions within a specified area surrounding the runway as shown in a profile view of that area. In the plan view, the centerline of the specified area coincides with the centerline of the runway, beginning at the point where the obstruction clearance plane intersects the centerline of the runway and proceeding to a point at least one thousand, five hundred feet (1,500 ft) from the beginning point. Thereafter, the centerline coincides with the take-off path over the ground for the runway, in the case of take-offs, or with the instrument approach counterpart, for landings, or where the applicable one of these paths has not been established, it proceeds consistent with turns of at least a four

thousand (4,000) foot radius until a point is reached beyond which the obstruction clearance plane clears all obstructions. This area extends laterally two hundred feet (200 ft) on each side of the centerline at the point where the obstruction clearance plane intersects the runway and continues at this width to the end of the runway; then it increases uniformly to five hundred feet (500 ft) on each side of the centerline at a point one thousand, five hundred feet (1,500 ft) from the intersection of the obstruction clearance plane with the runway; thereafter, it extends laterally five hundred feet (500 ft) on each side of the centerline.

Director General to
Approve Single-Engine
Turbine-Powered
Aeroplane Operations

- 121.** The Director General may approve operations by a single engine turbine-powered aeroplane at night or in Instrument Meteorological Conditions in commercial air transport operations, where the Director General is satisfied that the airworthiness certification of the aeroplane is appropriate and that the overall level of safety required under the Act and Regulations made thereunder is satisfied by –
- (a) the reliability of the turbine engine;
 - (b) the air operator's maintenance procedures, operating practices, flight dispatch procedures and crew training programmes; and
 - (c) the equipment and other requirements as provided in Schedule 7.

- (2) An air operator shall not operate a single engine turbine powered aeroplane –
- (a) at night or in Instrument Meteorological Conditions unless the aeroplane has an engine trend monitoring system;
 - (b) for which the individual Certificate of Airworthiness is first issued on or after 1st January, 2005, at night or in Instrument Meteorological Conditions unless such aeroplane has an automatic engine trend monitoring system.

Additional
Requirements for
Operations of
Helicopter in
Performance
Class 3 in
Instrument
Meteorological
Conditions
except Special
Visual Flight
Rules Flight

- 122.** (1) An air operator shall ensure that a helicopter operation in Performance Class 3, in Instrument Meteorological Conditions, is only conducted over a surface environment acceptable to the competent authority of the State over which the operations are performed.
- (2) The Director General may approve operations by a helicopter in Performance Class 3, in Instrument Meteorological Conditions in commercial air transport operations, where the Director General is satisfied that the airworthiness requirements for the helicopter is appropriate for flight under Instrument Flight Rules and that the overall level of safety required under the Act and Regulations made thereunder is satisfied by –
- (a) the reliability of the engines;

- (b) the operator's maintenance procedures, operating practices and crew training programme; and
 - (c) equipment and other requirements provided in accordance with Schedule 8.
- (3) An air operator shall not operate a helicopter in Performance Class 3, in Instrument Meteorological Conditions unless the helicopter has a programme for engine trend monitoring.
- (4) The programme for engine trend monitoring referred to in sub-regulation (3) shall utilize the recommended instruments, system and operational and maintenance procedures of the manufacturer of the engine and helicopter, to monitor the engine.

PART VIII **FLIGHT RULES**

Applicability

123. This Part prescribes the rules of the air applicable to all flight operations.

General Flight
Rule
Requirements

- 124.**
- (1) The regulation set out in this Part (hereinafter referred to as the "rules of the air") shall apply to aircraft bearing the nationality and registration marks of Guyana, wherever they may be, to the extent that they do not conflict with the rules published by the State overflown.
 - (2) For the purposes of flight over those parts of the high seas where a Contracting State has accepted the responsibility of providing air traffic services, the appropriate Air Traffic Control Authority is the relevant authority designated by the State responsible for providing those services.
 - (3) The operation of an aircraft either in flight or on the movement area of an aerodrome shall comply with the general rules and, in addition, when in flight, either with the Visual Flight Rules or Instrument Flight Rules.

Restrictions on the
Operation of
Aircraft on the
Ground

- 125.** (1) A person shall not taxi an aircraft on the movement area of an aerodrome unless the person at the controls –
- (a) has been authorised by the operator, the lessee, or a designated agent;
 - (b) is fully qualified and competent to taxi the aircraft;
 - (c) is qualified to use the radio where radio communications are required; and
 - (d) has received instruction from a competent person in respect of aerodrome layout, and where appropriate, information on–
 - (i) routes;
 - (ii) signs;
 - (iii) marking;
 - (iv) lights;
 - (v) Air Traffic Control signals and instructions, phraseology and procedures; and
 - (e) conform to the operational standards required for safe aircraft movement at the aerodrome.
- (2) An operator shall ensure that a helicopter rotor is not turned under power for the purpose of flight unless there is a pilot qualified to operate a helicopter, at the controls.
- (3) Notwithstanding sub-regulations (2), an operator may authorise a person other than a qualified pilot to turn a rotor of a helicopter for purpose other than flight, where the operator –
- (a) has provided the person with appropriately specific training and procedures to be followed;
 - (b) is satisfied that the person is competent to conduct such operations
- (4) A person authorised by an operator under sub-regulations (3), may turn a rotor of a helicopter under power, for purposes other than flight.

Required Take-Off
Conditions

- 126.** Before commencing take-off, a pilot-in-command shall ensure that –
- (a) according to the available information the weather at the aerodrome and the condition of the runway intended to be used will allow for a safe take-off and departure; and
 - (b) the Runway Visual Range or visibility in the take-off direction of the aircraft is equal to or better than the applicable minimum.

Requirements and
Restrictions where
flight into Known or
Expected Icing

- 127.** (1) An operator shall ensure that a flight is not commenced or intentionally flown into expected or actual icing conditions unless the aircraft is certified and equipped to cope with such conditions.
- (2) An operator shall ensure that an aircraft is not allowed to take-off or continue to operate along a route when icing conditions are expected or encountered, without ensuring that the aircraft is certified for icing operations and has sufficient operational de-icing or anti-icing equipment.
- (3) An operator shall ensure that an aircraft is not allowed to take-off when frost, ice or snow is adhering to the wings, control surfaces, propellers, engine inlets or other critical surfaces of the aircraft which might adversely affect the performance or controllability of the aircraft.
- (4) A pilot-in-command shall not take-off, and an air operator shall not allow an aircraft to take-off, when conditions are such that frost, ice or snow may reasonably be expected to adhere to the aircraft, unless the procedures approved by the Authority to ensure that ground de-icing and anti-icing is accomplished, are followed.
- (5) An operator shall establish procedures to be followed when ground de-icing and anti-icing and related inspections of the aircraft are necessary.
- (6) A pilot-in-command shall not commence a take-off unless the external surfaces are clear of any deposit which might adversely affect the performance and controllability of the aircraft except as permitted in the Aircraft Flight Manual.
- (7) Where illumination is used to detect the formation of ice, it shall be of a type that will not cause glare or reflection such that would handicap crew members in the performance of their duties.

Cruising Levels
with Altimeter
Settings

- 128.** 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;
 - (b) altitudes, for flight below the lowest usable flight level or, where applicable, at or below the transition altitude.

- 129.** (1) An operator shall ensure that when necessary for take-off or landing, an aircraft is not operated below the following altitudes:
- (a) An altitude allowing for continuation of flight or emergency landing without undue hazard to persons or property on the surface where a power unit fails;
 - (b) an altitude of one thousand feet (1,000 ft) above the highest obstacle within a horizontal radius of six hundred meters (600 m) of the aircraft where the aircraft is operated over any congested area of a city, town, or settlement, or over any open-air assembly of persons; and
 - (c) an altitude of five hundred feet (500 ft) above the surface where an aircraft is operated over uncongested areas, except over open water or sparsely populated areas where the aircraft shall not be operated closer than one hundred and fifty meters (150 m) to any person, vessel, vehicle, or structure.
- (2) The pilot of a helicopter is not subject to the proximity restrictions of these Regulations, provided the helicopter is operated in a manner that is not hazardous to persons and property on the surface.
- (3) The pilot of a helicopter shall comply with any routes or altitudes for the area that are prescribed for helicopters by the Authority.
- (4) An operator shall be permitted to establish minimum flight altitudes for those routes flown for which minimum flight altitudes have been established by the State flown over or the responsible State, provided that such altitudes shall not be less than those established by that State.
- (5) An operator shall specify the procedures by which it is intended to determine minimum flight altitudes for operations conducted over routes for which minimum flight altitudes have not been established by the State flown over or the responsible State and shall include this procedure in his Operations Manual.
- (6) The procedure for establishing the minimum flight altitudes under sub-regulations (4) and (5) shall be approved by the Authority, provided that the minima established by any procedure shall not be lower than that specified in Annex 2 of the Chicago Convention.
- (7) The Director General may approve the procedures under sub-regulation (6), after careful consideration of the probable effects of the following factors on the safety of the operations in question:
- (a) The accuracy and reliability with which the position of the aircraft can be determined;
 - (b) the inaccuracies in the indications of the altimeters used;

- (c) the characteristics of the terrain such as sudden changes in the elevation;
- (d) the probability of encountering unfavorable meteorological conditions, such as severe turbulence and descending air current;
- (e) possible inaccuracies in aeronautical charts; and
- (f) airspace restrictions

130. (1) An air operator shall ensure that an aircraft is not operated in commercial air transport operation during the day under Visual Flight Rules at an altitude less than one thousand feet (1,000 ft) above the surface or within one thousand feet (1,000 ft) of any mountain, hill, or other obstruction to flight.

(2) An air operator shall ensure that an aircraft is not operated in commercial air transport operation at night, under Visual Flight Rules, at an altitude less than one thousand feet (1,000 ft) above the highest obstacle within a horizontal distance of five miles from the centre of the intended course, or in designated mountainous areas, less than two thousand feet (2,000 ft) above the highest obstacle within a horizontal distance of five (5) statute miles from the center of the intended course.

131. (1) An operator shall establish operating minima for each aerodrome or heliport planned to be used in operations, by a method acceptable to the Authority.

(2) Operating minima established under sub-regulation (1), shall not be lower than any that may be established for such aerodromes or heliports by the State in which the aerodrome is located, except when specifically approved by the State.

(3) In establishing the operating minima which will apply to any particular operation, an operator shall take full account of –

- (a) the type, performance and handling characteristics of the aircraft;
- (b) the composition of the flight crew, their competence and experience;
- (c) the dimensions and characteristics of the final approach and take-off site or runways which may be selected for use and for heliports, the physical characteristics and direction of approach;
- (d) the adequacy and performance of the available visual and non-visual ground aids;
- (e) the equipment available on the aircraft for the purpose of navigation and control of the flight path during the approach and the missed approach;
- (f) the obstacles in the approach and missed approach areas and the obstacle clearance altitude or height for the instrument approach procedures;

- (g) the means used to determine and report meteorological conditions; and
 - (h) the obstacles in the climb-out areas and necessary clearance margins from the obstacles.
- (4) The pilot-in-command of an aircraft shall not commence take-off unless the weather conditions at the aerodrome of departure are equal to or better than applicable minima for landing at that aerodrome unless a suitable take-off alternate aerodrome is available.
- (5) When the reported meteorological visibility is below that required for take-off a pilot shall not take-off.
- (6) Where no reported meteorological visibility or runway visual range is available, take-off may only be commenced where the pilot-in-command can determine that the runway visual range or visibility along the take-off runway is equal to or better than the required minimum.

Required Threshold
Crossing Height for
Precision Approaches

Instrument approach
Operating Minima
Requirements

General Operating
Rules for
Categories II and III
Operations

- 132.** An operator shall establish operational procedures designed to ensure that an aircraft being used to conduct precision approaches crosses the threshold by a safe margin, with the aircraft in the landing configuration and attitude.
- 133.** (1) An operator shall ensure that an aircraft is not operated to or from an aerodrome using operating minima lower than those which may be established for that aerodrome by the State in which it is located, unless that State specifically approves such operation.
- (2) For instrument approach and landing operations, aerodrome operating minima below eight hundred meters (800 m) visibility should not be authorised unless Runway Visual Range information is provided.
- (3) The Director General may approve one or more instrument approach procedures designed in accordance with the classification of instrument approach and landing operations procedures to serve each instrument runway or aerodrome utilized for instrument flight operation.
- (4) The Director General shall cause the instrument approach procedures and landing operations procedures to be promulgated.
- 134.** (1) An operator shall not conduct Category II or Category III operations unless –
- (a) each aerodrome concerned is certified for operations with a decision height below two hundred feet (200 ft), or no decision

- height, and equipped in accordance with the standards prescribed by the Director General;
- (b) the operations are approved by the Authority;
 - (c) the flight crew consists of either two (2) pilots; and
 - (d) the decision height is determined by a radio altimeter
- (2) A Category II or Category III instrument approach and landing operation shall not be authorised unless Runway Visual Range information is provided.
- (3) When the approach procedure being used provides for and requires the use of a decision height, the authorised decision height is the highest of the following:
- (a) the decision height or alert height prescribed by the approach procedure;
 - (b) the decision height or alert height prescribed for the pilot-in-command;
 - (c) the decision height or alert height for which the aircraft is equipped
- (4) Unless otherwise authorised by the Authority, a pilot operating an aircraft in a Category II or Category III approach that provides and requires use of a decision height or alert height shall not continue the approach below the authorised decision height or alert height unless the following conditions are met:
- (a) the aircraft is in a position from which a descent to a landing on the intended runway can be made at a normal rate of descent using normal manoeuvres and where that descent rate will allow touchdown to occur within the touchdown zone of the runway of intended landing;
 - (b) at least one (1) of the following visual references for the intended runway is distinctly visible and identifiable to the pilot:
 - (i) visual reference containing a segment of at least three (3) consecutive light being the centre line of the approach lights or runway light or a combination of these;
 - (ii) the threshold;
 - (iii) the threshold markings;
 - (iv) the threshold lights;
 - (v) the touchdown zone or touchdown zone markings; and
 - (vi) the touchdown zone lights.
- (5) Unless otherwise authorised by the Authority, a pilot operating an aircraft shall immediately execute an appropriate missed approach whenever, prior to touchdown, the requirements of sub-regulation (3), are not met.

- (6) An operator shall ensure that an aircraft using a Category III approach without decision height shall not be landed except in accordance with the provisions of the letter of authorisation issued by the Authority.
- (7) Sub-regulations (1) through (6) shall not apply to operations conducted by an air operator issued a certificate under the Civil Aviation Air Operator Certification and Administration Regulations.
- (8) An air operator shall ensure that an aircraft in a Category II or Category III operations is conducted in accordance with his operations specifications.
- (9) An operator before commencing a Category II or Category III programme shall ensure that –
 - (a) the pilot-in-command and co-pilot of the aircraft hold the appropriate authorisations and ratings prescribed under the Civil Aviation General Application and Personnel Licensing Regulations;
 - (b) each flight crew member has adequate knowledge of, and familiarity with, the aircraft and the procedures to be used; and
 - (c) the instrument panel in front of the pilot who is controlling the aircraft has appropriate instrumentation for the type of flight control guidance system that is being used.
- (10) Unless otherwise authorised by the Authority, an operator shall ensure that an aircraft is not operated in a Category II or Category III programme unless each ground component required for that operation and the related airborne equipment is installed and operating.
- (11) An operator shall submit a low visibility operations programme to the Authority for approval prior to conducting Category II and Category III operations.

Requirements for
Category II and III
Manual

- 135.** (1) Except as provided in sub-regulation (6) an operator shall ensure that an aircraft is not operated in a Category II or Category III operations unless –
 - (a) there is available on such aircraft a current and approved Category II or Category III manual, as appropriate, for that aircraft;
 - (b) the operation is conducted in accordance with the procedures, instructions and limitations in the appropriate manual; and
 - (c) the instruments and equipment listed in the manual that are required for a particular Category II or Category III operation have been inspected and maintained in accordance with the maintenance programme contained in the manual.

- (2) Where an operator wishes to amend his Category II or Category III Manual, he shall submit such amendment to the Authority for approval.
- (3) Where a submission under sub-regulation (2) is accompanied by a request to initiate operations in accordance with an amendment, such operations shall not commence unless the Authority so approves.
- (4) An operator shall ensure that his Category II or Category III Manual meets the requirements of Schedule 5.
- (5) An operator shall keep a current copy of each approved manual at his principal base of operations and shall make each manual available for inspection upon request by the Authority.
- (6) Sub-regulations (1) and (4) shall not apply to operations conducted by an air operator issued a certificate under the Civil Aviation Air Operator Certificate and Administration Regulations.

Procedures to be
Followed where
a Diversion
Decision is to be
made

- 136.** (1) Except as provided in sub-regulation (2), a pilot-in-command shall land an aircraft at the nearest suitable aerodrome at which a safe landing can be made whenever an engine of an aircraft fails or is shut down to prevent possible damage.
- (2) Where only one engine in an aircraft having three or more engines fails, or its rotation is stopped, a pilot-in-command may proceed to an aerodrome where, in his opinion proceeding to that aerodrome is as safe as landing at the nearest suitable aerodrome after considering the -
- (a) nature of the malfunction and the possible mechanical difficulties that may occur should be continue;
 - (b) altitude, weight, and usable fuel at the time of engine stoppage;
 - (c) weather conditions enroute and at possible landing points;
 - (d) air traffic congestion;
 - (e) terrain characteristics; and
 - (f) familiarity with the aerodrome to be used.

- 137.** (1) A person shall not operate an aircraft so closed to another aircraft as to create a collision hazard.
- (2) A person shall not operate an aircraft, carrying passengers for hire, in formation flight.
- (3) An operator shall ensure that an aircraft is not flown in formation except by pre-arrangement among the pilot-in-command of the aircraft taking part in the flight and, for formation flight in controlled airspace, in accordance with the conditions prescribed by the appropriate Air Traffic Control Authority.
- (4) Conditions under sub-regulation (3), shall include the requirement that –
- (a) the formation operates as a single aircraft for navigation and position reporting purposes;
 - (b) separation between aircraft in the formation 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 maneuvering to attain their own separation within the formation and during join-up and breakaway; and
 - (c) a distance not exceeding one kilometer (1 km) laterally and longitudinally and one hundred feet (100 ft) vertically from the flight leader shall be maintained by each aircraft.

- 138.** (1) A pilot of an aircraft in flight or while maneuvering in the movement area of an aerodrome shall maintain vigilance so as to see and avoid other aircraft.
- (2) A pilot of an aircraft in flight that has the right-of-way, has the right to proceed on the same heading and at the same speed before any other aircraft.
- (3) Notwithstanding the right-of-way under sub-regulation (2), a pilot shall be responsible to take such action, including collision avoidance manoeuvres based on resolution advisories provided by Airborne Collision Avoidance System equipment, so as to best avoid collision.
- (4) A pilot of an aircraft which does not have right of way in flight shall give way to an aircraft which has the right of way and shall not pass over or under the other aircraft or cross ahead of it unless passing well clear of it taking into account the effect of aircraft wake turbulence.
- (5) An aircraft in distress or an aircraft that is compelled to land has the right-of-way over all other air traffic.

- (6) Where aircraft of the same category are converging at proximately the same altitude, except head-on or approximately so, the aircraft which has the other to its right shall give way.
- (7) Where aircraft of different categories are converging in flight, the following right of way rules shall apply:
 - (a) a balloon has the right-of-way over any other category of aircraft;
 - (b) a glider has the right-of-way over an airship, aeroplane, rotorcraft; and
 - (c) an airstrip has the right-of-way over an aeroplane or rotorcraft.
- (8) An aircraft towing or refuelling another aircraft has the right-of-way over all other engine-driven aircraft, except aircraft in distress.
- (9) Where aircraft are approaching each other head-on, or approximately so, the pilot of each aircraft shall alter course to the right.
- (10) An aircraft that is being overtaken has the right-of-way and pilot of the overtaking aircraft shall alter course to the right to pass well clear.
- (11) An aircraft, while on final approach to land or while landing, has the right-of-way over other aircraft in flight or operating on the surface.
- (12) Where two (2) or more aircraft are approaching an aerodrome for the purpose of landing, the aircraft at the lower altitude has the right-of-way.
- (13) Notwithstanding sub-regulation (12), power driven heavier than air aircraft shall give way to gliders for the purpose landing.
- (14) An aircraft taxiing on the maneuvering area of an aerodrome, the following shall apply:
 - (a) where two 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) where two 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;
 - (d) an aircraft taxiing in the maneuvering area shall stop and hold at all taxi-holding positions unless otherwise authorised by the aerodrome control tower; and
 - (e) an aircraft taxiing on the maneuvering area shall stop and hold at lighted stop bars and may proceed further when the lights are switched off.

139. (1) An operator shall ensure that an aircraft operating on the water shall, as far as possible, keep clear of all vessels and avoid impeding their navigation and shall give way to any vessel or other aircraft that is given that right-of-way by these Regulations.

- (2) When two (2) aircraft or an aircraft and vessel, are on crossing courses, the aircraft or vessel which has the other on its right shall give way so as to keep well clear.
- (3) When two (2) aircraft or an aircraft and vessel, are approaching head-on, or approximately so, each shall alter its course to the right to keep well clear.
- (4) An aircraft or vessel that is being overtaken has the right-of-way, and the overtaking aircraft or vessel, shall alter course to keep well clear.
- (5) An aircraft landing on or taking off from the water shall, as far as practicable, keep well clear of all aircraft and vessels on the water and avoid impeding their navigation.
- (6) Where two (2) aircraft or an aircraft and vessel, approach so as to pose to risk of collision, each aircraft or vessel shall proceed with careful regard to existing circumstances, including the limitations of the respective aircraft or vessel.

140. (1) Except as provided in sub-regulation (4), all aircraft in flight shall display –

- (a) anti-collision lights, to attract attention to the aircraft at all times; and
- (b) navigation lights intended to indicate the relative path of the aircraft to an observer, from sunset to sunrise or during any other period specified by the appropriate authority.

(2) Except as provided in sub-regulation (4), a person shall not park or move an aircraft at night in a movement area or in dangerous proximity to a movement area of an aerodrome, unless the aircraft –

- (a) has lighted navigation lights to attract attention to the aircraft;
- (b) has display lights at the extremities of its structure; or
- (c) is in an area that is marked by obstruction lights

(3) An aircraft shall display red anti-collision beacon lights prior to commencement of engine start and while engines are running.

(4) A pilot shall be permitted to switch off or reduce the intensity of any flashing light where –

- (a) such light adversely affects or is likely to adversely affect the satisfactory performance of duties of persons engaged in an aircraft operation; or

Requirements for
Simulated
Instrument Flight

- (b) such light may subject an outside observer to harmful dazzle
- (5) An operator shall ensure that an aircraft on water is not anchored between sunset and sunrise or such other period as may be prescribed by the appropriate authority, unless that aircraft –
 - (a) has lighted anchor lights; or
 - (b) is in area where anchor lights are not required on aircraft vessels

- 141.** (1) An operator shall ensure that an aircraft is not operated in simulated instrument flight unless –
 - (a) that aircraft has fully functioning dual controls;
 - (b) the pilot operating the simulated instrument flight is accompanied at the other control seat by a safety pilot who holds at least a Private Pilot Licence with category and class ratings appropriate to the aircraft being flown; and
 - (c) the safety pilot has adequate vision forward and to each side of the aircraft, or a competent observer in communication with the safety pilot occupies a position in the aircraft from which the field of vision of the observer adequately supplements the vision of the safety pilot.
- (2) An operator shall ensure that simulated instrument flight conditions are not conducted during commercial air transport operations.

Requirements for In-Flight Simulation of Abnormal Situations

- 142.** An operator shall ensure that an abnormal or emergency situation is not simulated during commercial air transport operations.

Restrictions on Dropping, Spraying and Towing

- 143.** Except under conditions prescribed by the appropriate Authority and as indicated by relevant information, advice and clearance from Air Traffic Control Authority a pilot shall not –
 - (a) drop, dust, or spray, any item from an aircraft;
 - (b) tow an aircraft or other object; or
 - (c) allow parachute descents unless formally approved by the Authority.

Restriction on Aerobatic Flight

- 144.** (1) A person shall not operate an aircraft in aerobatic flight –
 - (a) over any city, town or settlement;
 - (b) over an open-air assembly of persons;
 - (c) within the lateral boundaries of the surface areas of Class B, C, D, or E airspace designated for an aerodrome;
 - (d) below an altitude of one thousand, five hundred feet (1,500 ft) above the land or sea surface; or
 - (e) when the flight visibility is less than three (3) statute miles.
- (2) A person shall not operate an aircraft in manoeuvres exceeding a bank angle of sixty (60) degrees or pitch angle of thirty (30) degrees from level flight attitude unless all occupants of the aircraft are

Civil Aviation Authority

wearing parachutes packed by qualified parachutes rigger in the past twelve (12) months.

Restrictions on where Flight Test is Conducted

Restrictions on the User of an Aircraft in a Prohibited or Restricted Area

Restrictions on Operations in Minimum Navigation Performance Specification or Reduced Vertical Separation Minimum

- 145.** A person shall not flight-test an aircraft except over open water, or sparsely populated areas having light traffic.
- 146.** (1) A person shall not operate an aircraft in a prohibited area, or in a restricted area, except in accordance with the conditions of the restrictions or by permission of the State over whose territory the areas are established.
- (2) In this regulation, “a prohibited area” or “restricted area” means an area designated by a Civil Aviation Authority to be prohibited or restricted area.
- 147.** (1) An operator shall not operate –
 (a) an aeroplane in defined portions of airspace based on a Regional Air Navigation Agreement where –
 (i) minimum navigation performance specifications are prescribed, such as MNPS, RNP Type or RNAV; or
 (ii) a reduced vertical separation minimum (RVSM) of one thousand feet (1,000 ft) is applied between FL290 and FL410; or
 (b) a helicopter in defined portions of airspace or on routes where an RNP type has been prescribed, unless approved to do so by the Authority.
- (2) Where an operator wishes to apply to operate an aeroplane or helicopter under the conditions set out in sub-regulation (1), he shall apply to the Authority in the prescribed form.
- (3) An application under sub-regulation (2) shall be accompanied by the following documents:
 (a) an identification of the RVSM aircraft group or the non-group aircraft;
 (b) a definition of RVSM flight envelopes applicable to the aircraft;
 (c) documentation that establishes compliance with the applicable RVSM aircraft requirements; and
 (d) the conformity tests used to ensure that aircraft approved in accordance with the documents meet the RVSM aircraft requirements
- (4) An operator shall not operate an aeroplane or helicopter in defined portions of airspace or routes specified in sub-regulation (1), except in accordance with conditions of the procedures and restrictions required for such airspace or routes.

- 148.** (1) The Director General may grant approval for an operator to operate an aeroplane in Reduced Vertical Separation Minimum airspace where he is satisfied that –
- (a) the vertical navigation performance capability of the aeroplane satisfies the altimetry system performance requirements for operations in RVSM airspace;
 - (b) the operator has instituted appropriate procedures for his aeroplane in respect to continued airworthiness practices and programmes;
 - (c) the operator has instituted appropriate flight crew procedures for operations in RVSM airspace;
 - (d) the operator has adequate provisions for receiving the reports issued by the monitoring agencies of height keeping performance of aeroplanes approved for operations in RVSM airspace; and
 - (e) the operator shall take immediate corrective action for individual aircraft or airspace type groups, identified in a report referred to in paragraph (d) as not complying with the height-keeping requirements for operation in airspace where RVSM is applied.
- (2) An operator shall ensure that a minimum of two (2) aircraft of each aircraft type grouping shall have their height-keeping performance monitored at least once every two (2) years or within intervals of one thousand (1,000) flight hours per aircraft, whichever period is longer.
- (3) Where, under Sub-Regulation (2), an aircraft type grouping consists of a single aircraft, monitoring of that aircraft shall be accomplished within the specified time period.
- (4) The Director General may amend, suspend or revoke the Air Operator Certificate of a national operator where the national operator conducts operations in RVSM airspace without the required approval from the Authority.

Requirements where Operations are Conducted on, or in the Vicinity of an Uncontrolled Aerodrome

- 149.** (1) A pilot of an aircraft operated on or in the vicinity of an aerodrome shall, whether or not within an aerodrome traffic zone –
- (a) observe other aerodrome traffic for the purpose of avoiding collision; and
 - (b) conform with or avoid the pattern of traffic formed by other aircraft in operation
- (2) When approaching to land at an aerodrome without an operating control tower, each pilot of –
- (a) an aeroplane shall make all turns to the left or shall comply with any traffic patterns established by the civil aviation authority having jurisdiction over that aerodrome; and
 - (b) a helicopter shall avoid the pattern of traffic flow of aeroplanes
- (3) When departing an aerodrome without an operating control tower, a pilot of an aircraft shall make all turns to the left or shall comply with any traffic patterns established by the civil aviation authority having jurisdiction over that aerodrome.
- (4) A pilot of an aircraft shall land and take-off into the wind unless safety, the runway configuration or traffic considerations determine that a different direction is preferable.

Required Altitudes for Turbojet, Turbofan or Large Aircraft on Entering Aerodrome Traffic Pattern

- 150.** (1) When arriving at an aerodrome, the pilot-in-command of a turbojet, turbofan or large aircraft shall enter the traffic pattern at least one thousand, five hundred feet (1,500 ft) above ground level until further descent is required for landing.

- (2) When departing an aerodrome, the pilot-in-command of a turbojet, turbofan or large aircraft shall climb to one thousand, five hundred (1,500 ft) above ground level as rapidly as practicable.

Compliance with Visual and Electronic Glide Slopes

- 151.** (1) The pilot-in-command of an aircraft approaching to land on a runway served by a visual approach slope indicator shall maintain an altitude at or above the glide slope until a lower altitude is necessary for a safe landing.
- (2) The pilot-in-command of a turbojet, turbofan, or large aeroplane approaching to land on a runway served by an Instrument Landing System, shall fly that aeroplane at or above the glide slope from the point of interception to the middle marker.

Restriction or Suspension of Operations for Commercial Air Transport Operations

- 152.** Where a pilot-in-command or an air operator knows of conditions, including aerodrome and runway conditions that are hazardous to safe operations, such a person shall restrict or suspend all commercial air transport operations to such aerodromes and runways as necessary until those conditions are corrected.

Continuation of
Flight in Commercial
Air Transport when
Destination
Aerodrome is
Temporarily
Restricted

Requirements
where Interception
Occurs

Requirements for
Air Traffic Control
Clearances

Requirement to
Adhere to Air
Traffic Control
Clearance

- 153.** A pilot-in-command shall not allow a flight to continue toward any aerodrome of intended landing where commercial air transport operations have been restricted or suspended, unless –
- (a) in the opinion of the pilot-in-command, the conditions that are a hazard to safe operations may reasonably be expected to be corrected by the estimated time of arrival; or
 - (b) there is no safer procedure
- 154.** (1) Interception of civil aircraft by a Guyana military aircraft shall be conducted in a manner –
- (a) to have due regard for the safety of navigation of civil aircraft; and
 - (b) as prescribed by the Authority.
- (2) When intercepted by a military aircraft, the pilot-in-command of a civil aircraft shall comply with the international standards when interpreting and responding to visual signals as specified in paragraphs (e), (l), and (m) of Schedule 9.
- 155.** (1) A pilot-in-command shall obtain an Air Traffic Control clearance prior to operating a controlled flight, or any portion thereof.
- (2) A pilot-in-command shall request an Air Traffic Control clearance through the submission of a flight plan to an Air Traffic Control Facility.
- (3) Whenever a pilot-in-command of an aircraft has requested a clearance involving priority he shall, where requested by the appropriate Air Traffic Control Facility, and upon completion of flight, submit a report explaining the necessity for such priority.
- (4) A person operating an aircraft at a controlled aerodrome shall not taxi on the maneuvering area or any runway without clearance from the aerodrome control tower.
- 156.** (1) When an Air Traffic Control clearance has been obtained, a pilot-in-command shall not deviate from the clearance, except in an emergency, unless he obtains an amended clearance.
- (2) When operating in airspace requiring controlled flight, a pilot-in-command shall not operate contrary to Air Traffic Control instructions, except in an emergency.
- (3) A pilot-in-command who in an emergency deviates from an Air Traffic Control clearance shall notify Air Traffic Control of that deviation as soon as possible

- (4) A pilot-in-command may amend his Air Traffic Control clearance at any time but shall not operate under such amended clearance until it has been accepted by the Air Traffic Control Facility.
- 157.** (1) A pilot operating an aircraft on a controlled flight shall maintain a continuous listening watch on the appropriate radio frequency of, and establish two-way communication as required with, the appropriate Air Traffic Control Facility except as may be prescribed by the appropriate Air Traffic Services Authority in respect of aircraft forming part of aerodrome traffic at a controlled aerodrome.
- (2) Regulations for communication failure in Visual Meteorological Conditions and Instrument Meteorological Conditions are prescribed in regulations 176 and 194 respectively.
- (3) A person operating an Instrument Flight Rules flight outside controlled airspace but within or into areas, or along routes, designated by the appropriate Air Traffic Control Authority shall maintain an air-ground voice communication on the appropriate communication channel and establish two-way communication as necessary with the Air Traffic Service Facility providing flight information service and shall make position report as required by regulation 161.
- (4) Where a communication failure prevents compliance with Sub-Regulation (1), a pilot shall comply with the voice communication failure procedures specified in the Implementing Standards for Regulation 157 in Schedule 14 and the following procedures as are appropriate:
- (a) attempt to establish communication with the appropriate Air Traffic Service Facility using all other available means; and
 - (b) where the aircraft is forming part of aerodrome traffic at a controlled aerodrome, keep a watch for such instructions as may be issued by visual signals.
- 158.** (1) Unless otherwise authorised by the appropriate Air Traffic Service Authority or directed by the appropriate Air Traffic Control Facility, a pilot-in-command of a controlled flight shall, as far as practicable –
- (a) when on an established Air Traffic Control route, operate along the defined center line of that route; or
 - (b) when on any other route, operate directly between the navigation facilities and points defining that route.
- (2) Where a pilot-in-command deviates from the requirements of Sub-Regulation (1), he shall notify the appropriate Air Traffic Control Facility as soon as possible.

- (3) A pilot-in-command of a controlled flight operating along an Air Traffic Control route defined by reference to Very High Frequency Omni Range shall change over for primary navigation guidance from the facility behind the aircraft to that ahead of it at, or as close as operationally feasible to, the change-over point, where established.
- (4) Where an Automatic Dependent Surveillance agreement is in place, the Air Traffic Services Facility shall be informed automatically via data link whenever changes occur beyond the threshold values stipulated by the Automatic Dependent Surveillance event contract.

Procedures
where
Inadvertent
Changes Occur

159. Where in a controlled flight a pilot-in-command inadvertently deviates from the current flight plan he shall –

- (a) where the aircraft is off track adjust the heading of the aircraft to regain track as soon as practicable;
- (b) where the average true airspeed at cruising level between reporting points varies from that given in the flight plan or is expected to vary by plus or minus five percent (5%) of the true airspeed, inform the appropriate Air Traffic Control Facility;
- (c) where the time estimated for a reporting point flight information region boundary or destination aerodrome, whichever comes first, is found to be in excess –
 - (i) of three (3) minutes from that notified to Air Traffic Control Facility; or
 - (ii) such other period of time as is prescribed by the appropriate Air Traffic Control Authority, notify as soon as possible the appropriate Air Traffic Control Facility and give a revised estimate time

Procedures
where there are
Intended
Changes for Air
Traffic Control
Clearance

160. Requests for flight plan changes shall include the following information:

- (a) aircraft identification;
- (b) in respect of a change in cruising level, the requested new cruising level and cruising speed at this level and revised time estimates, when applicable, at subsequent flight information region boundaries;
- (c) in respect of a new route without destination change, the flight rules, a description of the 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 and any other pertinent information;
- (d) in respect of a destination change, the flight rules under which the flight will operate, a description of the revised route to the flight to the revised destination aerodrome including related flight plan data beginning with the position from which the requested

change of route is to commence, revised time estimates, alternate aerodrome and any other pertinent information.

Requirements for
Position Reports

161. (1) A pilot of a controlled flight shall, unless exempted by the appropriate Air Traffic Control Facility, as soon as possible, the time and level of passing each designated compulsory reporting point, together with any other required information.

(2) A pilot of a controlled flight shall make position reports in relation to additional points or intervals when requested by the appropriate Air Traffic Control Facility.

(3) A pilot of a controlled flight shall, except when landing at a controlled aerodrome, advise the appropriate Air Traffic Control Facility as soon as it ceases to be subject to Air Traffic Control Services.

Procedures
where
Operations are
Conducted on, or
in the Vicinity of
a Controlled
Aerodrome

162. (1) An operator shall ensure that an aircraft is not operated to, from, though, or on an aerodrome having an operational control tower unless two-way communications are maintained between that aircraft and the control tower.

(2) On arrival at an aerodrome, a pilot-in-command shall establish communications required by Sub-Regulation (1), at least four nautical miles distance from the aerodrome when operating from the surface up to and including two thousand, five hundred feet (2,500 ft).

(3) When departing an aerodrome, a pilot-in-command shall establish communications with the control tower prior to taxi

(4) A person shall not, at any aerodrome with an operating control tower, operate an aircraft on a runway or taxiway or take-off or land an aircraft, unless an appropriate clearance has been received from the Air Traffic Control Facility.

(5) A clearance to “taxi to” the take-off runway authorises the person to cross other runways during the taxi to the assigned runway but is not a clearance to cross or taxi on to that runway.

(6) A clearance to “taxi to”, any other point on the aerodrome authorises a person to cross all runways that intersect the taxi route to the assigned point.

(7) Where the radio fails, or two-way communication is lost in the vicinity of a controlled aerodrome a pilot-in-command may continue a Visual Flight Rules flight operation using the procedures set out in regulation 176 and land the aircraft when –

Procedures
where there has
Been Unlawful
Interference on
Board an Aircraft

- (a) the weather conditions are at or above basic Visual Flight Rules minima; and
- (b) clearance to land is received by light signals

(8) The two-way communication failure procedures under regulation 194 shall apply during Instrument Flight Rules operations in the vicinity of a controlled aerodrome.

- 163.** (1) A pilot-in-command shall, when and where possible, notify the appropriate Air Traffic Control Facility when an aircraft is being subjected to unlawful interference, including –
- (a) any significant circumstances associated with the unlawful interference; and
 - (b) any deviation from the current flight plan necessitated by the circumstances, to enable the Air Traffic Control Facility to give priority to the aircraft and to minimise conflict with other aircraft.
- (2) A pilot-in-command of an aircraft subjected to an act of unlawful interference shall attempt to land as soon as practicable at –
- (a) the nearest suitable aerodrome; or
 - (b) a dedicated aerodrome assigned by the appropriate authority, unless considerations aboard the aircraft dictate otherwise
- (3) In this regulation “interference” means –
- (a) any act which causes or threatens the safety of the aircraft or of persons on board the aircraft;
 - (b) the use of abusive language or insulting words towards a crew member or passenger on the aircraft; or
 - (c) when used in relation to a crew member, threats of assaults or intimidation of a crew member while he is performing his duties

Time Check
Requirements

- 164.** (1) A pilot-in-command shall use, in flight operations, Coordinated Universal Time (UTC) expressed in hours and minutes of the twenty-four (24) hour day beginning at midnight.
- (2) A pilot-in-command shall obtain a time check prior to operating a controlled flight and at such other times as may be necessary during the flight.

Universal Signals
Requirements

- 165.** (1) An operator shall ensure that procedures to be followed upon the observation or reception of the designated universal aviation signals are established.
- (2) Upon observing or receiving any of the designated universal aviation signals, a person operating an aircraft shall take such action as may be required by the interpretation of the signal.
- (3) Universal signals shall have the meanings designated in Schedule 9.

- (4) A person using universal signals in the movement of aircraft shall use them only for the purpose indicated
- (5) A person shall not use signals likely to cause confusion with universal aviation signals
- (6) All ground staff when engaged in ground signaling shall use –
 - (a) daylight fluorescent-coloured wands, table-tennis bats, or gloves, during daylight hours; or
 - (b) illuminated wands during the night or in low visibility
- (7) No person shall guide an aircraft unless the person is trained and qualified and is approved by the appropriate authority to carry out the functions of a signalman.
- (8) A signalman under Sub-Regulation (7) shall –
 - (a) be responsible for providing standard marshalling signals to a pilot while operating an aircraft in a clear and precise manner using the signals prescribed in Schedule 9; and
 - (b) wear a distinctive fluorescent identification vest to allow the flight crew of an aircraft to identify that he is the person responsible for the marshalling operation

Technical and
Servicing
Communication
Signals

166. (1) A signalman shall use as appropriate the technical and servicing communication signals at figures 24 through 29 of the marshalling signals prescribed in paragraph (j) of Schedule 9 to communicate to flight crews during the aircraft movement progress relating to servicing or handling functions.

- (2) Notwithstanding Sub-Regulation (1), manual signals shall be used only for technical and serving communication when verbal communication is not possible.
- (3) A signal man shall ensure at all times that an acknowledgement is received from flight crew in response to technical and servicing communication signals.

Visual Flight
Rules and
Navigation
Requirements

167. Navigation for flights under Visual Flight Rules shall be accomplished by visual references to landmarks.

Restrictions on
Operations under
Visual
Meteorological
Conditions

168. An operator shall ensure that an aircraft is not operated under Visual Flight Rules when-

- (a) the flight visibility is less than, or at a distance from the clouds that is less than that prescribed, or;
- (b) the corresponding altitude and class of airspace set out in Schedule 10 exists.

Visual Flight
Rules Weather
Minimum for
Take-Off and
Landing

- 169.** (1) A pilot shall not enter the traffic pattern, land or cause an aircraft to take off under Visual Flight Rules from an aerodrome located in Class B, Class C, Class D or Class E airspace unless –
 (a) reported ceiling is at least one thousand, five hundred feet (1,500 ft); and
 (b) reported ground visibility is at least three (3) statute miles, where reported.

- (2) Where the ground visibility is not reported, the pilot shall conduct such flight as if flight visibility is three (3) statute miles.
- (3) Where an aerodrome located in Class G airspace below one thousand, two hundred feet (1,200 ft) above ground level a pilot shall not enter the traffic pattern, land or cause an aircraft to take off under Visual Flight Rules unless –
 (a) in an aeroplane, the visibility is at least one (1) statute mile and the aeroplane can be operated clear of clouds within one-half mile of the runway; or
 (b) in a helicopter it can be operated clear of clouds at a speed that allows the pilot adequate opportunity to see any air traffic or obstruction in time to avoid a collision.

Special Visual
Flight Rules
Operations

- 170.** (1) A pilot shall not conduct a Special Visual Flight Rules flight operation to enter the traffic pattern, land, or cause an aeroplane to take-off under Special Visual Flight Rules from an aerodrome located in Class B, Class C, Class D or Class E airspace unless –
 (a) given clearance by an Air Traffic Control Authority;
 (b) the aircraft remains clear of clouds; and
 (c) the flight visibility is at least one (1) statute mile
- (2) A pilot shall not conduct a Special Visual Flight Rules flight operation in an aircraft between sunset and sunrise unless authorised by the appropriate Air Traffic Control Authority and –
 (a) the pilot-in-command has a valid licence and rating for Instrument Flight Rules operations; and
 (b) the aircraft is certified for Instrument Flight Rules flight.

Visual Flight
Rules Cruising
Altitudes

- 171.** (1) A pilot operating an aircraft in level cruising flight under Visual Flight Rules at altitudes above three thousand feet (3,000 ft) form he ground or water, shall maintain –
 (a) for magnetic courses from 0 to 179, any odd thousand Mean Sea Level altitudes plus five hundred feet (500 ft) or cruising level plus five hundred feet (500 ft), such as three thousand, five hundred feet (3,500 ft), five thousand, five hundred feet (5,500 ft) or Flight Level 215;
 (b) for magnetic courses form 180 to 359, any even thousand Mean Sea Level altitude level plus five hundred feet (500 ft) or cruising

level plus five hundred feet (500 ft) such as four thousand, five hundred feet (6,500 ft) or Flight Level 225.

(2) A pilot may deviate from cruising altitudes specified in Sub-Regulation (1) only when –

- (a) authorised by the Air Traffic Control Authority;
- (b) operating in a holding pattern; or
- (c) maneuvering in turn

172. A pilot operating a flight under Visual Flight Rules shall obtain and comply with Air Traffic Control clearances and maintain a listening watch before and during operations –

- (a) within Classes B, C and D airspace;
- (b) as part of aerodrome traffic at controlled aerodromes; and
- (c) under Special Visual Flight Rules as prescribed under regulation 173.

Requirement
to Comply
with Air Traffic
Control
Clearance for
Visual Flights

Requirements
to have Air
Traffic Control

Procedures
where there is
Weather
Deterioration
below Visual
Meteorological
Conditions

Changing from
Visual Flight
Rules to
Instrument
Flight Rules

173. Unless authorised by the appropriate Air Traffic Control Authority, a pilot shall not operate in Visual Flight Rules flight –

- (a) above Flight Level 200; or
- (b) at transonic and supersonic speeds

174. A pilot operating a flight under Visual Flight Rules as a controlled flight shall, when he finds it is not practical or possible to maintain flight in Visual Meteorological Conditions in accordance with the Air Traffic Control flight plan –

- (a) request an amended clearance enabling the aircraft to continue in Visual Meteorological Conditions to its destination or to an alternative aerodrome, or to leave the airspace within which an Air Traffic Control clearance is required;
- (b) where no clearance can be obtained, continue to operate in Visual Meteorological Conditions and notify the appropriate Air Traffic Control Facility of the action being taken either to leave the airspace concerned or to land at the nearest suitable aerodrome;
- (c) where operating within a control zone, request authorisation to operate as a Special Visual Flight Rules flight; or
- (d) where currently rated for Instrument Flight Rules operations, request clearance to operate under Instrument Flight Rules.

175. A pilot operating under Visual Flight Rules who wishes to change to Instrument Flight Rules shall –

- (a) where a flight plan was submitted, communicate the necessary changes to be affected to his current flight plan; or
- (b) submit an amended flight plan to the appropriate Air Traffic Control facility and obtain a clearance prior to operating under Instrument Flight Rules when in controlled airspace.

Two-Way Radio
Communication
Failure in Visual
Flight Rules

- 176.** (1) Where radio communication failure occurs in Visual Meteorological Conditions while under Air Traffic Control, or where Visual Meteorological Conditions are encountered after such radio communications failure, a pilot shall –
 (a) continue the flight under Visual Flight Rules;
 (b) land at the nearest suitable aerodrome; and
 (c) report arrival to Air Traffic Control Facility by the most expeditious means possible.
- (2) Where radio communication failure occurs while operating under Instrument Flight Rules, or if the pilot of an aircraft operating under Instrument Flight Rules considers it inadvisable to complete the flight under Sub-Regulation (1), the pilot shall complete the flight in accordance with regulation 194.

Restrictions on
Instrument Flight
Rules Flights in
Controlled
Airspace

- 177.** A pilot shall not operate an aircraft in controlled airspace under Instrument Flight Rules unless he has –
 (a) filed an Instrument Flight Rules flight plan; and
 (b) received an appropriate Air Traffic Control clearance

Procedures for
Instrument
Flight Rules
Flights Outside
of Controlled
Airspace

- 178.** (1) A pilot-in-command of an Instrument Flight Rules flight operating outside of controlled airspace, but within or into areas, or long routes, designated by the appropriate Air Traffic Control Authority, shall –
 (a) maintain a listening watch on the appropriate radio frequency; and
 (b) establish two-way communication, as necessary, with the Air Traffic Control facility providing flight information service.
- (2) A pilot-in-command of an aircraft operating under Instrument Flight Rules outside of controlled airspace for which the appropriate Air Traffic Control Authority requires a flight plan shall –
 (a) maintain a listening watch on the appropriate radio frequency;
 (b) establish two-way communication, as necessary, with the Air Traffic Control facility providing flight information service;
 (c) report the position of the aircraft as specified for controlled flights.

Procedures for
Instrument Flight
Rules Take-Off
Minima for
Commercial Air
Transport

- 179.** Unless otherwise authorised by the Authority, a pilot operating an aircraft in commercial air transport operations shall not accept a clearance to take-off from a civil aerodrome under Instrument Flight Rules unless weather conditions are at or above –
 (a) one (1) statute mile visibility for aircraft, other than helicopters, having two (2) engines;
 (b) half (1/2) statute mile visibility for aircraft having more than two (2) engine; or
 (c) half (1/2) statute mile visibility for helicopters

Restrictions on
Take-Off or
Landing under
Instrument
Flight Rules
Operations

- 180.** (1) Except where necessary for take-off or landing a person shall not operate an aircraft under Instrument Flight Rules –
- (a) below the applicable minimum altitudes prescribed by the relevant civil aviation authority having jurisdiction over the airspace being overflown; or
 - (b) where no applicable minimum altitude is prescribed by the relevant civil aviation authority –
- (i) over high terrain or in mountainous areas, at a level which is less than two thousand feet (2,000 ft) above the highest obstacle located within 8 km of the estimated position of the aircraft; and
 - (ii) elsewhere than as specified in Sub-Regulation (1), at a level which is less than one thousand feet (1,000 ft) above the highest obstacle located within eight kilometers (8 km) of the estimated position of the aircraft.
- (2) Where a Minimum Enroute Altitude and a Minimum Obstacle Clearance Altitude are prescribed for a particular route or route segment, a pilot may operate an aircraft below the Minimum Enroute Altitude down to, but not below the Minimum Obstacle Clearance Altitude when within twenty-two (22) nautical miles of the Very High Frequency omni Range concerned.
- (3) Where a pilot is unable to communicate with an Air Traffic Control Facility, he shall climb to a higher minimum Instrument Flight Rules altitude immediately after passing the point beyond which that minimum altitude applies.
- (4) Where there are intervening obstructions, a pilot shall climb to a point above which the higher minimum altitude under Sub-Regulation (3), applies, at or above the applicable Minimum Clearance Altitude.

Minimum
Altitudes for Use
of an Autopilot

- 181.** (1) For enroute operations, a pilot shall not use an autopilot at an altitude which is less than five hundred feet (500 ft) above the terrain.
- (2) Where the maximum altitude loss, specified⁸ in the Aircraft Flight Manual for a malfunction under cruise conditions under Sub-Regulation (1), when multiplied by two is greater than five hundred feet (500 ft), then such altitude becomes the controlling minimum altitude for use of the autopilot.
- (3) Except for autoland, for instrument approach operations, a person shall not use an autopilot at an altitude above the terrain that is less than fifty feet (50 ft) below the minimum decision altitude or decision height.

- (4) Where the maximum altitude loss specified in the Aircraft Flight Manual for a malfunction under approach conditions under Sub-Regulation (3) when multiplied by two is more than fifty (50 ft), then such altitude becomes the controlling minimum altitude for use of the autopilot.
- (5) The Director General may recommend that the Authority approve the use of a flight control guidance system with automatic landing capability to touchdown and rollout.

Instrument Flight
Rules Cruising
Altitude or Flight
Level in Controlled
Airspace

Instrument Flight
Rules Cruising
Altitude or Flight
Level in
Uncontrolled
Airspace

182. A pilot operating an aircraft under Instrument Flight Rules in level cruising flight in controlled airspace shall maintain the altitude or flight level assigned to that aircraft by the Air Traffic Control Facility.

183. (1) A pilot operating an aircraft in level cruising flight in uncontrolled airspace under Instrument Meteorological Conditions at altitudes above three thousand feet (3,000 ft) from the ground or water, shall maintain –

- (a) for magnetic courses from 0 to 179, any odd thousand mean sea level altitude or flight level, such as five thousand feet (5,000 ft), seven thousand feet (7,000 ft), or Flight Level 210; and
- (b) for magnetic courses from 180 to 359, any even thousand mean sea level altitudes or flight level, such as four thousand feet (4,000 ft), six thousand feet (6,000 ft) or Flight Level 220.

(2) A pilot may deviate from the cruising altitudes specified in Sub-Regulation (1), only when –

- (a) authorised by the Air Traffic Control Authority;
- (b) operating in a holding pattern; or
- (c) maneuvering in turns

Instrument
Flight Rules
Radio
Communication

184. A pilot-in-command of an aircraft operate under Instrument Flight Rules in controlled airspace shall have a continuous watch maintained on the appropriate frequency and shall report by radio as soon as possible –

- (a) the time and altitude of passing each designated reporting point, or the reporting points specified by the Air Traffic Control Authority, except that while the aircraft is under radar control, only the passing of those reporting points specifically requested by Air Traffic Control Authority, need be reported;
- (b) any un-forecast weather conditions encountered; and
- (c) any other information which may affect the safety of flight, such as hazardous weather or abnormal radio station indications.

Requirement for
Malfunction
Reports for
Operation under
Instrument Flight
Rules in
Controlled
Airspace

Continuation of
Instrument
Flight Rules
Flight toward a
Destination

Instrument
Approach
Procedures and
Instrument Flight
Rules Landing
Minimums

Commencing an
Instrument
Approach

- 185.** (1) A pilot-in-command of an aircraft operated in controlled airspace under Instrument Flight Rules shall report as soon as practical to the Air Traffic Control Authority any malfunctions of navigational, approach or communication equipment occurring in flight.
- (2) A pilot-in-command shall include in his report under Sub-Regulation (1) –
- (a) the aircraft identification;
 - (b) the equipment affected;
 - (c) the degree to which the capability of the pilot to operate under Instrument Flight Rules in the Air Traffic Control area is impaired; and
 - (d) the nature and extent of assistance desired from Air Traffic Control
- 186.** A pilot shall not continue an Instrument Flight Rules flight toward an aerodrome or heliport of intended landing, unless the latest available meteorological information indicates that the conditions at that aerodrome or at least one (1) destination alternate aerodrome will, at the expected time of arrival, be at or above the specified instrument approach minima.
- 187.** (1) A person shall not make an instrument approach at an airport except in accordance with Instrument Flight Rules weather minima and instrument approach procedures set forth in the operations specifications of the air operator.
- (2) The instrument approach under Sub-Regulation (1), may be continued below decision height and the landing may be completed provided that the required visual reference is established at the decision height and is maintained.
- 188.** (1) The pilot-in-command or the pilot to whom conduct of a flight has been delegated may commence an instrument approach regardless of the reported runway visual range or visibility but such instrument approach shall not be continued beyond the outer marker, or equivalent position, where the reported runway visual range or visibility is less than the applicable minima.
- (2) Where after passing the outer marker or equivalent position in accordance with Sub-Regulation (1), the reported Runway Visual Range falls below the applicable minima, the approach may be continued to decision height.
- (3) Where no outer marker or equivalent position exists, the pilot-in-command or the pilot to whom conduct of the flight has been delegated shall make the decision to continue or abandon the

approach before one thousand feet (1,000 ft) above the aerodrome on the final approach segment.

Procedures for
Instrument
Approaches to
Civil Aerodromes

Requirements
for Operations
below Decision
Height or
Minimum
Descent Altitude

189. (1) A pilot operating an aircraft in accordance with Instrument Flight Rules shall use a standard instrument approach procedure prescribed by the authorities having jurisdiction over the aerodrome, unless otherwise authorised by the Air Traffic Control Authority.

(2) For the purpose of this regulation, when the approach procedure being used provides for and requires the use of a Decision Height, the authorised decision height is the highest of the following:

- (a) the decision height prescribed by the approach procedure;
- (b) the decision height prescribed for the pilot-in-command; or
- (c) the decision height for which the aircraft is equipped

190. (1) Where a decision height or minimum descent altitude is applicable, a pilot shall not operate an aircraft at any aerodrome or heliport below the authorised minimum descent altitude or continue an approach below the authorised decision height unless –

- (a) the aircraft is continuously in a position from which a descent to a landing on the intended runway can be made at a normal rate of descent using normal manoeuvres;
- (b) the flight visibility is not less than the visibility prescribed in the standard instrument approach being used;
- (c) at least one of the following visual references for the intended runway is distinctly visible and identifiable to the pilot:
 - (i) the approach light system, except that the pilot shall not descend below one hundred feet (100 ft) above the touchdown zone elevation using the approach lights as a reference unless the red terminating bars or the red side row bars are also distinctly visible and identifiable;
 - (ii) the threshold;
 - (iii) the threshold markings;
 - (iv) threshold lights;
 - (v) the runway end identifier lights;
 - (vi) the visual approach slope indicator;
 - (vii) the touchdown zone or touchdown zone markings;
 - (viii) the touchdown zone lights;
 - (ix) the runway or runway markings; or
 - (x) the runway lights;

(2) For commercial air transport operations, the pilot-in-command shall ensure that the descent rate under sub-regulation (1)(a), allows

touchdown to occur within the touchdown zone of the runway of intended landing.

Requirements for
Landing during
Instrument
Meteorological
Conditions

Execution of
Missed Approach
Procedures

Procedures
where Change
from Instrument
Flight Rules Flight
to Visual Flight

Two-Way Radio
Communication
Failure in
Instrument
Meteorological
Conditions

(3) The visual references under this regulation shall not apply to Category II and Category III operations.

191. A pilot operating a civil aircraft shall not land that aircraft when the flight visibility is less than the visibility prescribed in the standard instrument approach procedure being used unless the required visual cues are present.

192. A pilot operating an aircraft shall immediately execute an appropriate missed approach procedure when one of the following conditions exist:

(a) whenever the required visual reference criteria are not met in the following situations:

- (i) when the aircraft is being operated below minimum descent altitude; or
- (ii) upon arrival at the missed approach point, including a decision height where a decision height is specified and its use is required, and at any time after that until touchdown;

(b) whenever an identifiable part of the aerodrome is not distinctly visible to the pilot during a circling maneuver at or above minimum descent height, unless the inability to see identifiable part of the aerodrome results only from a normal bank of the aircraft during the circling approach.

193. (1) A pilot electing to change from an Instrument Flight Rules flight to a Visual Flight Rules flight shall notify the appropriate Air Traffic Control Facility specifically that the Instrument Flight Rules flight is cancelled and then communicate the changes to be made to his current flight plan.

(2) When a pilot operating under Instrument Flight Rules encounters visual meteorological conditions, he shall not cancel the Instrument Flight Rules flight unless it is anticipated, and intended, that the flight will be continued for a reasonable period of the time in uninterrupted visual meteorological conditions.

194. Where radio communication failure occurs in Instrument Meteorological Condition or when the pilot of an Instrument Flight Rules flight considers it advisable to complete the flight under Visual Flight Rules under regulation 176, the pilot shall –

(a) unless otherwise prescribed on the basis of regional air navigation agreement, in airspace where radar is not used in the provision of air traffic control –

- (i) maintain the last assigned speed and level, or minimum flight altitude if higher, for a period of twenty (20) minutes

- following the aircraft's failure to report its position over a compulsory reporting point; and
- (ii) thereafter, adjust level and speed in accordance with the filed flight plan;
- (b) in airspace where radar is used in the provision of air traffic control, maintain the last assigned speed and level, or minimum flight altitude if higher, for a period of seven (7) minutes following:
- (i) the time the last assigned level or minimum flight altitude is reached;
 - (ii) the time the transponder is set to Code 7600; or
 - (iii) the aircraft's failure to report its position over a compulsory reporting point, whichever is later, and thereafter adjust level and speed in accordance with a filed flight plan;
- (c) when being radar vectored or having been directed by Air Traffic Control to proceed offset using area navigation without a specified limit, rejoin the current flight plan route no later than the next significant point, taking into consideration the applicable minimum flight altitude;
- (d) proceed according to the current flight plan route to the appropriate designated navigation aid or fix serving the destination aerodrome and when required to ensure compliance with (e) below, hold over this aid or fix until commencement of descent;
- (e) commence descent from the navigation aid or fix specified in paragraph (b) at, or as close as possible to, the expected approach time last received and acknowledges or if no expected approach time has been received and acknowledged, at, or as close as possible to the, the estimated time of arrival resulting from the current flight plan;
- (f) complete a normal instrument approach procedure as provided for the designated navigation aid or fix; and
- (g) land, if possible, within thirty (30) minutes after the estimated time of arrival specified in paragraph (c) or the last acknowledged expected approach time, whichever is later.

PART IX

PASSENGERS AND PASSENGER HANDLING

Unacceptable
Conduct of
Passenger

- 195.** (1) A person on board an aircraft shall not interfere with a crew member in the performance of his duties.

- (2) A passenger shall fasten his seat belt and keep it fastened while the seat belt sign is lit.
- (3) A person on board an aircraft shall not recklessly or negligently act or omit to act in such a manner as to endanger the aircraft or persons and property therein.
- (4) A person shall not conceal himself or cargo on board an aircraft.
- (5) A person shall not smoke –
- (a) while the no-smoking sign is lit; or
 - (b) in any aircraft lavatory.
- (6) A person shall not tamper with, disable or destroy any smoke detector installed in any aircraft lavatory.
- (7) A person shall not enter in or be on an aircraft when under the influence of alcohol or drugs to the extent that the safety of the aircraft or its occupants is likely to be endangered.
- (8) A passenger shall from the time of boarding an aircraft to the time of disembarking an aircraft comply with all safety instructions given by a crew member.
- (9) A person who contravenes any of the provisions of this regulation is guilty of an offence and is liable on summary conviction to a fine of twenty-five thousand dollars (\$25,000) and imprisonment for one (1) year.
- 196.** (1) An operator shall establish operational procedures for refuelling or defueling an aircraft while passengers are embarking, on board or disembarking the aircraft.
- (2) A pilot-in-command shall not allow an aircraft to be refueled when passengers are embarking on board or disembarking an aircraft unless –
- (a) the aircraft is manned by qualified personnel ready to initiate and direct an evacuation;
 - (b) two-way communication is maintained between qualified personnel in the aircraft and the ground crew supervising the refuelling; and
 - (c) he complies with the operational procedures under sub-regulation (1) established by the operator.
- (3) Unless specifically authorised by the Authority, a national air operator shall not allow a helicopter to be refueled or defueled when –

Requirements
for Refueling or
Defueling with
Passengers
Embarking, on
Board or
Disembarking

Required
Passenger Seats,
Safety Belts and
Shoulder Harness

- (a) passengers are embarking or disembarking; or
 - (b) the engine is running, or the rotors are turning.
- 197.** (1) A person shall not operate an aircraft unless there are available during the take-off, enroute flight, and landing-
- (a) an approved seat or berth for each person on board the aircraft who has reached his second birthday and;
 - (b) an approved seat belt for separate use by each person on board the aircraft who has reached his second birthday, except that two (2) persons occupying a berth may share one approved seat belt and two (2) persons occupying a multiple lounge or divan seat may share one (1) approved seat belt during enroute flight only.
- (2) except as provided in this paragraph, each person on board an aircraft operated under this part shall occupy an approved seat or berth with a separate safety belt properly secured about him during movement on the surface, take-off and landing;
- (3) A safety belt provided for the occupant of a seat may not be used by more than one (1) person who has reached his or her second birthday.
- (4) Notwithstanding sub-regulations (2) and (3), a child may-
- (a) be held by an adult who is occupying an approved seat or berth, provided the child has not reached his second birthday or;
 - (b) occupy a child restraint system acceptable to the authority, furnished by the operator or by the parent, guardian, or an attendant designated by the child's parent or guardian to attend to the safety of the child during the flight.
- (5) This regulation does not prohibit the operator from providing child restraint systems consistent with safe operating practices and acceptable to the authority, or from determining the most appropriate passenger seat location for the use of the child restraint system.
- (6) A passenger shall have his seatbelt securely fastened at any other time that the pilot-in-command determines it is necessary for safety.
- (7) When cabin crew is required in a commercial air transport operation, the pilot-in-command may delegate his responsibilities under this regulation.
- (8) Notwithstanding sub-regulation (7) a pilot-in-command shall ascertain that the proper briefing in respect of the use of seatbelt has been conducted prior to take-off.

(9) The pilot-in-command shall ensure that during take-off and landing and whenever, by reason of turbulence or any emergency occurring during flight, the precaution is considered necessary, all passengers on board an aircraft shall be secured in their seats by means of the seat belt or harnesses provided.

198. (1) An operator shall establish procedures in his Operations Manual to ensure that-

- (a) passengers are given a verbal briefing on safety matters and;
- (b) passengers are provided with a safety briefing card containing instructions which shall indicate the operations of emergency equipment and exits likely to be used by passengers.

(2) A pilot-in-command shall ensure that before take-off-

- (a) Passengers are briefed on the following items where applicable:
 - (i) Smoking regulations;
 - (ii) Back of the seat to be in the upright position and tray stable stowed;
 - (iii) Location of emergency exists;
 - (iv) Location and use of floor proximity escape path markings;
 - (v) Stowage of hand baggage;
 - (vi) Restrictions on the use of portable electronic devices; and
 - (vii) The location and contents of the safety briefing card.

(b) Passengers receive a demonstration on the following:

- (i) The use of safety belts and safety harnesses, including how to fasten and unfasten the safety belts and safety harnesses;
- (ii) The location and use of oxygen equipment where required; and,
- (iii) The location and use of life jackets where required.

(3) A pilot-in-command shall ensure that after take-off of an aircraft passengers are reminded of the following:

- (a) Smoking regulations; and
- (b) Use of safety belts and safety harnesses.

(4) A pilot-in-command shall ensure that before landing passengers are reminded of the following:

- (a) Smoking regulations;
- (b) Use of safety belts and safety harnesses;
- (c) Back of the seat to be in the upright position and tray table stowed;
- (d) Re-stowage of hand baggage; and
- (e) Restrictions on the use of portable electronic devices.

(5) A pilot-in-command shall ensure that after landing passengers are reminded of the following:

Civil Aviation Authority

- (a) Smoking regulations; and
 (b) Use of safety belts and safety harness.
- (6) A pilot-in-command shall ensure that in an emergency during flight, passengers are instructed in such emergency action as may appropriate to the circumstances.
- (7) The pilot-in-command of an aircraft shall immediately before or after turning the “fasten seat belt” sign off, ensure that passengers are briefed to keep their seatbelts fastened while seated, even when the “fasten seatbelt” sign is switched off.
- (8) The passenger briefing card is required under paragraph (2) (a) (vii) shall contain information that is pertinent only to the type and model of aircraft used for that flight.
- (9) The pilot-in-command shall, before each take-off, ensure that a person of reduced mobility is personally briefed on-
- (a) The route to the most appropriate exist, and
 (b) The time to begin moving to the exist, in the event of an emergency.
- (10) In addition, to the requirements of sub-regulations (9), the pilot-in-command shall ensure that proper passenger briefing required by this regulation has been completed prior to each take-off.
- 199.** In an emergency during flight, the pilot-in-command shall ensure that all persons on board are instructed in such emergency action as may be appropriate to the circumstances.
- 200.** (1) The pilot in command shall ensure that breathing oxygen and masks are available to passengers in sufficient quantities for all flights at such altitude where a lack of oxygen might harmfully affect passengers.
- (2) The pilot-in-command shall ensure that the minimum supply of oxygen prescribed by the authority is on board the aircraft.
- (3) the pilot-in-command shall require all passengers to use oxygen continuously at cabin pressure altitudes above fifteen thousand feet (15,000 ft).
- 201.** Notwithstanding regulation 195 (7), a person who is under medication and is a medical patient under proper care may be allowed to enter in or be on an aircraft where the operator is satisfied that the safety of the aircraft and its occupants is not likely to be endangered.

Required In-Flight
Emergency
Instruction

Minimum Supply
and use of
Passenger
Oxygen

Exceptions to
use Medication
by Passenger

Restricted Area
of Access of
Passengers

Applicability of
Regulations 204
to 224

Requirement to
Comply with
Instructions Given
by Crew Members

Denial of
Transportation of
Certain
Categories of
Passengers

Exemptions of
Certain Passenger
Carrying
Requirements

202. An operator shall take all reasonable measures to ensure that a passenger is not in any part of an aircraft in flight which is not a part designated for accommodation of passengers unless temporary access has been granted by the pilot-in-command to any part of the aircraft:

- (a) For the purpose of taking any action necessary for the safety of the aircraft or of any person, animal or goods therein; or
- (b) In which cargo or stores are carried being a part which is designed to enable a person to have access thereto while the aircraft is in flight.

203. Notwithstanding the generality of the foregoing regulations of this Part, regulations 204 to 224 apply to commercial air transport operation.

204. A person on a commercial air transport flight shall comply with instructions given by a crew member in compliance with this Part.

205. (1) An air operator shall not refuse transportation of any person where he has established procedures for the carriage of persons who may require the assistance of another person to move expeditiously to an exit in the event of an emergency.

- (2) Notwithstanding sub-regulation (1), an air operator may deny transportation of a person where such person –
 - (a) Refuses to comply with the instructions regarding exit seating restrictions prescribed by the authority or,
 - (b) Has a handicap that can be physically accommodated only by an exit row seat.

206. (1) The passenger-carrying requirements for –

- (a) Megaphones as specified in the Civil Aviation Instruments and Equipment Regulations;
- (b) Passenger briefing as specified in regulations 198 and 220;
- (c) Locking of cockpit compartment door in regulation 60,
- shall not apply in commercial air transport operations where an aircraft is carrying only-
 - (d) A crew member not required for the flight;
 - (e) A representative of the Authority on official duty;
 - (f) A person necessary to the safety or security of cargo or animals or,
 - (g) Any person authorized by the Operations Manual of the national air operator, as approved by the Authority.

Cabin Crew at
Duty Stations

- 207.** (1) During take-off and landing and whenever the pilot-in-command so directs, cabin crew shall remain at their duty stations with safety belts and shoulder harnesses fastened except to perform duties related to the safety of the aircraft and its occupants.
- (2) During take-off and landing, cabin crew shall be located as near as practicable to required floor level exists and shall be uniformly distributed throughout the aircraft to provide the most effective egress of passengers in an event of an emergency evacuation.
- (3) where passengers are on board a parked aircraft, cabin crew or another person qualified in emergency evacuation procedures for the aircraft, shall be placed in the following manner:
- (a) Where only one (1) qualified person is required, that person shall be located in accordance with the Operations Manual procedures of the air operator;
 - (b) Where more than one (1) qualified person is required, those persons shall be spaced throughout the cabin to provide the most effective assistance for the evacuation in case of an emergency.
- (4) An air operator shall ensure that crew members who are not required flight or cabin crew members, have also been trained in, and are proficient to preform, their assigned duties.

Pilot-in-command
to Ensure
Emergency Exit is
Available

- 208.** (1) The pilot-in-command, senior cabin crew and any other person assigned by the air operator shall ensure that, when passengers are on board the aircraft prior to movement on the surface, at least one floor-level exit provides for egress of passengers through normal or emergency means.
- (2) An air operator shall establish for approval by the Authority, the necessary functions to be performed by the crew members in an emergency or a situation requiring emergency evacuation for each type of aircraft.

Prohibition in
Respect to
Armed
Emergency Exit

- 209.** A person shall not cause an aircraft carrying passengers to be moved on the surface, take-off, or land, unless each automatically deployable emergency evacuation assisting means installed on the aircraft is armed and ready for evacuation.

Prohibition on
Blocking Access
to Emergency
Exit

Pilot-in-command
or Senior Cabin
Crew to Ensure

Requirements
for Passengers
with Reduced
Mobility

Requirements for
Transport of
Inadmissible
Passengers,
Deportees or
Persons in Custody

Passenger
Requirements
for Exit Row
Seating

- 210.** (1) An air operator shall ensure that carry-on baggage or other items do not block access to the emergency exists when the aircraft is moving on the surface, during take-off or landing or while passengers remain on board.
- (2) A pilot-in-command of an aircraft shall ensure that relevant emergency equipment remains easily accessible for immediate use.
- 211.** (1) At stops where passengers remain on board an aircraft, the pilot-in-command of such aircraft, the senior cabin crew or both shall ensure that-
- (a) All engines are shut down;
 - (b) At least one (1) floor level exist remains open to provide for the disembarking of passengers; and
 - (c) There is at least one (1) person immediately available who is qualified in the emergency evacuation of the aircraft and who has been identified to the passengers on board as responsible for the passenger safety.
- (2) Where refueling with passengers on board an aircraft, the pilot-in-command or a designated company representative shall ensure that the requirements specified in regulation 196 and the Operator Manual procedures are followed.
- 212.** (1) An air operator shall establish procedures for the carriage of persons with reduced mobility.
- (2) An air operator shall ensure that persons with reduced mobility do not occupy seats where their presence could;
- (a) Impede the crew in their duties;
 - (b) Obstruct access to emergency equipment; or
 - (c) Impede the emergency evacuation of the aircraft.
- (3) The pilot-in-command of an aircraft shall be notified when persons with reduced mobility are to be carried on board.
- 213.** (1) An air operator shall establish procedures for the transportation of inadmissible passengers, deportees or persons in custody to ensure the safety of the aircraft and its occupants.
- (2) The pilot-in-command of an aircraft shall be notified when the persons under sub-regulation (1), are to be carried on board.
- 214.** A pilot-in-command or senior cabin crew of an aircraft shall not allow a passenger to sit in an emergency exist row where the pilot-in-command or senior cabin crew determines that it is likely that the

passenger would be unable to understand the preform the functions necessary to open an exist and to exist rapidly.

**Restriction on
Carriage of
Weapons**

- 215.** (1) A person shall not, while on board an aircraft, carry on or about his person a firearm, weapon or munitions of war, either concealed or unconcealed.
- (2) A person who contravenes sub-regulation (1), is guilty of an offense and is liable on summary conviction to a fine of five thousand dollars (\$5,000 USD) and imprisonment for two (2) years.
- (3) This regulation shall not apply to an air marshal authorized to be on board an aircraft in accordance with the Civil Aviation (Aviation Security) Regulations.

**Requirements
for Oxygen for
Medical use by
Passengers**

- 216.** (1) An air operator may allow a passenger to carry and operate equipment for the storage, generation or dispensing of medical oxygen on an aircraft under conditions as prescribed by the Authority.
- (2) An air operator shall ensure that a person is not allowed to connect or disconnect oxygen-dispensing equipment to or from an oxygen cylinder while any other passenger is abroad an aircraft engaged in commercial air transport.

**Restrictions on
Carry-on
Baggage**

- 217.** (1) An air operator shall not allow the boarding of carry-on baggage unless it can be stowed and secured in an approved location in accordance with the Operations Manual procedures of the air operator.
- (2) An air operator shall not allow aircraft passenger entry doors to be closed in preparation for taxi or pushback unless at least one (1) required crew member has verified that each article of baggage has been properly stowed in overhead racks with approved restraining devices or doors, or in approved locations of the bulkhead.
- (3) An air operator shall not allow carry-on baggage to be stowed in a location that would cause such location to be loaded beyond its maximum placard weight limitation.

**Prohibition on
Carriage of Cargo
in Passenger
Compartment**

- 218.** An air operator shall not allow the carriage of cargo in the passenger compartment of an aircraft except under the conditions approved by the authority.

Prohibition on
Smoking on
Aircraft

219. (1) The pilot-in-command shall ensure that no person on board an aircraft is allowed to smoke.

(2) In those areas in the cabin where oxygen is being supplied, the pilot-in-command shall ensure that required passenger information signs are lit.

Requirements
to Brief Specific
to Over Water
Operations

220. (1) An air operator shall establish procedures for the briefing of passengers when conducting extended over water operations.

(2) A pilot-in-command of an aircraft shall not commence extended over water operations unless all passengers have been briefed on the location of life rafts where applicable and the location and operation of life vests and other flotation equipment including a demonstration of the method of donning and inflating.

Required
Passenger Seat
Belts and
Information Signs
in Commercial Air
Transport
Operations

221. (1) The pilot-in-command of an aircraft shall turn on required passenger information signs during any movement on the surface, for each take-off and each landing and whenever considered necessary in the interest of safety.

(2) A passenger on board an aircraft occupying a seat or berth shall fasten his safety belt and keep it fastened while the "Fasten Seat Belt" sign is lit, or in an aircraft not equipped with such a sign, whenever instructed by the pilot-in-command.

(3) At each unoccupied seat under this regulation, the safety belt and shoulder harness, where installed, shall be secured so as not to interfere with a crew member in the performance of his duties or with the rapid egress of occupants in an emergency.

Requirements
for Seat Backs
to be Upright
Prior to Take-
Off and Landing

222. (1) A pilot-in-command of an aircraft shall not take-off or land an aircraft unless each passenger seat back is in the upright position.

(2) The senior cabin crew of an aircraft engaged in commercial air transport operations shall ensure that prior to take-off or landing each passenger seat back is in the upright position.

Restrictions of
Movement in
Respect of
Stowage of Food
and Beverage

223. (1) A pilot-in-command shall not operate an aircraft on the surface, or cause an aircraft to take-off or land-

(a) when any food, beverage or tableware is located at any passenger seat;

(b) unless each food and beverage tray and seat back tray table is in the stowed position;

(c) unless each passenger serving cart is secured in its stowed position and;

(d) unless each movie screen that extends into an aisle is stowed.

Requirements
to Secure Items
of Mass in
Passenger
Compartment

- (2) A senior cabin crew member shall ensure that while an aircraft is in movement on the surface or is taking off and landing-
 - (a) no food, beverage or tableware is located at any passenger seat;
 - (b) each food and beverage tray and each seatback tray table, is in the stowed position;
 - (c) each passenger serving cart is secured in its stowed position; and
 - (d) each movie screen that extends into an aisle is stowed.

- 224.** An air operator shall ensure that prior to take-off or landing of an aircraft each item of mass in the passenger cabin is properly secured to prevent it from becoming a hazard during taxi, take-off and landing and during turbulent weather conditions.

PART X

CREW MEMBER AND FLIGHT OPERATIONS OFFICER

QUALIFICATIONS FOR COMMERCIAL AIR TRANSPORT

Applicability of
Part X

Age and Special
Medical
Certificate
Restriction

- 225.** Notwithstanding the generality of Part X Regulations, the provisions of this Part shall apply to the conduct of commercial air transport operations.

- 226.** (1) A person shall not serve, nor shall any air operator use, a person as a required pilot flight crew member on a commercial aircraft where such person has reached his sixty-fifth birthday.

- (2) A check airman who has-

- (a) Reached his sixty-fifth (65th) birthday or
- (b) Who does not hold an appropriate medical certificate, may continue his check airman functions, but may not serve as, or occupy the position of, a required flight crew member on an aircraft engaged in a commercial air transport operation.

- (3) Notwithstanding sub-regulations (1) and (2)(a), the holder of a pilot license who aged between sixty (60) and sixty-five (65) years may serve as a member of a multi-pilot crew on an aircraft engaged in commercial air transport operations where:

- (a) no other flight crew member on board has attained the age of sixty (60) years; and
- (b) No other flight crew member is a holder of a Special Medical Certificate issued under the Civil Aviation General Application and Personnel Licensing Regulations.

- (4) The holder of a Special Medical Certificate issued under the Civil Aviation General Application and Personnel Licensing Regulations,

shall not serve as, or occupy the position of a required flight crew member on an aircraft engaged in commercial air transport operations.

- (5) Notwithstanding sub-regulation (4), the holder of a Special Medical Certificate may act as a member of a multi-pilot crew where:
 - (a) No other flight crew member has attained the age of sixty (60) years and;
 - (b) No other flight crew member is a holder of a Special Medical Certificate.

Pilot-in-command Requirements for Turbojet, Turbofan or Large Aircraft

227. A pilot shall not act as pilot-in-command of a turbojet, turbofan, aeroplane type certificated for two-pilot operation, or large commercial aircraft unless he holds an Airline Transport Pilot Licence and a type rating for that aircraft issued in accordance with Civil Aviation General Application and Personnel Licensing Regulations.

Pilot-in-command Requirements for Non-Turbo or Turbofan

228. A pilot shall not act as pilot-in-command of a non-turbojet or non-turbofan small aircraft in commercial air transport during-

- (a) Instrument Flight Rules operations unless he holds a Commercial Pilot Licence with appropriate category and class ratings for the aircraft operated, and an instrument rating, and meets the experience requirements for the operation or;
- (b) Day Visual Flight Rules operations unless he holds a Commercial Pilot License with appropriate category type and class ratings for the aircraft operated.

Aeronautical Experience Requirements for Pilot-in-command in Respect of Small Aeroplanes

229. An air operator shall ensure that a pilot does not operate as a pilot-in-command of an aeroplane certificated by the Aeroplane Flight Manual for single pilot operations unless when conducting passenger carrying operations under Visual Flight Rules, he has a minimum of five hundred (500) hours total flight time including at least one hundred (100) hours of cross country flight time of which twenty-five (25) hours were at night on aeroplane or, for operations under Instrument Flight Rules, holds a valid Instrument Rating.

Pilot Operations under the Instruments Flight Rules or at Night

- 230.**
 - (1) An operator shall not conduct single-pilot commercial air transport operations under the Instruments Flight Rules or at night unless approved by the authority.
 - (2) A single pilot shall not operator an aeroplane under Instrument Flight Rules or at night in commercial air transport operations unless the standards prescribed in Schedule 14 of the Regulations are complied with.

Co-Pilot Licence
Requirements

Flight Engineer
Licence
Requirements

Requirements
for Flight
Engineer
Competency

Requirements
for Flight
Operation
Officer

Requirements for
Crew Member or
Flight Operations
Officer to
Complete
Company
Procedures
Indoctrination

Requirement
for Initial
Dangerous
Goods Training

- 231.** A pilot shall not act as co-pilot of an aircraft in commercial air transport operations unless he-
- (a) Holds a Commercial Pilot License with appropriate category, class and type ratings for the aircraft operated and,
 - (b) Holds an instrument rating in the category, class and type rating for the aircraft operated.
- 232.** (1) A person shall not act as the Flight Engineer of a commercial aircraft unless he holds a Flight Engineer License with the appropriate class and type rating.
- (2) When a separate Flight Engineer station is incorporated in the design of an aircraft, the flight crew shall comprise at least one Flight Engineer unless those duties can, with the approval of the Authority, be satisfactorily performed by another flight crew member without interfering with that flight crew member's regular duties.
- 233.** An air operator shall ensure that, on all flights requiring a Flight Engineer, there is assigned at least one (1) other flight crew member competent to perform the flight duties in the event the Flight Engineer becomes incapacitated.
- 234.** A person shall not act as a Flight Operations Officer in releasing a scheduled passenger-carrying commercial air transport operation unless he has a valid Flight Operations Officer Authorization issued in accordance with the Civil Aviation General Application and Personnel Licensing Regulations.
- 235.** (1) A person shall not serve, and an air operator shall not use a person as, a crew member or Flight Operations Officer unless that person has completed the company procedures indoctrination training program approved by the authority, which shall include a complete review of the Operations Manual procedures pertinent to the crew member or duties of the Flight Operations Officer and other items outlined in Part A of schedule 11.
- (2) An air operator shall provide a minimum of forty (4) programmed hours of instruction for company procedures indoctrination training unless a reduction in the number of programmed hours is approved by the authority.
- 236.** A person shall not serve, and an air operator shall not use a person as, a crew member unless he has completed the appropriate initial

dangerous goods training program approved by the authority and described in the Technical Instructions.

Initial Security
Training

Requirement
for Initial Crew
Resource
Training

Initial
Emergency
equipment
Drills

Required Initial
Aircraft Ground
Training

- 237.** A person shall not serve, and an air operator shall not use a person as, a crew member unless such person has completed the initial security training program approved by the authority.
- 238.** (1) A person shall not serve, and an air operator shall not use a person as a crew member or Flight Operations Officer in commercial air transport operations unless such person has completed the initial Crew Resource Management Training Program including-
- (a) proper flight crew coordination and incapacitation procedures;
 - (b) effective flight crew and cabin crew coordination and;
 - (c) knowledge about human performance relating to passenger cabin safety duties; as approved by the authority.
- (2) The Crew Resource Management Training program under sub-regulation (1), shall meet the requirements of Part B of Schedule 11.
- 239.** (1) A person shall not serve, and an air operator shall not use a person as, a crew member unless that person has satisfactorily completed the appropriate initial emergency and lifesaving equipment drills for the crew member position and approved by the authority for the emergency equipment available on the aircraft to be operated, including –
- (a) Life vests;
 - (b) Life rafts;
 - (c) Evacuation slides;
 - (d) Emergency exists, portable fire extinguishers;
 - (e) Oxygen equipment and first aid kits.
- (2) The emergency and lifesaving equipment drills under sub-regulation (1), shall meet the requirements set out in Part C of Schedule 11.
- 240.** (1) A person shall not serve, and an air operator shall not use a person as, a crew member or Flight Operations Officer unless that person has satisfactorily completed the initial ground training approved by the authority for the aircraft type.
- (2) Initial aircraft ground training under this regulation for flight crew members shall-
- (a) Include the pertinent portions of the Operations Manual relating to aircraft specific performance, mass and balance, operational

policies, systems, limitations, normal, abnormal and emergency procedures on the aircraft type to be used and;

- (b) Ensure that all flight crew members know the functions for which they are responsible and the relation of these functions to the functions of the other crew members.

(3) An air operator may have separate initial aircraft ground training programs of varying lengths and subject emphasis approved by the authority, which recognize the experience levels of flight crew members.

(4) Initial aircraft ground training under this regulation for cabin crew shall-

- (a) include the pertinent portions of the approved Operations Manuals relating to specific aircraft configuration, equipment, including those used in emergencies and normal and emergency procedures for the aircraft types within the fleet;

- (b) ensure each person is competent to execute those safety duties and functions which the cabin crew member is assigned to perform in the event of an emergency or in a situation requiring emergency evacuation;

- (c) when serving on aircraft operated above ten thousand feet (10,000 ft), include knowledge on the effect of lack of oxygen and, in the case of pressurized aircraft, physiological phenomena accompanying a loss of pressurization.

- (d) Include awareness of other crew member's assignments and functions in the event of an emergency so far as is necessary for the fulfillment of the duties of the crew member.

(5) Aircraft initial ground training for Flight Operations Officers shall include the pertinent portions of the Operations Manual relating to specific aircraft flight preparation procedures, performance, mass and balance systems, limitations specific to the aircraft types operated.

(6) The syllabi for Initial Aircraft Ground Training under this regulation are set out in Part D of Schedule 11.

- 241.** (1) A person shall not serve, nor shall an air operator use a person, as a flight crew member unless he has completed the initial flight training approved by the authority for the aircraft type, which ensures that all flight crew members are trained to perform their assigned duties.

- (2) Initial flight training shall focus on the maneuvering and safe operation of the aircraft in accordance with air operator's normal, abnormal and emergency procedures.
- (3) An air operator may have separate initial flight training programs which recognize the experience levels of flight crew members approved by the authority.
- (4) The initial aircraft flight training under this regulation shall meet the requirements of Part E of Schedule 11.

Initial Specialised
Operations
Training

242. (1) A person shall not serve, and an air operator shall not use a person, as a flight crew member in commercial air transport operations unless he has completed the appropriate initial specialized operations training program approved by the authority.

- (2) Specialized operations under sub-regulation (1), for which initial training curricula be developed include-
- (a) low minimums operations, including low visibility take-offs and Category II and III operations;
 - (b) extended range operations;
 - (c) specialized navigation and;
 - (d) pilot-in-command right seat qualification.
- (3) Notwithstanding the generality of sub-regulation (2), the initial specialized operations training under this regulation shall meet the requirements of Part F of Schedule 11.

Requirement
for Flight Crew
Member to
Complete
Difference and
Familiarisation
Training

243. (1) An air operator shall ensure that a flight crew member completes-

- (a) differences training which requires additional knowledge and training on an appropriate training device or the aircraft-
 - (i) when operating another variant of an aircraft of the same type or another type of the same class currently operated or;
 - (ii) when changing equipment or procedures on types or variants currently operated; and
- (b) familiarization training which requires the acquisition of additional knowledge-
 - (i) when operating another aircraft of the same type or;
 - (ii) when changing equipment or procedures on types or variants currently operated.

(2) An air operator shall specify in his Operations Manual when differences training or familiarization training under sub-regulation (1), is required.

Requirements
when Aircraft
Simulators are
Used

244. An air operator shall ensure that an aircraft stimulator and other training device used for flight crew qualifications shall-

- (a) be specifically approved by the authority for-
 - (i) the air operator;
 - (ii) the type aircraft, including type variations, for which the training or check is being conducted and;
 - (iii) the particular maneuver, procedure, and flight crew, member function involved;
- (b) maintain the performance, functional and other characteristics that are required for approval;
- (c) be modified to conform with any modification to the aircraft being simulated that results in changes to performance, functional or other characteristics required for approval;
- (d) be given a daily functional pre-flight check before use and;
- (e) have a daily discrepancy log.

Requirements
for Flight Crew
Conversion
Training and
Checking

245. (1) An air operator shall ensure that-

- (a) flight crew complete a Type Rating course which satisfies the applicable General Application and Personnel Licensing when changing from one type of aircraft to another type or class for which a new type or class rating is required;
- (b) flight crew complete the approved conversion course before commencing unsupervised line flying-
 - (i) when changing to an aircraft for which a type or class rating is required or;
 - (ii) when changing from one air operator to another;
- (c) conversion training acceptable to the authority is conducted by a suitably qualified person in accordance with a detailed course syllabus included in the Operations Manual;
- (d) the amount of training required by his conversion course is determined after due note has been taken of the previous training of the flight crew member from records prescribed by the Act or Regulations made thereunder;
- (e) the minimum standards of qualification and experience required for flight crew before undertaking conversion training are specified in the Operations Manual;
- (f) flight crew undergo the operator proficiency check and emergency and safety equipment training and checks before commencing line flying under supervision;
- (g) upon completion of line flying under supervision, successfully completes the line check;

- (h) once a flight crew member has commenced the air operator's conversion course, he does not undertake flying duties on another type or class until the course is completed or terminated and;
 - (i) crew resource management training is incorporated in the conversion course.
- (2) The conversion course of the air operator and the Type or Class Rating course required for the issue of flight crew licences may be combined.
- (3) An air operator shall ensure that his cabin crew has completed the appropriate training, as specified in the Operations Manual, before undertaking assigned duties.
- (4) The training required under sub-regulation (3), shall comprise-
- (a) conversion training which shall be completed before being-
 - (i) first assigned by the air operator to operate as a cabin crew member, or
 - (ii) assigned to operate another aircraft type and;
 - (b) differences training which shall be completed before operating-
 - (i) in a variant of an aircraft type currently operated or;
 - (ii) with different safety equipment, safety equipment location, or normal and emergency procedures on currently operated aircraft types or variants.
- (5) An air operator shall ensure that-
- (a) conversion training is conducted in a structured and realistic manner;
 - (b) differences training is conducted in a structured manner and;
 - (c) conversion training, and where necessary differences training, includes the use of all safety equipment and all normal and emergency procedures applicable to the type and variant of aircraft and involves training and practice on either an approved training device or on the actual aircraft.
- (6) An air operator in determining the content of the conversion or differences training under sub-regulation (3), shall take account of the previous training of the cabin crew member, recorded in his training records.
- (7) Conversion and differences training programs shall be approved by the Authority.
- (8) A conversion and differences training program under this regulation shall meet the requirements of Part G of Schedule 11.

Restrictions on
the Use by the
Air Operator of
Persons as
Flight Crew

- 246.** (1) A person shall not serve, and an air operator shall not use a person as, a pilot unless, since the beginning of the sixth (6th) calendar month before such service, such person has passed the proficiency check prescribed by the authority in the make and model of aircraft on which his services is required.
- (2) A person shall not serve, and an air operator shall not use a person as, a pilot under Instrument Flight Rules operations unless, since the beginning of the sixth (6TH) month before that service, such person has passed the instrument proficiency check prescribed by the authority.
- (3) The proficiency check under sub-regulation (2), shall ensure that piloting technique and the ability to execute emergency procedures are checked in such a way as to assess the competency of the pilot.
- (4) A pilot may complete the requirements of sub-regulation (1) and (2) simultaneously in a specific aircraft type.
- (5) The proficiency check under sub-regulation (1) shall be in the areas set out in Part H of Schedule 11.

Nomination as
Pilot-in-command

- 247.** (1) An air operator shall ensure that for a pilot to be upgraded from co-pilot to pilot-in-command and for those joining as pilot-in-command-
- (a) a minimum level of experience, acceptable to the authority, is specified in the Operations Manual and;
 - (b) for multi-crew operations, the pilot completes a command course acceptable to the authority.
- (2) The command course required by sub-regulation (1) (b), shall be specified in the Operations Manual and include at least the following:
- (a) Training in a Flight Stimulator including line orientated flying training and flying training;
 - (b) An operator proficiency check for operations as pilot-in-command;
 - (c) Responsibilities of the pilot-in-command;
 - (d) Line training under supervision as a pilot-in-command for a minimum of ten (10) sectors for pilots already qualified on the aircraft type;
 - (e) Completion of a pilot-in-command line check and route and airport qualification check; and
 - (f) Elements of a Crew Resource Management training program specified under regulations 238 and 245, respectively.

Required Qualifications to Operate in Either Pilot's Seat

RE-establishing Recency of Experience by a Pilot

Requirements for Operations on More than One Type or Variant of Aircraft

- 248.** (1) An air operator shall ensure that a pilot who may be assigned to operate in either pilot's seat prior to such assignment completes the appropriate training and checking program specified in the air operator's Operations Manual.
- (2) In developing the training and checking programs under sub-regulation (1), the air operator shall take into consideration the matters set out in Part I of Schedule 11.
- 249.** (1) In addition to meeting all applicable training and checking requirements of these Regulations, a pilot who, in the preceding ninety (90) days has not made at least three (3) take-offs and landings in the type of aircraft in which he is to serve, shall, under supervision of a check airman, re-establish recency of experience by making at least three (3) take-offs and three (3) landings in the type of aircraft on which such person is to serve, or in a flight stimulator.
- (2) When using a flight stimulator to accomplish any of the take-off and landing training requirements necessary to re-establish recency of experience, each flight crew position shall be occupied by an appropriately qualified pilot and the flight stimulator shall be operated as if in a normal in-flight environment without the use of the repositioning features of the flight stimulator.
- (3) A check airman who observes the take-offs and landings of a pilot shall certify, when he is satisfied, that the person being observed is proficient and qualified to perform flight duty in line flight operations.
- 250.** (1) An air operator shall ensure that a flight crew member does not operate more than one type or variant of aircraft unless he is competent to do so and has been approved by the authority to operate more than one type.
- (2) when considering operations of more than one type or variant of aircraft, an air operator shall ensure that the differences and similarities of the aircraft concerned, justify such operations, taking into account the following:
- (a) The level of technology;
 - (b) Operational procedures and;
 - (c) Handling characteristics.
- (3) An air operator shall ensure that a flight crew member operating more than one type or variant complies with all the requirements prescribed by the Act or Regulations made thereunder for each type

or variant of aircraft unless the authority has approved the use of credit related to the training, checking and recency requirements.

- (4) An air operator shall specify in his Operations Manual appropriate procedures and operational restrictions approved by the authority, for any operation on more than one type or variant covering-
 - (a) The minimum experience level of flight crew on type or variant before beginning training for and operation of another type or variant of aircraft;
 - (b) The process by which flight crew qualified on one type or variant of aircraft shall be trained and qualified on another type or variant of aircraft and;
 - (c) All applicable recency experience requirements for each type or variant of aircraft.

**Restrictions on
Operation of
Helicopters and
Aeroplanes**

- 251.** An air operator shall ensure that where a flight crew member is qualified to operate both helicopters and aeroplanes-
 - (a) his operation of such helicopters and aeroplanes is limited to one type of each; and
 - (b) appropriate procedures and operational restrictions, approved by the authority, are specified in the air operator's Operations Manual.

**Requirements for
the Maintenance
of Training Records**

- 252.** (1) An air operator shall maintain records of –
 - (a) all training and checking undertaken by; and
 - (b) the qualifications of, all flight and cabin crew members and Flight Operations Officers, which meet the requirements of the Act and Regulations made thereunder.
- (2) Records under the sub-regulation (1), shall be made available to the relevant crew member or Flight Operations Officer upon request.

**Requirement for
the Pairing of Low
Experience Crew
Members**

- 253.** (1) Where a co-pilot has fewer than one hundred (100) hours of flight time in the aircraft type being flown in commercial air transport operations, and the pilot-in-command is not an appropriately qualified check airman, the pilot-in-command shall make all take-offs and landings in situations designated as critical by the Authority.
- (2) A pilot-in-command, or co-pilot, shall not conduct commercial air transport operations in an aircraft in commercial air transport operations unless one of the two pilots has at least seventy-five (5) hours of line operating flight time, either as pilot-in-command or co-pilot.

- (3) Where an air operator wishes to deviate from sub-regulation (2), he shall follow the deviation procedures set out in the Civil Aviation General Application and Personnel Licensing Regulations.
- (4) Notwithstanding the sixty (60) days notification requirements under the Civil Aviation General Application and Personnel Licensing Regulations, where the Director General is in receipt of an application for a Deviation Certificate which requires the immediate implementation of the deviation and where he is satisfied that such deviation would not affect the safety of the flight, he may authorize a deviation from sub-regulation (2), by an appropriate amendment to the operations specifications.

Requirement of
Flight Engineer
Proficiency
Checks

- 254.** (1) A person shall not serve, and an air operator shall ensure that a person does not serve, as a Flight Engineer on an aircraft unless within the preceding six (6) calendar months he has-
- (a) successfully completed a proficiency check in accordance with the requirements prescribe by the authority; or
 - (b) recorded fifty (50) hours flight time for the air operator as flight engineer in the type aircraft.
- (2) The proficiency check required by this regulation shall include an examination of the procedures listed in Part J of Schedule 11.

Requirements for
Competency
Checks for Cabin
Crew

- 255.** (1) A person shall not serve as, and an air operator shall not use a person as, a cabin crew member unless, since the beginning of the twelfth (12th) calendar month before such service, such person has passed the competency check prescribed by the Authority for performing the emergency duties appropriate to the assignment of such person.
- (2) An air operator shall ensure that during or following completion of the required training, each cabin crew member undergoes a competency check covering the training received in order to verify proficiency in carrying out normal and emergency duties.
- (3) Competency checks under this regulation shall be performed by cabin crew instructors acceptable to the authority.
- (4) An air operator shall ensure that each cabin crew member undergoes checks for initial conversion, differences and recurrent training.
- (5) The competency check under this regulation shall test the cabin crew knowledge in the areas set out in Part K of Schedule 11.

Requirement
for Competency
Checks for
Flight
Operations

Requirements
for Supervised
Line Flying for
Pilots

Requirements
for Supervised
Line Flying for
Flight Engineers

Requirements
for Supervised
Line Experience
for Cabin Crew

256. (1) A person shall not serve as, and an air operator shall not use a person as, a Flight Operations Officer unless since the beginning of the twelfth (12th) calendar month before such service, such person has passed the competency check, prescribed by the Authority, for performing the flight preparation and supervision appropriate to the assignment of such person.

- (2) The competency check under this regulation shall be –
- (a) performed by a suitably qualified Flight Operations Officer Instructor acceptable to the Authority and;
 - (b) test the Flight Operations Officer on the areas specified in Part L of Schedule 11.

257. (1) A pilot initially qualifying as pilot-in-command shall operate a minimum of ten (10) sectors performing the duties of pilot-in-command under the supervision of a check airman.

- (2) A pilot-in-command transitioning to a new aircraft type shall complete a minimum of five (5) sectors performing the duties of a pilot-in-command under the supervision of a check airman.
- (3) A pilot qualifying for duties other than pilot-in-command shall complete a minimum of five (5) sectors performing those duties under the supervision of a check airman.
- (4) During the time that a qualifying pilot-in-command is acquiring operating experience, a check airman who is also serving as the pilot-in-command shall occupy a pilot seat.
- (5) In the case of pilot transitioning to pilot-in-command, a check airman serving as pilot-in-command shall occupy the observer's seat where –
- (a) The transitioning pilot has made at least two (2) take-offs and two (2) landings in the aircraft type used and;
 - (b) Has satisfactorily demonstrated to the check airman that he is qualified to perform the duties of a pilot-in-command for that aircraft type.

258. A person qualifying as a Flight Engineer for a particular aircraft type shall perform in such capacity for a minimum of five (5) flights under the supervision of a check airman.

259. (1) A person qualifying as a cabin crew shall perform in such capacity for a minimum of two (2) sectors under the supervision of a senior cabin crew.

(2) In qualifying as a cabin crew under sub-regulation (1), the areas of operations required for supervised line experience are set out in Part M of Schedule 11.

Familiarisation
Requirements
for Cabin Crew

260. An air operator shall ensure that cabin crew upon-

(a) completion of conversion training; and

(b) prior to operating as one of the minimum members of the required cabin crew, undergo aircraft familiarization training.

Line Observations
for Flight
Operations
Officers

261. A person shall not serve, and an air operator shall not use a person as, a Flight Operations Officer unless, since the beginning of the twelfth (12th) month before such service, such person has observed, in the cockpit, the conduct of a one-way flight over routes representative of those for which such person is assigned duties.

Route and Airport
Qualifications for
Pilot-in-command

262. (1) An air operator shall not utilize a pilot-in-command of an aircraft on a route segment for which such pilot is not currently qualified until such pilot has complied with this regulation.

(2) A pilot under sub-regulation (1), shall demonstrate to the air operator an adequate knowledge of-

(a) The route to be flown and the aerodromes which are to be used, including-

(i) the terrain and minimum safe altitudes;

(ii) the seasonal meteorological conditions;

(iii) the meteorological communication and air traffic facilities, services and procedures;

(iv) the search and rescue procedures and;

(v) the navigational facilities and procedures, including any long-range navigation procedures, associated with the route along which the flight is to take place; and

(b) Procedures applicable to flight paths over heavily populated areas and areas of high traffic density, obstructions, physical layout, lighting, approach aids and arrival, departure holding and instrument approach procedures, and applicable operating minima.

(3) Where a pilot-in-command has not made an actual approach into an aerodrome of landing on the route, an initial approach to such aerodrome by such pilot-in-command must be made with a pilot who is qualified for that aerodrome, as a member of the flight crew or an observer in the cockpit.

(4) The provisions of sub-regulation (3), in respect of the presence of a pilot who is qualified for the aerodrome shall not apply where-

- (a) the approach to the aerodrome is not over difficult terrain and the instrument approach procedures and aids available are similar to those with which the pilot is familiar, and a margin to be approved by the authority is added to the normal operating minima, or there is reasonable certainty that approach and landing can be made in visual meteorological conditions; or
 - (b) the descent from the initial approach altitude can be made by day in visual meteorological conditions or;
 - (c) the air operator qualifies the pilot-in-command to land at the aerodrome concerned by means of adequate pilot-in-command pictorial presentation or;
 - (d) the aerodrome concerned is adjacent to another aerodrome at which the pilot-in-command is currently qualified to land.
- (5) An air operator shall not continue to utilize a pilot-in-command on a route unless, within the preceding twelve (12) months, the pilot-in-command has made at least one (1) trip between the terminal points of that route as a pilot member of the flight crew, or as a check airman, or as an observer in the cockpit—
- (a) within the specified area; and
 - (b) if appropriate, on any route where procedures associated with that route, or with any aerodromes intended to be used for take-off or landing, require the application of special skills or knowledge.
- (6) Where a pilot-in-command has not within the preceding twelve (12) months made a trip under sub-regulation (5), on a route in close proximity and over similar terrain within such a specified area, route or aerodrome; and has not practiced the necessary procedures in a training device which is adequate for the purpose of training, prior to serving as pilot-in-command within that area or on that route, that pilot shall re-qualify in accordance with this regulation.
- (7) In addition to the records required under this regulation, an air operator shall maintain a record acceptable to the authority, of the qualification of the pilot-in-command and of the manner in which such qualification has been achieved for satisfying the requirements for this regulation.

Required Route
and Area
Checks for Pilot
Qualifications

- 263.** (1) A person shall not serve, and an air operator shall not use a person, as a pilot-in-command in commercial air transport operations unless, within the preceding twelve (12) months, such person has passed a route check in which he satisfactorily performed his assigned duties in one of the types of aeroplanes he is to fly.
- (2) A person shall not perform pilot-in-command duties in commercial air transport operations –

- Pilot-in-Command
Low Minimums
Authorisation
- (a) over a designated special operational area that requires a special navigation system or procedures or;
 - (b) in Extended Range Twin Engine Operations, unless his competency with the systems and procedures has been demonstrated to the air operator within the preceding twelve (12) months.
- (3) A pilot-in-command shall demonstrate special operational competency by navigation over the route or area as a pilot-in-command under the supervision of a check airman and on a continuing basis, on flights while performing duties as a pilot-in-command.
- 264.** (1) An air operator shall ensure that when planning for an instrument approach where the ceiling may be less than three hundred feet (300 ft) and the visibility may be less than one (1) statute mile, the pilot-in-command assigned on such flight has prior to flight performed fifteen (15) sectors performing pilot-in-command duties in the aircraft type which shall include five (5) approaches to land using Category I or Category II procedures.
- (2) A pilot-in-command shall not plan for, nor initiate, an instrument approach when the ceiling is less than three hundred feet (300 ft) and the visibility is less than one (1) statute miles, unless he has prior to such flight completed fifteen (15) sectors performing the duties of pilot-in-command in the aircraft type which included five (5) approaches to land using Category I and Category II procedures.
- (3) An air operator shall ensure that where planning for approach when the ceiling may be less than one hundred feet (100 ft) or the visibility may be less than one thousand, two hundred (1,200) Runway Visual Range, the pilot-in-command assigned to such flight has prior to the flight completed twenty (20) sectors performing pilot-in-command duties in the aircraft type which shall include five (5) approaches to land using Category III procedures.
- (4) A pilot-in-command shall not plan for, nor initiate, an approach when the ceiling is less than one hundred feet (100 ft) or the visibility may be less than one thousand, two hundred (1,200) feet Runway Visual Range unless he has prior to such flight completed twenty (20) sectors performing pilot-in-command duties in the aircraft type, which included completing five (5) approaches and landing using Category III procedures.

Required Pilot-in-command Qualifications for Designated Special Aerodromes and Heliports

- 265.** (1) A person shall not serve nor shall an air operator use a person as pilot-in-command in commercial air transport operations at designated special aerodromes and heliports unless within the receding twelve (12) months –
- (a) the pilot-in-command has received a briefing from the air operator on such operations for that aerodrome, through pictorial means acceptable to the authority or;
 - (b) The pilot-in-command or the assigned second in command has made a take-off and landing at that aerodrome while serving as a flight crew member for the air operator.
- (2) Designated special aerodrome and heliport limitations under sub-regulation (1), are not applicable where the operation will occur –
- (a) during daylight hours;
 - (b) when the visibility is at least three (3) statute miles; and
 - (c) when the ceiling at that aerodrome is at least one thousand feet (1,000 ft) above the lowest initial approach altitude prescribed for an instrument approach procedure.

Required Recurrent Training and Checking for Flight Crew Members

- 266.** (1) An air operator shall ensure that –
- (a) each flight crew member undergoes recurrent training and checking and that all such training and checking are relevant to the type or variant of aircraft on which such flight crew member operates;
 - (b) a recurrent training and checking program is established in the Operations Manual of the air operator and approved by the Authority;
 - (c) ground and recurrent training are conducted by suitably qualified personnel;
 - (d) emergency and safety equipment training is conducted by suitably qualified personnel;
 - (e) all personnel conducting recurrent training for crew are suitably qualified to integrate the elements of Crew Resource Management into such training;
 - (f) modular Crew Resource Management training is conducted by at least one (1) Crew Resource Management trainer, acceptable to the Authority, who may be assisted by experts in order to address specific specialized areas and;
 - (g) recurrent checking is conducted as follows:
 - (i) Operator proficiency check shall be conducted by a check airman trained in Crew Resource Management skills;
 - (ii) Line check shall be conducted by a suitably qualified pilot-in-command nominated by the air operator and acceptable to the Authority; and

(iii) Emergency and safety equipment checks shall be conducted by suitably qualified personnel.

(2) An air operator shall ensure that –

- (a) flight crew undergo proficiency checks of piloting technique and the ability to execute emergency procedures is such a way as to demonstrate the pilot's competence on each type or variant of a type of aeroplane or helicopter to assess competency in carrying out normal, abnormal and emergency procedures;
- (b) the proficiency check under paragraph (a) is conducted without external visual reference when the flight crew member will be required to operate under Instrument Flight Rules; and
- (c) flight crew undergo proficiency checks as part of a normal flight crew complement.

(3) Where the operation is conducted under instrument flight rules, an operator shall ensure that the competency of the pilot to comply with such rules is demonstrated to either a check pilot of the operator or a representative of the Authority.

(4) Where the operator schedules flight crew on several variants of the same type of aeroplane or helicopter or different types of aeroplanes or helicopters with similar characteristics in terms of operating procedures, systems and handling, the Director General shall decide under which conditions the requirements of sub-regulation (2) (a) for each variant or each type of aeroplane or helicopter can be combined.

(5) The period of validity of a proficiency check shall be six (6) months in addition to the remainder of the month in which the proficiency check expires.

(6) Where a proficiency check is done within the final three (3) months of validity of a previous proficiency check, the period of validity for the new proficiency check shall extend from the date of issue until six (6) months from the expiry date of that previous proficiency check.

(7) A proficiency check shall be performed twice within any period of one (1) year and any two (2) such checks which are similar and which occur within a period of four (4) consecutive months shall not alone satisfy this requirement.

(8) An air operator shall ensure that each flight crew member undergoes a line check on the aircraft to demonstrate his

competence in carrying out normal line operations as described in the Operations Manual of the air operator.

- (9) The period of validity of a line check under sub-regulation (5), shall be the remainder of the month of which such check is issued plus twelve (12) months thereafter.
- (10) Where a new line check is done within the final three (3) months of validity of a previous line check, the period of validity of the new line check shall extend from the date of issue until twelve (12) months from the expiry date of the previous line check.
- (11) An air operator shall ensure that each crew member undergoes training and checking on the location and use of all emergency and safety equipment carried.
- (12) The period of validity of an emergency and safety equipment check under sub-regulation (8), shall be the remainder of the month in which the check is issued plus twelve (12) months thereafter.
- (13) Where an emergency and safety equipment check is done within the final three (3) months of validity of a previous emergency and safety check, the period of validity of the new emergency and safety equipment check shall extend from the date of issue to twelve (12) months from the expiry date of that previous emergency and safety equipment check.
- (14) An air operator shall ensure that –
 - (a) elements of Crew Resource Management training are integrated in all appropriate phases of the recurrent training;
 - (b) each flight crew member undergoes specific modular Crew Resource Management training; and
 - (c) all major topics of Crew Resource Management Training shall be covered over a period not exceeding three (3) years.
- (15) An air operator shall ensure that each flight crew member undergoes appropriate recurrent training every twelve (12) months.
- (16) Where the training under sub-regulation (12), is conducted within three (3) months prior to the expiry of the twelve (12) months period, the next recurrent training shall be completed within twelve (12) months of the original expiry date of the previous ground and recurrent training.

- Recurrent Training for Cabin Crew
- (17) An air operator shall ensure that each flight crew member undergoes flight training in an aircraft or flight stimulator every twelve (12) months.
 - (18) Where the training under sub-regulation (14), is conducted within three (3) months prior to the expiration of the previous twelve (12) months period, the next flight training shall be completed within twelve (12) months of the original expiration date of the previous flight training.
 - (19) Recurrent training for flight crew required by this regulation shall meet the requirements of Part N of Schedule 11.
- 267.** (1) An air operator shall ensure that each cabin crew member undergoes recurrent training and checking covering the actions assigned to each crew member in normal and emergency procedures and drills relevant to the type and variant of aircraft on which he operates.
- (2) An air operator shall ensure that the recurrent training and checking program is approved by the Authority and includes theoretical and practical instructions, together with individual practice.
- (3) The period of validity of recurrent training and the associated checking shall be the remainder of the month in which the training occurs plus twelve (12) months thereafter.
- (4) Where a check was done within the final (3) months of validity of a previous check, the period of validity of the new check shall extend from the date of issue until twelve (12) months from the expiration of that previous check.
- (5) An air operator shall ensure that all recurrent training and checking for cabin crew is conducted by suitably qualified cabin crew.
- (6) A cabin crew shall undergo recurrent training and emergency procedures and drills relevant to his assigned positions and type and variant of aircraft on which he operates on the areas and for the intervals set out in Part O of Schedule 11.
- 268.** (1) An air operator shall ensure that each cabin crew member who has been absent from all flying duties for more than six (6) months, and still remains within the period of validity of the previous check, completes recurrent training specified in the air operator's Operations Manual.
- (2) An air operator shall ensure that when a cabin crew member who, during the preceding six (6) months has not undertaken duties as a
- Refresher Training for Cabin Crew
Recurrent Training is still Valid

cabin crew member on a particular type of aircraft, before undertaking such duties on that aircraft type such a cabin crew member –

- (a) completes recurrent training on the type; or
- (b) operates two (2) re-qualification sectors.

(3) An air operator shall ensure that recurrent training is conducted by suitably qualified persons and, for each cabin crew member, includes at least the following:

- (a) Emergency procedures including pilot incapacitation;
- (b) Evacuation procedures including crowd control techniques;
- (c) The operation and actual opening of all normal and emergency exists for passenger evacuation in an aircraft or representative training device;
- (d) Demonstration of the operation of all other exits including flight deck windows; and
- (e) The location and handling of emergency equipment, including oxygen systems, and the donning of life vests, portable oxygen and protective breathing equipment.

Required Recurrent
Training for Flight
Operations Officers

269. (1) A person shall not serve as, and an air operator shall not use a person in commercial air transport operations as, a Flight Operations Officer unless within the preceding twelve (12) months that person has completed the recurrent ground training program approved by the Authority.

(2) The recurrent ground training program under sub-regulation (1), shall include training on –

- (a) aircraft-specific flight preparation;
- (b) emergency assistance to flight crew;
- (c) crew resource management; and
- (d) recognition of, and transportation of, dangerous goods.

(3) An air operator shall ensure that all recurrent ground training is conducted by a suitably qualified Flight Operations Officer.

Required Flight
Instructor Training

270. (1) A person shall not serve, and an air operator shall not use a person in commercial air transport operations, as a Flight Instructor unless he –

- (a) Holds a Flight Instructor Rating under the Civil Aviation Personnel Licensing Regulations;
- (b) Meets the following requirements:
 - (i) Holds the pilot license and rating required to serve as a pilot-in-command or a Flight Engineer;

- (ii) Has satisfactorily completed the appropriate training phase for the aircraft, including recurrent training, that are required in order to serve as pilot-in-command or Flight Engineer;
- (iii) Has satisfactorily completed the appropriate proficiency, competency and recency of experience checks that are required to serve as a pilot-in-command or Flight Engineer;
- (iv) Has satisfactorily completed the applicable initial or transitional training requirements and the in-flight competency check and;
- (v) Holds the appropriate medical certificate.
- (2) an air operator shall ensure that a person meeting the requirements of sub-regulation (1)(b) completes the requirements set out in Part P of Schedule 11.

Qualification
Requirements for
Flight Instructors

271. An air operator shall not use a person, nor may any person serve as a Flight Instructor in an approved training program unless, with respect to the aircraft type involved, that person –

- (a) Holds the airman licence and rating required to serve as a pilot-in-command or a flight engineer, as applicable;
- (b) has satisfactorily completed the appropriate training phases for the aircraft, including recurrent training, that are required to serve as a pilot-in-command or flight engineer, as applicable;
- (c) has satisfactorily completed the appropriate proficiency, competency and recency of experience checks that are required to serve as a pilot-in-command or flight engineer, as applicable;
- (d) has satisfactorily completed the applicable initial or transitioning training requirements and the Authority has observed an in-flight competency check and;
- (e) holds at least a Class III medical certificate unless serving as a required flight crew member, in which case holds a Class I or a Class II medical certificate as appropriate.

Restrictions on
Use of Person as
Check Airman

272. (1) A person shall not serve, and an air operator shall not use a person, as a check airman unless he has completed the curricula approved by the authority for those functions for which he is to serve.

(2) An air operator shall ensure that the initial and transition training for a check airman under sub-regulation (1), includes the areas set out in Part Q of Schedule 11.

Restrictions on
Use of Check
Airman

273. Subject to regulations 273 and 274, a person shall not serve, nor may any air operator use a person, as a check airman for any flight check unless that person has been designated by such air operator and

approved by the Authority as a check airman for a specific function, within the preceding twelve (12) months.

Required Check
Airman
Qualifications

274. A person shall not serve, and an air operator shall not use a person, as a check airman in an established training program unless, with respect to the aircraft type involved, such person –

- (a) holds the pilot licences and ratings required to serve as a pilot-in-command or a Flight Engineer;
- (b) has satisfactorily completed the appropriate training phases for the aircraft, including recurrent training, that are required to serve as a pilot-in-command or Flight Engineer;
- (c) has satisfactorily completed the appropriate proficiency, competency and recency of experience checks that are required to serve as a pilot-in-command or Flight Engineer;
- (d) has satisfactorily completed the applicable training requirements and the Authority has observed an in-flight competency check;
- (e) holds the appropriate medical certificate; and
- (f) has been approved by the authority for the check airman duties involved.

Check Airman
Limitations

275. A person shall not serve, nor shall any air operator use a person, as a check airman on commercial air transport operations for any check –

- (a) in an aircraft as a required flight crew member unless that person holds the required pilot licences and ratings and has completed all applicable training, qualification and currency requirements of these Regulations applicable to the crew position and the flight operations being checked;
- (b) in an aircraft as an observer check airman, unless such person holds the pilot licences and ratings and has completed all applicable training, qualification and line observation requirements of these Regulations applicable to the position and the flight operations being checked; or
- (c) in a flight stimulator, unless such person has completed or observed all training, qualification and line observation requirements of these regulations applicable to the position and flight operations being checked.

Substitution of
Simulation
Experience

Required line
Qualification for
Check Airman
and Instructor

Termination of a
Proficiency,
Competence or
Line Check

Recording of
Crew Member
Qualifications

Monitoring of
Training and
Checking Activities

- 276.** (1) An air operator shall not use a flight simulator for training and checking unless such flight simulator has been specifically approved for the air operator in writing, by the Authority.
- (2) An air operator shall not use a flight simulator for any purpose other than that specified in the approval given by the Authority.
- 277.** A person shall not serve, nor shall any air operator use a person, as a check airman or Flight Simulator Instructor in commercial air transport operations unless, since the beginning of the twelfth (12th) month before that service, such person has –
- (a) flown at least five (5) sectors as a required crew member for the type of aircraft involved; or
 - (b) observed, on the flight deck, the conduct of two (2) complete flights in the aircraft type to which the person is assigned.
- 278.** Where it is necessary to terminate a check for any reason, an air operator shall not use the crew member or Flight Operations Officer involved in such check in commercial air transport operations until the completion of a satisfactory re-check.
- 279.** (1) The air operator shall record in his records for each crew member and Flight Operations Officer, the completion of each of the qualifications required by these Regulations in a manner acceptable to the Authority.
- (2) A pilot may complete the curricula required by these Regulations concurrently or intermixed with other required curricula, but completion of each curriculum shall be recorded separately and in sufficient detail to satisfy the Authority.
- 280.** (1) To enable adequate supervision of his training and checking activities, an air operator shall forward to the Authority at least seven days prior to the scheduled activity, the dates, times and location of all –
- (a) training in the training program of the air operator which required the approval of the Authority; and
 - (b) proficiency, competency and line checks.
- (2) Failure to provide the information required by sub-regulation (1), may invalidate the training or check and the Authority may require that it be repeated for observation purposes.

- 281.** (1) An air operator may submit a request to the Director General in writing for the reduction or waiver of any training requirement or portion thereof, and such request shall be accompanied by a detailed justification.
- (2) The Director General may, on receipt of a request under sub-regulation (1), authorise the reduction in, or waiver of, certain portions of the training requirements of this Part, taking into account the previous experience of the crew members.
- (3) Where a request under sub-regulation (1), is for a specific crew member, the written authorization, including the supporting justification, shall be filled in the records which the national air operator maintains for that crew member.

PART XI

CREW AND FLIGHT DUTY LIMITATIONS

- 282.** (1) This part applies in relation to any duty carried out on behalf of an air operator by both flight crew and cabin crew as applicable.

(2) In this Part –

“crew” means flight crew and cabin crew;

“day” means the period of elapsed time using Coordinated Universal Time (UTC) or local time that begins at midnight and ends twenty-four (24) hours later at the next midnight;

“dispatch crew” means a fully qualified crew member authorized to carry out pre-flight duties as defined by the air operator.

“duty” means any continuous period during which a crew member is required to carry out any task associated with the business of the air operator;

“fatigue” means the physiological state of reduced mental or physical performance capability resulting from sleep loss or extended wakefulness, circadian phase, workload that includes mental and physical activity, that can impair a crew member’s alertness and ability to safely operate an aircraft or perform safety-related duties;

“minimum rest period” means a period during which a crew member is free from all duties, is not interrupted by the national air operator and is provided with an opportunity to obtain not less than eight (8) consecutive

hours of uninterrupted prone rest in suitable accommodation, time to travel to and from that accommodation and time for personal hygiene and meals and where applicable, time to check-in and out of accommodation;

“positioning” means the practice of transferring crew from place to place as passengers in surface or air transport on behalf of the air operator;

“reporting time” means the time at which a crew member is required by the air operator to report for any duty;

“reserve duty” means a period during which the air operator requires a crew member who would otherwise be off duty to be available to assume duty where necessary;

“rest period” means the period of time before starting a flight duty period that is designed to give crew members adequate opportunity to rest before a flight;

“rostered duty” means the duty period or series of duty periods, with stipulated start and finish times, notified by the national air operator to crews in advance;

“scheduled duty” means the allocation of a specific flight or flights or other duties to a crew member within the pre-notified rostered series of duty periods;

“sector” means a period of flight time when an aircraft first moves under its own power until it next comes to rest at the designated parking position after landing;

“split duty” means a flying duty period which consists of two (2) or more sectors separated by a period less than a minimum rest period;

“standby crew” means a crew member who has been designated by an air operator to remain at a specific location in order to be available to report for flight duty on notice of one (1) hour or less;

“suitable accommodation” means a furnished bedroom which is subject to minimum noise, is well ventilated and has the facility to control the levels of light and temperature and;

“travelling” means all time spent by a crew member transiting between the place of rest and the place of reporting for duty and shall not count as duty time.

(3) This Part shall not apply to a flight conducted in an aircraft of which the maximum total weight does not exceed one thousand, six hundred kilograms (1,600 kg) and which is not flying for the purposes of commercial air transport or aerial work.

- 283.** (1) An air operator shall not cause or permit an aircraft to make a flight unless –
- (a) he has established a scheme for the regulation of flight times for every person flying in such aircraft as a member of its crew;
 - (b) the scheme under paragraph (a) is approved by the authority and subject to such conditions as the authority thinks fit;
 - (c) the scheme under paragraph (b) is incorporated in the Operations Manual of the air operator; and
 - (d) He has taken steps to ensure that the provisions of the scheme under paragraph (b) shall be complied with by every person flying in that aircraft as a member of its crew.
- (2) A crew member shall not fly, and an air operator shall not require him to, where either has reason to believe that such crew member is suffering or likely to suffer while flying, from such fatigue as may endanger the safety of the aircraft or its occupant.
- (3) A crew member shall inform the air operator of all flying undertaken so that the cumulative flight and duty times can be assessed against the limitations contained in these Regulations.
- (4) An air operator shall publish crew rosters in advance to allow operating crews to plan adequate pre-duty rest.
- (5) The air operator and crew members are jointly responsible for the proper control of flight and duty times.
- (6) Crew members have the responsibility to make optimum use of the opportunities for rest facilities provided, and for planning and using their rest periods properly in order to minimize the risk of incurring fatigue.
- (7) A crew member shall not act as a member of an operating crew where he knows or suspects that his physical or mental condition renders him unfit to perform his duties.

- 284.** (1) An air operator shall establish a system to monitor the flight time, flight duty time and rest periods of each of his crew and shall include in his Operations Manual the details of such system.
- (2) Where a person becomes aware that an assignment by an air operator to act as a crew member on a flight would result in the maximum flight time referred to in regulations 285 or the maximum flight duty time referred to in regulations 286 being exceeded, the person shall so notify the air operator.

Flight Time
Limitations

- 285.** (1) Subject to subsection (2), an air operator shall not assign flight time to a flight crew member and a flight crew member shall not accept such an assignment where at the beginning of the flight, the aggregate of all his previous flight times will, as a result exceed –
- (a) One hundred (100) hours in any twenty-eight (28) consecutive days;
 - (b) One thousand (1,000) hours in any three hundred and sixty-five (365) consecutive days and;
 - (c) Eight (8) hours in any twenty-four (24) hours where the flight crew member conducts single-pilot consecutive hours Instrument Flight rules or single pilot helicopter flight.
- (2) Notwithstanding the requirements outlined in sub-regulation (1), an air operator may assign a flight crew member for flight time, and a flight crew member may accept such an assignment, where the increase in flight time is approved by the Authority as a part of a Crew Duty Scheme..
- (3) Subject to Regulation 289, a flight crew member who reaches a flight time limitation established by this regulation shall not continue on flight duty or be reassigned to flight duty until such time as the flight crew member has had the rest period required by regulation 286(4).

Flight Duty
Limitations and
Rest Periods

- 286.** (1) Subject to regulations 287 through 289, an air operator shall not assign a crew member for flight duty time and a crew member shall not accept such an assignment, where the crew member's flight duty time will, as a result, exceed fourteen (14) consecutive hours in any twenty-four (24) consecutive hours.
- (2) A crew member shall receive at least twenty-four (24) consecutive hours free from flight duty following three (3) consecutive flight duty time assignments that exceed twelve (12) consecutive hours unless the crew member has received at least twenty-four (24) consecutive hours free from flight duty between each of the three (3) consecutive flight duty time assignments.
- (3) Following a flight duty time assignment, an air operator shall provide a crew member with the minimum rest period and any additional rest period required by these Regulations.

- (4) The minimum rest period for crew shall be –
- (a) At least as long as the preceding duty period or;
 - (b) Such as to allow the crew member to have a minimum of eight (8) hours of prone rest opportunity in suitable accommodation, whichever is greater.
- (5) In computing the minimum rest at sub-regulation (4) (b), the air operator shall take into consideration –
- (a) expected travel times to and from the rest facility;
 - (b) hotel check-in and check-out time; and
 - (c) time for personal hygiene and meals, so as to allow eight (8) consecutive hours of prone rest opportunity in suitable accommodation.
- (6) Where any of the variables under sub-regulation (5), is longer than expected or there is a further delay in crews being afforded the required eight hours prone rest opportunity, the minimum rest shall be increased accordingly.
- (7) A pilot-in-command may, at his discretion, and after taking note of the circumstances of other members of the crew, reduce the rest period under sub-regulation (4).
- (8) The rest period under sub-regulation (7) shall not be less than (10) hours.
- (9) The exercise of his discretion under sub-regulation (7), by the pilot-in-command shall be exceptional and shall not be used to reduce successive rest periods.
- (10) Where the preceding flight duty period was extended, the rest period may be reduced under sub-regulation (7), provided the subsequent flight duty period is also reduced by the same amount.
- (11) The maximum flight duty hours for cabin crew shall not exceed –
- (a) Sixty (60) hours in one (1) week but may be increased to sixty-five (65) hours when a rostered duty covering a series of duty periods, once commenced, is subject to unforeseen delays;
 - (b) One hundred and five (105) hours in any two (2) consecutive weeks or;
 - (c) Two hundred and ten (210) hours in four (4) consecutive weeks.
- (12) Notwithstanding sub-regulation (1), the flight duty time applicable to cabin crew may be one (1) hour greater than for flight crew.

- (13) An air operator may, where a flight is conducted using an aircraft other than a helicopter, and the number of cabin crew is increased by the addition of at least one (1) qualified cabin crew more than the minimum complement required, extend the flight duty time of such cabin crew on duty to sixteen (16) consecutive hours.
- (14) An air operator may, where a flight is conducted using an aircraft other than a helicopter, and the cabin crew number is increased by the addition of at least two (2) qualified cabin crew more than minimum complement required, extend the flight duty time of such cabin crew on duty to seventeen (17) consecutive hours.

Extension of Flight Duty Time by Split Duty

- 287.** (1) Where flight duty time includes a rest period, such flight duty time may be extended beyond the maximum flight duty time referred to in Regulation 286 (1) by one-half the length of the rest period to a maximum of three (3) hours, where –
- (a) The air operator provides the crew member with advance notice of the extension of flight duty time;
 - (b) The air operator provides the crew member with a rest period of at least four (4) consecutive hours in suitable accommodation and;
 - (c) The rest of the crew member is not interrupted by the air operator during the rest period.
- (2) The minimum rest period following flight duty time referred to in regulation 286 (10 and prior to the next flight duty time shall be at least as long as the preceding duty period.

Extension of Flight Duty by Crew Augmentation

- 288.** (1) The air operator may, where a flight is conducted using an aircraft other than a helicopter, and the number of flight crew is increased by the addition of at least one (1) qualified flight crew member, extend the flight duty time to fifteen (15) consecutive hours if –
- (a) The additional flight crew member occupies a flight deck observer seat during take-offs and landings unless the observer seat is required by an Inspector in which case, a passenger seat shall be made available for the flight crew member and;
 - (b) The subsequent minimum rest period is increased by at least two (2) hours.
- (2) Where the flight crew complement is increased by the additional of at least one (1) flight crew member and a flight relief facility is provided, the division of duty and rest shall be balanced between the flight crew members.
- (3) The flight duty time under sub-regulation (2), may be extended to –

- (a) seventeen (17) consecutive hours, where the flight relief facility is a seat, in which case the maximum flight deck duty time for any flight crew member shall be twelve (12) hours; or
 - (b) twenty (20) consecutive hours, where the flight relief facility is a bunk in which case the maximum flight deck duty time for any flight crew member shall be fourteen (14) hours; and
 - (c) a maximum of three (3) sectors.
- (4) The subsequent minimum rest period under this regulation shall be equal to the length of the preceding flight duty time.
- (5) Where a flight crew is increased by the addition of at least one (1) flight crew member in accordance with sub-regulation (1) or (2), the total flight time accumulated during the flight shall be logged by all flight crew members for the purposes of calculating the maximum flight times in regulations 285.

Unforeseen
Operational
Circumstances

- 289.** (1) Flights shall be planned to be completed within the maximum flight time and maximum flight duty time taking into account –
- (a) the time necessary for pre-flight and post-flight duties;
 - (b) the sector time or times of the series of sectors comprising the flight;
 - (c) the forecast weather;
 - (d) turn-around time or times; and
 - (e) the nature of the operation.
- (2) The maximum flight duty time referred to in Regulations 286 (1) may be exceeded by a maximum of two (2) hours where –
- (a) The flight is extended as a result of unforeseen operational circumstances, such as –
 - (i) un-forecast weather;
 - (ii) an equipment malfunction; or
 - (iii) air traffic control delay, that is beyond the control of the air operator.
 - (b) The pilot-in-command, after taking note of the flight and duty time circumstances of the other crew members, considers it safe to exceed the maximum flight time and flight duty time.
- (3) When flight duty time is extended –
- (a) the subsequent minimum rest period for the crew shall be at least as long as the preceding duty period;
 - (b) the pilot-in-command shall notify the air operator, in accordance with procedures outlined in the Operations Manual of the air operator, of the length of and the reason for the extension;

Delayed
Reporting Time

Requirements for
Time Free from
Duty

Positioning Time
to Count as Duty
Time

- (c) The air operator shall retain the notifications until the completion of the next audit and;
- (d) The air operator shall notify the authority on the appropriate form within fourteen (14) days of the return to base of the aircraft.

290. Where a crew member is notified of a delay in reporting time before leaving a rest facility and the delay is in excess of three (3) hours, the flight duty time of the crew member is considered to have started three (3) hours after the original reporting time.

291. (1) An air operator shall provide each crew member with time free from duty amounting to one (1) period of at least thirty-six (36) consecutive hours within each seven (7) consecutive days.

(2) Where a crew member is a crew member on reserve, an air operator shall provide him with time free from duty amounting to one (1) period of at least thirty-six (36) consecutive hours within each seven (7) consecutive days.

(3) An air operator shall notify a flight crew member on reserve of the commencement and duration of his time free from duty.

292. (1) Where crew spends time performing required positioning responsibilities, all the time spent on such responsibilities shall count as duty time.

(2) The flight duty period commences at the time at which the crew member reports for the positioning journey.

(3) A flight duty period may include –

(a) positioning; and

(b) any form of ground duty and standby duty at an airport which preceded flying duty and shall be subject to maximum allowable flight duty period limits specified.

(4) Positioning and ground duties immediately following a flying duty shall not be part of the flight duty period but shall count in computing the length of the subsequent rest period.

(5) The time spent between reporting for a flight and the completion of post flight tasks shall determine the length of the subsequent rest period.

Other Flight Crew
Members to
Inform of Other
Times of Flying

293. (1) A flight crew member shall inform the air operator and any other employer of his services as a flight crew member, of all flight times and flying duty periods undertaken, whether professionally or privately.

(2) The flight times and flight duty period required to be reported under sub-regulation (1), shall not include flight in aircraft not exceeding one thousand, six hundred kilograms (1,600 kg) maximum weight, or flying for purposes other than commercial air transport operations or aerial work.

(3) Aerial work under sub-regulation (2) shall include –

(a) flying instruction for which the pilot is remunerated and;

(b) where valuable consideration is given specifically for flying instruction.

(4) An air operator shall ensure that a pilot employed as a member of a flight crew shall not exceed the flight time limitation prescribed by these Regulations.

(5) A pilot under sub-regulation (2) shall ensure that his flight time with the air operator plus any other flight time he accumulates shall not exceed any flight time limitations prescribed by these Regulations.

Requirements for
Flight Crew
Members on
Reserve

294. (1) An air operator shall within each twenty-four (24) hour period of operations provide crew members on reserve during such twenty-four (24) hour period, an opportunity to obtain at least eight (8) consecutive hours sleep.

(2) In reserving crew members for duty an air operator may –

(a) provide the crew member with twenty-four (24) hours' notice of the time of commencement and duration of the rest period to ensure that the designated rest period, is not shifted more than three (3) hours earlier or later than the corresponding time of the preceding designated or actual rest period in the preceding twenty-four (24) hours, nor more than a total of eight (8) hours in any seven (7) consecutive days;

(b) provide the crew member a minimum of ten (10) hours' notice of the assignment and shall not assign him to any duty for these ten (10) hours; or

(c) not assign the crew member to flight duty time or interrupt his rest period between 22:00 and 06:00 local time.

(3) Where an air operator is unable to provide a crew member with a rest period required by sub-regulation (1), and the crew member is

notified to report for flight duty or the reporting time occurs between 22:00 and 06:00 local time –

- (a) the maximum flight duty time shall be ten (10) consecutive hours; and
- (b) the subsequent minimum rest period shall be increased by at least one half of the length of the preceding flight duty time.

(4) An air operator shall outline in his operations manual a method for ensuring compliance with these Regulations.

Requirements for Flight Crossing more than Four Time Zones

295. (1) A flight or series of flights which terminates more than four (4) one-hour time zones from the point of departure, shall be limited to three (3) sectors and shall be followed by a rest period that is at least equal to the length of the preceding flight duty period.

(2) Where a flight referred to in sub-regulation (1), is a transoceanic flight, only one (1) sector may be completed after such transoceanic sector.

(3) An unscheduled technical stop shall not be included in computing the number of sectors for a transoceanic flight.

Example of Flight and Duty Time Schemes

296. Flight duty time schemes for aeroplane and helicopter operations shall be in the manner set out in Schedule 10, as applicable to the operations.

PART XII **COMMERCIAL AIR TRANSPORT** **FLIGHT RELEASE**

Applicability of Part XII

297. This part prescribes the requirements for a person designated by an air operator to issue a flight release.

Qualified Persons Required for Operational Control Functions

298. (1) An air operator shall assign a qualified person to exercise the functions and responsibilities for operational control of each flight operated in commercial air transport by that operator.

(2) Where the approved method of control and supervision of flight operations of an air operator requires the use of a flight operations officer, the operator shall delegate the responsibility for operational control only to the pilot-in-command and a flight operations officer.

(3) An air operator shall ensure that –

- (a) for passenger-carrying flights conducted on a published schedule, a person holding a Flight Operations Officer Authorization issued

in accordance with the Civil Aviation General Application and Personnel Licensing Regulations, or a person with equivalent qualification shall be on-duty at an operations base to perform the operational control function; and

(b) Ffr all other flights, the qualified person exercising operational control responsibilities shall be available for consultation prior to, during and immediately following the flight operation.

- (4) The pilot-in-command shall for all flights share the responsibility for operational control of the aircraft and has the authority to make decisions regarding operational control issues in flight.
- (5) Where a decision of the pilot-in-command differs from that recommended by the Flight Operations Officer or person with equivalent qualification such Flight Operations Officer or person shall make a record of the associated facts.

Restrictions on
Flight Operation
Officer or Flight
Dispatcher

- 299.** (1) An air operator shall ensure that a flight operations officer shall not be assigned to duty unless that officer has satisfactorily completed an operator specific training course that addresses all the specific components of its approved method of control and supervision of flight operations, and has -
- (a) made within the preceding twelve (12) months, at least a one-way qualification flight, including landings at as many aerodromes as practicable, on the flight deck of an aircraft over any area in which that individual is authorized to exercise flight supervision;
 - (b) demonstrated to the air operator adequate knowledge of -
 - (i) the contents of his Operations Manual;
 - (ii) the radio equipment in the aircraft used;
 - (iii) the navigation equipment in the aircraft used; and
 - (c) demonstrated to the air operator knowledge of the following details concerning operations for which the officer is responsible and areas in which that individual is authorized to exercise flight supervision:
 - (i) the seasonal meteorological conditions and the sources of meteorological information;
 - (ii) the effect of meteorological conditions on radio reception in the aircraft used;
 - (iii) the peculiarities and limitations of each navigation system which is used by the air operator and;
 - (iv) the aircraft loading instructions;
 - (d) demonstrated to the air operator knowledge and skill related to human performance relevant to the duties of a Flight Operations Officer; and

- (e) demonstrated to the air operator the ability to perform the duties of a Flight Operations Officer specified in these Regulations.
- (2) An air operator shall ensure that a Flight Operations Officer who is assigned to flight supervision duties maintains complete familiarization with all features of the operations which are pertinent to his duties, including knowledge and skill related to human performance.
- (3) An air operator shall ensure that a Flight Operations Officer is not assigned to duty after twelve (12) consecutive months of absence from such duty unless the appropriate retraining is accomplished.
- 300.** (1) A Flight Operations Officer or person holding the equivalent qualification, in exercising responsibility for operational control of an air operator shall –
- (a) authorize the specific flight operation;
 - (b) ensure that an airworthy aircraft, properly equipped for the flight, is available;
 - (c) ensure that qualified personnel and adequate facilities are available to support and conduct the flight;
 - (d) ensure that proper flight planning and flight preparation is carried out;
 - (e) ensure that flight locating and flight following procedures are followed; and
 - (f) for scheduled, passenger-carrying flights, ensure the monitoring of the progress of the flight and the provision of information that may be necessary to safety.
- (2) An air operator shall ensure that for passenger-carrying flights conducted on a published schedule, the Flight Operations Officer using a method of control and supervision of flight operations shall –
- (a) assist the pilot-in-command in flight preparation and provide the relevant information;
 - (b) assist the pilot-in-command in preparing the operational and Air Traffic Control flight plans;
 - (c) sign the dispatch copy of the flight release; and
 - (d) furnish the pilot-in-command while in flight, by appropriate means, with information which may be necessary for safe conduct of the flight.
- (3) In the event of an emergency a flight operations officer performing the operational control duties shall –

- (a) initiate such procedures as are outlined in the operations manual while avoiding taking action that would conflict with Air Traffic Control procedures; and
 - (b) convey safety-related information to the pilot-in-command that may be necessary for the safe conduct of the flight, including information related to any amendment to the flight plan that may become necessary in the course of the flight.
- (4) A Flight Operations Officer performing the operational control duties shall avoid taking any action that would conflict with the procedures established by –
- (a) air traffic control;
 - (b) the meteorological service;
 - (c) the communications service; or
 - (d) the air operator.
- (5) Where a flight operations officer performing the operational control duties first becomes aware of an emergency situation which endangers the safety of the aircraft or persons, he shall, in addition to taking the actions required by sub-regulation (2), without delay notify the appropriate authorities of the nature of the situation and request assistance, where required.

Contents of a
Flight Release or
Operational
Flight Plan

301. An air operator shall ensure that the flight release or operational flight plan when used as a flight release document contains at least the following information concerning each flight:

- (a) The company or organization name;
- (b) Make, model and registration number of the aircraft being used;
- (c) The flight or trip number, and date of flight;
- (d) The name of each crew member;
- (e) The departure aerodrome, destination aerodromes, alternate aerodromes and routes;
- (f) The minimum fuel on board, in imperial or metric measurements;
- (g) A statement of the type of operation such as Instrument Flight Rules or Visual Flight Rules;
- (h) The latest available weather reports and forecasts for the destination aerodrome and alternate aerodromes; and
- (i) Any additional available weather information that the pilot-in-command considers necessary.

Requirements of
Aircraft Release

302. (1) An air operator shall ensure that a flight release for a commercial air transport operation is not issued unless the aircraft is airworthy and properly equipped for the intended flight operation.

(2) An air operator shall ensure that a flight release for a commercial air transport operation using an aircraft with inoperative instruments and equipment installed is not issued, except as specified in the Minimum Equipment List approved for air operator for that type aircraft.

Required
Facilities and
Notices to
Airman for Flight
Release

303. (1) An air operator shall ensure that an aircraft over any route or route segment is not issued a flight release unless there are adequate communications and navigational facilities in satisfactory operating condition as necessary to conduct the flight safely.

(2) A Flight Operations Officer or person holding equivalent qualification shall ensure that the pilot-in-command is provided with all available current reports or information on aerodrome conditions and irregularities of navigation facilities that may affect the safety of the flight.

(3) A Flight Operations Officer or person holding equivalent qualification shall ensure that a pilot-in-command is provided with all available Notices to Airmen with respect to the routing, facilities and aerodromes for his review of the operational flight plan.

Weather Reports
and Forecasts
Required for Flight
Release

304. (1) A Flight Operations Officer or a person hold equivalent qualification shall not release a flight unless he is thoroughly familiar with all reported and forecasted weather conditions on the route to be flown.

(2) A Flight Operations Officer or a person holding equivalent qualification shall not release a flight unless he has communicated all information and concerns he may have regarding weather reports and forecasts to the pilot-in-command.

Procedures for
Flight Release in
Icing Conditions

305. (1) A Flight Operations Officer or a person holding equivalent qualification shall not release an aircraft, when in his opinion or that of the pilot-in-command, expected or actual icing conditions exceed that for which the aircraft is certified and has sufficient operational de-icing or anti- icing equipment.

(2) An air operator shall ensure that an aircraft is not released when the weather conditions are such that frost, ice, or snow, may be reasonably be expected to adhere to the aircraft, unless there is available to the pilot-in-command at the aerodrome of departure,

adequate facilities and equipment to accomplish the ground de-icing and anti-icing procedures approved for the air operator by the Authority.

- (3) An air operator shall ensure that before an aircraft is released in icing conditions the requirements set out in Schedule 13 are met.

Flight Release
under Visual Flight
Rules or
Instrument Flight
Rules

Required
Minimum Fuel
Supply for Flight
Release

Aircraft Loading
and Performance
Requirement for
Flight Release

Amendment or
Re-release En-
Route
Requirements for
Flight Release

- 306.** An air operator shall ensure that a flight is not released under Visual Flight Rules or Instrument Flight Rules unless the weather reports and forecasts indicate that the flight can reasonably be expected to be completed as specified in the release.

- 307.** (1) An air operator shall ensure that a flight release is not issued for a commercial air transport operation unless the fuel on board specified in the release is equivalent to or greater than the minimum flight planning requirements of these Regulations, including anticipated contingencies.
 (2) An air operator shall issue operating instructions and provide information on aircraft climb performance with all engines operating to enable the pilot-in-command to determine the climb gradient that can be achieved during the departure phase for the existing take-off conditions and intended take-off technique.

- 308.** A Flight Operations Officer or a person holding equivalent qualifications shall not issue a flight release unless he is familiar with the anticipated loading of the aircraft and is reasonably certain that the proposed operation shall not exceed the –
 (a) center of gravity limits;
 (b) aircraft operating limitations; and
 (c) minimum performance requirements of the aircraft.

- 309.** (1) A Flight Operations Officer, a person holding equivalent qualification, or a pilot-in-command, who amends a flight release while the flight is enroute shall record the details of such amendment.
 (2) A Flight Operations Officer, a person holding equivalent qualification, or a pilot-in-command, shall not amend the original flight release to change the destination or alternate aerodrome while the aircraft is enroute unless the flight preparation requirements for routing, aerodrome selection and minimum fuel requirements are met at the time of amendment or re-release.
 (3) A pilot-in-command shall ensure that a flight is not allowed to continue to an aerodrome to which it has been released where the

weather reports and forecasts indicate changes which would render that aerodrome unsuitable for the original flight release.

Flight Release with
Airborne Weather
Radar Equipment

Air Operator to
Comply with
Minimum
Standards

Director General
Shall Amend the
Schedules

Applicability of
Part XIII

310. An air operator shall not release a large aircraft carrying passengers under Instrument Flight Rules or at night when current weather reports indicate that thunderstorms or other potentially hazardous weather conditions that can be detected with airborne weather radar, may reasonably be expected along the route to be flown, unless the airborne weather radar equipment is in satisfactory operating condition.

311. The holder of an airman license under these regulations in meeting the requirements of Regulations 9, 13, 14, 16 through 26, 31, 33, 34, 48 (4), 48 (5), 52, 54, 63, 64, 68, 69, 70, 71, 72, 73, 74, 75, 76, 79, 96, 97, 102, 106, 108, 120, 134, 140, 147, 195, 196 through 197, 200, 205, 206, 207, 214, 216, 217, 218, 220, 221, 224, 266, 267, 268, 269, 270, 271, 276, 303 through 305, shall ensure that he complies with the minimum implementing standards set out in Schedule 14.

312. The Director General may by Order amend any of the Schedules.

PART XIII

AIR TAXI OPERATIONS

- 313.** (1) This Part applies in respect of a domestic Commercial Air Transport operation in Guyana by an Air Operator utilizing an aircraft that –
- (a) is a piston engine powered aircraft, either single or multi-engine;
 - (b) has a maximum certified take-off weight of 5700 kg or less and;
 - (c) has a certified seating capacity of nine (9) or less seats, excluding the pilots' seats.
- (2) An Air Operator issued with a Certificate to operate under the Regulations in this Part may be referred to as an Air Taxi Operator.
- (3) This part defines the provisions of the regulatory requirements for Air Taxi Operators that vary in whole or in part from the requirements prescribed for other Commercial Air Transport Operators under the Civil Aviation (Operations) Regulations.
- (4) Unless specifically provided for in this Part, an Air Taxi Operator shall abide by all other provisions of the Civil Aviation Regulations.
- (5) Notwithstanding the contents of sub-regulation (1), an operator with a fleet of single-turbine engine powered aircraft with a seating capacity of fourteen seats or less, including pilot's seats, and

operating domestic routes only, may apply to the Authority for an exemption to be allowed to operate as an Air Taxi Operator and the Authority may consider such a request on a case-by-case basis.

- 314.** (1) An Air Taxi Operator shall not operate an aircraft under this Part unless that operation complies with the conditions and operations specifications detailed in the Air Taxi Operator Certificate issued to that Operator.
- (2) An Air Taxi Operator shall not operate an aircraft unless that aircraft is operated in accordance with the regulatory requirements for the Operation of Aircraft, provision of Reports, Document and Records, Airworthiness of Aircraft, and Personnel Licensing.
- (3) An Air Taxi Operator shall not operate an aircraft in any form of Aerial Work unless that operator has been issued with an Aerial Work Certificate applicable to the type of operation being carried out.
- (4) An operator shall not operate an aircraft under Visual Flight Rules unless it is equipped with the following flight and navigational instruments:
- (a) An airspeed indicating system calibrated in knots;
 - (b) A sensitive pressure altimeter calibrated in feet when a subscale setting calibrated in hector-pascals or millibars, adjustable for any barometric pressure likely to be set during flight;
 - (c) An accurate timepiece indicating the time in hours, minutes and seconds;
 - (d) A magnetic compass; and
 - (e) Such additional instruments or equipment as may be required by the Authority.
- (5) Where an operator intends to conduct operations in an aircraft under Visual Flight Rules as a controlled flight, he shall ensure that such aircraft is equipped with the following instruments, in addition to those required by sub-regulation (4):
- (a) A sensitive pressure altimeter calibrated in feet with a subscale setting calibrated in hector-pascals or millibars, adjustable for any barometric pressure likely to be set during the flight, with counter drum pointer or equivalent presentation;
 - (b) An airspeed indicating system calibrated in knots with a means of preventing malfunctioning due to either condensation or icing;
 - (c) A turn and slip indicator for an aeroplane and a slip indicator for a helicopter;
 - (d) An attitude indicator for an aeroplane and two attitude indicators for a helicopter, one of which may be replaced by a turn indicator;

- (e) A heading indicator;
- (f) A means of indicating whether the supply of power to the gyroscopic instruments is adequate;
- (g) A means of indicating in the flight crew compartment the outside air temperature;
- (h) A rate-of-climb and descent indicator and;
- (i) Such additional instruments or equipment as may be required by the authority.

Air Taxi
Certifications

- 315.** (1) An applicant for an Air Taxi Operator Certificate shall apply to the Authority in a form and manner as prescribed in the Civil Aviation (General Application and Personnel Licensing) Regulations.
- (2) The Authority may issue an Air Taxi Operator Certificate to an applicant where the Authority is satisfied that the applicant has –
- (a) sufficient trained and qualified persons to enable a safe operation;
 - (b) an organization structure that will adequately support the operation;
 - (c) an approved Company Operations Manual;
 - (d) an approved Maintenance Control Manual;
 - (e) aircraft that can be operated safely on the routes for which the applicant has requested approval to operate;
 - (f) systems in place for flight planning, flight release, operations control, aircraft maintenance, cabin safety, weight and balance, security, quality assurance, and safety management;
 - (g) met the financial requirements specified by the Authority; and
 - (h) any other requirement that the Authority deems necessary for the safety and security of the operations for which the application has been made.
- (3) An application for Air Taxi Operator Certificate shall submit a proposed organization structure to the Authority for approval that includes at a minimum the following, all appropriately qualified in their respective disciplines and reporting to the accountable manager –
- (a) An Operations manager, responsible for all flight and ground operations, including security if so approved by the authority;
 - (b) A Chief pilot, responsible for the pilot body and for aircraft operations and;
 - (c) a Maintenance Coordinator, or Chief Engineer, responsible for the satisfactorily completion of all required aircraft maintenance activities.
- (4) An applicant for Air Taxi Operator Certificate shall have a quality assurance function for his maintenance activities, which may be

either a person employed by him, carrying out only that function, or a person providing such a service on contract, with the approval of the Authority.

Flight Operations

- 316.** (1) No person shall operate an aircraft as pilot-in-command for an Air Taxi Operator unless that person holds at least a Commercial Pilot Licence and has been designated as a PIC by the Operator.
- (2) No person shall operate an aircraft as pilot-in-command for an Air Taxi Operator on a route unless that person has successfully completed a check ride on that route with the Chief Pilot of the Operator.
- (3) A PIC of an aircraft operating for an Air Taxi Operator shall confirm for every flight, by a means other than the fuel gauge, that fuel onboard the aircraft is sufficient to allow the aircraft to complete the flight to the planned destination, or to the designated alternate aerodrome.
- (4) The pilot-in-command of an aircraft operated by an Air Taxi Operator shall ensure, before commencing an operation, that –
- (a) the weight of the passengers, baggage, and cargo, have been computed or measured, as applicable, and that the load on the aircraft has been distributed in accordance with the Pilot's Operating Handbook, or Flight Manual and;
 - (b) that the load manifest has been prepared and signed by a person approved by the Operator to do so.
- (5) An Air Taxi Operator shall –
- (a) file a Flight Plan prior to the start of a flight and;
 - (b) if operating a single-engine aircraft operate under Day VFR conditions only.

Operational Control

- 317.** (1) An Air Taxi Operator shall not release an aircraft for flight, or cause an aircraft to be released for flight, unless that operator has in place, in his Company Operations Manual, a system of operational control approved by the Authority, that provides the operator with appropriate controls for –
- (a) flight release;
 - (b) the conduct of the flight;
 - (c) flight following; and
 - (d) the termination of the flight.
- (2) An Air Taxi Operator shall ensure that he remains in compliance with the applicable Civil Aviation Regulations.

(3) An Air Taxi Operator –

- (a) shall use a current copy of the pilot's Operating Handbook, Aircraft Flight Manual, or Rotorcraft Flight Manual, accepted by the Authority as applicable, and the performance data and operating limitations contained therein;
- (b) is required to have a mass and balance program approved by the authority, that is in conformance with the appropriate aircraft operating manual; and
- (c) is not required to have a separate Aircraft Loading and Handling Manual.

Aircraft
Maintenance

318. (1) No Air Taxi Operator shall operate an aircraft unless that specific aircraft has been approved on his Operations Specifications for his use and has been maintained in accordance with his approved Maintenance Control Manual and the maintenance program approved by the Authority of that aircraft.

(2) An applicant for an Air Taxi Operator Certificate shall present to the Authority for approval—

- (a) a maintenance program for his aircraft that is based on the manufacturer's recommendations and takes into account the environmental and operating conditions of the route structure that the applicant will encounter;
- (b) a Maintenance Control Manual that details how the maintenance program will be managed;
- (c) an approved Minimum Equipment List for each aircraft type or model to be operated;
- (d) where any maintenance is contracted out, confirmation of an agreement for the provision of maintenance services, and the type of services to be provided; and
- (e) confirmation that provision for support from the manufacturers of the engine, propeller, aircraft, and equipment, in the form of manual revisions, bulletins, or other technical publications, has been made;

(3) An Air Taxi Operator shall not operate an aircraft unless there is in force, for that aircraft, a Certificate of Release to Service issued as per the procedures specified in the Operator's approved Maintenance Control Manual.

(4) An Air Taxi Operator shall be responsible and accountable for the maintenance of his aircraft.

(5) An Air Taxi Operator may—

- (a) contract his aircraft maintenance activities to an AMO, and where the maintenance is contracted out, shall appoint a person as a Maintenance Coordinator, approved by the Authority to hold that position, who shall be familiar with the requirements of the approved maintenance program for each type of aircraft operated, and the requirements of the operator's maintenance control manual, as well as with the company's operations; or
- (b) elect to maintain his aircraft under an equivalent system of maintenance, appointing a suitably qualified person as Director of Maintenance, who shall then be responsible for that function, and may utilize his own trained and qualified maintenance staff, with the approval of the Authority.

Passenger
Carrying
Operations

- 319.** (1) An Air Taxi Operator shall establish procedures approved by the Authority and contained in his Company Operations Manual, to ensure that –
- (a) passengers move to and from the aircraft and embark and disembark safely;
 - (b) all passengers are seated and secured by a seat belt before an engine is started, and remain seated and secured until the engine is shut down;
 - (c) each passenger is provided, at the passenger's seat, and by means of a clearly visible placard, approved or accepted by the Authority, with the required safety information;
 - (d) a passenger seated beside an emergency exit is made aware, prior to engine start on how and when to operate the exit; and
 - (e) while an aircraft is being refueled, no passengers are on board that aircraft;
- (2) The Pilot-in-Command shall ensure that–
- (a) all passengers are given a safety briefing before an engine is started, using a format and presentation approved by the Authority;
 - (b) in the event of an emergency, and where time and circumstances permit, give the passengers in his aircraft a briefing on the procedures to follow during a specific emergency; and
 - (c) where a passenger has a physical, sensory, or comprehension limitation, or is an unaccompanied minor, the passenger in question is given a separate briefing in a manner approved by the authority;
- (3) No person shall operate a single engine aircraft in Guyana airspace carrying passengers in commercial air transport outside of gliding or autorotation distance from land unless that aircraft is equipped

with a life jacket for each person on board and a sufficient number of life rafts to accommodate all of the persons on board in the event of ditching.

- (4) No person shall operate a single engine aircraft in Guyana airspace carrying passengers in commercial air transport unless that aircraft has on board a Jungle Survival Pack approved by the Authority.

Mass and Balance

- 320.** (1) An Air Taxi Operator shall not operate an aircraft unless that aircraft conforms to the provisions of the Aircraft Flight Manual, or Pilot's Operating Handbook, and the applicable Airworthiness requirements.
- (2) An Air Taxi Operator shall designate in writing the person who shall –
- (a) supervise the proper loading of the aircraft;
 - (b) make the computation of the load manifest for aircraft loading and center of mass; and
 - (c) determine that the aircraft will be capable of meeting the applicable performance requirements.
- (3) An Air Traffic Taxi Operator shall ensure that the person or persons designated for the tasks identified in Paragraph (2) have been trained to competence for the tasks on the type of aircraft being operated and that the course of training has been approved by the Authority.
- (4) The pilot-in-command of an aircraft operated by an Air Taxi Operator shall ensure, before commencing an operation, that-
- (a) the weight of the passengers, baggage, and cargo, have been computed or measured, as applicable by a method, or methods, approved by the Authority, and that the load on the aircraft has been distributed, in accordance with the Pilot's Operating Handbook, or Flight Manual; and
 - (b) the load manifest has been prepared and signed by a person approved by the Operator to do so.

Operations into
an International
Aerodrome

- 321.** (1) An Air Taxi Operator operating into or out of an international Aerodrome shall comply with the Security Regulations in force on that aerodrome and shall respect the need to maintain the separation between international and domestic passengers.
- (2) An Air Taxi Operator shall be aware of, by way of NOTAMS, AIP, Advisory Circulars, or otherwise, the requirements for entering the airspace surrounding the International Aerodrome and operating on the aerodrome.

Dangerous Goods
and Security
Awareness

- 322.** (1) An Air Taxi Operator shall ensure that all his employees are given Dangerous Goods Awareness training on both an initial and a recurrent basis.
- (2) An Air Traffic Operator who intends to handle Dangerous Goods shall apply to the Authority for authorization for that activity and shall not accept any Dangerous Goods for either storage or carriage until the Authority has issued such an approval, pursuant to Part III of these Regulations, and has specified the applicable conditions under which the Operator may handle such goods.
- (3) An Air Taxi Operator shall ensure that every employee is provided with initial and recurrent Aviation Security awareness training.

Safety
Management
and Quality
Assurance

- 323.** (1) An Air Taxi Operator–
- (a) shall have a safety management system documented as a part of his company operations manual, or as a separate manual; and
 - (b) shall implement and maintain the system.
- (2) An Air Taxi Operator may elect to have his own maintenance quality assurance personnel, or may contract out the function to another person approved by the Authority to provide that service, but in either case shall have a functioning quality assurance system which shall be documented in his approved Maintenance Control Manual.

Part XIV

LIGHT SPORT AIRCRAFT

Classification of
Light Sport
Aircraft

- 324.** (1) The Authority may classify an aircraft as a Light Sport Aircraft if that aircraft has–
- (a) A maximum gross take-off weight of 600 kgs. (645 kgs for sea planes) or less;
 - (b) A maximum stall speed of 80 kph or less;
 - (c) A maximum speed in level flight with maximum continuous power of 225 kph or less;
 - (d) A maximum seating capacity for two (2) persons, including the pilot;
 - (e) As its power plant, a single non-turbine engine, which may be gasoline, diesel, or electric powered and may be of rotary configuration;
 - (f) A fixed or ground-adjustable propeller
 - (g) An unpressurized cabin; and
 - (h) Fixed landing gear.

- (2) The category and class of aircraft that the Authority may consider as Light Sport Aircraft includes, but is not limited to-
- (b) Aeroplanes, both land and sea;
 - (c) Rotorcraft;
 - (d) Ultra-light aircraft;
 - (e) Weight shift control aircraft; and
 - (f) Powered parachutes

Requirements for
Pilot-in-Command

325. No person shall operate as Pilot-in-Command of a Light Sport Aircraft in Guyana unless that person is in possession of a Pilot Permit (Light Sport Aircraft), or a Pilot Licence, issued by the Authority, and has been trained and checked as competent on the class of aircraft by a Flight Instructor, rated as such by the Authority, pursuant to the Civil Aviation Regulations Part II (Personnel Licensing).

Importation of
Light Sport
Aircraft

326. An Aircraft referenced in Paragraph (2), confirming to the specifications detailed in Paragraph (1), and manufactured complete or in kit form, may be imported into Guyana from any other Contracting State, provided that the applicable Customs and Security requirements have been met.

Registration of
Light Sport
Aircraft

327. A Light Sport Aircraft shall not be flown in Guyana airspace unless it has been registered in Guyana and marked with the applicable Nationality and Registration markings assigned by the Authority pursuant to the Civil Aviation Regulations Part IV – (Registration & Markings)

Privileges of the
Holder of a Light
Sport Aircraft
Permit.

328. No person in possession of a Light Sport Aircraft Permit may fly any aircraft issued with a Type Certificate, whether or not that aircraft meets the definition of a Light Sport Aircraft, unless the holder of the said permit also holds an appropriately rated Pilot Licence, or is enrolled in a training programme or course leading to the issuance of a private pilot licence, and has been approved to fly solo by a flight instructor.

Limitation on
usage of a Light
Sport Aircraft

329. No person shall use a Light Sport Aircraft for training or rental, unless that aircraft has been issued with a Type Certificate, a Special Type Certificate, or an equivalent document issued by the State of Manufacture, and with a Flight Permit issued by the Authority.

Maintenance
Programme and
Maintenance
Requirements

330. (1) No person shall operate a Light Sport Aircraft unless that aircraft has been maintained in accordance with a maintenance programme approved by the Authority.

(2) The Authority may approve a maintenance programme, presented by the owner of a Light Sport Aircraft, where that programme includes the following-

- (a) The contents of the manufacturer's recommended maintenance instructions;
- (b) Written confirmation from the owner that all maintenance will be performed using the instructions for performing maintenance on similar aircraft approved by the State of Design;
- (c) The requirement for a visual inspection of the aircraft and its power plant by the pilot prior to the first flight of each day;
- (d) The requirement to verify visually prior to each flight, that the fuel on board is sufficient for the flight to be undertaken and to allow for unforeseen circumstances;
- (e) The requirement for a visual inspection of the aircraft and its power plant to be done at least once every twelve (12) calendar months by a licensed Aircraft Maintenance Engineer who need not be type-rated;
- (f) A maintenance schedule for the engine published by the manufacturer of that engine; and
- (g) Any other item deemed necessary by the Authority due to the nature of the aircraft and/or of the operating environment.

Flight instruction
on Light Sport
Aircraft

331. No person shall give instruction in a Light Sport Aircraft in Guyana unless that person is in possession of a Pilot Licence, issued by the Authority and endorsed with a Flight Instructor rating.

Required
Equipment

332. No person shall conduct a take-off in a Light Sport Aircraft unless it is equipped with the following instruments and equipment;

- (a) Airspeed indicator;
- (b) Turn and bank indicator;
- (c) Altimeter;
- (d) Magnetic compass;
- (e) A fuel quantity indicator;
- (f) Tachometer;
- (g) Artificial horizon; and
- (h) VHF Transceiver, operational in the 118.000 – 135.975 mhz band

Operating
Limitations

333. (1) No person shall operate a Light Sport Aircraft-

- (a) At night in Guyana Airspace;
- (b) In IFR flight;

- (c) Within Class A, Class B, Class C, or Class D airspace, or within the lateral boundaries of the surface area of Class E airspace designated for an airport, unless that person has prior authorization from the ATC facility having jurisdiction over that airspace;
 - (d) At an altitude lower than 120 km, other than when taking off or landing;
 - (e) Outside of a seventy-five (75) mile air traffic control zone; or
 - (f) Without first receiving clearance for the flight from Air Traffic Control.
- (2) No person shall take off from, land on, or operate a Light Sport Aircraft on water, unless that person has a Pilot Permit (Light Sport Aircraft) or a Pilot Licence, issued by the Authority and endorsed with a Seaplane Rating.
- (3) No person shall operate a Light Sport Aircraft unless the aircraft is equipped with-
- (g) a suitable means of restraint, that is attached to the primary structure of the aircraft, for each occupant;
 - (h) for aeroplanes operated from, or over water, a suitable life jacket for each occupant; and
 - (i) a placard that is affixed to a surface in plain view of any occupant seated in the aeroplane that states
- “THIS AIRCRAFT IS OPERATING
WITHOUT A CERTIFICATE OF
AIRWORTHINESS”**
- (4) No person shall operate a Light Sport Aircraft unless each person on board –
- (a) Is secured by means of the restraint referred to in Subparagraph (14) (a); and
 - (b) Is wearing a protective helmet, where the aircraft is a Gyroplane, Weight Shift Control aircraft, or a Powered Parachute.

Part XV**CORPORATE AND GENERAL AVIATION**

- 334.** (1) No owner of a Guyana-registered private or corporate aircraft shall cause that aircraft to be operated in international operations unless the owner has ensured that-
- (a) all assigned flight and cabin crew members will comply with the Regulations and procedures of the state in which the operations are conducted;
 - (b) all flight crew members are familiar with the regulations and procedures specifically pertinent to the performance of their duties prescribed for the areas to be traversed, the aerodromes to be used and the air navigation facilities relating thereto;
 - (c) all flight crew members are familiar with the regulations and procedures pertinent to their respective duties in the operation of the aircraft;
 - (d) the Pilot-in-Command has been assigned the responsibility for operational control; and
 - (e) the Pilot-in-Command has available on board the aircraft all the essential information concerning the search and rescue services in the area over which the aircraft will be flown.
- (2) No Pilot-in-Command of a private or corporate aircraft will conduct a flight operation unless-
- (a) he is familiar with the regulations and procedures pertinent to the performance of his duties prescribed for the areas to be traversed aerodromes to be used and air navigation facilities thereto; and
 - (b) he has ensured that other members of the flight crew are familiar with the regulations and procedures which are pertinent to the performance of their respective duties in the operation of the aircraft.
- (3) No owner will cause an aircraft to be operated unless the flight crew is able to demonstrate the ability to read, speak, and understand the language used for aeronautical radio telephony communications as specified in the Civil Aviation Regulations Part II (Personnel Licensing).
- (4) No owner or operator of an aircraft in corporate or general aviation shall cause that aircraft to transport any

goods described as Dangerous Goods in the Technical Instructions for the Transport of Dangerous Goods by Air published by IATA, without first obtaining permission from the Authority.

(4) Operators that are not approved to carry dangerous goods are required to ensure that personnel involved in aircraft operations receive dangerous goods awareness training in the requirements commensurate with their responsibilities as set out in those Regulations.

**Passenger
Carrying
Requirements**

335. (1) No person shall operate or cause to be operated, an aircraft carrying passengers in general or corporate aviation except in accordance with the following requirements:

- (a) Every passenger shall have a seat assigned, meeting the current commercial passenger standards;
- (b) Each seat will be fitted with a seat belt assembly;
- (c) All passengers shall be seated, with seat belt fitted and buckled, for every take-off and landing;
- (d) Where an aircraft is pressurized, every passenger shall have a supply of emergency oxygen available at his seat;
- (e) Passengers must be given a briefing on procedures to be followed in the event of an emergency; and
- (f) Life preservers shall be stowed within reach of, and readily available for, each passenger.

(2) The operator and the Pilot-in-Command of an aircraft being operated in General or Corporate aviation shall ensure the safety of each passenger being carried on the aircraft, while that passenger is moving from the terminal building to the aircraft and from the aircraft to the terminal building.

**Flight Crew
Requirements**

336. (1) No person shall operate or cause to be operated, an aircraft in general or corporate aviation unless the assigned flight crew members are qualified with at least the minimum qualifications, medical certificate, training, and checking requirements of the Civil Aviation Regulations Part II (Personnel Licensing), and the requirements of the aircraft's Type Certificate

(2) No person shall operate or cause to be operated an aircraft powered by a turbojet engine or an aircraft MCTOW greater than 5700 kgs in general or corporate aviation unless the assigned flight crew member(s) are type rated in accordance with the requirements of the Civil Aviation

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Regulations Part II (Personnel Licensing), and of the aircraft's Type certificate.

Flight Plan
Requirements

337. No person shall operate or cause to be operated an aircraft in general or corporate aviation unless a Flight Plan has been filled with the appropriate Air Traffic Control unit having jurisdiction for the airspace in which the aircraft will be operating.

Aircraft
performance
Requirements

338. No person shall operate or cause to be operated an aircraft in general or corporate aviation unless that aircraft is in compliance with the performance requirements specified in the Pilot's Operating Handbook, or Aircraft Flight Manual and the Mass and Balance requirements of the Civil Aviation Regulations Part V (Airworthiness).

Aircraft
Maintenance
Requirements

339. (1) No person shall operate or cause to be operated an aircraft in general or corporate aviation unless the aircraft has been maintained in accordance with a Maintenance Programme, based on the manufacturer's maintenance recommendations and approved by the Authority.

(2) No person shall operate an aircraft unless there is in force, a Certificate of Release to Service for that aircraft, signed by an appropriately qualified Aircraft Maintenance Engineer, pursuant to the Civil Aviation Regulations Part V (Airworthiness), Regulation 32.

Passenger
Information
Requirements

340. (1) A private operator and a corporate operator shall comply with the requirements to provide the Guyana immigration authorities with passenger information prior to each international departure from Guyana

(2) Advanced passenger information shall be filed, using the appropriate method and shall include the details as specified in the Civil Aviation (Security) Regulations.

Part XVI**CERTIFICATION OF HANDLING AGENTS**

- 341.** (1) A person who provides passenger-handling, baggage handling, cargo handling, aircraft marshalling, aircraft pushback and towing, water and lavatory servicing, or provision of ground power, engine start, or aircraft air conditioning services, shall be termed a Handling Agent.
- (2) With effect from 1st August 2020, no person shall offer, or provide, services in Guyana to the holder of an Air Operator Certificate as a Handling Agent, unless that person has been certified to do so by the Authority prior to performing such a service.
- (3) A person wishing to provide any of the services described in Sub-regulation 341(1) may submit a written application to the Authority for certification to do so not less than six (6) months prior to the date on which the applicant desires to commence operations.
- (4) The written application referred to in sub-regulation (1) shall contain the following information:
- (a) Name and address of the applicant;
 - (b) Name of the person nominated as the Accountable Manager for safety and security;
 - (c) Type of ground handling services to be provided; and
 - (d) The name of the airport or airports at which the services are to be provided.
- 342.** (1) The Authority may, subject to the provisions of these Regulations, grant a Handling Agent Certificate to an applicant where –
- (a) The Authority is satisfied that the applicant is competent and a fit and proper person, having regard to the applicant's previous conduct and experience, his equipment, organisation, staffing, training, financial, and other arrangements, to provide the services specified in the application;
 - (b) The applicant presents to the Authority for review and approval, a Ground Handling Manual, which may be presented as a single document, or in multiple volumes, containing, but not limited to, the following:
 - (i) A training program for all employees, incorporating both initial and recurrent job function training,

- dangerous goods awareness training, ramp safety and security training, as well as human factors training;
- (ii) Procedures for ensuring that adequate supervision is in place on a continuous basis for all tasks being carried out on an operator's aircraft, and all tasks related to passengers, baggage, cargo or the aircraft itself;
 - (iii) Procedures for ensuring that all employees follow the applicable instructions documented in each operator's manual while handling that operator's aircraft;
 - (iv) A maintenance programme, including inspection and servicing records, for each vehicle and item of servicing equipment;
 - (v) An inspection and calibration program, including record-keeping, for every scale used for checking the weight of passengers, cargo, and baggage;
 - (vi) A safety management programme; and
 - (vii) A quality assurance program that will ensure that the applicant-
 - A. complies with the applicable Regulations;
 - B. complies with the operators documented instructions;
 - C. maintains the required levels if safety, and security;
 - D. maintains the agreed level of service;
 - E. identifies undesirable conditions and areas requiring improvement and takes the appropriate steps; and
 - F. complies with any terms and conditions established by the Authority to ensure the safety and security of the operation.

Requirement for
Security Manual

343. The applicant shall submit a Security Manual, containing the details of his Security Programme and of his security training programme, which shall include his recruitment and screening policies and procedures.

Suspension or
Revocation

344. The Authority may suspend or revoke the certificate, where the agent has –

- (a) been found to be in breach of any of these Regulations;

- (b) been found to have contributed significantly to an accident or serious incident, through willful or deliberate act, or through gross negligence on the part of the agent's management; or
- (c) failed to adhere to the terms and conditions, or to any restriction, documented in the Operations Specifications issued with the certificate by the Authority.

Part XVII
UNMANNED AERIAL VEHICLES

UAV
Operating
Limitations

- 345.** (1) An aircraft, capable of being flown without a pilot being on board that aircraft, either autonomously, or controlled remotely by a pilot located outside the aircraft, shall be classified as an Unmanned Aerial Vehicle (UAV).
- (2) No person shall operate an unmanned aerial vehicle in Guyana airspace without having first received written permission from the Authority.
- (3) A person who wishes to operate a UAV shall apply to the Authority in writing for approval and shall provide the Authority with details of the intended operation.
- (4) No person shall drop, cause to be dropped, or permit another person to drop any article, animal, prohibited items or substances, whether attached to a parachute or not, from an UAV so as to endanger persons or property.
- (5) No person shall use an UAV to tow any object during flight.
- (6) The Pilot-in-Command of a UAV shall maintain direct, unaided visual contact with that aircraft, while it is in flight, sufficient to monitor its flight path in relation to other aircraft, persons, vehicles, vessels, and structures, for the purpose of avoiding collisions, unless specific authorization to the contrary has been granted in writing by the Authority.
- (7) The Pilot-in-Command (PIC) of an UAV shall not fly the aircraft-
- (a) within an aerodrome traffic zone unless the permission of the Authority and the permission of the applicable Air Traffic Control unit has first been obtained;
 - (b) at a height of more than 150 metres above the terrain;
 - (c) at a distance greater than 500 metres from the point at which he is positioned;

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- (d) at night or in low visibility conditions;
 - (e) in a reckless or unsafe manner;
 - (f) over or near to private or public property, and restricted and security restricted areas, without prior permission from the owner;
 - (g) over any establishment or zone designated in a Government notice as a prohibited area; or
 - (h) for the purposes of Aerial Work, except on accordance with a permit granted by the Authority.
- (8) A Pilot-in-Command of an UAV shall not operate that aircraft in any of the circumstances listed below without first obtaining approval from the Authority:
- (a) Over or within 150 Metres of any congested area, or organized open air assembly;
 - (b) Within 100 metres of any vessel, vehicle, or structure, which is not under the control of the person accountable to the Authority for the UAV, or someone who has contracted the services of the UAV; or
 - (c) Subject to sub-Regulation 346 (6), within 50 metres of any person, either vertically or horizontally.

Pilot-in-
Command to
have a Permit

- 346.** (1) No person shall operate a UAV as the Pilot-in-Command of that vehicle, unless that person has in his possession the necessary Permit, issued by the Authority pursuant to sub-Regulation (2).
- (2) A Person wishing to operate as Pilot-in-Command of an UAV shall apply to the Authority for a Permit to do so and the Authority may grant such Permit after the person has–
- (a) provided the Authority with a Certificate issued by an approved person or organisation confirming that the person has been trained, tested, and found to be competent to operate as the pilot of a UAV; or
 - (b) demonstrated to the Authority that he is competent to operate the aircraft safely by carrying out such maneuvers while in control of the aircraft as the Authority may require
- (3) The Authority may accept a certificate of training from another ICAO member State that has an acceptable framework of Regulations governing UAV operations and the training of pilot operators within their airspace.

- (4) Non-conformity with the conditions of a Permit, operations outside of the limitations specified in these Regulations, or failure to comply with the conditions approved in an operations manual, shall lead to the suspension of the Permit.
- (5) A Pilot-in-Command of an UAV shall not operate that aircraft in any of the circumstances listed below without first obtaining approval from the Authority:
 - (a) Over, or within 150 metres of any congested area or organized open-air assembly;
 - (b) Within 100 metres of any vessel, vehicle, or structure, which is not under the control of the person accountable to the Authority; and
 - (c) Subject to sub-Regulation (6) within 50 metres of any person, either vertically or horizontally.
- (6) A Pilot-in-Command shall not, during take-off or landing, operate an UAV within 30 metres of any person, other than the Pilot or another person assisting in the operation and operating under the supervision of the Pilot.
- (7) A person operating a UAV weighing seven (7) kg or less, which is not being used for aerial work or any other commercial activity, and is not carrying any equipment capable of transmitting, recording, or receiving, any information other than that required to control the vehicle in flight, will not be required to obtain a Permit to operate the vehicle but-
 - (a) shall not operate the vehicle beyond visual range of the operator;
 - (b) shall not operate the vehicle at a distance greater than 200 metres from the point at which the operator is located; and
 - (c) shall comply with all other restrictions and limitations of these Regulations.

Requirement for
Liability Insurance

347. No person shall operate an UAV for commercial operations unless that person has presented proof to the Authority of his possession of the necessary Liability Insurance.

Permit Required
for Aerial Work

348. (1) The Pilot-in-Command of an UAV shall not fly the aircraft for the purposes of aerial work except in accordance with a permit granted by the Authority.

(2) An organization intending to operate a UAV in Aerial Work may apply to the Authority for an Aerial Work Certificate and will be required to present for approval, prior to commencing operations, an

Operations Manual, which shall contain the policies and procedures for the operations for which the organization intends to use the UAV, and which shall contain at least the following information;

- (a) company organisation structure;
- (b) manual distribution and revision procedures;
- (c) persons authorized to act on the organization's behalf;
- (d) staff training program;
- (e) area of intended operations (Latitude & Longitude -WGS84);
- (f) a plan of intended activities;
- (g) briefing of pilots and ground crew;
- (h) communications procedures;
- (i) accident and incident notification procedures;
- (j) record-keeping, including aircraft logbook;
- (k) an UAV maintenance programme, based on the manufacturer's instructions for maintaining the aircraft;
- (l) emergency procedures, including but not limited to, emergency recall, loss of control datalink, or loss of visual contact; and
- (m) Provisions to avoid security and privacy infringements.

Permit Required
for Aerial
Surveillance

- 349.** (1) No person shall operate an UAV, irrespective of the dimensions or maximum weight of that aircraft, for the purposes of obtaining, recording, or transmitting information, whether in the visual spectrum or otherwise, unless that person has obtained written authorisation from the Authority to obtain, record, or transmit such information.
- (2) A person wishing to use an UAV for any or all of the activities referenced in sub-Regulation (2) may submit a request in writing to the Authority, and shall include in the request-
- (a) the name and address of the applicant and the name of the company for which he is working, if applicable;
 - (b) a drawing or map reference showing the geographical area over which that person intends to operate the aircraft;
 - (c) details of the aircraft to be used, including the make, model, serial number and dimensions of the aircraft, as well as the type of power plant installed;
 - (d) the date and time period during which the applicant wishes to operate the UAV;
 - (e) the purpose for which the information collected will be used;
 - (f) proof that the owner has the appropriate liability insurance;
 - (g) Security clearance for the applicable operation; and
 - (h) Any other information required by the Authority.

- (3) Nothing in this Regulation shall prevent the prosecution, conviction, and punishment of any person for the breach of any other written Law of Guyana for the time being in force, including but not limited to-
- (a) Criminal Law Acts of Guyana;
 - (b) Customs Act of Guyana; and
 - (c) Telecommunications Act of Guyana.

Transitional
Provisions

- 350.** (1) The requirements of these Regulations shall come into effect on the 1st November 2019.
- (2) Notwithstanding sub-regulation (1), a person exercising the privileges of an air operator immediately prior to the commencement of these Regulations, may continue to do so under the conditions of his existing approvals until 30th June 2020 and thereafter shall meet the requirements of these Regulations.

SCHEDULE 1**[Regulation 30]**

The frequency and details of the progressive inspections under regulation 30 shall be as follows:

- (a) Provide for the complete inspection of the aircraft within each twelve (12) month period;
- (b) Be consistent with the current recommendations of the manufacturer, field service experience;
- (c) Be appropriate to the kind of operation in which the aircraft is engaged;
- (d) The progressive inspection schedule under regulation 30 (8) (b) (ii), shall ensure that the aircraft, at all times, is airworthy and conforms to all applicable aircraft specifications, type certificate data sheets, airworthiness directives and other approved data acceptable to the authority;
- (e) Where the progressive inspection under this regulation is discontinued, the operator shall immediately notify the authority, in writing, of such discontinuance;
- (f) Where a progressive inspection is discontinued under paragraph (e), the first annual inspection required by these regulations shall be due within twelve (12) months after the last complete inspection of the aircraft under the progressive inspection program;
- (g) The one hundred (100) hour inspection under regulation 30 (3) © shall be due within one hundred (100) hours of that complete inspection;
- (h) A complete inspection of an aircraft, for the purpose of determining when the annual and one hundred (100) hour inspections are due, requires a detailed inspection of the aircraft and all its components in accordance with the progressive inspection program and;
- (i) A routine inspection of an aircraft and a detailed inspection of several components are not considered to be a complete inspection, required under paragraph (h).

SCHEDULE 2**[Regulation 97]**

The weather conditions for an Extended Range Operations en-route alternate under regulation 97 shall be at or above the planning minima shown in Table 1.

Table 1

Type of Approach	Planning Minima (RVR/visibility required and ceiling, if applicable)	
Aerodrome with		
	At least 2 separate approach procedures based on 2 separate aids serving 2 separate runways (See note 1)	At least 2 separate approach procedures based on 2 separate aids serving 1 runway or, at least 1 approach procedure based on 1 aid serving 1 runway
Precision Approach Cat II, III (ILS, MLS)	Precision Approach Cat I Minima	Non-Precision Approach Minima
Precision Approach Cat I (ILS, MLS)	Non-Precision Approach Minima	Circling minima or, if not available, non-precision approach minima plus 200 feet/1000 metres
Non-Precision Approach	The lower of non precision approach minima plus 200 feet/1000 meters or circling minima	The higher of non-precision approach minima plus 200 feet/1000 metres or circling minima
Circling Approach	Circling Minima	

Note: Runways on the same aerodrome are considered to be separate runways when they are separate landing surfaces which may overlay or cross such that if one of the runways is blocked, it will not prevent the planned type of operations on the other runway and each of the landing surfaces has a separate approach based on a separate aid.

SCHEDULE 3**[Regulation 192 (6)]**

Mass and balance documentation under Regulation 102 (6), shall be set out in the following manner:

- (a) Mass and balance documentation shall contain the following information:
 - (i) The aircraft registration and type;
 - (ii) The flight identification number and date;
 - (iii) The identity of the pilot-in-command;
 - (iv) The identity of the person who prepared the document;
 - (v) The dry operating mass and the corresponding center of gravity of the aircraft;
 - (vi) The mass of the fuel at take-off and the mass of trip fuel;
 - (vii) The mass of consumables other than fuel;
 - (viii) The components of the load including passengers, baggage, freight and ballast;
 - (ix) The take-off mass, landing mass and zero fuel mass;
 - (x) The load distribution;
 - (xi) The applicable aircraft center of gravity positions and;
 - (xii) The limiting mass and center of gravity values;
- (b) Subject to the approval of the authority, an operator may omit some of this data from the mass and balance documentation;
- (c) Where any last minute change occurs after the completion of the mass and balance documentation, this shall be brought to the attention of the pilot-in-command and the last minute change shall be entered on the mass and balance documentation. The maximum allowed change in the number of passengers or hold load acceptable as a last minute change shall be specified in the Operations Manual. If this number is exceeded, new mass and balance documentation shall be prepared.
- (d) Where mass and balance documentation is generated by a computerized mass and balance system, the operator shall verify the integrity of the output data. He shall establish a system to check that amendments of his input data are incorporated properly in the system and that the system is operating correctly on a continuous basis by verifying the output data at intervals not exceeding six (6) months and;
- (e) Where an operator wishes to use an on-board mass and balance computer system as a primary source for dispatch, he shall obtain the approval of the authority.

SCHEDULE 4
[Regulation 105]

The requirements for an Operational Flight Plan in Commercial Air Transport Operations under regulation 105 are as follows:

- (a) The minimum contents of an operational flight plan shall be determined by the method of flight supervision and the type of operations conducted by the operator. An international air operator shall adhere to the thirty (30) items operational flight plan as listed below whereas an operator conducting local flight within twenty-five (25) minutes from the departure aerodrome and Visual Flight Rules flights may use an informal operational flight plan, being either an Air Traffic Control flight plan, a flight itinerary or other flight following information approved by the authority.
- (b) The format of the full operational flight plan shall allow the crew to record the fuel state and the progress of the flight relative to the plan. The operational flight plan may be computer generated or produced manually, working from and tables, by either the Flight Operations Officer or the flight crew. When an operational flight plan is prepared manually, an approved form displaying the requisite information and providing the necessary space to make following entries as the flight progresses shall be used;
- (c) The national air operator shall specify, in its company operations manual, how formal acceptance of the operational flight plan by the pilot-in-command and, if applicable, the Flight Operations Officer shall be recorded;
- (d) The Minimum Required Content of an Operational Flight Plan which are as follows:
 - (i) *air operator's name;
 - (ii) *date;
 - (iii) *aeroplane registration;
 - (iv) *aeroplane tail number (as applicable)
 - (v) *aeroplane type and model (as applicable)
 - (vi) *flight number (as applicable)
 - (vii) Type of flight (Instrument Flight Rules or Visual Flight Rules) (not required if all the national air operator's flights are the same)
 - (viii) *pilot-in-command's name;
 - (ix) *Flight Operations Officer's name (as applicable);
 - (x) *departure aerodrome;
 - (xi) *destination aerodrome;

- (xii) *alternate aerodrome (as applicable), including en-route alternates where required;
- (xiii) Routing to destination by successive navigational way points and a method to obtain associated tracks for each;
- (xiv) Routing to alternate aerodrome (as applicable);
- (xv) specification of any way points en-route to satisfy special operations requirements (Extended Range Twin-engine Operations, etc.);
- (xvi) *planned cruise altitudes to destination and alternate (as applicable);
- (xvii) Planned cruise true air speed;
- (xviii) planned cruise indicated air speed, or match number (as applicable);
- (xix) winds at planned cruise altitude: these may be expressed in terms of direction/velocity or as a component/drift angle;
- (xx) temperature at cruise altitude;
- (xxi) ground speed or wind component during cruise;
- (xxii) *estimated time en-route: if broken down into way point time components, a total shall be specified;
- (xxiii) time from destination to alternate (as applicable);
- (xxiv) distance to destination: if broken down into way point distance components, a total shall be specified;
- (xxv) distance from destination to alternate (as applicable);
- (xxvi) *fuel burn en-route and from destination to alternate;
- (xxvii) * fuel required for the type of flight plan as applicable for –
 - (a) Taxi;
 - (b) Destination;
 - (c) Alternate;
 - (d) Holding reserve and;
 - (e) Additional requirements or en-route reserve (as applicable)
- (xxviii) * weights for –
 - (a) Total fuel on board;
 - (b) Zero fuel weight and;
 - (c) Planned maximum take-off weight;
- (xxix) *signature of pilot-in-command and the Flight Operations Officer (as applicable) or alternate means of certifying acceptance; and
- (xxx) *number of persons on board, crew and passengers, as amended by final load figures.

Note: The items with asterisk (*) denote the minimum items which shall be adhered to by national air operators on short range operations of less than thirty (30) minutes, night Visual Flight Rules operations and domestic operations.

SCHEDULE 5

[Regulation 108 (5)]

The requirements of unmanned free balloons referred to in regulation 108 (5) are as follows:

Classification of Unmanned Free Balloons

1) Unmanned free balloons shall be classified as –

- (a) *light*: where the unmanned free balloon carries a payload of one (1) or more packages with a combined mass of less than four kilograms (4 kg) unless qualifying as a heavy balloon in accordance with paragraphs (c)(ii), (iii) and (iv);
- (b) *medium*: where the unmanned free balloon which carries a payload of two (2) or more packages with a combined mass of four kilograms (4 kg) or more, but less than six kilograms (6 kg) unless qualifying as a heavy balloon in accordance with paragraph (c)(ii), (iii) and (iv); or
- (c) *heavy*: where the unmanned free balloon which carries a payload which –
 - (i) has a combined mass of six kilograms (6 kg) or more;
 - (ii) includes a package of three kilograms (3 kg) or more;
 - (iii) includes a package of two kilograms (2 kg) or more with an area density of more than thirteen grams (13 g) per square centimeter or;
 - (iv) uses a rope or other device for suspension of the payload that requires an impact force of two hundred and thirty (230) newton or more to separate the suspended payload from the balloon.

Note 1. – The area density referred to in subparagraph (c) (iii) is determined by dividing the total mass in grams of the payload package by the area in square centimeters of its smallest surface.

Note 2. – Figure 1 gives the classification of unmanned free balloon.

General Operating Rules

2) (1) An unmanned free balloon shall not be operated without appropriate authorization from the State from which the launch is made.

(2) An unmanned free balloon, other than a light balloon used exclusively for meteorological purposes and operated in the manner prescribed by the Authority, shall

not be operated across the territory of another State without appropriate authorisation from that other State concerned.

(3) The authorisation referred to in paragraph (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 authorisation may be obtained for a series of balloon flights or for a recurring flight, e.g. atmospheric research balloon flights.

(4) An unmanned free balloon shall be operated in accordance with conditions specified by the State of Registry and the State(s) expected to be over-flown.

(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 not associated with the operation.

(6) A heavy unmanned free balloon shall not be operated over the high seas without prior co-ordination with the appropriate Air Traffic Services authority.

Operating Limitations and Equipment Requirements

3) (1) A heavy unmanned free balloon shall not be operated without authorisation from the appropriate Air Traffic Services authority at or through any level below 18,000 meters (60,000 feet) pressure-altitude at which –

- (a) there are clouds or obscuring phenomena of more than four (4) oktas coverage; or
- (b) the horizontal visibility is less than eight kilometers (8 km).

(2) A heavy or medium unmanned free balloon shall not be released in a manner that will cause it to fly lower than 300 meters (1,000 feet) over the congested areas of cities, towns or settlements or an open-air assembly of persons not associated with the operation.

(3) A heavy unmanned free balloon shall not be operated unless –

- (a) it is equipped with at least two (2) payload flight devices or systems, whether automatic or operated by telecommand, that operate independently of each other;
- (b) for polyethylene zero-pressure balloons, at least two (2) methods, systems, devices, or combinations thereof, that function independently of each other are employed for terminating the flight of the balloon envelope;

Note. – Super-pressure balloons do not require these devices as they quickly rise after payload discharge and burst without the need for a device or system designed to puncture the balloon envelope. In this context a super-pressure balloon is a simple non-extensible envelope capable of withstanding a differential of pressure, higher inside than out. It is inflated so that the

smaller night-time pressure of the gas still fully extends the envelope. Such a super-pressure balloon will keep essentially constant level until too much gas diffuses out of it.

(c) the balloon envelope is equipped with either a radar reflective device or radar reflective material that will present an echo to surface radar operating in the 200 megahertz to 2700 megahertz frequency range, or balloon is equipped with such other devices as will permit continuous tracking by the operator beyond the range of ground-based radar.

(4) A heavy unmanned free balloon shall not be operated under the following conditions:

- (a) in an area where ground-based Secondary Surveillance Radar equipment is in use, unless it is equipped with a secondary surveillance radar 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 Auto Dependent Surveillance-Broadcast equipment is in use, unless it is equipped with Auto Department Surveillance-Broadcast transmitter, with pressure-altitude reporting capability, which is continuously operating or which can be turned on when necessary by the tracking station.

(5) An unmanned free balloon that is equipped with a trailing antenna that requires a force of more than two hundred and thirty (230) newtons to break it at any point shall not be operated unless the antenna has colored pennants or streams that are attached at not more than fifteen meters (15) intervals.

(6) A heavy unmanned free balloon shall not be opened below 18,000 meters (60,000) pressure-altitude between sunset to sunrise or such other period between sunset and sunrise, corrected to the altitude of operations as may be prescribed by the Authority, unless the balloon and its attachments and payload, whether or not they become separated during the operation, are lighted.

(7) A heavy unmanned free balloon that is equipped with a suspension device (other than high conspicuously colored open parachute) more than fifteen meters (15m) long shall not be operated between sunrise and sunset between 18,000 meters (60,000 feet) pressure-altitude unless the suspension device is colored in alternate bands of high conspicuity colors or has colored pennants attached.

Termination

4. The operator of a heavy unmanned free balloon shall activate the appropriate device required by clause 3 (3) (a) and (b) above

- (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.

Flight Notification

5. (1) Pre-flight notification-

- (a) 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 service unit not less than (7) days before the date of the intended flight;
- (b) notification of the intended flight shall include the following information as may be required by the appropriate air traffic services unit:
 - (i) balloon flight identification or project code name;
 - (ii) balloon classification and description;
 - (iii) Secondary Surveillance Radar code, aircraft address or Directional Beacon frequency as applicable;
 - (iv) Operator's name and telephone number;
 - (v) Launch site;
 - (vi) Estimated time of launch or time of commencement and completion of multiple launches;
 - (vii) Number of balloons to be launched and scheduled intervals between launches if multiple launches;
 - (viii) Expected direction of ascent;
 - (ix) Cruising level(s) or pressure-altitude;
 - (x) The estimated elapsed time to pass 18,000 metres (60,000 feet) pressure-altitude or to reach cruising level if at or below 18,000 metres (60,000 feet), together with the estimated location;

Note. – if the operation consists of continuous launchings, the time to be included is the estimated time at which the first and last in the series will reach the appropriate level (e.g. 122136Z-130330Z).

- (xi) The estimated date and time of termination of the flight and the planned location of the impact or recovery area. In the case of balloons carrying 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.

Note. - if there is to be more than one location of impact/recovery, each location is to 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 is the estimated time of the first and the last in the series (e.g. 070330Z-072300Z)

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

(2) Notification of launch -

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 metres (60,000 feet) pressure-altitude will be passed, or the estimated time at which the cruising level will be reached if at or below 18,000 metres (60,000 feet) and the estimates location; and
- (e) Any changes to the information previously notified in accordance with paragraph (1) (b) (vii) and (viii)

(3) Notification of cancellation-

The operator shall notify the appropriate air traffic services unit immediately after it is known that the intended flight of a medium or heavy unmanned free balloon, previously notified in accordance with clause 5 (1), has been cancelled.

Position Recording and Reports

6. (1) The operator of a heavy unmanned free balloon operating at or below 18,000 metres (60,000 feet) pressure-altitude shall monitor the flights path of the balloon and forward reports of the balloon's position as requested by Air Traffic Services.

(2) Unless Air Traffic Services require reports as specified under sub-clause (1) at more frequent intervals, the operator shall record the position every two (2) hours.

(3) The operator of a heavy unmanned free balloon operating above 18,000 metres (60,000 feet) pressure-altitude shall monitor the flight progress of the balloon and forward reports of the balloon's position as requested by Air Traffic Services.

(4) Unless Air Traffic Services require reports as specified under sub-clause (3) at more frequent intervals, the operator shall record the position every twenty-four (24) hours.

(5) If a position cannot be recorded in accordance with sub-clauses (1) and (2), (3) and (4) the operator shall immediately notify the appropriate Air Traffic Services unit.

(6) The notification under sub-clause (5) shall include the last recorded person.

(7) Where tracking of a balloon is re-established, the appropriate Air Traffic Service unit shall be notified immediately.

(8) One (1) 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 of pressure-altitude;
- c) The forecast time of penetration of 18,000 metres (60,000 feet) pressure-altitude, if applicable; and
- d) The forecast time and location of ground impact.

(9) The operator of a heavy medium unmanned free balloon shall notify the appropriate Air Traffic Services unit when the operation is ended.

SCHEDULE 6

(Regulation 135)

The Category II and Category III manual under regulation 135 shall meet the following minimum standards:

(a) where the Category II or III programme submitted by an operator in support of his application under regulation 135 contains an evaluation stage, the Cat II or III manual of the operator shall include the following:

- (i) the location of the aircraft and the place where the demonstrations are to be conducted; and
- (ii) the date the demonstrations are to commence (at least ten days after filing the application).

- (b) a Category II or III manual shall contain—
- (i) the registration number, make, and model of the aircraft to which it applies;
 - (ii) a maintenance programme; and
 - (iii) the procedures and instructions related to recognition of DH, use of runway visual range information, approach monitoring, the decision region (the region between the middle marker and the decision height), the maximum permissible deviation of basic ISL indicator within the decision region, a missed approach, use of airborne low approach equipment, minimum for the use of the autopilot, instrument failure, and other procedure, instruments, and limitations that may be found necessary by the Authority.

SCHEDULE 7

(Regulation 121)

Airworthiness and operational requirements referred to Regulation 121, shall satisfy the following:

Turbine Engine Reliability

***1.** (1) Turbine engine reliability shall be shown to have a power loss rate of less than 1 per 100,000 engine hours.

(2) The operator shall be responsible for engine trend monitoring.

(3) To minimize the probability of in-flight engine failure, the engine shall be equipped with

- a) an ignition system that activates automatically, or is capable of being operated manually for take-off and landing, and during flight, is visible moisture;
- b) a magnetic particle detection of equivalent system that monitors the engine, accessories gearbox, and reduction gearbox, and which includes a flight deck caution indication; and
- c) an emergency engine power control device that permits continuing operation of the engine through a sufficient power range to safely complete the flight in the event of any reasonably probable failure of the fuel control unit.

System and Equipment

2. (1) Single-engine turbine-powered aero planes approved to operate at night and/or in IMC shall be equipped with the following systems and equipment intended to ensure continued safe flights and to assist in achieving a safe forced landing after an engine failure, under all allowable operating conditions:

- (a) two separate electrical generating systems, each one capable of supplying all probable combinations of continuous in-flight electrical loads for instruments,

- equipment and systems required at night and/or in IMC;
- (b) a radio altimeter
 - (c) an emergency electrical supply system of sufficient capacity and endurance, following loss of all generated power, at minimum to –
 - (i) maintain the operation of all essential flight instruments, communication and navigation systems during a descent from the maximum certificated altitude in a glide configuration the completion of a landing;
 - (ii) lower the flaps and landing gear, if applicable;
 - (iii) provide power to one pilot heater, which must serve an air speed indicator clearly visible to the pilot;
 - (iv) provide for operation of the landing light specified in subparagraph (j);
 - (v) provide for one engine restart if applicable; and
 - (vi) provide for the operation of the radio altimeter;

***NOTE:** Power loss in this context is defined as any loss of power, the cause of which may be traced to faulty engine or engine component design or installation, including design or installation of the fuel ancillary or engine control systems.

- (d) Two (2) attitude indicators, powered from independent sources;
- (e) A means to provide for at least one (1) attempt at engine restart;
- (f) Airborne weather radar;
- (g) A certified area navigation system capable of being programmed the positions of aerodromes and safe forced landing areas, and providing instantly available track and distance information to locations;
- (h) For passenger operations, passenger seats and mounts which meet dynamically-tested performance standards and which are fitted with a shoulder harness or a safety belt with a diagonal shoulder strap each passenger seat;
 - (i) In preddurised aeroplanes, sufficient supplemental oxygen for occupants for descent following engine failure at the maximum glide from the maximum certificated altitude to an altitude at which supplemental oxygen is no longer required;
 - (j) A landing light that is independent of the landing gear and is capable of adequately illuminating the touchdown area in a night forced landing; and
 - (k) An engine fire warning system.

Minimum Equipment List

- 3.** The minimum equipment list shall be approved in accordance with regulation 125 of these Regulations to specify the operating equipment required for night and/or IMC operations, and for day/VMC operations.

Flight Manual Information

4. The flight manual shall include limitations, procedures, approval status and other information relevant to operations by single-engine turbine-powered aeroplanes at night and/or in IMC.

Event Reporting

- 5.(1) An operator approved for operations by single-engine turbine powered aeroplanes at night and/or in IMC shall report all significant failure, malfunctions or defects to the state of the Operator who in turn will notify the State of Design.

(2) The Authority shall monitor operations in Performance Class 3 in Instrument Meteorological Conditions so as to be able to take any actions necessary to ensure that the intended safety level is maintained.

(3) The Authority shall notify major events or trends of particular concern to the appropriate Type Certificate holder, the State of Manufacture and the State of Design.

Operator Planning

6. During route planning, an operator shall take account of all relevant information in the assessment of intended routes or areas of operations, including the following:

- (a) The nature of the terrain to be over-flown, including the potential for carrying out a safe forced landing in the event of an engine failure or major malfunction;
- (b) Weather information, including seasonal and other adverse meteorological influences that may affect the flight; and
- (c) All other criteria and limitations specified by the Authority

Flight Crew Experience, Training and Checking

7. (1) The Authority shall prescribe the minimum flight crew experience for helicopters operating in Performance Class 3 in Instrument Meteorological Conditions.

(2) An operator's flight crew training and checking programme shall be appropriate to operations in Performance Class 3 in Instrument Meteorological Conditions, covering normal, abnormal and emergency procedures and in particular, detection of engine failure including descent to a forced landing in Instrument Meteorological Conditions and, for single engine helicopters, entry into a stabilized auto-rotation.

Route Limitations Over water

8. Route limitations criteria for single-engine turbine-powered aeroplanes operating at night or in IMC on over-water operations shall be applied if beyond gliding distance from an area suitable for safe forced landing/ditching having regard to the characteristics of the aeroplane, seasonal weather influences, including likely sea state and temperature, and the availability of search and rescue services.

Operator Certification or Validation

- 9.** The operator shall demonstrate the ability to conduct operations in Performance Class 3 in Instrument Meteorological Conditions through a certification and approval process specified by the State of the Operations.

Note 1. A “safe” forced landing in this context means a landing in an area at which it can reasonably be expected that it will not lead to serious injury or loss of life, even though the aeroplane may incur extensive damage.

Note 2. Operation over routes and in weather conditions that permit a safe forced landing in the event of an engine failure as specified in regulation 111(4) of these Regulations is not required by paragraph 6(1) and 6(2) of this Schedule for aeroplanes approved in accordance with regulation 121 of these Regulations.

SCHEDULE 8

(Regulation 122)

Airworthiness and operations requirements referred to in regulation 122, shall satisfy the following:

Engine Reliability

1. Attaining and maintaining approval for engines used by helicopters operating in Performance Class 3 in Instrument Meteorological Conditions –

(a) In order to attain initial approval for exiting in service engine types, the operator shall assure the Authority that the reliability of the engine has a nominal power loss rate of less than 1 per 100,00 engine hours based on risk management process;

Note: Power loss in this context is defined as any significant loss of power the cause of which may be traced to engine or engine component, design, maintenance or installation, including design or installation of the fuel ancillary or engine control systems.

(b) In order to attain initial approval for new engine types, the operator shall assure the Authority that the State of Design has assessed the engine model for acceptance for operations in Performance Class 3 in Instrument Meteorological Conditions;

(c) In order to maintain approval, the operator shall assure the Authority that the State of Design, through the continuing airworthiness process, ensures that

engine reliability remains consistent with the intent of the Standard contained in paragraph (a).

2. The operator shall be responsible for a programme for ongoing engine trend monitoring.
3. To minimise the probability of in-flight engine failure, the operator shall ensure that the engine is equipped with –
 - (a) For turbine engines, a reignition system that activates automatically or manually selectable continuous ignition system unless the engine certification has determined that such a system is not required, taking into consideration the likely environmental conditions in which the engine is to be operated;
 - (b) A magnetic particle detection or equivalent system that monitors the engine, accessories gearbox, and reduction gearbox and which includes a flight deck caution indication; and
 - (c) A means that would permit continuing operation of the engine through a sufficient power range to safely complete the flight in the event of any reasonably probable failure of the furl control unit.

Systems and Equipment

4. Helicopters operating in Performance Class 3 in Instrument Meteorological Conditions shall be equipped with the following systems and equipment intended to ensure continued safe flight or to assist in achieving a safe forced landing after an engine failure under all allowable operating conditions –

- (a) Either two (2) separate electrical generating systems each one capable of supplying all probable combinations of continuous in-flight electrical loads for instrument, equipment and systems required in Instrument Meteorological Conditions or a primary electrical source and a standby battery or other alternate source of electric power that is capable of supplying 150 percent (150%) of electrical load of all required instruments and equipment necessary for safe emergency operations of the helicopter for at least one (1) hour; and
- (b) An emergency electrical supply system of sufficient capacity and endurance following loss of all normally generated power to as a minimum:

Note: If an battery is used to satisfy the requirement for a second power source (see clause 4(a) above), an additional electrical power supply may not be required.

- (i) Maintain the operation of all essential flight instruments, communication and navigation systems during a descent from the maximum certificated altitude in an auto-rotational configuration to the completion of a landing;
 - (ii) Maintain the operation of the stabilization system, if applicable;
 - (iii) Lower the landing gear, if applicable;
 - (iv) Where required, provide power to one (1) pilot heater, which must serve an air speed indicator clearly visible to the pilot;
 - (v) Provided for landing light operations;
 - (vi) Provide for the operation of the radio altimeter;
- (c) A radio altimeter;
- (d) An autopilot if intended as a substitute for a second pilot. In these cases the State of Operator shall ensure the operator's approval clearly states any conditions or limitations on its use;
- (e) A means to provide for at least one (1) attempt at engine restart;
- (f) An area navigation system approved for use in Instrument Flight Rules, capable of being used to locate suitable landing areas in the event of any emergency;
- (g) A landing light that is independent of retractable landing gear and is capable of adequately illuminating the touchdown area in a night forced landing; and
- (h) An engine fire warning system.

Minimum Serviceability Requirements – Operating Equipment

5. The Authority shall specify the minimum serviceability requirements for operating equipment in helicopters operating in Performance Class 3 in Instrument Meteorological Conditions.

Operations Manual Information

6. The operations manual shall include limitations, procedures, approval status and other information relevant to operations in Performance Class 3 in Instrument Meteorological Conditions.

Event Reporting

7. (1) An operator approved to conduct operations by helicopters in Performance Class 3 in Instrument Meteorological Conditions shall report all significant failures, malfunctions or defects to the Authority, the State of Manufacture and the State of Design.

(2) The Authority shall monitor operations in Performance Class 3 in Instrument Meteorological Conditions so as to be able to take any actions necessary to ensure that time intended safety level is maintained.

(3) the Authority shall notify major events or trends of particular concern to the appropriate Type Certificate holder, the State of Manufacture and the State of Design.

Operating Planning

8. During route planning, an operator shall take account of all relevant information in the assessment of intended routes or areas of operations, including the following:

(a) The nature of the terrain to be over-flown, including the potential for carrying out a safe forced landing in the event of an engine failure or major malfunction;

(b) Weather information, including seasonal and other adverse meteorological influences that may affect the flight; and

(c) All other criteria and limitations specified by the Authority.

Flight Crew Experience, Training and Checking

9. (1) the Authority shall prescribe the minimum flight crew experience for helicopters operating in Performance Class 3 in Instrument Meteorological Conditions.

(2) an operator's flight crew training and checking programme shall be appropriate to operations in Performance Class 3 in Instrument Meteorological Conditions, covering normal, abnormal and emergency procedures and in particular, detection of engine failure including descent to a forced landing in Instrument Meteorological Conditions and for single engine helicopters entry into a stabilized auto-rotation.

Operator Certification or Validation

10. An operator shall demonstrate the ability to conduct operations in Performance Class 3 in Instrument Meteorological Conditions through a certification and approval process specified by the Authority.

SCHEDULE 9

(Regulation 165)

The universal signs to be used in air transport operations still have the following meanings:

(a) Distress signals. The following signals, used either together or separately, mean that grave and imminent danger threatens, and immediate assistance is requested:

- (i) A signal made by radiotelegraphy or by any other signaling method consisting of the group SOS (• • • — — • • • in the Morse Code);
 - (ii) A signal sent by radiotelegraphy consisting of the spoken word MAYDAY;
 - (iii) Rockets or shell throwing red lights, fired one at a time at short intervals; and
 - (iv) A parachute flare showing a red light;
-
- (b) None of the provisions in this clause shall prevent the use, by an aircraft in distress, of any means at its disposal to attract attention, make known its position and obtain help;
-
- (c) The following signals, used either together or separately, means that an aircraft wishes to give notice of difficulties which compel it to land without requiring immediate assistance:
 - (i) The repeated switching on and off the landing lights; or
 - (ii) The repeated switching on and off of the navigation lights in such manner as to be distinct from flashing navigation lights;
-
- (d) The following signals, used either together or separately, means 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:
 - (i) A signal made by the radiotelegraphy or by any other signaling method consisting of the group XXX; and
 - (ii) A signal sent by radiotelegraphy consisting of the spoken words PAN, PAN;
-
- (e) The following signals shall be used in the event of interception:
 - (i) Signals initiated by intercepting aircraft and responses by intercepted aircraft;

(ii)

Series	INTERCEPTING Aircraft Signals	Meaning	INTERCEPTED	Series
1	<p>DAY or NIGHT – 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 turn, normally to the left, (or to the right in the case of a helicopter) on the desired heading</p> <p>- Meteorological conditions or terrain may require the intercepting aircraft to reverse the positions and direction of turn given above in Series 1.</p> <p>- If the intercepted aircraft is not able to keep pace with the intercepted</p>	<p>You have been intercepted. Follow me</p>	<p>Day or Night – Rocking aircraft, flashing navigational lights at irregular intervals and</p>	<p>Understood, will comply</p>

	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 break-away manoeuvre from the intercepted aircraft consisting of a climbing turn of 90 degrees or more without crossing the line of flight of the intercepted aircraft.	You may proceed	DAY or NIGHT Rocking the aircraft	Understood will comply
3	DAY or NIGHT – Lowering landing gear (if fitted), showing steady landing lights and overlying runway in use or, if the intercepted aircraft is a helicopter, over flying the helicopter landing area. In the case of helicopters, the intercepting helicopter makes a landing approach, coming to hover near 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 overlying the runway in use or helicopter landing area, landing is considered safe, proceeding to land	Understood will comply

(i) Signals initiated by the intercepted aircraft and response by intercepting aircraft

Series	INTERCEPTING Aircraft Signals	Meaning	INTERCEPTED	Series

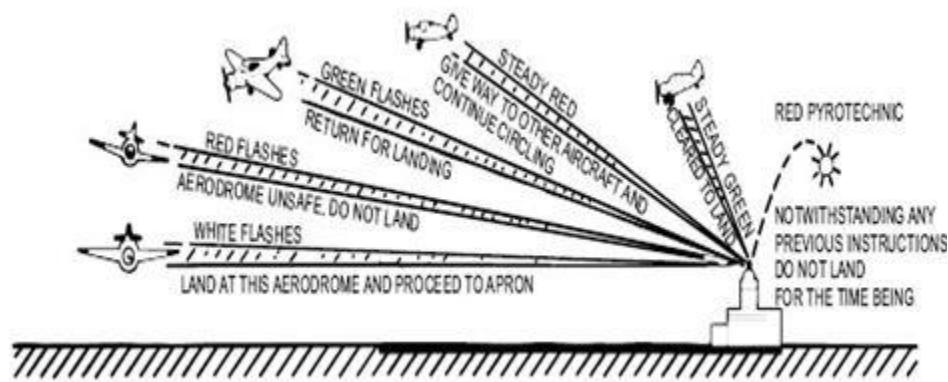
4	DAY or NIGHT – Raising landing gear (if fitted) and flashing landing lights while passing over runway in use or helicopter landing area at a height exceeding 300 metres (1000 feet) but not exceeding 600 metres (2000 feet) (in the case of a helicopter, at a height exceeding 50 metres (170 feet) but not exceeding 100 metres (330 feet) 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.	Aerodrome you have designated is inadequate	DAY or NIGHT If it is desired that the intercepted aircraft follow the intercepting aircraft to an alternate aerodrome, the intercepting aircraft raises its landing gear (if fitted) and uses Series 1 signals prescribed for intercepting aircraft. If it is decided to release the intercepted aircraft, the intercepting aircraft uses the Series 2 signals prescribed for intercepting aircraft	Understood follow me
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

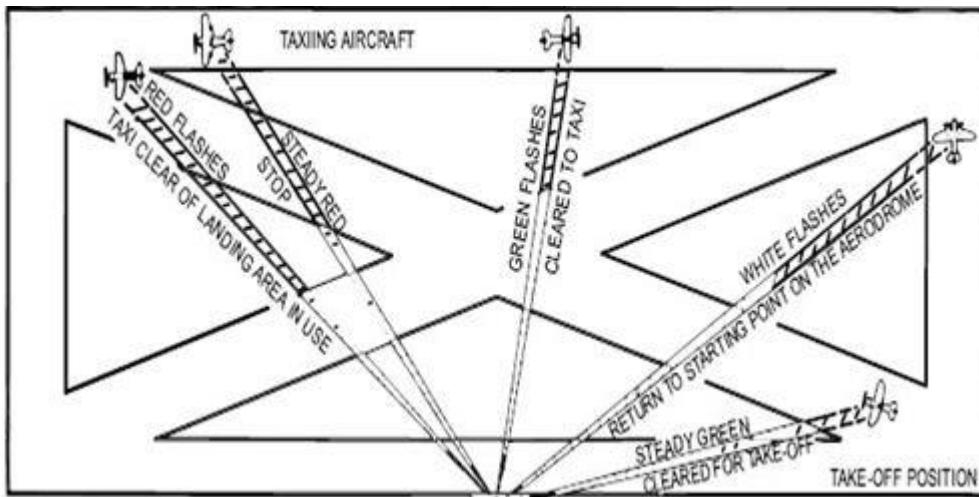
(f) visual signals used to warn an unauthorised aircraft. By day and by night, a series of projectiles discharged from the ground at intervals of ten (10) seconds, each showing, on bursting, red and green lights or stars will indicate to an unauthorised aircraft that it is flying in or about to enter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

(g) Signals for aerodrome traffic. Aerodrome controllers shall use and pilots shall obey the following light and pyrotechnic signals:

Light	From Aerodrome Control to:		
	Aircraft in Flight	Aircraft on the Ground	
Directed towards aircraft concerned (See Figure 1.1)	Steady green Steady red Series of green flashes Series of red flashes Series of white flashes Red pyrotechnic	Cleared to land Give way to other aircraft and continue circling Return for landing* Aerodrome unsafe do not land Land at this aerodrome and proceed to apron* Notwithstanding any previous instructions, do not land for the time being	Cleared for take off Stop Cleared to taxi Taxi cleared of landing area in use Return to starting point on the aerodrome

*Clearances to land and to taxi will be given in due course.





(f) Pilots shall acknowledge the aerodrome controller signals as follow:

(g) When in flight –

- A. During the hours of daylight by rocking the aircraft's wings; and

Note: this signal should not be expected on the base and final legs of the approach

- B. During the hours of darkness by flashing on and off twice the aircraft's landing light or, if not so equipped, by switching on and off twice its navigation lights;

(iii) When on the ground -

- A. During the hours of daylight by moving the aircraft's ailerons or rudder; and
- B. 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.

(i) Aerodrome authorities shall use the following visual ground signals during the following situations:

- (i) Prohibition of landing.

A horizontal red square panel with yellow diagonals (Figure 8.2) when displayed in a signal area indicates that landings are prohibited and that the prohibition is liable to be prolonged;



- (ii) Need for special precautions while approaching or landing.

A horizontal red square panel with one (1) yellow diagonal (Figure 8.3) when displayed in a signal area indicates that owing to the bad state of the maneuvering area, or for any other reason, special precautions shall be observed in approaching to land or in landing.

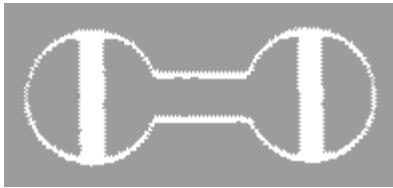


- (iii) Use of runways and taxiways.

A horizontal white dumb-bell (Figure 8.4) when displayed in a signal area indicates that aircraft are required to land, take off and taxi on runways and taxiways only.



- (iv) The same horizontal white dumb-bell as in Figure 8.4, but with a black bar placed perpendicular to the shaft across each circular portion of the dumb-bell (Figure 8.5) when displayed in a signal area indicates that aircraft are required to land and take off runways only, but other manoeuvres need not be confined to runways and taxiways.



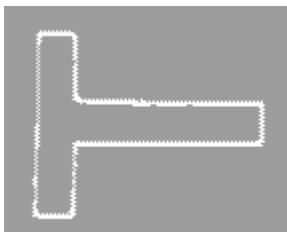
- (v) Closed runways or taxiways.

Crosses of a single contrasting colour, yellow or white (Figure 8.6) displayed horizontal on runways and taxiways or parts thereof indicate an area unfit for movement of aircraft.



- (vi) Directions for landing or take-off. A horizontal white or orange landing T (Figure 8.7) 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.

Note: When used at night, the landing T is either illuminated or outlined in white coloured lights.

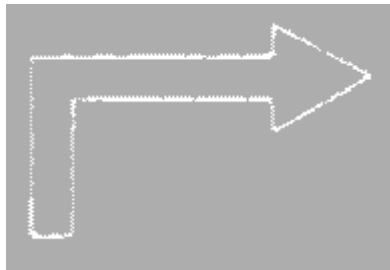


- (vii) A set of two digits (Figure 8.8) displayed vertically at or near the aerodrome control tower indicates to aircraft on the maneuvering area the direction for take-off, expressed in units of ten (10) degrees to the nearest ten (10) degrees of the magnetic compass.



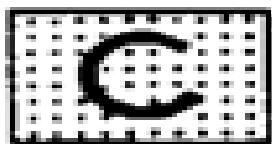
(viii) Right-hand traffic.

When displayed in a signal area, or horizontal at the end of the runway or strip in use, a right-hand arrow of conspicuous colour (Figure 8.9) indicates that turns are to be made to the right before landing and after take-off.



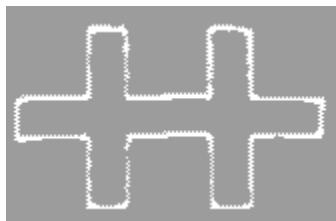
(ix) Air traffic services reporting office.

The letter C displayed vertically in black against a yellow background (Figure 8.10) indicates the location of the air traffic services reporting office.



(x) Glider flights in operations.

A double white cross displayed horizontally (Figure 8.11) in the signal area indicates that the aerodrome is being used by gliders and that glider flights are being performed.



(h) The following marshalling signals shall be used form a signalman to an aircraft.

These signals are designed for use by this signalman, with hands illuminated as necessary to facilitate observation by the pilot, and facing the aircraft in a position:

- (i) For fixed-wing aircraft, the signalman shall be positioned forward of the left-wing tip within view of the pilot and for helicopters, where the signalman can best be seen by the pilot.

The meaning of the relevant signals remains the same if bats, illuminated wands or torch light are held.

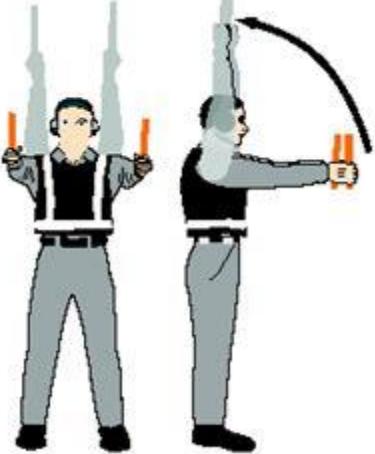
Note: The aircraft engines are numbered, for the signalman facing the aircraft from right to left (i.e., No. I engine being the port outer engine).

Noted: Signals marked with an asterisk are designed for use to hovering helicopters.

- (ii) Prior to using the following signals, the signalman shall ascertain that the area within which an aircraft is to be guided is clear of objects which the aircraft might otherwise strike.

Note: The design of many aircraft is such that the path of the wing tips, engines and other extremities cannot always be monitored visually from the flight deck while the aircraft is being maneuvered on the ground.

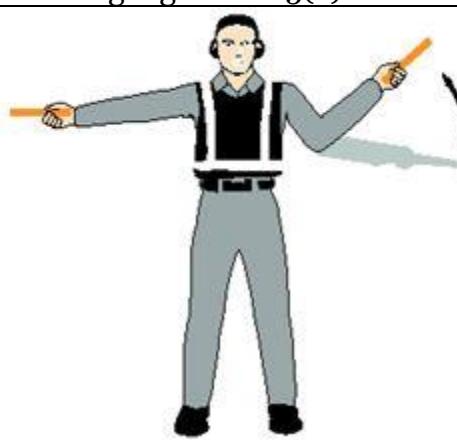
Marshalling Signal No. 1	
	<p>1. Wingwalker/guide</p> <p>Raise right hand above head level with wand pointing up; move left-hand wand pointing down toward body.</p> <p>Note.— This signal provides an indication by a person positioned at the aircraft wing tip,</p>

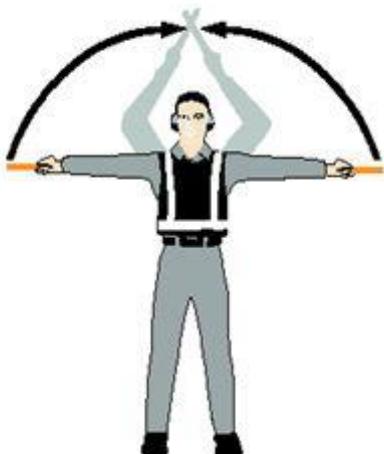
Marshalling Signal No. 2	
	<p>2. Identify gate</p> <p>Raise fully extended arms straight above head with wands pointing up.</p>

Marshalling Signal No. 3	
	<p>3. Proceed to next signalman or as directed by tower/ground control</p> <p>Point both arms upward; move and extend arms outward to sides of body and point with wands to direction of next signalman or taxi area.</p>

Marshalling Signal No. 4	
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	4. Straight ahead Bend extended arms at elbows and move wands up and down from chest height to head.
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Marshalling Signal No. 5(a)	
	5a). Turn left (from pilot's point of view) With right arm and wand extended at a 90-degree angle to body, make "come ahead" signal with left hand. The rate of signal motion indicates to pilot the rate of aircraft turn.

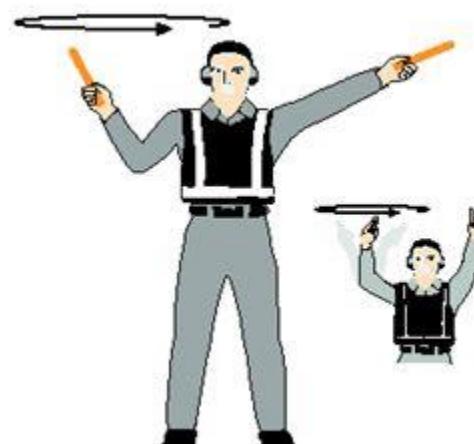
<p>Marshalling Signal No. 5(b)</p> 	<p>5b). Turn right (from pilot's point of view)</p> <p>With left arm and wand extended at a 90-degree angle to body, make "come ahead" signal with right hand. The rate of signal motion indicates to pilot the rate of aircraft turn.</p>
<p>Marshalling Signal No. 6(a)</p> 	<p>6a). Normal stop</p> <p>Fully extend arms and wands at a 90-degree angle to sides and slowly move to above head until wands cross.</p>

Marshalling Signal No. 6(b)	6b). Emergency stop  Abruptly extend arms and wands to top of head, crossing wands.
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Marshalling Signal No. 7(a)	7a). Set brakes  Raise hand just above shoulder height with open palm. Ensuring eye contact with flight crew, close hand into a fist. Do not move until receipt of "thumbs up" acknowledgement from flight crew.
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Marshalling Signal No. 7(b)	 <p>7b). Release brakes Raise hand just above shoulder height with hand closed in a fist. Ensuring eye contact with flight crew, open palm. Do not move until receipt of "thumbs up" acknowledgement from flight crew.</p>
Marshalling Signal No. 8(a)	 <p>8a). Chocks inserted With arms and wands fully extended above head, move wands inward in a "jabbing" motion until wands touch. Ensure acknowledgement is received from flight crew.</p>

Marshalling Signal No. 8(b)	
	<p>8b). Chocks removed</p> <p>With arms and wands fully extended above head, move wands outward in a "jabbing" motion.</p> <p>Do not remove chocks until authorised by flight crew</p>

Marshalling Signal No. 9	
	<p>9. Start engine(s)</p> <p>Raise right arm to head level with wand pointing up and start a circular motion with hand; at the same time, with left arm raised above head level, point to engine to be started</p>

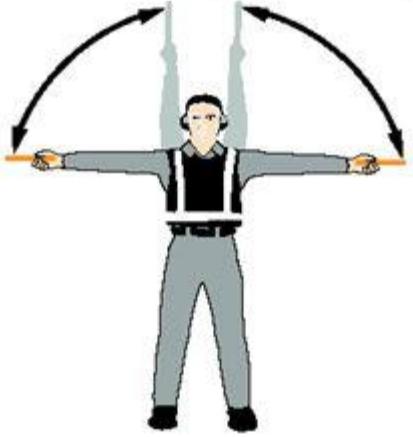
Marshalling Signal No. 10	10. Cut engines 
Marshalling Signal No. 11	11. Slow down 

Marshalling Signal No. 12	
	12.

Marshalling Signal No. 13	
	13

Marshalling Signal No. 14(a)	<p>14a). Turns while backing (for tail to starboard)</p>  <p>Point left arm with wand down and bring right arm from overhead vertical position to horizontal forward position, repeating right-arm movement.</p>
Marshalling Signal No. 14(b)	<p>14b). Turns while backing (for tail to port)</p>  <p>Point right arm with wand down and bring left arm from overhead vertical position to horizontal forward position, repeating left-arm movement.</p>

Marshalling Signal No. 15	 <p>15. Affirmative/all clear Raise right arm to head level with wand pointing up or display hand with "thumbs up"; left arm remains at side by knee.</p> <p>Note.— This signal is also used as a technical/ servicing communication signal</p>
Marshalling Signal No. 16	 <p>*16. Hover Fully extend arms and wands at a 90-degree angle to sides.</p>

Marshalling Signal No. 17	 <p>*17. Move upwards Fully extend arms and wands at a 90-degree angle to sides, and with palms turned up move hands upwards. Speed for movement indicates rate of ascent</p>
Marshalling Signal No. 18	 <p>18. Move downwards Fully extend arms and wands at a 90-degree angle to sides and, with palms turned down, move hands downwards. Speed of movement indicates rate of descent.</p>

Marshalling Signal No. 19(a)	 <p>*19a). Move horizontally left (from pilot's point of view) Extend arm horizontally at a 90-degree angle to right side of body. Move other arm in same direction in a sweeping motion.</p>
Marshalling Signal No. 19(b)	 <p>*19b). Move horizontally right (from pilot's point of view) Extend arm horizontally at a 90-degree angle to left side of body. Move other arm in same direction in a sweeping motion.</p>

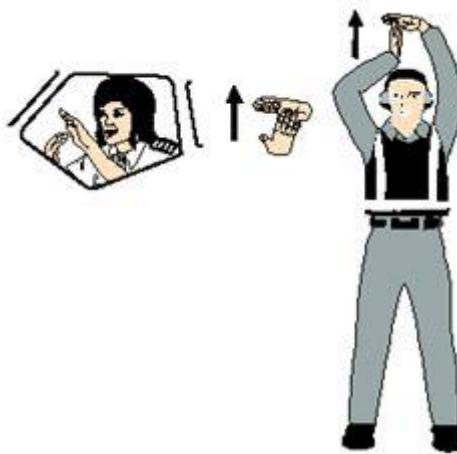
Marshalling Signal No. 20	
	*20. Land Cross arms with wands downwards and in front of body.

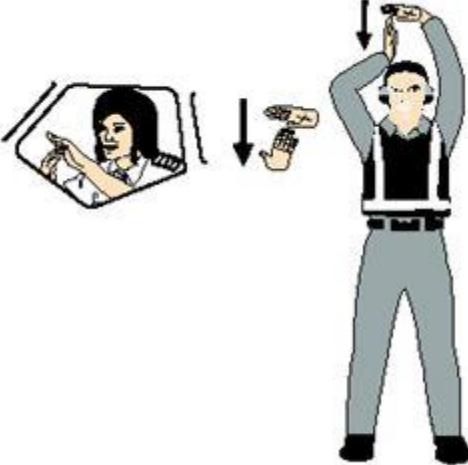
Marshalling Signal No. 21	
	21. Hold position/stand by Fully extend arms and wands downwards at a 45-degree angle to sides. Hold position until aircraft is clear for next manoeuvre.

Marshalling Signal No. 22	 22. Dispatch aircraft Perform a standard salute with right hand and/or wand to dispatch the aircraft. Maintain eye contact with flight crew until aircraft has begun to taxi.
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Marshalling Signal No. 23	 23. Do not touch controls (technical /servicing communication signal) Extend right arm fully above head and close fist or hold wand in horizontal position; left arm remains at side by knee.
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Marshalling Signal No. 24	 <p>24. Do not touch controls (technical /servicing communication signal)</p>
	<p>Extend right arm fully above head and close fist or hold wand in horizontal position; left arm remains at side by knee.</p>

Marshalling Signal No. 25	 <p>25. Connect ground power (technical/servicing communication signal) Hold arms fully extended above head; open left hand horizontally and move finger tips of right hand into and touch open palm of left hand (forming a "T"). At night, illuminated wands can also be used to form the "T" above</p>
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Marshalling Signal No. 26		<p>Disconnect power (technical servicing communication signal)</p> <p>Hold arms fully extended above head with finger tips of right hand touching open horizontal palm of left hand (forming a "T"); then move right hand away from the left. Do not disconnect power until authorised by flight crew. At night,</p>
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Marshalling Signal No. 27		<p>27. Negative (technical/servicing communication signal)</p> <p>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.</p>
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Marshalling Signal No. 28	 <p>28. Establish communication via interphone (technical/servicing communication signal)</p> <p>Extend both arms at 90 degrees from body and move hands to cup both ears.</p>
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Marshalling Signal No. 29	 <p>29. Open/close stairs (technical/servicing communication signal)</p> <p>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.</p> <p>Note.— This signal is intended mainly for aircraft with the</p>
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- (l) Signals from the pilot of an aircraft to a signalman. The pilot-in-command or co-pilot shall use the following signals when communicating with signalman:

- (i) Brakes engaged: raise arm and hand, with fingers extended, horizontally in front of face then clench fist;
- (ii) Brakes releases, raise arm, with fist clenched horizontally in front of face, then extend fingers;

Note: these signals are designed for use by a pilot in the cockpit with hands plainly visible to the signalman and illuminated as necessary to facilitate observation by the signalman.

Note: The aircraft engines are numbered in relation to the signalman facing the aircraft from right to left (i.e., No. I engine being the port outer engine).

Note: The moment the fist is clenched, or the fingers are extended indicates, respectively, the moment of brake engagement or release.

- (iii) Insert chocks arms extended, palms outwards, move hands inwards to cross in front of face;
 - (iv) Remove chocks hands crossed in front of face, palms outwards, move arms outwards; and
 - (v) Ready to start engine(s). Raise the appropriate number of fingers on one hand indicating the number of the engine to be started;
- (m) (A) Marshalling Signals No. 24 to 28 regarding technical/servicing communication signals shall only be used when verbal communication is not possible with respect to technical and servicing communication signals
- (B) Signalmen shall ensure that an acknowledgement is received from the flight crew with respect to technical and servicing communication.
- (n) (A) Standard emergency hand signals. The following hand signals are established as the minimum required for emergency communication between the aircraft rescue and firefighting (ARFF) incident commander or ARFF firefighters and the flight crew or cabin crews of the incident aircraft.
- (B) ARFF emergency hand signals should be given from the left front side of the aircraft for the flight crew.
- (C) in order to communicate more effectively with the cabin crew, emergency hand signals may be given by ARFF firefighters from other positions.

1. Recommended evacuation

Evacuation recommended based on ARFF 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

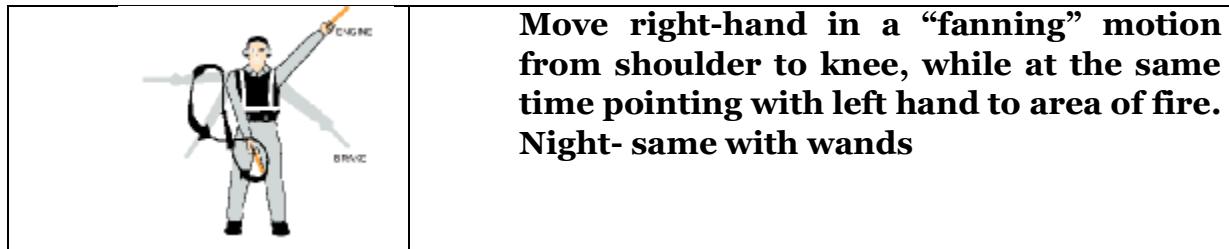
2. Recommended stop

Recommend evacuation in progress he halted. Stop aircraft movement or other activity in progress. Arms in front of head, crossed at wrist. Night- same with wands

3. Recommended contained

No outside evidence of dangerous conditions or "allclear." 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 (umpire's "safe" signal). Night- same with wands.

4. Fire



(o) Interception of Civil Aircraft:

(i) Principles to be observed by States:

A. To achieve the uniformity in regulations which is necessary for the safety to navigation of civil aircraft, due regard shall be had by Contracting States to the following principles when developing regulations and administrative directives:

I. Interception of civil aircraft will be undertaken only as a last resort;

II. If undertaken, an interception will be limited to determining the identity of the aircraft, unless it is necessary to return the aircraft to its planned track, direct it beyond the boundaries of national airspace, guide it away from a prohibited restricted or danger area or instruct it to effect a landing at a designated aerodrome;

III. Practice interception of civil aircraft will not be undertaken;

IV. Navigational guidance and related information will be given to an intercepted aircraft by radiotelephony, whenever radio contact can be established; and

V. In the case where an intercepted civil aircraft is required to land in the

territory over-flown, the aerodrome designated for the landing is to be suitable for the safe landing of the aircraft type concerned.

Note: in the unanimous adoption by the 25th Session (Extraordinary) of the ICAO Assembly on 10 May 1984 of Article 3 is to the Convention on International Civil Aviation, the Contracting States have recognized that “every State shall refrain from resorting to the use of weapons against civil aircraft in flight”.

- B. Contracting States shall publish a standard method that has been established for the maneuvering of aircraft intercepting a civil aircraft. Such method shall be designed to avoid any hazard for the intercepted aircraft;
- C. Contracting States shall ensure that provision is made for the use of secondary surveillance radar, where available to identify civil aircraft in areas where they may be subject to interception.

(ii) Action by intercepted aircraft –

- A. An aircraft which is intercepted by another aircraft shall immediately –
 - I. Follow the instructions given by the intercepting aircraft, interpreting and responding to visual signals specified in Implementing standard 1;
 - II. Notify, if possible the appropriate air traffic services unit;
 - III. 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;

- IV. If equipped with Secondary Surveillance Radar transponder, select Mode A Code 7700, unless otherwise instructed by the appropriate air traffic services unit;
- V. Where equipped with Automatic Dependent Surveillance - Broadcast or Automatic Dependent Surveillance Contract select the appropriate emergency functionality where available unless otherwise instructed by the appropriate air traffic services unit.
- B. 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;
- C. 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;
- (p) Radio communication during interception - if the radio contact is established during interception but communication in a common language is not possible, attempts shall be made to convey instructions acknowledgement of instruction and essential information by using the phrases and pronunciations in the table below and transmitting each phrase twice:

Phrases for use by INTERCEPTING aircraft			Phrases for use by INTERCEPTED aircraft		
Phrase	Pronunciation	Meaning	Phrase	Pronunciation	Meaning
CALL SIGN	KOL SA-IN	What is your call sign?	CALL SIGN	KOL SA-IN(call sign)	My call sign is (call sign)
FOLLOW	FOL-LO	Follow me	WILCO	VILL-KO	Understood Will comply
DESCEND	DEE-SEND	Descend for landing	CAN NOT	KANN NOTT	Unable to comply

YOU LAND	YOU LAAND	Land at this aerodrome	REPEAT	REE-PEET	Repeat your instruction
PROCEED	PRO-SEED	You may proceed	AM LOST	AM-LOST	Position unknown
			MAYDAY	MAYDAY	I am in distress
			HIJACK 3	HI-JACK	I have been hijacked
			LAND (place name)	LAAND (place name)	I requested to land at (place name)
1. In the second column, syllables to be emphasized are underlined. 2. The call sign required to be given is that used in radiotelephone communications with air traffic services units and corresponding to the aircraft identification in the flight plan. 3. Circumstance may not always permit, nor make desirable the use of the phrase "HIJACK"					

(q) (i) Cruising Levels: Non-RVSM (feet)

TRACK*											
From 000 degrees to 179 degrees**						From 180 degrees to 359 degrees**					
IFR Flights			VFR Flights			IFR Flights			VFR Flights		
FL	Level Feet	Metres	FL	Level Feet	Metres	FL	Level Feet	Metres	FL	Level Feet	Metres
010	11 000	11 300	—	—	—	020	12 000	600	—	—	—
030	13 000	900	035	13 500	11 050	040	14 000	11 200	045	14 500	11 350
050	15 000	11 500	055	15 500	11 700	060	16 000	11 850	065 1	6 500	12 000
070	17 000	12 150	075	17 500	12 300	080 1	8 000	12 450	085	18 500	12 600
090	19 000	12 750	095	19 500	12 900	100	10 000	13 050	105	10 500	13 200
110	11 000	13 350	115	11 500	3500	120	12 000	13 650	125	12 500	13 800
130	13 000	13 950	135	13 500	14 100	140	14 000	14 250	145	14 500	14 400
150	15 000	14 550	155	15 500	14 700	160	16 000	14 900	165	16 500	15 050
170	17 000	15 200	175	17 500	15 350	180	18 000	15 500	185	18 500	15 650
190	19 000	15 800	195	19 500	15 950	200	20 000	16 100	205	20 500	16 250
210	21 000	16 400	215	21 500	16 550	220	22 000	16 700	225	22 500	16 850
230	23 000	17 000	235	23 500	17 150	240	24 000	17 300	245	24 500	17 450
250	25 000	17 600	255	25 500	17 750	260	26 000	17 900	265	26 500	18 100
270	27 000	18 250	275	27 500	18 400	280	28 000	18 550	285	28 500	18 700
290	29 000	18 850	300	30 000	19 150	310	31 000	19 450	320	32 000	19 750
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	420	42 000	12 800	430	43 000	13 100	440	44 000	13 400
450	45 000	13 700	460	46 000	14 000	470	47 000	14 350	480	48 000	14 650
490	49 000	14 950	500	50 000	15 250	510	51 000	15 550	520	52 000	15 850
etc.	etc.	etc.	etc.	etc.	etc.	etc.	etc.	etc.	etc.	etc.	etc.

*Magnetic track, or in polar areas at latitudes higher than seventy (70) degrees within such extensions to those areas as may be prescribed by the appropriate ATS 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.

**Except where, on the basis of regional air navigation agreements, from 090 to 269 degrees and from 270 to 089 degrees is prescribed to accommodate predominant traffic directions and appropriate transition procedures to be associated therewith are specified.
Note: Guidance material relating to vertical separation is contained in the Manual on Implementation of 1,000ft Vertical Separation Minimum between FL290 and FL410 Inclusive (ICAO Doc 9574)

(iii) Cruising Levels: RVSM (feet)

TRACK*											
From 000 degrees to 179 degrees**						From 180 degrees to 359 degrees**					
IFR Flights			VFR Flights			IFR Flights			VFR Flights		
FL	Level Feet	Metres	FL	Level Feet	Metres	FL	Level Feet	Metres	FL	Level Feet	Metres
010	11 000	11 300	—	—	—	020	12 000	600	—	—	—
030	13 000	900	035	13 500	11 050	040	14 000	11 200	045	14 500	11 350
050	15 000	11 500	055	15 500	11 700	060	16 000	11 850	065 1	6 500	12 000
070	17 000	12 150	075	17 500	12 300	080 1	8 000	12 450	085	18 500	12 600
090	19 000	12 750	095	19 500	12 900	100	10 000	13 050	105	10 500	13 200
110	11 000	13 350	115	11 500	3500	120	12 000	13 650	125	12 500	13 800
130	13 000	13 950	135	13 500	14 100	140	14 000	14 250	145	14 500	14 400
150	15 000	14 550	155	15 500	14 700	160	16 000	14 900	165	16 500	15 050
170	17 000	15 200	175	17 500	15 350	180	18 000	15 500	185	18 500	15 650
190	19 000	15 800	195	19 500	15 950	200	20 000	16 100	205	20 500	16 250
210	21 000	16 400	215	21 500	16 550	220	22 000	16 700	225	22 500	16 850
230	23 000	17 000	235	23 500	17 150	240	24 000	17 300	245	24 500	17 450
250	25 000	17 600	255	25 500	17 750	260	26 000	17 900	265	26 500	18 100
270	27 000	18 250	275	27 500	18 400	280	28 000	18 550	285	28 500	18 700
290	29 000	18 850				300	30 000	19 150			
310	31 000	9 450				320	32 000	9 750			
330	33 000	10 050				340	34 000	10 350			
350	35 000	11 300				360	36 000	10 950			
370	37 000	10 650				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.			

*Except when, on the basis of regional air navigation agreements, a modified table of cruising levels based on a nominal vertical separation minimum of one thousand feet (1,000 ft (300 m)) is prescribed for use, under specified conditions, by aircraft operating above FL 410 within designated portions of the airspace.

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

*** Except where, on the basis of regional air navigation agreements, from 090 to 269 degrees and from 270 to 089 degrees is prescribed to accommodate predominant traffic directions and appropriate transition procedure to be associated therewith are specified.

Note: Guidance material relating to vertical separation is contained in the manual on Implementation of a 1,000 ft. Vertical Separation Minimum between FL290 AND FL410 Inclusive (ICAO 9574)

SCHEDULE 10
(Regulation 168)

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	8km	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 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 above 300 m (1 000 ft) above terrain, whichever is the higher	A*** B C D E F G	5km 5 km**	1 500 m horizontally 300 m (1 000 ft) vertically Clear of clouds 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 should be used in lieu of 10 000 ft.

** When so prescribed by the ATS Authority:

(a) Flight visibilities reduced to not less than 1 500 m may be permitted for flights operating:

(a) At speeds that, in the prevailing visibility, will give adequate opportunity to observe other traffic or

any obstacle in time to avoid collision; or

(iii) In circumstances in which the probability of encounter 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 flight visibility, if maneuvered at a speed that will give adequate opportunity to observe other traffic or any obstacles in time to avoid collision.

*** The VMC minima in Class A airspace are included for guidance to pilot and do not imply acceptance of VFR flights in Class A airspace.

SCHEDULE 11

PART A

(Regulation 235)

Company procedures introduction training for national air operators shall include as applicable, the following:

- (a) Guyana Civil Aviation Regulations and Implementing Standards;
- (b) Air operator certificate and operating conditions;
- (c) Company organization, reporting relationships and communication procedures;
- (d) Flight planning and operating procedures;
- (e) Fueling procedures including procedures for fueling with passengers on board and fuel contamination precautions;

- (f) Critical surface contamination and safety awareness programme;
- (g) Passengers to/from the aeroplane;
- (h) Use and status of company operations manual including maintenance release procedures and accident/incident reporting procedures;
- (i) Use of minimum equipment list (where applicable);
- (j) Wind-shear, aeroplane icing, and other meteorological training appropriate of the area of operations;
- (k) Navigation procedures and other specialized operations applicable to the operator;
- (l) Accident/incident reporting;
- (m) Passenger on board medical emergency;
- (n) Handling of disabled passengers;
- (o) Air operator's flight safety programme;
- (p) Operational control system;
- (q) Weight and balance system procedure;
- (r) Standard operating procedures (where applicable); and
- (s) Pre-flight crew-member briefing.

PART B**(Regulation 238)**

1. A crew Resource Management Training Programme under regulation 238 shall include-
 - (a) An initial indoctrination or awareness segment;
 - (b) A method to provide recurrent practice and feedback; and
 - (c) A method of providing continuing reinforcement.
2. Curriculum topics to be contained in an initial Crew Resource Management training course include-
 - (a) Communications processes and decision behavior;
 - (b) Internal and external influences on interpersonal communications;
 - (c) Barriers to communication;

- (d) Listening skills;
- (e) Decision making skills;
- (f) Effective briefings;
- (g) Developing open communications;
- (h) Inquiry, advocacy, and assertion training;
- (i) Crew self-critique;
- (j) Conflict resolution;
- (k) Team building and maintenance;
- (l) Leadership and fellowship training;
- (m) Interpersonal relationship;
- (n) Workload management;
- (o) Situational awareness;
- (p) How to prepare, plan and monitor task completions;
- (q) Workload distribution;
- (r) Distraction avoidance;
- (s) Individual factors; and
- (t) Stress reduction.

PART C**(Regulation 239)****INITIAL EMERGENCY EQUIPMENT DRILLS**

1. Each aircraft crew member shall accomplish emergency training during the specified training period, using those items of installed emergency equipment for each type of aeroplane in which he or she is to serve.
2. During initial training, each aircraft crew member shall perform the following one-time emergency drills:
 - (a) Protective Breathing Equipment and Fire-Fighting Drills:
 - i. Locate source of fire or smoke (actual or simulated fire);

- ii. Implemented procedures for effective crew coordination and communication, including notification of flight crew members about fire situation;
- iii. On and activate installed PBE or approved PBE simulation device;
- iv. Maneuver in limited space with reduced visibility;
- v. Effectively use the aircraft's communication system;
- vi. Identify class of fire;
- vii. Select the appropriate extinguisher;
- viii. Properly remove extinguisher from securing device;
- ix. Prepare, operate and discharge extinguisher properly; and
- x. Utilize correct firefighting techniques for type of fire.

(b) Emergency evacuation drill:

- i. Recognize and evacuate an emergency;
- ii. Assume appropriate protective position
- iii. Command passengers to assume protective positions;
- iv. Implement crew co-ordination procedures;
- v. Ensure activation of emergency lights;
- vi. Assess aircraft conditions;
- vii. Initiate evacuation (dependent on signal or decision);
- viii. Command passengers to release seatbelts and evacuate;
- ix. Assess special need passengers, such as handicapped, elderly, and persons in a state of panic;
- x. Actually exit aircraft or training device using at least one (1) installed emergency evacuation slides;

Note: *The crew-member may either observe the aircraft exits being opened in the emergency mode and the associated exit slide or/raft pack being deployed and inflated, or perform the task resulting in the accomplishment of these actions.*

3. Each aircraft crew member shall accomplish additional emergency drill during initial training, including performing the following emergency drills:

(a) Emergency exit drill:

- i. Correctly pre-flight each type of emergency exit and evacuation slide or slide-raft (if part of cabin crew's assigned duties);
- ii. Disarm and open each type of door exit in normal mode;
- iii. Close each type of door exit in normal mode;
- iv. Arm of each type of door in exit emergency mode;
- v. Opening each type of door in exit emergency;
- vi. Use manual slide inflation system to accomplish or to ensure slide or slide-raft inflation;
- vii. Open each type of window exit; and
- viii. Remove escape rope and position for use;

(b) Hand fire extinguisher drill;

- i. Pre-flight each type of hand fire extinguisher;
- ii. Locate source of fire or smoke and identify class of fire;
- iii. Select appropriate extinguisher and remove from securing device;
- iv. Prepare extinguisher for use;
- v. Actually operate and discharge each type of installed hand fire extinguisher;

Note: Fighting an actual or a simulated fire is not necessary during this drill.

- vi. Utilize correct fire-fighting techniques for type of fire; and
- vii. Implement procedures for effective crew coordination and communication, including notification of crew members about the type of fire situation;

(c) Emergency oxygen system drill:

- i. Actually operate portable oxygen bottles, including masks and tubing;
- ii. Verbally demonstrate operation of chemical oxygen generators;
- iii. Prepare for use and operate oxygen device properly, including donning and activation;
- iv. Administer oxygen to self, passengers, and to these persons with special oxygen needs;

- v. Utilize proper procedures for effective crew coordination and communication;
- vi. Activate PBE;
- vii. Manually open each type of oxygen mask compartment and deploy oxygen masks;
- viii. Identify compartments with extra oxygen masks;
- ix. Implement immediate action decompression procedures; and
- x. Rest oxygen system, if applicable;

(d) Floatation device drill;

- i. Don and inflate life vests;
- ii. Remove and use floatation seat cushions; and
- iii. Demonstrate swimming techniques using a set cushion;

(e) Ditching drill, (if applicable):

Note: *During a ditching drill students shall perform the “prior to impact” and “after impact” procedures of a ditching, as appropriate to the specific operator’s type operation.*

- i. Implement crew co-ordination procedures, including briefing with caption to obtain pertinent ditching information and briefing cabin crews;
- ii. Co-ordinate time frame for cabin and passenger preparation;
- iii. Adequately brief passengers on ditching procedures;
- iv. Ensure cabin is prepared, including the securing of carry-on baggage, lavatories, and galleys;
- v. Demonstrate how to properly deploy and inflate slide-rafts;
- vi. Remove, position, attach slide-rafts to aircraft;
- vii. Inflate rafts;
- viii. Use escape ropes at over-wings exists;
- ix. Command helpers to assist;
- x. Use slides and seat cushions as floatation device;
- xi. Remove appropriate emergency equipment from aircraft;
- xii. Board rafts properly;

- xiii. Initiate raft management procedures (i.e., Disconnecting rafts from aircraft, applying immediate first aid, rescuing persons in water, salvaging floating rations and equipment, deploying sea anchor, tying rafts together, activating or ensure operation of emergency locator transmitter);
 - xiv. Initiate basic survival procedures (i.e., Removing and utilizing survival kit items, repairing and maintaining raft, ensuring protection from exposure, erecting canopy, communicating location, providing continued first aid, providing sustenance);
 - xv. Use heaving line to rescue persons in water;
 - xvi. Tie slide-rafts or rafts together;
 - xvii. Use life-line on edge of slide-rafts or raft as a handhold; and
 - xviii. Secure survival kit items.
4. Each aircraft crew member shall accomplish additional emergency drill requirements during initial recurrent training including observing the following emergency drills:
- (a) Life-raft removal and inflation drill, if applicable:
 - i. Removal of a life raft from the aircraft or training device; and
 - ii. Inflation of a life raft
 - (b) Slide-raft transfer drill:
 - i. Transfer of each type of slide-raft pack from an unusable door to a usable door;
 - ii. Disconnect slide-raft at unusable door;
 - iii. Redirect passengers to usable slide-raft; and
 - iv. Installation and deployment of slide-raft at usable door.
 - (c) Slide and slide-raft deployment, inflation, and detachment drill:
 - i. Engage slide girt bar in floor brackets;
 - ii. Inflate slides with and without quick-release handle (manually and automatically);
 - iii. Disconnecting slide from aircraft for use as a floatation device;
 - iv. Arm slide-rafts for automatic inflation; and
 - v. Disconnecting slide-raft from the aircraft.
 - (d) Emergency evacuation slide drill:

- i. Open armed exit with slide or slide-raft deployment and inflation; and
- ii. Egress from aircraft via the evacuation slide and run away to a safe distance.

PART D

(Regulation 240)

1. Flight crew-

(a) An air operator shall have an initial aircraft ground training curriculum for the flight crew applicable to the type of operations conducted and aircraft flown. Instructions shall include at least the following general subjects:

- i. Air operator's dispatch, flight release, or flight locating procedures;
- ii. Principles and methods for determining weight and balance, and runway limitations for takeoff; and
- iii. Adverse weather recognition and avoidance, and flight procedures which shall be followed with operating in the following conditions:

(A) Icing

(B) Fog;

(C) Turbulence;

(D) Heavy precipitation;

(E) Thunderstorms;

(F) Low-level wind-shear and microburst; and

(G) Low visibility

- iv. Normal and emergency communications procedures and navigation equipment including the national air operator communications procedures and Air Traffic Control clearance requirements;
- v. Navigation procedures used in area departure, en-route, area arrival, approach and landing phases;
- vi. Approved crew resource management training;
- vii. Air traffic control systems, procedures, and phraseology; and
- viii. Aircraft performance characteristics during all flight regimes, including-

- (A)The use of charts, tables, tabulated data and other related manual information;
 - (B)Normal, abnormal and emergency performance problems;
 - (C)Meteorological and weight limiting performance factors (such as temperature, pressure, contaminated runways, precipitation, climb/runway limits);
 - (D)Inoperative equipment performance limiting factors (such as MEL/CDL, inoperative anti-skid); and
 - (E)Special operational conditions (such as unpaved runways, high altitude aerodromes and drift down requirements)
- (b) An air operator shall have an initial aircraft ground training curriculum for the flight crew applicable to be the type of operations conducted and aircraft flown, including at least the following aircraft systems:
- i. Aircraft:
 - (A)Aircraft dimensions, turning radius, panel layouts, cockpits and cabin configurations; and
 - (B)Other major systems and components or appliances of the aircraft.
 - ii. Powerplants:
 - (A)Basic engine description;
 - (B)Engine thrust ratings; and
 - (C)Engine components such as accessory drive, ignition, oil, fuel control, hydraulic, and bleed air features;
 - iii. Electrical:
 - (A) Sources of aircraft electrical power (engine driven generators, APU generator, and external power);
 - (B)Electrical buses;
 - (C)Circuit breakers;
 - (D)Aircraft battery; and
 - (E)Standby power systems;
 - iv. Hydraulic:

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- (A) Hydraulic reservoirs, pumps, accumulators; filters, check values, interconnects and actuators; and
- (B) Other hydraulically operated components;

v. Fuel:

- (A) Fuel tanks (location and quantities);
- (B) Engine-driven pumps;
- (C) Boost pumps;
- (D) System valves and cross-feeds;
- (E) Quantity indicators; and
- (F) Provisions for fuel jettisoning

vi. Pneumatic:

- (A) Bleed air source (APU or external ground air); means of routing, venting and controlling bleed air via valves; and
- (B) Ducts, chambers, and temperature and pressure limiting devices;

vii. Air-conditioning and pressurization:

- (A) Heaters, air-conditioning packs, fans, and other environmental control devices;
- (B) Pressurization system components such as outflow and negative pressure relief valves; and
- (C) Automatic, standby, and manual pressurization controls and annunciators;

viii. Flight controls:

- (A) Primary controls (yaw, pitch, and roll devices);
- (B) Secondary controls (leading and trailing edge devices, flaps, trim, and damping mechanisms);
- (C) Means of actuation (direct, indirect or fly by wire); and
- (D) Redundancy devices;

ix. Landing gear:

- (A)Landing gear extension and retraction mechanism including the operating sequence of struts, doors, and locking devices, and brake and anti-skid systems, if applicable;
- (B)Steering (nose or body steering gears);
- (C)Bogie arrangements;
- (D)Air and ground sensor relays; and
- (E)Visual down-lock indicators;

x. Ice and rain protection:

- (A)Rain removal systems; and
- (B)Anti-icing and de-icing system(s) affecting flight controls, engines, pitot static probes, fluid outlets, cockpit windows, and aircraft structures;

xi. Equipment and furnishings:

- (A)Exits;
- (B)Galleys;
- (C)Water and waste systems;
- (D)Lavatories;
- (E)Cargo areas;
- (F)Crew members and passenger seats;
- (G)Bulkheads;
- (H) Seating and/or cargo configurations; and
- (I) Non-emergency equipment and furnishings;

xii. Navigation equipment:

- (A)flight directors;
- (B)horizontal situation indicator;
- (C)radio magnetic indicator;
- (D)navigation receivers (GPS, ADF, VOR, LORAN-C, RNAV, Marker Beacon, DME);
- (E)inertial; systems (INS, IRS);

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- (F) Function displays;
 - (G) Fault indications and comparator systems;
 - (H) Aircraft transponders;
 - (I) Radio altimeters;
 - (J) Weather radar; and
 - (K) Cathode ray tube or computer generated displays of aircraft position and navigation information;
- xiii. Auto flight system:
- (A) Autopilot;
 - (B) Auto throttles;
 - (C) Flight director and navigation systems;
 - (D) Automatic approach tracking;
 - (E) Auto land; and
 - (F) Automatic fuel and performance management systems;

xiv. Flight instruments:

- (A) Panel arrangement;
- (B) Flight instruments (attitude indicator, directional gyro, magnetic compass, airspeed indicator, vertical speed indicator, altimeters, standby instruments); and
- (C) Instrument power sources, and instrument sensory sources (e.g., Pitot static pressure);

xv. Display systems:

- (A) Weather radar; and
- (B) Other Cathode Ray Tube displays (e.g., checklist, vertical navigation or longitudinal navigation displays);

xvi. Communication equipment:

- (A) VHF and HF radios;
- (B) Audio panels;

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- (C) In-flight interphone and passenger address systems;
- (D) Voice recorder; and
- (E) Air ground passive communications system (ACARS);

xvii. Warning systems:

- (A) Aural, visual and tactile warning systems (including the character and degree of urgency related to each signal); and
- (B) Warning and caution annunciators systems (including ground proximity and take-off warning systems);

xviii. Fire protection:

- (A) Fire and overheat sensors, loops, modules, or other means of providing visual and/or aural indications of fire or overheat detection;
- (B) Procedures for the use of fire handles, automatic extinguishing systems and extinguishing agents; and
- (C) Power sources necessary to provide protection for fire and overheat conditions in engine, APU, cargo bay or wheel well, cockpit, cabin and lavatories;

xix. Oxygen:

- (A) Passenger, crew, and portable oxygen supply systems;
- (B) Sources of oxygen (gaseous or solid)
- (C) Flow and distribution networks;
- (D) Automatic deployment systems;
- (E) Regulators, pressure levels and gauges; and
- (F) Servicing requirements;

xx. Lighting:

- (A) Cockpit, cabin, and external lighting systems;
- (B) Power sources;
- (C) Switch positions; and
- (D) Spare light bulb locations;

xxi. Emergency equipment:

- (A) Fire and oxygen bottles;
- (B) First aid kits;
- (C) Life rafts and life vests;
- (D) Crash axes;
- (E) Emergency exit and lights;
- (F) Slides and slide rafts;
- (G) Escape strap or handles; and
- (H) Hatches, ladders and movable stairs;

xxii. Auxiliary Power Unit (APU):

- (A) Electric and bleed air capabilities;
- (B) Interfaces with electrical and pneumatic systems;
- (C) Inlet doors and exhaust ducts; and
- (D) Fuel supply;

(c) An air operator shall have an initial aircraft ground training curriculum for the flight crew applicable to the of operations conducted and aircraft flown, including at least the following aircraft systems integration items:

i. Use of checklist:

- (A) Safety chocks;
- (B) Cockpit preparation (switch position and checklist flows);
- (C) Checklist callouts and responses; and
- (D) Checklist sequence;

ii. Flight planning:

- (A) Performance limitations (meteorological, weight, and MEL and CDL items);
- (B) Required fuel loads;
- (C) Weather planning (lower than standard take-off minimum or alternate requirements);

iii. Navigation systems:

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- (A) Pre-flight and operation of applicable receivers;
 - (B) Onboard navigation systems; and
 - (C) Flight plans information input and retrieval;
 - iv. Auto flight: Autopilot, auto thrust, and flight director systems, including the appropriate procedures, normal and abnormal indications and annunciators;
 - v. Cockpit familiarization:
 - (A) Activation of aircraft system controls and switches to include normal, abnormal and emergency switches; and
 - (B) Control positions and relevant annunciators, lights, or other caution and warning systems.
2. Cabin Crew –
- a) An air operator shall have an initial ground-training curriculum for cabin crew applicable to the type of operations conducted and aircraft flown, including at least the following general subjects:
- (i) Aircraft familiarization:
 - A. Aircraft characteristics and description;
 - B. Flight deck configuration;
 - C. Cabin configuration;
 - D. Galleys;
 - E. Lavatories; and
 - F. Stowage areas;
 - (ii) Aircraft equipment and furnishing:
 - A. Cabin crew stations;
 - B. Cabin crew panels;
 - C. Passenger seats;
 - D. Passenger service units and convenience panels;
 - E. Passenger information signs;
 - F. Aircraft markings; and
 - G. Aircraft placards;
 - (iii) Aircraft systems:
 - A. Air conditioning and pressurisation system;
 - B. Aircraft communication systems (call, interphone and passenger address);
 - C. Lighting and electrical systems;

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- D. Oxygen systems (flight crew, observer and passenger); and
- E. Water system;

(iv) Aircraft exits:

- A. General information;
- B. Exits with slide or slide rafts (pre-flight and normal operation);
- C. Exits without slides (pre-flight and normal operations); and
- D. Window exits.

(v) Crew-member communication and coordination

- A. Authority of pilot-in-command;
- B. Routine communication signals and procedures; and
- C. Crew-member briefing;

(vi) Routine crew-member duties and procedures:

- A. Crew-member general responsibilities;
- B. Reporting duties and procedures for specific aircraft;
- C. Pre-departure duties and procedures prior to passenger boarding;
- D. Passenger boarding duties and procedures;
- E. Prior to movement on the surface duties and procedures;
- F. Prior to take-off duties and procedures applicable to specific aircraft;
- G. In-flight duties and procedures;
- H. Prior to landing duties and procedures;
- I. Movement on the surface and arrival duties and procedures;
- J. After arrival duties and procedures; and
- K. Intermediate stops;

(vii) Passenger handling responsibilities:

- A. Crew-member general responsibilities;
- B. Infants, children and unaccompanied minors;
- C. Passengers needing special assistance;
- D. Passengers needing special accommodation;
- E. Carry-on stowage requirements;
- F. Passenger seating requirements; and
- G. Smoking and no smoking requirements;

(c) An air operator shall have an initial ground training curriculum for cabin crew applicable to the type of operations conducted and aircraft flown, including at least the following aircraft specific emergency subjects:

(i) Emergency equipment:

- A. Emergency communication and notification systems;
- B. Aircraft exits;
- C. Exits with slide or slide rafts (emergency operation);
- D. Slides and slide rafts in a ditching;
- E. Exits without slides (emergency operation);
- F. Window exits (emergency operation)
- G. Exits with tail cones (emergency operation);
- H. Cockpit exits (emergency operation);
- I. Ground evacuation and ditching equipment;
- J. First aid equipment;
- K. Portable oxygen systems (oxygen bottles, chemical oxygen generators, protective breathing equipment (PBE));
- L. Firefighting equipment;
- M. Emergency lighting systems; and
- N. Additional emergency equipment;

(ii) Emergency assignments and procedures:

- A. General types of emergencies specific to aircraft;
- B. Emergency communication signals and procedures;
- C. Rapid decompression;
- D. Insidious decompression and cracked window and pressure seal leaks;
- E. Fires;
- F. Ditching
- G. Ground evacuation;
- H. Unwarranted evacuation (i.e., passenger initiated);
- I. Illness or injury;
- J. Abnormal situations involving passengers or crewmembers;
- K. Hijacking;
- L. Bomb threat;
- M. Turbulence;
- N. Other unusual situations; and
- O. Previous aircraft accidents and incidents

(iii) Aircraft specific emergency drills:

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- A. Emergency exit drill;
 - B. Hand fire extinguisher drill;
 - C. Emergency oxygen systems drill;
 - D. Flotation device drill;
 - E. Ditching drill, if applicable;
 - F. Life raft removal and inflation drill, if applicable;
 - G. Slide-raft pack transfer drill, if applicable;
 - H. Slide or slide-raft deployment, inflation and detachment drill, if applicable; and
 - I. Emergency evacuation slides drills, if applicable;
- (d) An air operator shall ensure that initial ground training for cabin crew includes a competence check to determine his or her ability to perform assigned duties and responsibilities; and
- (e) An air operator shall ensure that initial ground training for cabin crew consists of at least the following programmed hours of instruction:
- (i) Multi-engine turbine: sixteen (16) hours; and
 - (ii) Multi-engine reciprocating: eight (8) hours.
3. Flight operations officer –
- (a) An air operator shall provide initial aircraft ground training for flight operations officers that include instruction in at least following general dispatch subjects:
- (i) Normal and emergency communications procedures;
 - (ii) Available sources of weather information;
 - (iii) Actual and prognostic weather charts;
 - (iv) Interpretation of weather information;
 - (v) Adverse weather phenomena (e.g., clear air turbulence, wind-shear and thunderstorms);
 - (vi) Notices to Airmen systems;
 - (vii) Navigational charts and publications;
 - (viii) Air traffic control and instrument procedures;
 - (ix) Familiarization with operational area;
 - (x) Characteristics of special aerodrome and other operationally significant aerodrome which the operator uses (i.e., terrain, approach aids, or prevailing weather phenomena);
 - (xi) Joint flight operations officer and pilot responsibilities; and
 - (xii) Approved Crew Resource Management (CRM) training for flight operations officers;

- (b) An air operator shall provide initial aircraft ground training for flight operations officers that include instruction in at least the following aircraft characteristics:
 - (i) General operating characteristics of the national air operator's aircraft; and
 - (ii) Aircraft specific training with emphasis on the following topics:
 - A. Aircraft operating and performance characteristics;
 - B. Navigation equipment;
 - C. Instrument approach and communications equipment;
 - D. Emergency equipment;
 - (iii) Flight manual training; and
 - (iv) Equipment training;
- (c) An air operator shall provide initial aircraft ground training for flight operations officers that include instruction in at least the following emergency procedures:
 - (i) Assisting the flight crew in an emergency; and
 - (ii) Alerting of appropriate governmental, company and private agencies;
- (d) An air operator shall ensure that initial ground training for flight operations officers include a competence check given by an appropriate supervisor or ground instructor that demonstrates the required knowledge and abilities.

PART E

[Regulation 241(4)]

An air operator shall ensure that pilot initial flight training includes at least the following:

Note: *Flight training may be conducted in an appropriate aircraft or adequate training simulator (simulator shall have landing capability).*

- (a) preparation:
 - (i) visual inspection (for aircraft with a flight engineer, use of pictorial display authorised);
 - (ii) pre-taxi procedures; and
 - (iii) performance limitations;

(b) surface operation:

- (i) pushback;
- (ii) power back taxi, if applicable to type of operation to be conducted;
- (iii) starting;
- (iv) taxi; and
- (v) pre-take-off checks;

(c) take-off:

- (i) normal;
- (ii) crosswind;
- (iii) rejected;
 - (i) power failure after V1; and
 - (ii) lower than standard minimum, if applicable to type of operation to be conducted;

(d) climb:

- (i) normal; and
- (ii) one-engine inoperative during climb to en route altitude;

(e) en route:

- (i) steep turns (pilot-in-command only);
- (ii) approaches to stalls (take-off, en route, and landing configurations);
- (iii) in-flight power plant shutdown;
- (iv) in-flight power plant restart; and
- (v) high speed handling characteristics;

(f) descent:

- (i) normal; and
 - (ii) maximum rate;
- (g) approaches:
- (i) visual Flight Rules procedures;
 - (ii) visual approach with fifty percent (50%) loss of power on one-engine (2 engines; inoperative on 3-engine aeroplanes) (pilot-in-command only);
 - (i) visual approach with slat or flap malfunction;
 - (ii) Instrument Flight Rules precision approaches (Instrument Landing System normal and Instrument Landing System with one engine inoperative);
 - (iii) instrument Flight Rules non-precision approaches (Non-directional beacon normal and VHF omni-range normal); and
 - (iv) non-precision approach with one engine inoperative (Localiser back course procedures, SDF and LDA, GPS, TACAN and circling approach procedures);

Note: *Simulator shall be qualified for training and checking on the circling manoeuvre.*

- (v) missed approach from precision approach;
- (vi) missed approach from non-precision approach; and
- (vii) missed approach with power plant failure;

(h) landings:

- (i) normal with a pitch mistrim (small aircraft only);
- (ii) normal from precision instrument approach;
- (iii) normal from precision instrument approach with most critical engine inoperative;
- (iv) normal with fifty percent (50%) loss of power on one (1) side (2 engines inoperative on 3- engine aeroplanes) (pilot-in-command only);
- (v) normal with flap or slat malfunction;

- (vi) rejected landings;
- (vii) crosswind;
- (viii) manual reversion or degraded control augmentation;
- (ix) short or soft field (small aircraft only); and
- (x) glassy or rough water (seaplanes only);
 - (i) after landing:
 - (i) parking;
 - (ii) emergency evacuation; and
 - (iii) docking, mooring and ramping (seaplanes only);
 - (j) other flight procedures during any airborne phase:
 - (i) holding;
 - (ii) ice accumulation on airframe;
 - (iii) air hazard avoidance; and
 - (iv) wind-shear and microburst;
 - (k) normal, abnormal and alternate systems procedures during any phase:
 - (i) pneumatic or pressurisation;
 - (ii) air conditioning;
 - (iii) fuel and oil;
 - (i) electrical;
 - (ii) hydraulic;
 - (iii) flight controls;

- (iv) anti-icing and de-icing systems;
 - (v) autopilot;
 - (vi) flight management guidance systems or automatic or other approach and landing aids;
 - (vii) stall warning devices, stall avoidance devices, and stability augmentation systems;
 - (viii) airborne weather radar;
 - (ix) flight instrument system malfunction;
 - (x) communications equipment; and
 - (xi) navigation systems;
- (l) emergency systems procedures during any phase:
- (i) aircraft fires;
 - (ii) smoke control;
 - (iii) power plant malfunctions;
 - (iv) fuel jettison;
 - (v) electrical, hydraulic, pneumatic systems;
 - (vi) flight control system malfunction; and
- landing gear and flap system malfunction

PART F
(Regulation 242)**INITIAL SPECIALISED OPERATIONS TRAINING**

An air operator shall provide initial specialised operations training to ensure that each pilot and Flight Operations Officer is qualified in the type of operation in which he or she serves and in any specialised or new equipment, procedures and techniques, such as—

- (a) Class II navigation;

- (i) knowledge of specialised navigation procedures, such as MNPS; and
 - (ii) knowledge of specialised equipment, such as INS, LORAN, GPS;
- (b) CAT II and CAT III approaches:
- (i) special equipment, procedures and practice; and
 - (ii) a demonstration of competency;
- (c) lower than standard minimum take-offs:
- (i) runway and lighting requirements;
 - (ii) rejected take-offs at, or near, V1 with a failure of the most critical engine;
- (d) taxi operations; and
- (i) procedures to prevent runway incursions under low visibility conditions;
- (e) extended range operations with two (2) engine aeroplanes;
- (f) airborne radar approaches; and
- (g) autopilot instead of co-pilot.

PART G
[Regulation 245 (8)]

CONVERSION TRAINING AND CHECKING

An air operator shall ensure that conversion training and checking meet the following requirements:

FLIGHT CREW

1. An operator's conversion course for flight crew shall include:

- (a) ground training and checking including aircraft systems, normal, abnormal and emergency procedures;
- (b) emergency and safety equipment training and checking which shall be completed before aircraft training commences;

- (c) aircraft/STD training and checking; and
 - (d) line flying under supervision and line check;
2. The conversion course for flight crew shall be conducted in the order set out in sub-paragraph (1) above.
3. Elements of Crew Resource Management for flight crew shall be integrated into the conversion course and conducted by suitably qualified personnel.
4. When a flight crew member has not previously completed an operator's conversion course, the operator shall ensure that in addition to sub-paragraph (1) above, the flight crew member undergoes general first aid training and, if applicable, ditching procedures training using the equipment in water.

CABIN CREW

5. An operator shall ensure that conversion and differences training for cabin crew—
- (a) is conducted by suitably qualified persons; and
 - (b) during conversion and differences training, training is given on the location, removal and use of all safety and survival equipment carried on the aeroplane, as well as all normal and emergency procedures related to the aeroplane type, variant and configuration to be operated.
6. Fire and smoke training; An operator shall ensure that cabin crew members are given fire and smoke training as follows:

Each cabin crew member shall be given realistic and practical training in the use of all firefighting equipment including protective clothing representative of that carried in the aeroplane. Such training shall include the following activities:

7. Operation of doors and exits; An operator shall ensure that cabin crew members are given training in the operation of aircraft doors and exits as follows:
- (a) each cabin crew member shall operate and actually open all normal and emergency exits for passenger evacuation in an aircraft or representative training device; and
 - (b) the operation of all other exits, such as flight deck windows is demonstrated.

8. Evacuation slide training; An operator shall ensure that cabin crew members are given training in aircraft evacuation and slide training as follows:

- (a) each cabin crew member descends an evacuation slide from a height representative of the aeroplane main deck sill height; and
- (b) the slide is fitted to an aeroplane or a representative training device.

9. Evacuation procedures and other emergency situations. An operator shall ensure that cabin crew members are given training in evacuation procedures and other emergency situations as follows:

- (a) emergency evacuation training includes the recognition of planned or unplanned evacuations on land or water. This training shall include recognition of when exits are unusable or when evacuation equipment is unserviceable; and
- (b) each cabin crew member is trained to deal with the following:
 - (i) an in-flight fire, with particular emphasis on identifying the actual source of the fire;
 - (ii) severe air turbulence;
 - (iii) sudden decompression, including the donning of portable oxygen equipment by each cabin crew member; and
- (c) other in-flight emergencies.

10. Crowd control; An operator shall ensure crew members are given training on the practical aspects of crowd control in various emergency situations, as applicable to the aeroplane type,

11. Pilot incapacitation; An operator shall ensure that cabin crew members are trained to render assistance where a pilot becomes incapacitated. This training shall include a demonstration of:

- (a) the pilot's seat mechanism;
- (b) fastening and un-fastening the pilot's seat harness;
- (c) use of the pilot's oxygen equipment and;
- (d) use of pilot's checklist

12. Safety equipment; An operator shall ensure that each cabin crew member is given realistic training on, and demonstration of, the location and use of safety equipment including the following;

- (a) slides, and where non self-supporting slides are carried, the use of any associated ropes;
- (b) life-rafts and slide-rafts, including the equipment attached to or carried in the raft;
- (c) lifejackets, infant lifejackets and flotation cots;
- (d) dropout oxygen system;
- (e) first-aid oxygen;
- (f) fire extinguishers;
- (g) fire axe or crow-bar;
- (h) emergency lights including torches,
- (i) communications equipment, including megaphones;
- (j) survival packs, including their contents;
- (k) pyrotechnics (actual or representative devices);
- (l) first-aid kits, their contents and emergency medical equipment and;
- (m) Other cabin equipment or systems where applicable.

13. Passenger Briefing and Safety Demonstrations; An operator shall ensure that cabin crew members are given training in the preparation of passengers for normal and emergency situations in accordance with these Regulations.

14. An operator shall ensure that all appropriate Regulatory requirements are included in the training of cabin crew members.

PART H

The Aircraft and Instrument Proficiency Check for a Pilot shall contain the following:

- (a) Satisfactory completion of a pilot-in-command proficiency check following completion of an approved air operator training program for the particular type aircraft, satisfies the requirement for an aircraft type rating practical test if –
 - (i) That proficiency test includes all maneuvers and procedures required for a type rating practical test and;
 - (ii) Proficiency checks are conducted by a check airman.
- (b) Aircraft and instrument proficiency checks for pilot-in-command and co-pilot shall include the following operations and procedures listed in Table A. As noted, check airmen may waive certain events on the flight test based on an assessment of the pilot's demonstrated level of performance.

TYPE OF OPERATION OR PROCEDURE	PIC or Co-Pilot	Notes
Ground Operations		

Preflight inspection	PIC and Co-Pilot	
Taxiing	PIC and Co-Pilot	Both pilots may take simultaneous credit.
Powerplant checks	PIC and Co-Pilot	Both pilots may take simultaneous credit.
Takeoffs		
Normal	PIC and Co-Pilot	
Instrument	PIC and Co-Pilot	
Crosswind	PIC and Co-Pilot	
With powerplant failure	PIC and Co-Pilot	
Rejected takeoff	PIC and Co-Pilot	Both pilots may take simultaneous credit. May be waived.
Instrument Procedures		
Area departure	PIC and Co-Pilot	May be waived.
Area arrival	PIC and Co-Pilot	May be waived.
Holding	PIC and Co-Pilot	May be waived.
Normal ILS approach	PIC and Co-Pilot	
Engine-out ILS	PIC and Co-Pilot	
Coupled ILS approach	PIC and Co-Pilot	Both pilots may take simultaneous credit
No precision approach	PIC and Co-Pilot	

TYPE OF OPERATION OR PROCEDURE	PIC or Co-Pilot	Notes

Second no precision approach	PIC and Co-Pilot	
Missed approach from an ILS	PIC and Co-Pilot	
Second missed approach	PIC only	
Circling approach	PIC and Co-Pilot	Only when authorised in the AOC holder's Operations Manual. May be waived.
Inflight Maneuvers		
Steep turns	PIC only	May be waived.
Specific flight characteristics	PIC and Co-Pilot	
Approaches to stalls	PIC and Co-Pilot	May be waived.
Powerplant failure	PIC and Co-Pilot	
2 engine inoperative approach (3 and 4 engine aircraft)	PIC and Co-Pilot	
TYPE OF OPERATION OR PROCEDURE	PIC or Co-Pilot	Notes
Normal landing	PIC and Co-Pilot	
Landing from an ILS	PIC and Co-Pilot	
Crosswind landing	PIC and Co-Pilot	
Landing with engine-out	PIC and Co-Pilot	
Landing from circling approach	PIC and Co-Pilot	Only if authorised in Operations Manual. May be waived.

Normal And Non-Normal Procedures	PIC and Co-Pilot	
Rejected landing	PIC and Co-Pilot	
2 engine inoperative landing (3 and 4 engine aircraft)	PIC only	
Other Events	PIC or Co- Pilot	check airman's discretion.

- (c) The oral and flight test phases of a proficiency check should not be conducted simultaneously.
- (d) When the check airman determines that an applicant's performance is unsatisfactory, the check airman may terminate the flight test immediately or, with the consent of the applicant, continue with the flight test until the remaining events are completed.
- (e) Where the check is terminated for mechanical or other reasons, and there are events which still need to be repeated, the check airman shall issue a letter of discontinuance, valid for sixty (60) days, listing the specific areas of operation that have been successfully completed.

PART 1

The training and checking program for a pilot to operate in either pilot seat shall take the following matters into consideration:

- (a) a pilot relieving the pilot-in-command shall have demonstrated, concurrent with the operator proficiency checks prescribed in these Regulations, practice of drills and procedures which would not, normally, be the relieving pilot's responsibility. Where the differences between left and right seats are not significant (for example, because of use of autopilot) then practice may be conducted in either seat.
- (b) a pilot other than the pilot-in-command occupying the left-hand seat shall demonstrate practice of drills and procedures, concurrent with the operator proficiency checks prescribed in these Regulations, which would otherwise have been the pilot-in-command's responsibility acting as pilot non-flying. Where the differences between left and right seats are not significant (for example, because of use of autopilot) then practice may be conducted in either seat.

PART J

Flight Engineer proficiency check shall include the following:

Examiners shall include during proficiency checks for flight engineers an oral or written examination of the normal, abnormal, and emergency procedures listed below:

(a) normal procedures:

- (i) interior pre-flight;
- (ii) panel set-up;
- (iii) fuel load;
- (iv) engine start procedures;
- (v) taxi and before take-off procedures;
- (vi) take-off and climb pressurization;
- (vii) cruise and fuel management;
- (viii) descent and approach
- (ix) after landing and securing;
- (x) crew co-ordination;
- (xi) situational awareness, traffic scan, etc;
- (xii) performance computations; and
- (xiii) anti-ice, de-ice;

(b) abnormal and emergency procedures:

- (i) troubleshooting;
- (ii) knowledge of checklist;
- (iii) ability to perform procedures;
- (iv) crew co-ordination;
- (v) minimum equipment list and configuration deviation list and;
- (vi) Emergency or alternate operation of aircraft flight systems.

PART K

Cabin Crew competency check shall include the following:

Examiners shall include during each cabin crew competency check a demonstrated knowledge of:

(a) Emergency equipment:

- (i) Emergency communication and notification systems;
- (ii) Aircraft exists;
- (iii) Exists with slides or slide rafts (emergency operation);
- (iv) Slides and slide rafts in a ditching;
- (v) Exits without slides (emergency operation);
- (vi) Window exists (emergency operation);
- (vii) Exists with tail cones (emergency operation);
- (viii) Cockpit exits (emergency operation);
- (ix) Ground evacuation and ditching equipment;
- (x) First-aid equipment;

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- (xi) portable oxygen systems [oxygen bottles, chemical oxygen generators, protective breathing equipment (pbe)];
- (xii) fire-fighting equipment;
- (xiii) emergency lighting systems and;
- (xiv) additional emergency equipment;

(b) emergency procedures:

- (i) general types of emergencies specific to aircraft;
- (ii) emergency communication signals and procedures;
- (iii) rapid decompression;
- (iv) insidious decompression and cracked window and pressure seal leaks;
- (v) fires;
- (vi) ditching;
- (vii) ground evacuation;
- (viii) Unwarranted evacuation (i.e., passenger initiated);
- (ix) Illness or injury;
- (x) Abnormal situations involving passengers or crew members;
- (xi) Turbulence and;
- (xii) Other unusual situations;

(c) Emergency drills;

- (i) Location and use of all emergency and safety equipment carried on the aircraft;
- (ii) The location and use of all types of exists;
- (iii) Actual donning of a lifejacket where fitted;
- (iv) Actual donning of protective breathing equipment; and
- (v) Actual handling of fire extinguishers;

(d) Crew resource management:

- (i) Decision making skills;
- (ii) Briefing and developing open communication;
- (iii) Inquiry, advocacy and assertion training and;
- (iv) Workload management;

(e) Dangerous goods:

- (i) Recognition of and transportation of dangerous goods;
- (ii) Proper packaging, marking and documentation and;

- (iii) Instructions regarding compatibility, loading, storage and handling characteristics;
- (f) Security:
 - (i) Hijacking and;
 - (ii) Disruptive passengers;
- (g) Elements of training which require individual practical participation should be combined with practical checks;
- (h) The checks required by the Act or Regulations made thereunder shall be accomplished by the method appropriate to the type of training including –
 - (i) Practical demonstration and/or;
 - (ii) Computer based assessment and/or;
 - (iii) In-flight checks and;
 - (iv) Oral or written tests.

PART L

Flight Operations Officers competency test shall include the following:

- (a) evaluators shall conduct competency checks for a Flight Operations Officer to demonstrate that the candidate's proficiency level is sufficient to ensure the successful outcome of all dispatch operations;
- (b) a qualified supervisor or inspector, approved by the authority, shall observe and evaluate competency checks for a Flight Operations Officer;
- (c) each competency check for a Flight Operations Officer shall include –
 - (i) an evaluation of all aspects of the dispatch function;
 - (ii) a demonstration of the knowledge and abilities in normal and abnormal situations and;
 - (iii) an observation of actual flights being dispatched;
- (d) each evaluator of newly hired Flight Operations Officer shall include during initial competency checks an evaluation of all geographic areas and types of aircraft the Flight Operations Officer will be qualified to dispatch. (Note: The supervisor may approve a competency check of representative aircraft types when, in the supervisor's judgment, a check including all types is impractical or unnecessary);
- (e) evaluators may limit initial equipment and transition competency checks solely to the dispatch of the types of aeroplanes on which the Flight Operations Officer is qualifying (unless the check is to simultaneously count as a recurrent check);

- (f) each evaluator of a Flight Operations Officer shall include, during recurrent and requalification competency checks, a representative sample of aircraft and routes for which the Flight Operations Officer maintains current qualification and;
- (g) the Authority requires special operations competency checks before a Flight Operations Officer is qualified in ETOPS or other special operations authorized by an authority.

PART M

Supervised line experience for Cabin Crew shall include the following:

The following areas of operation are required for supervised line experience for cabin crew:

New Entrant Cabin Crew

- (a) each new entrant cabin crew member having no previous comparable operating experiences should –
 - (i) participate in a visit to the aircraft to be operated and;
 - (ii) participate in familiarization flights as described in paragraph (c) below:

Cabin Crew Operating on a Subsequent Aircraft Type

- (b) A cabin crew member assigned to operate on a subsequent aircraft type with the same operator should either –
 - (i) Participate in a familiarization flight as described in paragraph 3 below; or
 - (ii) Participate in an aircraft visit to the aircraft to be operated;
- (c) For familiarization flights, the following:
 - (i) during familiarization flights, the cabin crew member should be additional to the minimum number of cabin crew required under the Act or Regulations made thereunder;
 - (ii) familiarization flights should be conducted under the supervision of the senior cabin crew member;
 - (iii) familiarization flights should be structured and involve the cabin crew member in the participation of safety related pre-flight, in- flight and post-flight duties;
 - (iv) familiarization flights should be operated with the cabin crew member in the operator's uniform and;
 - (v) Familiarization flights should form part of the training record for each cabin crew member.

Aircraft Visits:

- (d) The purpose of aircraft visits is to familiarise each cabin crew member with the aircraft environment and its equipment. Accordingly, aircraft visits should be conducted by suitably qualified persons and in accordance with a syllabus described in the Operations Manual, Part D. The aircraft visit should provide an overview of the aircraft's exterior, interior and systems including the following:
- (i) Interphone and public address systems;
 - (ii) Evacuation alarm systems;
 - (iii) Emergency lighting;
 - (iv) Smoke detection systems;
 - (v) Safety/emergency equipment;
 - (vi) Flight deck;
 - (vii) Cabin crew stations;
 - (viii) Toilet compartments;
 - (ix) Galleys, galley security and water shut-off;
 - (x) Cargo areas if accessible from the passenger compartment during flight;
 - (xi) Circuit breaker panels located in the passenger compartment;
 - (xii) Crew rest areas and;
 - (xiii) Exit location and its environment.

**PART N
RECURRENT TRAINING FOR FLIGHTCREW**

An air operator shall ensure that flight crew member recurrent ground training includes at least the following:

- (a) General subjects:
- (i) Flight locating procedures;
 - (ii) Principles and method for determining mass and balance and runway limitations;
 - (iii) meteorology to ensure practical knowledge of weather phenomena including the principles of frontal system, icing, fog, thunderstorms, wind-shear and high altitude weather situations;
 - (iv) ATC systems and phraseology;
 - (v) Navigation and use of navigational aids;
 - (vi) Normal and emergency communication procedures;
 - (vii) Visual cues before descent to MDA;
 - (viii) Accident, incident and occurrence review and;

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- (ix) Other instructions necessary to ensure the pilot's competence;
- (b) Aircraft systems and limitations:
 - (i) Normal, abnormal and emergency procedures;
 - (ii) Aircraft performance characteristics;
 - (iii) Engines and propellers;
 - (iv) Major aircraft components;
 - (v) major aircraft systems (i.e., flight controls, electric, hydraulic and other systems as appropriate) and;
 - (vi) ground icing and de-icing procedures and requirements;
- (c) emergency equipment and drills –
 - (i) every twelve (12) months
 - (A) instruction on the location and use of all emergency and safety equipment carried on the aircraft;
 - (B) instruction on the location and use of all types of exists;
 - (C) actual donning of a life jacket where fitted;
 - (D) actual donning of protective breathing equipment and;
 - (E) actual handling of a fire extinguishers;
 - (ii) every three (3) years –
 - (A) actual operation of all types of exists;
 - (B) demonstrations of the method used to operate a slide, where fitted;
 - (C) firefighting using equipment representative of that carried in the aircraft on an actual or simulated fire;

Note: with halon extinguishers, an alternative method acceptable to the authority may be used.

- (D) Effects of smoke in an enclosed area and actual use of all relevant equipment in a simulated smoke-filled environment;
- (E) actual handling of pyrotechnics, real or simulated, where fitted;

- (F) demonstration of the use of life rafts where fitted;
- (G) an emergency evacuation drill;
- (H) a “dry” ditching drill and;
- (I) a rapid decompression drill, if applicable.

(d) Every twelve (12) months, crew resource management:

- (i) Decision making skills;
- (ii) Briefings and developing open communication;
- (iii) Inquiry, advocacy and assertion training;
- (iv) Workload management and;
- (v) Situational awareness;

(e) Every twenty-four (24) months, dangerous goods:

- (i) Recognition of and transportation of dangerous goods;
- (ii) Proper packaging, marking and documentation and;
- (iii) Instructions regarding compatibility, loading, storage and handling characteristics;

(f) Every twelve (12) months, security:

- (i) Hijacking and;
- (ii) Disruptive passengers;

(g) An air operator shall verify knowledge of the recurrent ground training by an oral or written examination;

(h) An air operator shall ensure that pilot recurrent flight training include at least the following:

Note: Flight Training may be conducted in an Appropriate Aircraft or Adequate Training Simulator (Simulator shall have Landing Capability).

(i) Preparation:

- (A) Visual inspection (use of pictorial display authorized) and;
- (B) Pre-taxi procedures;

(ii) Surface operation:

- (A) Performance limitations;
- (B) Cockpit management;
- (C) Securing cargo
- (D) Pushback;
- (E) Power-back taxi;
- (F) Starting;

- (G) Taxi and;
- (H) Pre-take-off checks;

(iii) Take-off:

- (A) Normal;
- (B) Crosswind;
- (C) Rejected;
- (D) Power failure after Vi;
- (E) Power plant failure during second segment and;
- (F) Lower than standard minimum;

(iv) Climb:

- (A) Normal and;
- (B) One-engine inoperative during climb to en-route altitude;

(v) En route:

- (A) Steep turns;
- (B) Approaches to stalls (take-off, en route, and landing configurations);
- (C) In-flight power plant shutdown;
- (D) In-flight power plant restart and;
- (E) High-speed handling characteristics;

(vi) Descent;

- (A) Normal and;
- (B) Maximum rate;

(vii) Approaches:

- (A) Visual flight rules procedures;
- (B) Visual approach with fifty percent (50%) loss of power on one-engine (2 engines inoperative on 3- engine aeroplanes) (pilot-in-command only);
- (C) Visual approach with slat or flap malfunction;
- (D) Instrument flight rules precision approaches (instrument landing system normal and instrument landing system with one- engine inoperative);
- (E) Instrument flight rules non-precision approaches (non-directional beacon

normal and VHF omni-range normal) and;

(F) Non-precision approach with one engine inoperative (localizer back course, SDF or LDA, GPS, TACAN and circling approach procedures);

Note: Simulator shall be qualified for training and checking on the circling maneuver.

- (G) Missed approach from precision approach;
- (H) Missed approach from non-precision approach and;
- (I) Missed approach with power plant failure.

(viii) Landings:

- (A) Normal with a pitch mistrim (small aircraft only);
- (B) Normal from precision instrument approach;
- (C) Normal from precision instrument approach with most critical engine inoperative;
- (D) Normal with fifty percent (50%) loss of power on one side (2 engines inoperative on 3-engine aeroplanes) (pilot-in-command only) and;
- (E) Normal with flat or slat malfunction;
- (F) Rejected landings;
- (G) Crosswind;
- (H) Short or soft field (small aircraft only) and;
- (I) Glassy or rough water (seaplanes only);

(ix) After landing:

- (A) Parking;
- (B) Emergency evacuation and;
- (C) Docking, mooring and ramping (seaplanes only);

(x) Other flight procedures during any airborne phase:

- (A) Holding;
- (B) Ice accumulation on airframe;

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- (C) Air hazard avoidance and;
- (D) Wind-shear and microburst;

(xi) Normal, abnormal and alternate systems procedures during any phase:

- (A) Pneumatic or pressurization;
- (B) Air conditioning;
- (C) Fuel and oil;
- (D) Electrical and;
- (E) Hydraulic;

(xii) Flight controls:

- (A) Anti-icing and de-icing systems;
- (B) Flight management guidance systems or automatic or other approach and landing aids;
- (C) Stall warning devices, stall avoidance devices and stability augmentation systems;
- (D) Airborne weather radar;
- (E) Flight instrument system malfunction;
- (F) Communications equipment;
- (G) Navigation systems;
- (H) Auto-pilot;
- (I) Approach and landing aids and;
- (J) Flight instrument system malfunction;

(xiii) Emergency systems procedures during any phase:

- (A) Aircraft fires;
- (B) Smoke control;
- (C) Power plant malfunctions;
- (D) Fuel jettison;
- (E) Electrical, hydraulic, pneumatic systems;
- (F) Flight control system malfunction and;
- (G) Landing gear and flap system malfunction;

- (i) The national air operator may combine training with the national air operator's proficiency check.
- (j) The national air operator shall ensure that the aeroplane or flight simulator training program is established such that all major

failures of aeroplane systems and associated procedures will have been practiced in the preceding three-year period.

- (k) Recurrent ground and flight training curricula may be accomplished concurrently or intermixed, but completion of each of these curricula shall be recorded separately.

PART O

(Regulation 267)

RECURRENT TRAINING FOR CABIN CREW

The current training for cabin crew shall meet the following requirements:

- (a) An air operator shall ensure that, every twelve (12) months, each cabin crew member receive recurrent training in at least the following:

- (i) emergency equipment

- A. emergency communication and notification systems;
- B. aircraft exits;
- C. exits with slides or slide rafts (emergency operation);
- D. slides and slide rafts in a ditching;
- E. exits without slides (emergency operations);
- F. window exits (emergency operation);
- G. exits with tail cones (emergency operation);
- H. cockpit exits (emergency operation);
- I. ground evacuation and ditching equipment;
- J. first aid equipment including universal precaution kits and automated external defibrillators;
- K. portable oxygen systems (oxygen bottles, chemical oxygen generators, protective breathing equipment (PBE));
- L. firefighting equipment;
- M. emergency lighting systems; and
- N. additional emergency equipment;

- (ii) emergency procedures:

- A. general types of emergencies specific to aircraft;

- B. emergency communication signals and procedures;
- C. rapid decompression;
- D. insidious decompression and cracked window and pressure seal leaks;
- E. fires;
- F. ditching;
- G. ground evacuation;
- H. unwarranted evacuation (i.e., passenger initiated);
- I. illness or injury;
- J. abnormal situations involving passengers or crew members;
- K. turbulence; and
- L. other unusual situation; and
- M. emergency drills;

(iii) every twelve (12) months:

- A. location and use of all emergency and safety equipment carried on the aircraft;
- B. the location and use of all types of exits;
- C. actual donning of a lifejacket where fitted;
- D. actual donning of protective breathing equipment; and
- E. actual handling of fire extinguishers;

(iv) every three (3) years:

- A. operation of all types of exits;
- B. demonstration of the method used to operate a slide, where fitted; and
- C. firefighting using equipment representative of that carried in the aircraft on an actual or simulated fire;

Note: With Halon extinguishers, an alternate method acceptable to the Authority may be used.

- D. effects of smoke in an enclosed area and actual use of all relevant equipment in a simulated smoke-filled environment;

- E. actual handling of pyrotechnics, real or simulated, where fitted;
- F. demonstration in the use of the life-raft(s), where fitted;
- G. an emergency evacuation drill;
- H. a “dry” ditching drill, if applicable;
- I. a rapid decompression drill, if applicable;

(v) every twelve (12) months, crew resource management:

- A. decision making skills;
- B. briefings and developing open communication;
- C. inquiry, advocacy and assertion training; and
- D. workload management;

(vi) every twenty-four (24) months, dangerous goods:

- A. recognition of and transportation of dangerous goods;
- B. proper packaging, marking and documentation; and
- C. instructions regarding compatibility, loading storage and handling characteristics.

(vii) Every twelve (12) months, security:

- A. Hijacking; and
- B. Disruptive passenger; and

(viii) Every twelve (12) months, knowledge about human performance as related to passenger cabin safety duties including flight crew- cabin crew members coordination.

- (b) An air operator may administer each of the recurrent training curricula concurrently or intermixed but shall record completion of each of these curricula separately.
- (c) An air operator should ensure that a formalized course of recurrent training is provided for cabin crew in order to ensure continued proficiency with all equipment relevant to the aircraft types that they operate.

**PART P
(Regulation 270)****FLIGHT INSTRUCTOR TRAINING**

1. Within the preceding twenty-four (24) calendar months, that person satisfactorily conducts instruction under the observation of an inspector from the Authority, an air operator's check airman, or an examiner employed by the national air operator.
2. An air operator may accomplish the observation check for a flight instructor, in part or in full, in an aircraft, a flight simulator, or a flight training device.
3. An air operator shall ensure that initial ground training for flight instructors includes the following:
 - (a) Flight instructor duties, functions and responsibilities;
 - (b) Applicable regulations and the national air operator's policies and procedures;
 - (c) Appropriate methods, procedures and techniques for conducting the required checks;
 - (d) Proper evaluation of student performance including the detection of –
 - (i) Improper and insufficient training, and
 - (ii) Personal characteristics of an applicant that could adversely affect safety;
 - (e) appropriate corrective action in the case of unsatisfactory checks;
 - (f) approved methods, procedures, and limitations for performing the required normal, abnormal and emergency procedures in the aircraft;
 - (g) except for holders of a flight instructor licence–
 - (i) the fundamental principles of the teaching learning process;
 - (ii) teaching methods and procedures; and
 - (iii) the instructor student relationship;
4. An air operator shall ensure that the transition ground training for flight instructors includes the approved methods, procedures, and limitations of performing the required normal, abnormal and emergency procedures applicable to the aircraft to which the flight instructor is in transition.

5. An air operator shall ensure that the initial and transition flight training for Flight Instructor includes the following:
 - (a) the safety measures for emergency situations that are likely to develop during instruction
 - (b) the potential results of improper, untimely, or non-execution of safety measures during instruction.
 - (c) For pilot flight instructor:
 - (i) In-flight training and practice in conducting flight instruction from the left and right pilot seats in the required normal, abnormal and emergency procedures to ensure competence as an instructor; and
 - (ii) the safety measures to be taken from either pilot seat for emergency situations that are likely to develop during instruction.
 - (d) for Flight Instructors assigned to Flight Engineer instruction, in-flight training to ensure competence to perform assigned duties.
6. An air operator may accomplish the flight training requirements for Flight Instructors in full or in part in flight, in a flight simulator, or in a flight training device, as appropriate.
7. An air operator shall ensure that the initial and transition flight training for Simulator Flight Instructors includes the following:
 - (a) training and practice in the require normal, abnormal and emergency procedures to ensure competence to conduct the flight instruction requires y this part. This training and practice shall be accomplished in full or in part in a flight simulator or in a flight training device.
 - (b) Training in the operation of flight simulators or flight training devices, or both, to ensure competence to conduct the flight instruction required by this Part.

PART Q

(Regulation 272)

INITIAL GROUND TRAINING CHECK AIRMAN

1. An air operator shall ensure that initial ground training for check airman includes:
 - (a) check airman duties, functions, and responsibilities;
 - (b) applicable regulations and the national air operator's policies and procedures;

- (c) appropriate methods, procedures, and techniques for conducting the required checks;
 - (d) proper evaluation of student performance including the detection of –
 - (i) improper and insufficient training; and
 - (ii) personal characteristics of an applicant that could adversely affect safety;
 - (e) appropriate corrective action in the case of unsatisfactory checks; and
 - (f) approved methods, procedures, and limitations for performing the required normal, abnormal, and emergency procedures in the aeroplane.
2. Transition ground training for all check airman shall include the approved methods, procedures, and limitations for performing the required normal, abnormal, and emergency procedures applicable to the aeroplane to which the check airman is in transition.
3. An air operator shall ensure that the initial and transition flight training for check airman (aeroplane) includes –
- (a) training and practice in conducting flight evaluations (from the left and right pilot seats for pilot check airman) in the required normal, abnormal, and emergency procedures to ensure competence to conduct the flight checks;
 - (b) the potential results of improper, untimely, or non-execution of safety measures during an evaluation; and
 - (c) the safety measures (to be taken from either pilot seat for pilot check airman) for emergency situations that are likely to develop during an evaluation.
4. An air operator shall ensure that the initial and transition flight training for Simulator check airman includes –
- (a) Training and practice in conducting flight checks in the required normal, abnormal, and emergency procedures to ensure competence to conduct the evaluation checks required by this part (this training and practice shall be accomplished in a flight simulator or in a flight training device); and
 - (b) Training in the operations of flight simulators or flight training devices, or both, to ensure competence to conduct the evaluation required by this Part.

5. An air operator may accomplish flight training for check airman in full or in part in an aircraft, in a flight simulator, or in a flight training device, as appropriate.

**SCHEDULE 12
(Regulation 296)**

EXAMPLE FLIGHT AND DUTY TIME SCHEME – AEROPLANE OPERATIONS

REST PERIODS, DUTY, AND FLIGHT TIME: COMMERCIAL AIR TRANSPORT – AEROPLANE

Applicability

1. The scheme shall apply in relation to any duty carried out at the behest of the national air operator by both flight crew and cabin crew.

Responsibilities

2. (1) An air operator shall have a scheme for the regulation of flight times of crews. The scheme shall be approved by the Authority and included in the national air operator's Operations Manual. The Operations Manual shall be readily available to every person employed by the national air operator as a member of an aircraft crew.

(2) A crew member shall not fly, and an operator shall not require him to fly, if either has a reason to believe that such crew member is suffering or likely to suffer while flying from such fatigue as may endanger the safety of the aeroplane or of its occupants.

(3) A flight crew member shall inform the operator of all flying undertaken so that the cumulative flight and duty times can be assessed against the limitations contained in this section.

(4) The national air operator will publish crew rosters showing planned duty sufficiently in advance so that operating crews can plan adequate pre-duty rest.

(5) The national air operator and crew member are jointly responsible for the proper control of flight and duty times. A crew member has the responsibility to make optimum use of the opportunities and rest facilities provided. He is responsible for planning and using his rest periods properly in order to minimise the risk of incurring fatigue.

(6) A crew member shall not act as operating crew if he knows or suspects that his physical or mental condition renders him unfit to operate.

Definitions

3. For the purpose of this clause –

“calendar day” means the period of elapsed time using Co-ordination Universal Time or local time that begins at midnight and ends twenty-four (24) hours later at the next midnight;

“days off” means the periods available for leisure and relaxation free from all duties. A rest period may be included as part of a day off;

“dispatch crew” means a fully qualified and current flight crew or cabin crew authorised to carry out pre-flight duties as defined by the national air operator;

“duty” means any continuous period during which a crew member is required to carry out any task associated with the business of the national air operator;

“flight crew” means those members of the crew of an aircraft who act as pilot or pilot engineer;

“flight time” means the total time from the moment an aircraft first moves under its own power for the purpose of taking off until the moment it finally comes to rest at the end of the flight;

“flight duty period” means any time during which a person operates in an aircraft as a member of its crew. It starts when the crew member is required by the national air operator to report for a flight and finishes at the end of the flight time on the final sector. This term is used interchangeably with flying duty period and flight duty time;

“minimum rest period” means a period during which a flight crew member is free from all duties, is not interrupted by the national air operator or private operator, and is provided with an opportunity to obtain not less than eight (8) consecutive hours of sleep in suitable accommodation, time to travel to and from that accommodation and time for personal hygiene and meals;

“positioning” means the practice of transferring crews from place to place as passengers in surface or air transport on behalf of the national air operator positioning time counts as duty time;

“reporting time” means the time at which a crew member is required by the national air operator to report for any duty;

“rest period” means a period of time before starting a flight duty period that is designed to give crew members adequate opportunity to rest before a flight;

“rostered duty” means a planned duty period, or series of planned duty periods, with stipulated start and finish times, notified by the national air operator to crews in advance;

“schedules duty” means the allocation of specific flight or flights or other duties to a crew member within the pre-notified series of planes duty periods;

“sector” means the time between an aircraft first moving under its own power until it next comes to rest at the designated parking position after landing;

“split duty” means a flight duty period which consists of two (2) or more sectors separated by less than the prescribed minimum rest period;

“standby” means a flight crew member who has been designated by an air operator to remain at a specified location in order to be available to report for flight duty on notice of one (1) hour or less;

“reserve duty” means a period during which the national air operator places restraints on a crew member who would otherwise be off duty;

“suitable accommodation” means a furnished bedroom which is subject to minimum noise, is well ventilated, and has the facility to control the levels of light and temperature; and

“travelling” means all time spent by a crew member transiting between the place of rest and the place or reporting for duty. Travelling time does not count as duty time.

Monitoring System

4. (1) An air operator shall establish a system that monitors the flight time, flight duty time and rest periods of each of its flight crew members and shall include in its company operations manual the details of that system.

(2) Where a person becomes aware that an assignment by an air operator to act as a flight crew member on a flight would result in the maximum flight time or the maximum flight duty time specified in these Regulations being exceeded the person shall so notify that national air operator.
5. A crew member shall not act as a member of the operating crew if he knows, or suspects that his physical or mental condition renders him unfit to operate. A crew member shall not fly if he knows that he is or is likely to be in breach of this section.

Calculation of a Flight Duty Period

6. The maximum flight duty period in hours and fractions of hours will be in accordance with paragraph 17. The times extracted may be extended at the discretion of the pilot-in-command under the terms of paragraphs 18 and 19 and 30 as applicable.

Additional Limits on flying early starts

7. A flight crew member should normally not be rostered to operate more than three (3) consecutive days where duties start or finish in any part of the period 0001 to 0559 local time. There will be no more than four (4) such duties in seven (7) consecutive days.
8. However, when a crew member is in suitable accommodation provided by the company which is less than sixty (60) minutes travelling time of the reporting point, then 0559 may be changed to 0459 local time.
9. Should any duties be scheduled to be carried out within any part of the period 0200 to 0459 local time, for maximum of three (3) consecutive nights, then a crew member will finish the duty preceding this series by 2100 hours local time before covering the block of consecutive night duties. However, if the preceding duty period extends beyond 2100 hours local time but not later than 2259 hours due to an unforeseen delay the crew member is expected to operate the scheduled flight.

Mixed Duties

10. When a crew member is required to report for duty in advance of the stipulated report time for a scheduled flight, to carry out a task on behalf of the subsequent flight duty period.

Mixed Simulator and Aircraft Flying

11. When a crew member flies in the simulator, either on a check or training or as an Instructor or check airman, and when within the same duty period he operates as a flight crew member in commercial air transport operations all the flight time and flight duty time spent in the simulator is counted in full towards the subsequent flight duty period and for helicopters towards the daily flying hour maxima. Simulator flying does not count as a sector, but the flight duty period allowable is calculated from one (1) hour prior to the scheduled simulator start time.

Positioning and Combination of Flying and Other Duty

12. All time spent on positioning as required by the operator shall count as duty but does not count as a sector when calculating the maximum allowable flight duty period. In such circumstances the flight duty period commences at the time at which the crew member reports for the positioning journey.
13. Positioning any form of ground duty and standby duty at an airport which immediately preceded flight duty, shall be included in the flight duty period and be subject to maximum allowable flight duty period limits specified. Positioning and ground duties immediately following a flight duty shall not be part of the flight duty period but shall count in computing the length of the subsequent rest period. The time spent between reporting for a flight and the completion of post flight tasks determines the length of the subsequent rest period.

14. If, after the positioning journey a crew member spends less than the minimum rest period at a suitable accommodation provided by the national air operator, and then carries out the flight duty period, the positioning will be counted as a sector. If it is not, a split duty flight duty period will not be used.

Reserve Duty

15. When at home or in suitable accommodation provided by the national air operator, crew members may be on reserve duty for twenty-four (24) hours but the time of start, end and nature of the reserve duty will be defined to crew members so that they can plan their rest.
16. When a crew member is required to be on standby at the airport or a designates reporting place, the flight duty period commences at the reported time.

Maximum Flight Duty Period – Aeroplanes

17. The maximum flight duty periods for aeroplane crews is shown in the table below –

TWO (2) PILOT CREW - AEROPLANE

Local Time at Start	Sectors									
	1	2	3	4	5	6	7	8	9	10 OR MORE
0600-1259	14	14	14	13	12	11	10	10	9	9
1300-1759	14	14	13 1/4	12 1/2	11 3/4	11	10	10	9	9
1800-2159	14	13 1/4	12 1/2	11 3/4	11	10	10	10	9	9
2200-0559	12	11 1/2	10 3/4	10	10	10	10	10	9	9

(2) PILOTS
ONE (1)
FLIGHT
ENGINEER -

AEROPLANE

Local Time at Start	Sectors							
	1	2	3	4	5	6	7	8 OR MORE
0600-1259	14	14	14	13 1/2	12 1/2	11	10	10

Civil Aviation Authority

1300- 1759	14	14	13 1/2	12 3/4	12 1/2	11	10	10
2200- 0559	12	12	11 1/2	11	11	11	10	9

SINGLE (1) PILOT CREW - AEROPLANE

Local Time at Start	Sectors							
	1	2	3	4	5	6	7	8 OR MORE
0600- 1259	14	14	14	13 1/2	12 1/2	11	10	10
1300- 1759	14	14	13 1/2	12 3/4	12 1/2	11	10	10
2200- 0559	12	12	11 1/2	11	11	11	10	9

Extension of Maximum Rostered Flight Duty Period by Augmented Crew – Aeroplanes

18. When an augmented crew is used to extend the maximum flight duty period the additional crew member or members shall hold qualifications which meet the requirements of the operational duty he will perform. The qualification shall be specified by the operator and approved by the Authority.
19. Where a flight crew is augmented by the addition of at least one (1) flight crew member, the division of duty and rest is balanced between the flight crew members and, when a flight relief facility is provided, flight duty time may be extended if -

- (a) where a flight relief facility – seat is provided, the flight duty time may be extended to sixteen (16) consecutive hours, in which case the maximum flight deck duty time for any flight crew member shall be twelve (12) hours;
 - (b) where a flight relief facility – bunk is provided, the flight duty time may be extended to twenty (20) consecutive hours, in which case the maximum flight deck duty time for any flight crew member shall be fourteen (14) hours;
 - (c) the subsequent minimum rest period shall be at least equal to the length of the preceding flight duty time; and
 - (d) a maximum of three (3) sectors may be completed.
20. Where a flight crew is augmented by the addition of at least one flight crew member, the total flight time accumulated during the flight shall be logged by all flight crew members for the purposes of calculating the maximum flight times.

Extensions of Flight Duty Period by Split Duty

21. When a flight duty period consists of two (2) or more sectors – of which one can be a positioning journey counted as a sector - but separated by less than a minimum rest period, then the flight duty period will extend by the amounts indicated below.

Consecutive Hours Rest	Maximum Extension of the FDP
Less than 3	Nil
3-10	A period equal to half the consecutive hours rest taken.

22. The rest period shall not include the time allowed for immediate post and pre-flight duties. When the rest period is less than six (6) hours it will suffice if a quiet and comfortable place, not open to the public, is available. If rest is to be taken in the aircraft on the ground, the crew shall have adequate control of the temperature and ventilation. Passengers shall not be on board. If the rest period is more than (6) consecutive hours, then suitable accommodation shall be provided.

Delayed Reporting Time

23. When a crew member is informed of a delay before leaving his place of rest the flight duty period shall start at the new reporting time or three (3) hours after the original reporting time whichever is the earlier. This paragraph shall not apply if the crew member is given ten (10) hours or more notice of new reporting time.

Rest Periods

24. The national air operator shall endeavor to notify the crew member of a flight duty period assignment in good time so that sufficient pre-flight rest can be obtained. When away

from base, opportunities and facilities for adequate pre-flight rest will be provided by the national air operator.

25. The minimum rest period which shall be provided prior to a flight duty period shall be—

- a. at least as long as the preceding duty period, or
- b. eleven (11) hours whichever is greater.

Note: *The minimum rest period of eleven hours includes travel time to and from the rest facility, hotel check-in and check-out time and time for personal hygiene and meals allowing eight (8) consecutive hours of sleep opportunity in suitable accommodation. If any of the variables is longer than expected, or there is any further delay in the crews being afforded the required eight (8) hours sleep opportunity, the minimum rest shall be increased accordingly.*

26. If the preceding duty period exceeded sixteen (16) hours, the minimum rest shall be no less than sixteen (16) hours plus two (2) hours for every hour or part of an hour that the previous duty period exceeded sixteen (16) hours.

27. Following a sequence of reduced rest and extended flight duty period the subsequent rest period shall not be reduced.

28. At least thirty-six consecutive hours rest each seven (7) days shall be provided. These rest periods may be taken on layovers in suitable accommodation.

29. Following any three consecutive twenty-four (24) hours periods in which there have been three (3) periods of twelve (12) hours or more of flight duty, the flight crew member shall have twenty-four (24) hours of uninterrupted rest.

30. Following any two (2) consecutive twenty-four (24) hour periods during which there have been two (2) fifteen (15) hours of flight duty the flight crew shall have thirty (30) hours uninterrupted rest.

31. A crew member who has difficulty in achieving adequate preflight rest shall inform the Head of Flight Operations and will be given the opportunity to seek medical assistance.

Pilot-in-command Discretion to Extend a Flight Duty Period in Unforeseen Circumstances

32. The pilot-in-command may, at his discretion, and after taking note of the circumstances of other members of the crew, extend a flight duty period in unforeseen circumstances, beyond that permitted in paragraph 17, provided he is satisfied that the flight can be made

safely. The extension shall be calculated according to what actually happens, not on what was planned to happen. An extension of two (2) hours is the maximum permitted, except in cases of emergency.

Note: *In respect of an extension to a flight duty, an emergency is a situation which in the judgement of the pilot-in-command presents a serious risk to the health or safety of crew and passengers or endangers the lives of others.*

33. Whenever a pilot-in-command extends a flight duty period, he shall report it to the national air operator on a Discretion Report Form acceptable to the Authority. If the extension is greater than one (1) hour, or when exercised after any reduced rest period, then the operator shall submit the pilot-in-command's written report together with the operator's comments to the Authority within fourteen (14) days of the return of the aircraft to base.

Pilot-in-command Discretion to Reduce a Rest Period

34. A pilot-in-command may, at his discretion, and after taking note of the circumstances of other members of the crew, reduce the rest period. The rest period will not be less than ten (10) hours. The exercise of such discretion will be exceptional and shall not be used to reduced successive rest periods. If the preceding flight duty period was extended, the rest period may be reduced, provided that subsequent allowable flight duty period is also reduced by the same amount.

Reporting Exercise of Discretion

35. When a pilot-in-command extends a flight duty period or reduces a rest period it shall be reported to the Chief Pilot on a Captains Voyage Report Form outlining the duty and rest periods.

Days Off

36. Wherever possible, days off should be taken in the home environment. A planned rest period may be included as part of the day off.

37. Crew Members shall be granted an average of two (2) days off per week, not counting periods of leave. A minimum of six (6) days off in any consecutive four (4) weeks is permissible, provided the shortfall is made good in the preceding or following four (4) weeks.

Absolute Limits on Flying Hours

38. A person shall not act as a member of the flight crew of an aircraft if at the beginning of the flight the aggregate of all previous flight times—

- (1) During the period of seven (7) consecutive days expiring at the end of the day on which the flight begins exceeds thirty-five (35) hours; or

- (2) During the period of twenty-eight (28) consecutive days expiring at the end of the day on which the flight begins exceeds one hundred (100) hours; or
- (3) During the period of twelve (12) months expiring at the end of the previous month exceeds one thousand (1,000) hours.

Rules Relating to Cabin Crew

39. The maximum flight duty periods for cabin crew may be one (1) hour longer than those for flight crew.

40. The maximum flight duty hours for cabin crew shall not exceed—

- (1) sixty (60) hours in one (1) week but may be increased to sixty-five (65) hours when a rostered duty covering a series of duty periods, once commenced, is subject to unforeseen delays.
- (2) One hundred and five (105) hours in any two (2) consecutive weeks
- (3) Two hundred and ten (210) hours in any four (4) consecutive weeks.

Air Taxi or Solo Use Charter, Including Pleasure Flying and Air Ambulance Supplement

41. The content of this supplement is designed for use by companies conducting the business of Air Taxi or Sole Use Charter. In the context of this document this type of operation is being carried out when the operator utilizes an aircraft which contains nineteen (19) or fewer passenger seats. The maximum duty periods at paragraph 17 will apply as the case may be.

Records to be Maintained

42. The monitoring system shall include records for the duty and rest periods of all flying staff as follows:

- (a) For each crew member: the beginning, end and duration of each duty and flight duty period, and the function performed during the period; duration of each rest period prior to a flight duty period; dates of days off; weekly totals of duty.
- (b) For each flight crew member: daily and weekly flying hours.

43. Records shall be preserved for at least twelve (12) calendar months. Additionally, copies of all pilot-in-commands' discretion reports of extended flight duty periods and reduced rest periods will be retained for a period of at least six (6) months after the event.

**EXAMPLE FLIGHT AND DUTY TIME SCHEME – HELICOPTER OPERATIONS
REST PERIODS, DUTY, AND FLIGHT TIME: HELICOPTERS**

Applicability

1. (1) The content of this section is designed for use by those companies holding an Air Operator Certificate, which operate helicopters only. This section is not applicable to those organisations that have a mixed fleet of fixed and rotary wing aircraft.
- (2) The scheme has been compiled on the assumption that—
 - (a) Operations are confined within an area where local time varies by not more than one (1) hour
 - (b) Use of in-flight relief to obtain an extension to the allowable flight duty period is not exercised
- (3) The main body of the scheme is complemented by additions that allow for commercial pleasure flying and air ambulance work. In the context of this annex the following applies:
 - (a) commercial pleasure flying:
When the helicopter takes off from and lands at the same aerodrome or approved pleasure flying site, without making an intermediate landing, but does not take into account any positioning flight to or from that aerodrome or pleasure flying site.
 - (b) air ambulance:
When the sole reason for the flight is to carry an ill or injured person to a recognised medical facility, or the carriage of a human organ necessary for the conduct of a transport operation.
- (4) It is accepted that a few operations have helicopters based on oil rigs and provide emergency cover. The application of limits placed on allowable flight duty periods in such circumstances is detailed and complex, and not of interest to the wider audience. Therefore, although what is understood by these terms is detailed below, the construction of such schemes will be arranged between the operator and the Authority.
 - (a) Offshore based and Remote Site Operations—
Those operations in support of the oil/gas industry, where the helicopter and crew are based on a rig or at a remote operating site.
 - (b) Emergency Flights—

A flight undertaken for the sole purpose of assisting in the resolution of an emergency, which is, or under slightly different circumstances could be, a threat to human life.

Responsibilities

1. (1) The national air operator shall have a scheme for the regulation of flight times of crews. The scheme shall be approved by the Authority and included in the national air operator's Operations Manual. The Operations Manual shall be readily available to every person employed by the national air operator as a member of an aircraft crew.
- (2) A crew member shall not fly, and an operator shall not require him to fly, if either has reason to believe that he is suffering or likely to suffer while flying, from such fatigue as may endanger the safety of the aircraft or of its occupants.
- (3) Every flight crew member is required to inform the operator of all flying undertaken so that the cumulative flight and duty times can be assessed against the limitations contained in this section.
- (4) The national air operator will publish crew rosters/planned duty sufficiently in advance so that operating crews can plan adequate pre-duty rest.
- (5) The national air operator and crew members are jointly responsible for the proper control of flight and duty times. Crew members have the responsibility to make optimum use of the opportunities and rest facilities provided. They are responsible for planning and using their rest periods properly in order to minimise the risk of incurring fatigue.
- (6) Crew members shall not act as operating crew if they know or suspect that their physical or mental condition renders them unfit to operate.

Definitions

1. For the purpose of this section—

“calendar day” means the period of elapsed time using Co-ordinated Universal Time or local time that begins at midnight and ends twenty-four (24) hours later at the next midnight;

“days off” means periods available for leisure and relaxation free from all duties. A rest period may be included as part of a day off;

“dispatch crew” means a fully qualified and current flight crew or cabin crew authorised to carry out pre-flight duties as defined by the national air operator;

“duty” means any continuous period during which a crew member is required to carry out any task associated with the business of the national air operator;

“flight crew” means those members of the crew of an aircraft who act as pilot or pilot engineer;

“flight time (helicopter)” means the total time from the moment a helicopter first moves under its own power for the purpose of taking off until the rotors are next stopped;

“flight duty period” means any time during which a person operates in an aircraft as a member of its crew. It starts when the crew member is required by the national air operator to report for a flight and finishes at the end of the flight time on the final sector. This term is used interchangeably with flight duty period and flight duty time;

“minimum rest period” means a period during which a flight crew member is free from all duties, is not interrupted by the national air operator or private operator, and is provided with an opportunity to obtain not less than eight (8) consecutive hours of sleep in suitable accommodation, time to travel to and from that accommodation and time for personal hygiene and meals;

“positioning” means the practice of transferring crews from place to place as passengers in surface or air transport on behalf of the national air operator. Positioning time counts as duty time;

“reporting time” means the time at which a crew member is required by the national air operator to report for any duty;

“rest period” means a period of time before starting a flight duty period that is designed to give crew members adequate opportunity to rest before a flight;

“rostered duty” means a duty period, or series of duty periods, with stipulated start and finish times, notified by the national air operator to crews in advance;

“scheduled duty” means the allocation of specific flight or flights or other duties to a crew member within the pre-notified rostered series of duty periods;

“sector” means the time between an aircraft first moving under its own power until it next comes to rest after landing, on the designated parking position;

“split duty” means a flight duty period which consists of two (2) or more sectors separated by less than a minimum rest period;

“standby” means a flight crew member who has been designated by an air operator to remain at a specified location in order to be available to report for flight duty on notice of one (1) hour or less;

“reserve duty” means a period during which the national air operator places restraints on a crew member who would otherwise be off duty;

“suitable accommodation” means a furnished bedroom which is subject to minimum noise, is well ventilated, and has the facility to control the levels of light and temperature; and

“travelling” means all time spent by a crew member transiting between the place of rest and the place of reporting for duty. Travelling time does not count as duty time.

Monitoring System

1. (1) Every air operator shall establish a system that monitors the flight time, flight duty time and rest periods of each of its flight crew members and shall include in its company operations manual the details of that system.

- (2) Where a person becomes aware that an assignment by an air operator to act as a flight crew member on a flight would result in the maximum flight time or the maximum flight duty time specified in these Regulations being exceeded, the person shall so notify the national air operator.

2. Crew members shall not act as operating crew if they know, or suspect, that their physical or mental condition renders them unfit to operate. Crew members shall not fly if they know that they are likely to be, in breach of this section.

Calculation of a Flight Duty Period

1. The maximum flight duty period, in hours and fractions of hours, will be in accordance with paragraph 20. The times extracted may be extended at the pilot-in-command discretion under the terms of paragraphs 21 and 30 as applicable.

Additional Limits on Flying – Early Starts

6. A flight crew member should normally not be rostered to operate more than three (3) consecutive days where duties start or finish in any part of the period 0001 to 0559 local time. There will be no more than four (4) such duties in seven (7) consecutive days.

7. However, when a crew member is in suitable accommodation provided by the company which is less than sixty (60) minutes travelling time of the reporting point, then 0559 may be changed to 0459 local time.

8. Should any duties be scheduled to be carried out within any part of the period 0200 to 0459 local time, for a maximum of three (3) consecutive nights, then crew members will finish the duty preceding this series by 2100 hours local time before covering the block of consecutive night duties. However, if the preceding duty period extends beyond 2100 hours local time but not later than 2259 hours due to an unforeseen delay the crew member is expected to operate the scheduled flight.

Mixed Duties

9. When the crew member is required to report for duty in advance of the stipulated report time for a scheduled flight, to carry out a task at the behest of the national air operator, then the time spent on that task shall be part of the subsequent flight duty period.

Mixed Simulator and Aircraft Flying

10. When a crew member flies in the simulator, either on a check or training, or as an Instructor, and when within the same duty period flies as a flight crew member on a commercial air transport flight, all the time spent in the simulator is counted in full towards the subsequent flight duty period and the daily flying hour maxima. Simulator flying does not count as a sector, but the flight duty period allowable is calculated from one (1) hour prior to the scheduled simulator start time.
11. In one (1) duty period, a pilot may fly as single flight crew up to the point where the total flying and duty hours reach the single flight crew flight duty period limit. During this time the pilot may fly either in command, or as a co-pilot on a two (2) flight crew helicopter. The pilot may then continue beyond the single flight crew flight duty period limit in a two (2) flight crew operation up to the two (2) flight crew flight duty period and flying hour maxima, but may only fly as co-pilot.

Positioning and Combination of Flying and Other DUTY

12. All time spent on positioning as required by the operator shall count as duty but does not count as a sector when calculating the maximum allowable flight duty period. In these circumstances the flight duty period commences at the time at which the crew member reports for the positioning journey.
13. Positioning, any form of ground duty and standby duty at an airport which immediately preceded flight duty, shall be included in the flight duty period and be subject to maximum allowable flight duty period limits specified. Positioning and ground duties immediately following a flight duty shall not be part of the flight duty period, but shall count in computing the length of the subsequent rest period. The time spent between reporting for a flight and the completion of post flight tasks determines the length of the subsequent rest period.
14. If, after the positioning journey, the crew member spends less than a minimum rest period at suitable accommodation provided by the national air operator, and then carries out the flight duty period, the positioning will be counted as a sector if a split duty is claimed when calculating the allowable flight duty period.

Reserve Duty – Helicopters

15. When at home or in suitable accommodation provided by the national air operator, crew members may be rostered on reserve duty. The time of start, end and the nature of the reserve duty will be defined and notified to crew members. The time a reserve duty starts determines the allowable flight duty period. When the actual flight duty period starts in a more limiting time band, the flight duty period limit will apply. When a crew member is called out from a reserve period 2200 to 0800 hours local time and a crew member is given two (2) hours or less notice of report time, then the allowable flight duty period starts at the report time at the designated reporting place.

16. When a crew member is called out from reserve, the reserve duty will cease at the notified start of the flight duty period, when the crew member reports at the designated reporting point.

17. The following limits will apply in respect of reserve or standby and subsequent flight duty period:

Duty	Maximum Duration
Standby or Reserve duty	12 hours
Standby or Reserve	As in cases A and B BELOW
Followed by an FDP	

Case A—

If a crew member is called out from standby or reserve to conduct a flight duty period before completing six (6) hours standby or reserve duty, then the total duty period allowed is the sum of the time spent on standby and the flight duty period from paragraph 20.

Case B—

If a crew member is called out from standby or reserve to conduct a flight duty period after completing more than six

- (6) hours standby or reserve duty, then the total duty allowed is the sum of all the time spent on standby or reserve and the flight duty period, reduced by the amount of standby worked in excess of six (6) hours.

2. When a crew member is required to be on standby at the airport or a helicopter operating site, the flight duty period commences at the reported time.

Maximum Flight Duty Period Helicopters

18.

Local Time of Start	Single Pilot	Two Pilots

Max. Length of flight duty period (Hours)	Max. Flying Time (Hours)	Max. Length of flight duty period	Max. Flying Time (Hours)
0600-0759	10	7	14
0800-1359	11	7	14
1400-2159	10	6	14

Extension of Flight Duty Period by Split Duty—Helicopters

19. (1) When a flight duty period consists of two (2) or more sectors— of which one can be a positioning journey counted as a sector—but separated by less than a minimum rest period, then the flight duty period can be extended by the amounts indicated below—

Consecutive Hours Rest	Maximum extension of the FDP
Less than 2	Nil
2 – 10	A period equal to half the consecutive hours rest taken.
<p><i>Note: Consecutive hours of rest between two (2) and three (3) hours will only be used once in any single flight duty period.</i></p>	

(2) The rest period shall not include the time allowed for immediate post and pre-flight duties. When the rest period is six (6) hours or less it will suffice if a quiet and comfortable place, not open to the public, is available. Rest cannot be taken in the helicopter. If the rest period is more than six (6) consecutive hours, then suitable accommodation will be provided.

Delayed Reporting Time

20. When crew members are informed of a delay before leaving their place of rest the flight duty period shall start at the new reporting time, or three (3) hours after the original reporting time, whichever is the earlier. This paragraph shall not apply if crew members are given ten (10) hours or more notice of a new reporting time.

Rest Periods—Helicopters

21. (1) Crew members will be notified in good time of flight duty period so that sufficient and uninterrupted pre-flight rest can be obtained. The Company will provide suitable accommodation to crews when away from base to allow opportunities and facilities for adequate pre-flight rest. When flights are carried out at such short notice that it is impracticable for the Company to arrange suitable accommodation, then this responsibility devolves to the aircraft pilot-in-command.

(2) the minimum rest period which shall be taken before undertaking a flight duty period shall be—

(a) at least as long as the preceding duty period; or

(b) eleven (11) hours, whichever is the greater.

Note: The minimum rest period of eleven (11) hours includes travel time to and from the rest facility, hotel check in and out time and time for personal hygiene and meals allowing eight (8) consecutive hours of sleep opportunity in suitable accommodation. If any of the variables are longer than expected, or there is further delay in the crews being afforded the required

eight (8) hours sleep opportunity, the minimum rest shall be increased accordingly.

22. If the preceding duty exceeded sixteen (16) hours, not less than sixteen (16) hours plus two (2) hours for every hour or part of an hour that the previous duty exceeded sixteen (16) hours.
23. Following a sequence of reduced rest and extended flight duty period the subsequent rest period cannot be reduced.
24. At least thirty-six (36) consecutive hours rest each seven (7) days shall be provided. These rest periods may be taken on layovers in suitable accommodation.
25. Following any three (3) consecutive twenty-four (24) hour periods in which there have been three (3) twelve (12) hours or more of flight duty, the flight crew member shall have twenty-four (24) hours of uninterrupted rest.
26. Following any two (2) consecutive twenty-four hour periods during which there have been two (2) fifteen hours of flight duty the flight crew shall have thirty (30) hours uninterrupted rest.
27. Crew members who have difficulty in achieving adequate pre- flight rest shall inform the Director, Flight Operations, and then will be given the opportunity to seek medical assistance.

Pilot-in-command Discretion to Extend a Flight Duty Period in Unforeseen Circumstances

28. The pilot-in-command may, at his discretion, and after taking note of the circumstances of other members of the crew, extend a flight duty period in unforeseen circumstances, beyond that permitted in paragraph 19, provided he is satisfied that the flight can be made safely. The extension shall be calculated according to what actually happens, not on what was planned to happen. An extension of two (2) hours is the maximum permitted, except in cases of emergency.

Note: *In respect of an extension to a flight duty, an emergency is a situation which in the judgement of the pilot-in-command presents a serious risk to the health or safety of crew and passengers, or endangers the lives of others.*

Pilot-in-Command Discretion to Reduce a Rest Period

29. A pilot-in-command may, at his discretion, and after taking note of the circumstances of other members of the crew, reduce the rest period. The rest period will not be less than ten (10) hours. The exercise of such discretion will be exceptional and shall not be used to reduce successive rest periods. If the preceding flight duty period was extended, the rest period may be reduced, provided that subsequent allowable flight duty period is also reduced by the same amount.
30. Whenever a pilot-in-command extends a flight duty period, it shall be reported to the national air operator on a Discretion Report Form acceptable to the Director General. If the extension is greater than two (2) hours or when exercised after any reduced rest

period, then the operator shall submit the pilot-in-command's written report together with the operator's comments to the Director General within fourteen (14) days of the aircraft's return to base.

Mixed Single/Two Pilot Operations—Helicopters

31. In a flight duty period a pilot may fly as a single flight crew up to the point where the total flight duty hours reaches the single flight crew limit. During this time the pilot may fly either in command or as a co-pilot on a two flight crew aircraft. The pilot may then continue beyond the single flight crew flight duty period limit in a two flight crew operation up to the two flight crew flight duty period and flying hours maxima, but may only fly as a co-pilot.

Repetitive Short Sectors—Helicopters

32. (1) Crews flying repetitive short sectors, for example pleasure flying, off-shore sector shuttles, at an average rate of ten (10) or more landings per hours, shall have a break of at least thirty (30) minutes away from the helicopter within any continuous period of three (3) hours.
 (2) When carrying out the more demanding roles of helicopter flying, for example, winching and external load carrying, crews shall have a break of thirty (30) minutes away from the helicopter within any continuous period of three (3) hours.

Additional Limits on Flying Early Starts—Helicopters

33. A crew member should not normally operate more than three (3) consecutive days where duties start or finish in any part of the period 0001 to 0559 local time. There will be no more than four (4) such duties in seven (7) consecutive days.

Days Off – Helicopters

34. Wherever possible, days off should be taken in the home environment. A planned rest period may be included as part of the day off. Crew Members shall be granted an average of two (2) days off per week, not counting periods of leave. A minimum of six (6) days off in any consecutive four (4) weeks is permissible, provided the shortfall is made good in the preceding or following four (4) weeks.

Absolute Limits on Flying Hours

35. A person shall not act as a member of the flight crew of an aircraft if at the beginning of the flight the aggregate of all previous flight times—
 - (a) during the period of seven (7) consecutive days expiring at the end of the day on which the flight begins exceeds thirty-five (35) hours.
 - (b) during the period of twenty-eight (28) consecutive days expiring at the end of the day on which the flight begins exceeds one hundred (100) hours; or

- (c) during the period of twelve (12) months expiring at the end of the previous month exceeds one thousand (1,000) hours.

Rules Related to Cabin Crew if Carried

- 36. The maximum flight duty periods for cabin crew may be one (1) hour longer than those for flight crew.
- 37. The maximum flight duty hours for cabin crew shall not exceed—
 - (a) sixty (60) hours in one (1) week but may be increased to sixty-five (65) hours when a rostered duty covering a series of duty periods, once commenced, is subject to unforeseen delays;
 - (b) one hundred and five (105) hours in any two (2) consecutive weeks; and
 - (c) two hundred and ten (210) hours in any four (4) consecutive weeks.

Records to be Maintained

- 38. The monitoring system shall include records for the duty and rest periods of all flying staff as follows:
 - (a) for each crew member: the beginning, end and duration of each duty and flight duty period, and the function performed during the period; duration of each rest period prior to a flight duty period; dates of days off; weekly totals of duty; and
 - (b) for each flight crew member: daily and weekly flying hours.
- 39. Records shall be preserved for at least twelve (12) calendar months. Additionally, copies of all pilot-in-commands' discretion reports of extended flight duty periods and reduced rest periods will be retained for a period of at least six (6) months after the event.

SCHEDULE 13

(Regulation 305)

Take-off. A pre-take-off contamination check is a check to make sure the wings and control surfaces are free of frost, ice, or snow;

- (a) the certificate holder has an approved alternative procedure and under that procedure the aeroplane is determined to be free of frost, ice, or snow; and

- (b) the certificate holder has an approved de-icing and anti- icing programme that complies with this chapter and the take-off complies with that programme.
- 2. Except for an aeroplane that has ice protection provisions for transport category aeroplane type certification, a pilot shall not fly—
 - (a) under Instrument Flight Rules into known or forecast light or moderate icing conditions; or
 - (b) under visual Flight Rules into known light or moderate icing conditions; unless the aircraft has functioning de- icing or anti-icing equipment protecting each rotor blade, propeller, windshield, wing, stabilizing or control surface, and each airspeed, altimeter, rate of climb, or flight attitude instrument system.
- 3. A pilot shall not fly a helicopter under Instrument Flight Rules into known or forecast icing conditions or under Visual Flight Rules into known icing conditions unless it has been type certificated and appropriately equipped for operations in icing conditions.
- 4. Except for an aeroplane that has ice protection provisions for transport category aeroplane type certification, a pilot shall not fly an aircraft into known or forecast severe icing conditions.
- 5. If current weather reports and briefing information relied upon by the pilot-in-command indicate that the forecast icing condition that would otherwise prohibit the flight will not be encountered during the flight because of changed weather conditions since the forecast, the restrictions in paragraphs (2), (3), and (4) of this section based on forecast conditions do not apply.
- 6. A person shall not dispatch or release an aircraft, continue to operate an aircraft en route, or land an aircraft when in the opinion of the pilot-in-command or flight operations officer, icing conditions are expected or met that might adversely affect the safety of the flight.
- 7. A person shall not take off an aircraft when frost, ice, or snow is adhering to the wings, control surfaces, propellers, engine inlets, or other critical surfaces of the aircraft or when the take-off would not be in compliance with paragraph (2) of this section. Take-offs with frost under the wing in the area of the fuel tanks may be authorised by the Authority.
- 8. Except as provided in paragraph (3) of this section, a person shall not dispatch, release, or take off an aircraft any time conditions are such that frost, ice, or snow may reasonably be expected to adhere to the aircraft, unless the certificate holder has an approved ground de-icing/anti-icing programme in its operations specifications and unless the dispatch, release, and take-off comply with that programme. The approved ground de- icing/anti-icing programme shall include at least the following items:

(a) a detailed description of—

- (A) how the certificate holder determines that conditions are such that frost, ice, or snow may reasonably be expected to adhere to the aircraft and that ground de-icing and anti-icing operational procedures shall be in effect;
- (B) who is responsible for deciding that ground de-icing and anti-icing operational procedures shall be in effect;
- (C) the procedures for implementing ground de-icing and anti-icing operational procedures;
- (D) the specific duties and responsibilities of each operational position or group responsible for getting the aircraft safely airborne while ground de-icing and anti-icing operational procedures are in effect.
- (E) Initial and annual recurrent ground training and testing for flight crew members and qualification for all other affected personnel (e.g., flight operations officers, ground crews, contract personnel) concerning the specific requirements of the approved programme and each person's responsibilities and duties under the approved programme, specifically covering the following areas:
 - A. the use of holdover times.
 - B. aircraft de-icing and anti-icing procedures, including inspection and check procedures and responsibilities.

- C. communications procedures;
 - D. aircraft surface contamination (i.e., adherence of frost, ice, or snow) and critical area identification, and how contamination adversely affects aircraft performance and flight characteristics;
 - E. types and characteristics of de- icing and anti-icing fluids.
 - F. cold weather pre-flight inspection procedures;
 - G. techniques for recognising contamination on the aircraft.
9. The certificate holder's holdover timetables and the procedures for the use of these tables by the certificate holder's personnel. Holdover time is the estimated time de-icing or anti-icing fluid will prevent the formation of frost or ice and the accumulation of snow on the protected surfaces of an aircraft. Holdover time begins when the final application of de-icing or anti- icing fluid commences and expires when the de-icing or anti-icing fluid applied to the aircraft loses its effectiveness. The holdover times shall be supported by data acceptable to the Authority. The certificate holder's programme shall include procedures for flight crew members to increase or decrease the determined holdover time in changing conditions. The programme shall provide that take-off after exceeding any maximum holdover time in the certificate holder's holdover timetable is permitted only when at least one (1) of the following conditions exists:
- (a) a pre-take-off contamination check, as defined in paragraph 10 determines that the wings, control surfaces, and other critical surfaces, as defined in the certificate holder's programme, are free of frost, ice, or snow.
 - (b) it is otherwise determined by an alternate procedure approved by the Authority in accordance with the certificate holder's approved programme that the wings, control surfaces, and other critical surfaces, as defined in the certificate holder's programme, are free of frost, ice, or snow; and

- (c) the wings, control surfaces, and other critical surfaces are re-de-iced and a new holdover time is determined.
10. Aircraft de-icing and anti-icing procedures and responsibilities, pre-take-off check procedures and responsibilities, and pre-take-off contamination check procedures and responsibilities. A pre-take-off check is a check of the aircraft's wings or representative aircraft surfaces for frost, ice, or snow within the aircraft's holdover time. A pre-take-off contamination check is a check to make sure the wings, control surfaces, and other critical surfaces, as defined in the certificate holder's programme, are free of frost, ice, and snow. It shall be conducted within five (5) minutes prior to beginning take off. This check shall be accomplished from outside the aircraft unless the programme specifies otherwise.
11. A certificate holder may continue to operate under this section without a programme as required in paragraph (1)(c) of this section, if it includes in its operations specifications a requirement that, any time conditions are such that frost, ice, or snow may reasonably be expected to adhere to the aircraft, no aircraft will take off unless it has been checked to ensure that the wings, control surfaces, and other critical surfaces are free of frost, ice, and snow. The check shall occur within five (5) minutes prior to beginning take-off. This check shall be accomplished from outside the aircraft.

SCHEDULE 14

(Regulation 311)

IMPLEMENTING STANDARDS

The following standards are numbered to correspond numerically with the relevant provisions in the Regulations:

Regulation 9

Inoperative Instruments and equipment under regulation 9 shall meet the following minimum standards:

- (a) this implementing standard authorises flight operations with inoperative instruments and equipment installed in situations where no master minimum equipment list is available and no Minimum Equipment List is required for the specific aircraft operation under these regulations.
- (b) the inoperative instruments and equipment shall not be—
 - (A) part of the Visual Flight Rules-day instruments and equipment prescribed in the Act or Regulations made thereunder;
 - (B) required on the aircraft's equipment list or the operations

- equipment list for the kind of flight operation being conducted;
- (C) required by the Act or Regulations made thereunder for the specific kind of flight operation being conducted; or
 - (D) required to be operational by an airworthiness directive.
- (c) to be eligible for these provisions, the inoperative instruments and equipment shall be—
- (A) determined by the pilot-in-command not to be a hazard to safe operation;
 - (B) deactivated and placarded “Inoperative”; and
 - (C) removed from the aircraft, the flight deck control, placarded and the maintenance recorded in accordance with Regulation 9.

Regulation 13

The transport of dangerous goods under regulation 13 shall meet the following minimum standards:

- (a) owners and operators desirous of transporting dangerous goods shall be approved by the Authority; and
- (b) an applicant shall satisfy the requirements of the International Civil Aviation Organisation Technical Instructions as amended, to be granted the approval.

Regulation 14

The safe transport of dangerous goods under regulation 14 shall meet the following minimum standards:

- (a) the Authority shall stipulate the scope of approval after being satisfied that the applicant has complied with the provisions of the International Civil Aviation Organisation Technical Instructions.

- (b) notwithstanding, where dangerous goods are to be transported outside the territory of Guyana, the operator shall comply with the appropriate variations noted by contracting states, the International Civil Aviation Organisation Technical Instructions as amended.

Regulation 16

The classification of goods as dangerous goods under regulation 16 shall meet the applicable minimum standards of the International Civil Aviation Organisation Technical Instructions as amended.

Regulation 17

The method of packing of goods under regulation 17 shall meet the applicable minimum standards of the International Civil Aviation Organisation Technical Instructions as amended.

Regulation 18

The method and procedures for labelling and marking dangerous goods under regulation 18 shall meet the applicable minimum standards of the International Civil Aviation Organisation Technical Instructions as amended.

Regulation 19

The Dangerous Goods Transport Document under regulation 19 shall meet the minimum standards set out in the International Civil Aviation Organisation Technical Instructions as amended.

Regulation 20

The method of acceptance of dangerous goods under regulation 20 shall meet the minimum standards set out in procedures in the International Civil Aviation Organisation Technical Instructions as amended.

Regulation 21

The inspection for damage, leakage or contamination of dangerous goods under regulation 21 shall meet the minimum standards set out in the International Civil Aviation Organisation Technical Instructions as amended.

Regulation 22

Removal of contamination caused by dangerous goods as a result of damage, leakage or contamination of dangerous goods under regulation 22 shall meet the minimum standards set out in the International Civil Aviation Organisation Technical Instructions as amended.

Regulation 23

Loading restrictions of dangerous goods under regulation 23 shall meet the minimum standards set out in the International Civil Aviation Organisation Technical Instructions as amended.

Regulation 24

The information regarding the transport of dangerous goods which is to be provided to ground staff, passengers, acceptance point personnel, crew members, pilot-in-command and the relevant civil aviation authorities in the event of an accident or incident, inspection for damage, leakage or contamination of dangerous goods under regulation 24 shall meet the minimum standards set out in the International Civil Aviation Organisation Technical Instructions as amended.

Regulation 25

Training programmes for initial and recurrent dangerous goods training under regulation 25 shall meet the following minimum standards:

- (a) the training programme and training curricula or content of the training programme shall be in accordance with the International Civil Aviation Organisation Technical Instructions as amended;
- (b) the training of personnel of an operator approved to carry dangerous goods shall cover the areas identified in Column 1 of Table 1 and be to a depth sufficient to ensure that an awareness is gained of the hazards associated with dangerous goods and how to identify such goods; and
- (c) the training of crew members and personnel of an air operator approved to carry dangerous goods, aircraft passenger handling staff, and security staff employed by the national air operator who deal with the screening of passengers and their baggage, have received training which, as a minimum, shall cover the areas identified in Column 2 of Table 1 and be to a depth sufficient to ensure that an awareness is gained of the hazards associated with dangerous goods, how to identify them and what requirements apply to the carriage of such goods by passengers;

Areas of Dangerous Goods Training	1	2
General Philosophy	x	x
Limitations on Dangerous Goods in Air Transport	x	x
Package Marking and Labelling	x	x

Dangerous Goods in Passengers Baggage	X
Emergency Procedures	x
Note: x indicates an area to be covered.	

(d) an operator holding a permanent approval to carry dangerous goods shall ensure that—

- (i) personnel engaged in the acceptance of dangerous goods have received training and are qualified to carry out their duties. As a minimum, such training shall cover the areas identified in Column 1 of Table 2 and be to a depth sufficient to ensure that staff can make decisions on the acceptance or refusal of dangerous goods offered for carriage by air;
- (ii) personnel engaged in ground handling, storage and loading of dangerous goods have received training to enable them to carry out their duties in respect of dangerous goods. At a minimum, this training shall cover the areas identified in Column 2 of Table 2 and be to a depth sufficient to ensure that an awareness is gained of the hazards associated with dangerous goods, how to identify such goods and how to handle and load them;
- (iii) personnel engaged in general cargo handling have received training to enable them to carry out their duties in respect of dangerous goods. As a minimum, this training shall cover the areas identified in Column 3 of Table 2 and be to a depth sufficient to ensure that an awareness is gained of the hazards associated with dangerous goods, how to identify such goods and how to handle and load them;
- (iv) flight crew members have received training which, as a minimum, shall cover the areas identified in Column 4 of Table 2. Training shall be to a depth sufficient to ensure that an awareness is gained of the hazards associated with dangerous goods and how they should be carried on an aeroplane; and
- (v) passenger handling staff; security staff employed by the operator who deal with the screening of

passengers and their baggage; and crew members (other than flight crew members) have received training which, as a minimum, shall cover the areas identified in Column 5 of Table 2. Training shall be to a depth sufficient to ensure that an awareness is gained of the hazards associated with dangerous goods and what requirements apply to the carriage of such goods by passengers or, more generally, their carriage on an aeroplane;

- (e) an air operator shall ensure that all personnel who require dangerous goods training receive recurrent training at intervals no longer than two (2) years;
- (f) an air operator shall ensure that records of dangerous goods training are maintained for all personnel required such training and that these records are maintained at the location where the personnel perform such duties;
- (g) an air operator shall ensure that its handling agent's staff is trained in accordance with the applicable column of Table 1 or Table 2;

Areas Of Training	1	2	3	4	5
General Philosophy	x	x	x	x	x
Limitations On Dangerous Goods In The Air Transport	x	x	x	x	x
Classification And List Of Dangerous Goods	x	x	x	x	x
General Packing Requirements And Packing Instructions	x	x		x	
Packaging Specifications Marking	x				
Package Marking And Labeling	x	x	x	x	x
Documentation From The Shipper	x				
Acceptance Of Dangerous Goods, Including The Use Of A Checklist	x				
Loading, Restrictions On Loading And Segregation	x	x	x	x	
Inspections For Damage Or Leakage And Decontamination Procedures	x	x			
Provision Of Information To Pilot-In-Command	x	x		x	
Dangerous Goods In Passenger's Baggage	x			x	x
Emergency Procedures	x	x		x	x

Note: x indicates an area to be covered

- (a) an air operator shall provide dangerous goods training manuals which contain adequate procedures and information to assist personnel in identifying packages marked or labelled as containing hazardous materials including—
 - (i) instructions on the acceptance, handling, and carriage of hazardous materials;
 - (ii) instructions governing the determination of proper shipping names and hazard classes; and
 - (iii) packaging, labelling, and marking requirements.

Regulation 26

Dangerous Goods incidents and accidents under regulation 26 shall be reported in accordance with the following minimum standards:

- (a) reports of dangerous goods incidents and accidents are to be made to the civil aviation authority of the State in which the incident or accident occurred, and to the Authority by the pilot-in-command; and
- (b) an operator shall also report to the Authority undeclared dangerous goods or inaccurately declared dangerous goods which are discovered in cargo or passengers' baggage. An initial report shall be dispatched within seventy-two (72) hours of the discovery unless exceptional circumstances prevent this.

Regulation 31

1. A change to an Aircraft Maintenance Programme under regulation 31 shall meet the following minimum standards:
2. The Authority shall use information generated from local operators' reliability reports, information from service information letters and service difficulty reports from manufacturers, International Safety Organisations and experiences from the aviation industry worldwide to influence a decision on an operator's approved inspection programme.

Regulation 33

The retention of maintenance records under regulation 33 shall meet the requirements of the Civil Aviation Air Operators Certification and Administration Regulations.

Regulation 34

The transfer of maintenance records under regulation 34 shall meet the requirements of Civil Aviation Air Operators Certification and Administration Regulations.

Regulation 36

Training to competency in the use of ACAS II equipment and the avoidance of collisions may be evidenced by, the following:

- (a) Possession of a type rating for an aeroplane equipped with ACASII, where the operation and use of ACAS II are included in the training syllabus for the type rating;
- (b) Possession of a document issued by a training organisation or person approved by the Authority to conduct training for pilots in the use of ACAS II, indicating that the holder has been trained in accordance with guidelines referred to in paragraph (a); or
- (c) A comprehensive pre-flight briefing by a pilot who has been trained in the use of ACAS II in accordance with the guidelines referred to in paragraph (a).

Regulation 48(4), 48(5) and 52

The fitness of flight crew members under regulations 48(4), 48(5) and 52 shall meet the following minimum standards:

Whenever there is reasonable basis to believe that a person may not be in compliance with regulations 48(4), 48(5) or 52, and upon the request of the Authority, that person shall furnish the Authority or authorise any clinic, doctor or other person to release to the Authority, the results of each blood test taken for presence of alcohol or narcotic substances up to eight (8) hours before or immediately after acting or attempting to act as a crew member.

Regulation 54

Flight crew members at duty stations under regulation 54 shall meet the following minimum standards:

- (a) a required flight crew member shall leave the assigned duty station if he is taking a rest period, and relief is provided—
 - (i) for the assigned pilot-in-command during the en-route cruise portion of the flight by a pilot who holds an Airline Transport Pilot Licence and an appropriate type rating, and who is currently qualified as pilot-in-command or co-pilot, and is qualified as pilot-in-command of that aircraft during the en-route cruise portion of the flight; and
 - (ii) in the case of the assigned co-pilot, by a pilot qualified to act as pilot-in-command or co-pilot of that aircraft during en-route operations.

Regulation 63

The management of fuel in flight under regulation 63 shall meet the following minimum standards:

(a) in-flight fuel checks:

- (i) a pilot-in-command shall ensure that fuel checks are carried out in flight at regular intervals. The remaining fuel shall be recorded and evaluated to—
 - (A) compare actual consumption with planned consumption;
 - (B) check that the remaining fuel is sufficient to complete the flight;
 - (C) determine the expected fuel remaining on arrival at the destination; and

(b) in flight fuel management—

- (i) if, as a result of an in-flight fuel check, the expected fuel remaining on arrival at the destination is less than the required alternate fuel plus final reserve fuel, the pilot in command shall take into account the traffic and the operational conditions prevailing at the destination aerodrome, along the diversion route to an alternate aerodrome and at the destination alternate aerodrome, when deciding whether to proceed to the destination aerodrome or to divert, so as to land with not less than final reserve fuel; and
- (ii) on a flight to an isolated aerodrome the last possible point of diversion to any available en- route alternate aerodrome shall be determined. Before reaching this point, the pilot-in- command shall assess the fuel expected to remain overhead the isolated aerodrome, the weather conditions, and the traffic and operational conditions prevailing at the isolated aerodrome and at any of the en-route aerodromes

before deciding whether to proceed to the isolated aerodrome or to divert to an en-route aerodrome.

Regulation 64

A flight crew member under regulation 64 during critical phases of flight shall meet the following minimum standards:

- (a) duties such as company required calls made for such non-safety related purposes as ordering galley supplies and confirming passenger connections, announcements made to passengers promoting the air operator or pointing out sights of interest, and filling out company payroll and related records are not duties required for the safe operation of the aircraft; and
- (b) activities such as eating meals, engaging in non-essential conversations within the cockpit and non-essential communications between the cabin and cockpit crews, and reading publications not related to the proper conduct of the flight are not duties required for the safe operation of the aircraft.

Regulation 68

The reporting of mechanical irregularities under regulation 68 shall comply with the following minimum standards:

- (a) an air operator shall provide an aircraft technical log to be carried on board each aircraft for recording or deferring mechanical irregularities and their correction;
- (b) the pilot-in-command shall enter or have entered in the aircraft technical log each mechanical irregularity that comes to his attention during flight time. Before each flight, the pilot-in-command shall, where the pilot does not already know, determine the status of each irregularity entered in the technical log at the end of the preceding flight;
- (c) a person who takes corrective action or defers action concerning a reported or observed failure or malfunction of an airframe, power plant, propeller, rotor, appliance or personnel and shall include that procedure in the maintenance control manual, shall record the action taken in the aircraft technical log under the applicable maintenance requirements of the Act or Regulations made thereunder;

- (d) an air operator shall establish a procedure for keeping copies of the aircraft technical log required by this section in the aircraft for access by appropriate representatives of the Authority.

Regulation 69 through 76

Guyana Civil Aviation Authority Advisory Circular No. 031 (GAC –

- 31) as amended from time to time meets the minimum requirement for occurrence reports. Operators may be guided by GAC-031 in meeting the requirements for Guyana Occurrence Reports.

Regulation 79

- 1. When interference with an aircraft system or equipment is suspected from use of a portable electronic device, crew members of the aircraft shall—
 - (a) confirm passenger use of such portable electronic device;
 - (b) instruct the passenger using such portable electronic device to terminate the use of such portable electronic device;
 - (c) prohibit the use of suspected portable electronic device; and
 - (d) recheck the affected systems and equipment of the aircraft.
- 2. The pilot-in-command shall report incidents of portable electronic device interference to the national air operator and include the following information in the report:
 - (a) aircraft type, registration, date and Universal Coordinated Time of incident, aircraft location using VHF Omni Range bearing and distance or latitude and longitude coordinates, altitude, weather conditions, pilot name and telephone number;
 - (b) description of effects on cockpit indicators, audio or systems, including radio frequency, identification, duration, severity and other pertinent information;
 - (c) action taken by the pilot or crew to identify cause or source of interference;
 - (d) description of device, brand name, model, serial number, mode of operation, device location (seat location), and regulatory approval number;

- (e) name and telephone number of passenger operating the device; and
- (f) additional information, as determined pertinent by the flight crew.

Regulation 96

The United States of America, Federal Aviation Administration, Advisory Circular AC120-42, as amended from time to time, meets the minimum International Civil Aviation Organisation requirements for giving effect to the Chicago Convention in respect of the minimum standards relating to regulation 96 which are for Extended Range Operations with two engine-aeroplanes. National air operators may be guided by the current AC120-42 in meeting the Guyana ETOPS requirements.

Regulation 97

The United States of America, Federal Aviation Administration, Circular AC120-42, as amended from time to time, meets the minimum International Civil Aviation Organisation requirements for giving effect to the Chicago Convention in respect of the minimum standards relating to regulation 97 which are for En-route Alternate Aerodrome-ETOPS operations. National air operators may be guided by the current AC120-42 in meeting the Guyana ETOPS requirements.

Regulation 102

The loading mass and balance of an aircraft under regulation 102 shall meet the following minimum standards:

- (a) An operator shall ensure that during any phase of operation, the loading, mass and centre gravity of the aircraft complies with the limitations specified in the approved Aeroplane Flight Manual or the Helicopter Flight Manual, or the Operations Manual where more restrictive.
- (b) Guyana Civil Aviation Authority Circular No. 006 (GAC-006) as amended from time to time meets the minimum requirements for this regulation. Operators may be guided by the current GAC-006 in meeting the requirements for mass and balance.

Regulation 106

The record of emergency and survival equipment carried on board an aircraft under regulation 106 shall meet the following minimum standards:

Where a life raft is required to be carried in accordance with regulation 106, it shall be equipped with an attached survival kit containing at least the following:

- (a) a pyrotechnic signalling device;
- (b) a life raft repair kit;
- (c) a bailing bucket and sponge;
- (d) a signalling mirror;
- (e) a whistle;
- (f) a raft knife;
- (g) an inflation pump;
- (h) dye marker;
- (i) a waterproof flashlight;
- (j) a two (2) day supply of water, calculated using the overload capacity of the raft, consisting of one (1) pint of water per day for each person or a means of desalting or distilling salt water sufficient to provide an equivalent amount;
- (k) a book on sea survival; and
- (l) a first aid kit containing antiseptic swabs, burn dressing compresses, bandages and anti-motion sickness pills.

Regulation 108

The following established international performance codes meet the minimum international civil aviation requirements for giving effect to the Chicago Convention in respect of the minimum standards relating to the performance requirements of these Regulations as applicable:

- (a) Federal Aviation Regulations of the United States of America;
- (b) Joint Aviation Requirements;
- (c) Canadian Aviation Regulations; and
- (d) British Civil Authority and Requirement.

Regulation 120

The landing performance limitations for aircraft under regulation 120 shall meet the following minimum standards:

The in-flight determination of the landing distance should be based on the latest available report, preferably not more than thirty (30) minutes before the expected landing time.

Regulation 134

The United States of America, Federal Aviation Administration, Advisory Circular AC120-28 and AC120-29, as amended from time to time, meet the minimum International Civil Aviation Organisation requirements for giving effect to the Chicago Convention in respect of the minimum standards relating to regulation 134 which are for the approval of Category II and III operations. National air operators may be guided by the current AC120-28 and AC120-29 in meeting the Category II or Category III requirements.

Regulation 140

Lights other than those specified shall not be displayed if they are likely to be mistaken for the specified lights.

Regulation 147

The United States of America, Federal Aviation Administration, 91 – RVSM, Guidance Material on the Approval of Operators or Aircraft for RVSM Operations, as amended from time to time, meets the minimum International Civil Aviation Organisation requirements for giving effect to the Chicago Convention in respect of the minimum standards relating to regulation 147 for operations in RVSM airspace. Operators may be guided by the current 91 – RVSM in meeting the RVSM requirements.

Regulation 148

ALTIMETRY SYSTEM PERFORMANCE REQUIREMENTS FOR OPERATIONS IN RVSM AIRSPACE

1. In respect of groups of aeroplanes that are nominally of identical design and built with respect to all details that could influence the accuracy of height-keeping performance, the height-keeping performance capability shall be such that the total vertical error (TVE) for the group of aeroplanes shall have a mean no greater than 25 metres (80 feet) in magnitude and shall have a standard deviation no greater than $28.0.013z^2$ for $0 \leq z \leq 25$ when z is the magnitude of the mean TVE in metres, or $92.0.004z^2$ for $0 \leq z \leq 80$ where z is in feet. In addition, the components of TVE shall have the following characteristics:

- (a) the mean altimetry system error (ASE) of the group shall not exceed 25 metres (80 feet) in magnitude;

- (b) the sum of the absolute value of the mean ASE and of three standard deviations of ASE shall not exceed 75 metres (245 feet); and
 - (c) the differences between cleared flight level and the indicated pressure altitude actually flown shall be symmetric about a mean of 0 metre, with a standard deviation no greater than 13.3 metres (43.7 feet), and in addition, the decrease in the frequency of differences with increasing difference magnitude shall be at least exponential.
2. In respect of aeroplanes for which the characteristics of the airframe and altimetry system fit are unique and so cannot be classified as belonging to a group of aeroplanes encompassed by paragraph 1, the height-keeping performance capability shall be such that the components of the TVE of the aeroplane have the following characteristics:
- (a) the ASE of the aeroplane shall not exceed 60 metres (200 feet) in magnitude under all flight conditions; and
 - (b) the differences between the cleared flight level and the indicated pressure altitude actually flown shall be symmetric about a mean of 0 metre, with a standard deviation no greater than 13.3 metres (43.7 feet), and in addition, the decrease in the frequency of differences with increasing difference magnitude shall be at least exponential.

Regulation 157

COMMUNICATION FAILURE

1. Air—Ground.

When an aircraft station fails to establish contact with the aeronautical station on the designated frequency, it shall attempt to establish contact on another frequency appropriate to the route. If this attempt fails, the aircraft station shall attempt to establish communication with other aircraft or other aeronautical stations on frequencies appropriate to the route. In addition, an aircraft operating within a network shall monitor the appropriate VHF frequency for calls from nearby aircraft.

If the attempts detailed in the preceding paragraph fail, the aircraft station shall transmit its message twice on the designated frequency, preceded by the phrase “TRANSMITTING BLIND” and, if necessary, include the addressee for which the message is intended.

In network operation, a message that is transmitted blind should be transmitted on the primary and secondary frequencies. Before changing frequency, the aircraft station should announce the frequency to which it is changing.

2. Receiver failure.

When an aircraft station is unable to establish communication due to receiver failure, it shall transmit reports at the scheduled times, or position, on the frequency in use, preceded by the phrase "TRANSMITTING BLIND DUE TO RECEIVER FAILURE". The aircraft station shall transmit the intended message, following this by a complete repetition. During this procedure, the aircraft shall also advise the time of its next intended transmission.

An aircraft, which is provided with air traffic control or advisory service, shall, in addition to complying with the preceding paragraph, transmit information regarding the intention of the pilot-in-command with respect to the continuation of the flight of the aircraft.

When an aircraft is unable to establish communication due to airborne equipment failure it shall, when so equipped, select the appropriate SSR code to indicate radio failure.

Regulation 195

An operator shall ensure that where alcohol and drugs are used on board an aircraft by passengers under regulation 195 such use shall meet the following minimum standards:

- (a) a person shall not drink any alcoholic beverage aboard an aircraft unless the operator has served that beverage to him;
- (b) an operator shall not serve any alcoholic beverage to any person aboard any of its aircraft who—
 - (i) appears to be intoxicated; and
 - (ii) is escorting a person or being escorted in accordance with security regulations,
- (c) an operator shall not allow any person to board any of its aircraft where such person appears to be intoxicated;
- (d) an operator shall, within five (5) days after the incident, report to the Authority the refusal of any person to comply with paragraph (a), or of any disturbance caused by a person who appears to be intoxicated aboard any of his aircraft;
- (e) except in an emergency, no pilot of a civil aircraft may allow a person who appears to be intoxicated or who demonstrates by manner or physical indications that the individual is under the influence of drugs (except a medical patient under proper care) to be carried in that aircraft.

- (f) a crew member shall do the following:
 - (i) on request of the Authority, submit to a test to indicate the percentage by weight of alcohol in the blood, when -
 - (A) the Authority is authorised to have the test conducted; and
 - (B) the Authority is requesting submission to the test to investigate a suspected violation of State law governing the same or substantially similar conduct prohibited regulation 48(5);
 - (ii) whenever the Authority has a reasonable basis to believe that a person may have violated regulation 48(5), that person shall, upon request by the Authority, furnish the Authority, or authorise any clinic, hospital, doctor, or other person to release to the Authority, the results of each test taken within four (4) hours after acting or attempting to act as a crew member that indicates percentage by weight of alcohol in the blood; and
- (g) any test information obtained by the Authority under paragraph (f) of this section may be evaluated in determining a person's qualifications for any airman certificate or possible violations of the Act or Regulations made thereunder.

Regulation 196

In establishing procedures with respect to the refuelling of an aircraft with passengers on board in accordance with regulation 196, an operator shall meet the following minimum standards:

- (a) one qualified person shall remain at a specified location during fueling operations with passengers on board. This qualified person shall be capable of handling emergency procedures concerning fire protection and firefighting, handling communications and initiating and directing an evacuation;

- (b) crew, staff and passengers shall be warned that refuelling or defueling will take place;
- (c) “Fasten Seat Belts” signs shall be off;
- (d) “No Smoking” sign shall be on, together with interior lighting to enable emergency exits to be identified;
- (e) passengers shall be instructed to unfasten their seat belts and refrain from smoking;
- (f) sufficient qualified personnel shall be on board and be prepared for an immediate emergency evacuation;
- (g) if the presence of fuel vapor is detected inside the aeroplane, on any other hazard arises during the re/de-fueling, fueling shall be stopped immediately;
- (h) the ground area beneath the exits intended for emergency evacuation and slide deployment areas shall be kept clear; and
- (i) provision is made for a safe and rapid evacuation.

Regulation 197

An operator shall ensure that passenger seats, safety belts, and shoulder harnesses under regulation 197 shall meet the following minimum standards:

Each sideward facing seat shall comply as follows:

- (a) an occupant of a seat that makes more than an 18-degree angle with the vertical plane containing the aircraft centerline shall be protected from head injury by a safety belt and an energy absorbing rest that will support the arms, shoulders, head and spine, or by a safety belt and shoulder harness that will prevent the head from contacting any injurious objects; and
- (b) an occupant of any other seat shall be protected from head injury by a safety belt and, as appropriate to the type, location, and angle of facing of each seat, by one or more of the following:
 - (i) a shoulder harness that will prevent the head from contacting any injurious objects;

- (ii) the elimination of any injurious objects within striking radius of the head; and
- (iii) an energy absorbing rest that will support the arms, shoulders, head and spine.

Regulation 198

An air operator shall ensure that passenger briefings under regulation 198 meets the following minimum standards:

- (a) an air operator operating a passenger-carrying aircraft shall ensure that all passengers are orally briefed by the appropriate crew member as follows:
 - (i) before each take-off, on each of the following:
 - (A) each passenger shall be briefed on when, where, and under what conditions smoking is prohibited including, but not limited to, any applicable regulations. This briefing shall include a statement that the Civil Aviation Regulations require passenger compliance with the illuminated passenger information signs, posted placards, areas designated for safety purposes as no smoking areas, and crew member instructions with regard to these items. The briefing shall also include a statement that Civil Aviation Regulations prohibits tampering with, disabling, or destroying any smoke detector in an aeroplane lavatory; smoking in lavatories and, when applicable, smoking in passenger compartments;
 - (B) the location of emergency exits;

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- (C) the use of safety belts, including instructions on how to fasten and unfasten the safety belts. Each passenger shall be briefed on when, where, and under what conditions the safety belt shall be fastened about that passenger. This briefing shall include a statement that the Civil Aviation Regulations require passenger compliance with lighted passenger information signs and crew member instructions concerning the use of safety belts;
 - (D) the location and use of any required emergency flotation means;
 - (E) on operations that do not use a cabin crew, the following additional information:
 - I. the placement of seat backs in an upright position before take-off and landing;
 - II. location of survival equipment; and
 - III. where the flight involves operations above twelve thousand (12,000) MSL, the normal and emergency use of oxygen.
- (ii) after each take-off, immediately before or immediately after turning the seat belt sign off, an announcement shall be made that passengers

should keep their seat belts fastened, while seated, even when the seat belt sign is off;

(iii) except as provided in paragraph (a)(iv) of this standard, before each take-off a required crew member assigned to the flight shall conduct an individual briefing of each person who may need the assistance of another person to move expeditiously to an exit in the event of an emergency. In the briefing the required crew member shall—

(A) brief the person and his attendant, where any, on the routes to each appropriate exit and on the most appropriate time to begin moving to an exit in the event of an emergency; and

(B) inquire of the person and his attendant, where any, as to the most appropriate manner of assisting the person so as to prevent pain and further injury;

(iv) the requirements of paragraph (a)(iii) of this standard shall not apply to a person who has been given a briefing before a previous leg of a flight in the same aircraft when the crew members on duty have been advised as to the most appropriate manner of assisting the person so as to prevent pain and further injury; and

(b) an air operator shall carry on each passenger-carrying aircraft, in convenient locations for use of each passenger, printed cards supplementing the oral briefing and containing—

(i) diagrams of, and methods of operating, the emergency exits;

(ii) other instructions necessary for use of emergency equipment; and

- (iii) the certificate holder shall describe in its manual the procedure to be followed in the briefing required by paragraph (a) of this standard.

Regulation 200

An operator shall ensure that the supply and use of passenger oxygen under regulation 200 meets the following minimum standards:

- (a) passenger cabin occupants. When the aeroplane is operating at flight altitudes above ten thousand feet (10,000 ft), the following supply of oxygen shall be provided for the use of passenger cabin occupants:
 - (i) when an aeroplane certificated to operate at flight altitudes up to and including flight level 250, can at any point along the route to be flown, descend safely to a flight altitude of fourteen thousand feet (14,000 ft) or less within four (4) minutes, oxygen shall be available at the rate prescribed by this part for a 30-minute period for at least 10 percent (10%) of the passenger cabin occupants;
 - (ii) when an aeroplane is operated at flight altitudes up to and including flight level 250 and cannot descend safely to a flight altitude of fourteen thousand feet (14,000 ft) within four (4) minutes, or when an aeroplane is operated at flight altitudes above flight level 250, oxygen shall be available at the rate prescribed by this part for not less than 10 percent (10%) of the passenger cabin occupants for the entire flight after cabin depressurisation, at cabin pressure altitudes above ten thousand feet (10,000 ft) up to and including fourteen thousand feet (14,000 ft) and, as applicable, except that there shall be not less than a 10-minute supply for the passenger cabin occupants; and
 - (iii) for first-aid treatment of occupants who for physiological reasons might require undiluted oxygen following descent from cabin pressure altitudes above flight level 250, a supply of

oxygen shall be provided for two percent (2%) of the occupants for the entire flight after cabin depressurisation at cabin pressure altitudes above eight thousand feet (8,000 ft), but in no case to less than one (1) person. An appropriate number of acceptable dispensing units, but in no case less than two (2), shall be provided, with a means for the cabin crew to use this supply;

- (b) passenger briefing. Before flight is conducted above flight level 250, a crew member shall instruct the passengers on the necessity of using oxygen in the event of cabin depressurisation and shall point out to them the location and demonstrate the use of the oxygen-dispensing equipment.

Regulation 205

An air operator shall ensure that where transportation is denied under regulation 205, the procedures for such denial meet the following minimum standards:

- (a) an air operator shall provide the Authority with a copy of each procedure it establishes in accordance with regulation 205; and
- (b) whenever the Authority finds that the procedures established by the national air operator under regulation 204 does not meet the requirements prescribed by the Authority for safety, it may advise the national air operator to ensure that all procedures meet the Authority's requirements for safety;
- (c) an air operator shall make available to the public at each airport it serves, a copy of each procedure it establishes under regulation 205.

Regulation 206

Exemptions on Certain Passengers Carrying Requirements

1. An operator shall ensure that where passengers are carried under regulation 206 that they are carried in accordance with the following minimum standards:

- (a) The provisions of regulation 206 apply to the following persons:
 - (i) a crew member.

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(ii) a company employee.

(iii) a Civil Aviation Authority air carrier inspector who is performing official duties.

(iv) a person necessary for the—

(A) safety of the flight;

(B) safe handling of animals;

(C) safe handling of hazardous materials;

(D) security of valuable or confidential cargo;

(E) preservation of fragile or perishable cargo;

(F) Experiments on, or testing of, cargo containers or cargo handling devices;

(G) operation of special equipment for loading or unloading cargo; and

(H) loading or unloading of out-size cargo;

(v) a person described in paragraph (a)(iv) of this section, when travelling to or from his assignment;

(vi) a person performing duty as an honour guard accompanying a shipment made by or under the authority of the States;

(vii) a dependent of an employee of the certificate holder when travelling with the employee on company business to or from outlying stations not served by adequate regular passenger flights.

2. An air operator shall not operate an aeroplane carrying a person covered by paragraph (1) unless—
 - (a) each person has unobstructed access from his seat to a regular or emergency exit;
 - (b) the pilot-in-command has a means of notifying such person when smoking is prohibited and when safety belts shall be fastened; and
 - (c) the aeroplane has an approved seat with an approved safety belt for such person. The seat shall be located so that the occupant is not in any position to interfere with the flight crew members performing their duties.
3. Before each take-off, an air operator operating an aeroplane carrying persons covered by this regulation shall ensure that such person has been orally briefed by the appropriate crew member on—
 - (a) smoking;
 - (b) the use of seat belts;
 - (c) the location and operation of emergency exits;
 - (d) the use of oxygen and emergency oxygen equipment; and
 - (e) for extended over-water operations, the location of life rafts, and the location and operation of life vest including a demonstration of the method of donning and inflating a life vest.
4. An air operator operating an aeroplane carrying persons covered under regulation 206 shall incorporate procedures for the safe carriage of such persons into the certificate holder's operations manual.

Regulation 207

An air operator shall ensure that where cabin crew are at duty stations under regulation 207 the following minimum standards are met:

- (a) When determining cabin crew seating positions, the national air operator shall ensure that they are—
 - i. Close to a floor level exit;
 - ii. Provided with a good view of the area of the passenger cabin for which the cabin

- crew member is responsible; and
- iii. Evenly distributed throughout the cabin, in the above order of priority;
- (b) Nothing in these standards shall be interpreted, where there are more cabin stations than cabin crew, as requiring the number of cabin crew to be increased.

Regulation 214

An air operator shall ensure that the procedures to be followed in respect to exit row seating under regulation 214 meets the following minimum standards:

- (a) The standards to be utilized in determining whether a cabin crew may seat a person in a passenger exit seat are listed below. A cabin crew will not seat a person in a passenger exit where-
- i. Such person lacks sufficient mobility, strength, or dexterity in both arms and hands, and both legs-
- (A) To reach upward, sideways, and downward to the location of emergency exit and exit-slide operating mechanisms;
 - (B) To grasp and push, pull, turn or otherwise manipulate those mechanisms;
 - (C) To push, shove, pull, or otherwise open emergency exits;
 - (D) To lift out, hold, deposit on nearby seats, or maneuver over the seatback to the next row objects the size and weight of over-wing window exit doors;
 - (E) To remove obstructions of size and weight similar over-wing exit doors;
 - (F) To reach the emergency exit expeditiously;
 - (G) To maintain balance while removing obstructions;
 - (H) To exit expeditiously;
 - (I) To stabilize an escape slide after deployment; or
 - (J) To assist others in getting off an escape slide;

- ii. Such person is less than fifteen (15) years of age or lacks the capacity to performance (1) or more of the applicable functions listed above without the assistance of an adult companion, parent, or other relative;
 - iii. The person lacks the ability to read and understand instruction required by this section and related to emergency evacuation provided by the national air operator in printed or graphic form or the ability to understand oral crew commands;
 - iv. The person lacks sufficient visual capacity to perform one (1) or more of the above functions without the assistance of visual aids beyond contact lenses or eyeglasses;
 - v. The person lacks sufficient aural capacity to hear and understand instructions shouted by cabin crews, without assistance beyond a hearing aid;
 - vi. The person lacks the ability adequately to impart information orally to other passengers; or
 - vii. The person has a condition or responsibilities, such as caring for small children that might prevent the person from performing one (1) or more of the functions listed above; or a condition that might cause the person harm if he or she performs one (1) or more of the functions listed above.
- (b) Determination as to the stability of each person permitted to occupy an exit seat shall be made by the cabin crew or other persons designated in the operations manual of the national air operator;
- (c) In the event that a new crew determines that a passenger assigned to an exit seat would be unable to perform the emergency exit functions, or if a passenger requests a non-exit seat, the cabin crew shall expeditiously relocate the passenger to a non-exit seat;
- (d) In the event of full booking in the non-exit seats, and if necessary to accommodate a passenger being relocated from an exit seat, the cabin crew shall move a passenger who is willing and able to assume the evacuation functions, to an exit seat;
- (e) Each air operator agent shall, prior to boarding, assign seats consistent with the passenger selection criteria and the emergency exit function, to the maximum extent feasible;

- (f) Each air operator ticket agent shall make available for inspection by the public at all passenger loading gates and ticket counters at each aerodrome where it conducts passenger operations, written procedures established for making determinations in regard to exit row seating;
- (g) A cabin crew shall include in their passenger briefings a request that a passenger identify himself or herself to allow reseating if he or she-
 - i. Cannot meet selection criteria
 - ii. Has a non-discernible condition that will prevent him or her from performing the evacuation functions;
 - iii. May suffer bodily harm as the result of performing one (1) or more of those functions; or
 - iv. Does not wish to perform emergency exit functions.
- (h) Each cabin crew shall include in their passenger briefings a reference to the passenger information cards and the functions to be performed in an emergency exit;
- (i) Each passenger shall comply with instructions given by a crew member or other authorized employee of the national air operator-implementing exit seating restrictions; and
- (j) A pilot-in-command shall not allow taxi or pushback unless at least one (1) required crew member has verified that all exit rows and escape paths are unobstructed and that no exit seat is occupied by a person the crew member determines is likely to be unable to perform the applicable evacuation functions;

Regulation 216

An air operator shall ensure where oxygen is available for the medical use of passengers such oxygen and its use meets the following minimum standards:

- (a) An air operator may allow passenger to use and operate equipment for the storage, generation, or dispensing of oxygen when the following are met:
 - i. The equipment is -
 - (A) Furnished by the national air operator;
 - (B) Approved;
 - (C) Maintained by the certificate holder in accordance with an approved maintenance programme;

- (D)Free or flammable contaminants on all exterior surfaces;
 - (E)Capable of providing a minimum mass flow of oxygen to the user of four liters (4 L) per minute;
 - (F)Structured so that all valves, fittings, and gauges are protected from damage; and
 - (G)Appropriately secured;
- ii. When the oxygen is stored in the form of a liquid, the equipment has been under the certificate holder's approved maintenance programme of national air operator since its purchase new or since the storage container was last purged;
 - iii. When the oxygen is stored in the form of a compressed gas-
 - (A)The equipment has been under the certificate holder's approved maintenance programme since its purchase new or since the last hydrostatic test of the storage cylinder; and
 - (B)The pressure in any oxygen cylinder does not exceed the rated cylinder pressure;
 - iv. Each person using the equipment has a medical need to use it by a written statement to be kept in that person's possession, signed by a licensed physician which specifies the maximum quantity of oxygen needed each hour and the maximum flow rate needed for the pressure altitude corresponding to the pressure cabin of the aeroplane under normal operating conditions. This paragraph does not apply to the carriage of oxygen in an aeroplane in which the only passenger carried are persons who may have a medical need for oxygen during flights, no more than one (1) relative or other interested person for each of those persons, and medical attendants;

- v. When a physician's statement is required by paragraph (a) (iv), the total quantity of oxygen needed each hour, as specified in the number of hours used to compute the amount of aeroplane fuel is required to be by this part;
 - vi. The pilot-in-command- is advised when the equipment is on board, and when it is intended to be used; and
 - vii. The equipment is stowed, and each person using the equipment is seated, so as not to restrict access to or use of any required emergency, or regular exit or the aisle in the passenger compartment;
- (b) A person shall not, nor shall an air operator or its representative allow any person to, smoke within ten feet (10 ft) of oxygen storage and dispensing equipment carried in accordance with paragraph (a);
- (c) An air operator shall not allow any person to connect or disconnect oxygen dispensing equipment, to or from a gaseous oxygen cylinder while any passenger is aboard the aeroplane; and
- (d) The requirements of these paragraph do not apply to the carriage of supplemental or first aid oxygen and related equipment required by the Act.

Regulation 217

An air operator shall ensure that where carry-on baggage is allowed on board an aircraft it meets the following minimum standards;

- (a) An air operator shall not allow the boarding of carry-on baggage on an aeroplane unless each passenger's baggage has been scanned to control the size and amount carried on board in accordance with an approved carry-on baggage programme in its operations specifications. In addition passenger shall not board an aeroplane where his carry-on baggage exceeds the baggage allowance prescribed in the carry-on baggage programme in the operations specifications of the national air operator;
- (b) An air operator shall not allow all passenger entry doors of an aeroplane to be closed in preparation for taxi or pushback unless at least one (1) required crew member has verified that each article of carry-on baggage is stowed;
- (c) An air operator shall not allow an aeroplane to take off or land each article of carry-on baggage is stowed-

- i. In a suitable closet or baggage or cargo stowage compartment placarded for its maximum weight and providing proper restraint for all baggage or cargo stowed within, and in a manner that does not hinder the possible use of any emergency equipment; or
 - ii. Under a passenger seat;
- (d) Carry-on baggage, other than articles of loose clothing, shall not be placed in an overhead rack unless that rack is equipped with approved restraining device or door;
- (e) An air operator shall ensure that a passenger seat under which carry-on baggage is allowed to be stowed shall be fitted with a means to prevent articles of carry-on baggage stowed under it from sliding forward. In addition, each aisle seat shall be fitted with a means to prevent articles of carry-on baggage stowed under it from sliding sideward into the aisle under crash impacts severe enough to induce the ultimate inertia forces specified in the emergency landing condition regulations under which the aeroplane was type certified;
- (f) In addition to the method of stowage in paragraph (c), flexible travel canes carried by blind individuals may be stowed-
- i. Under any series of connected passenger seats in the same row, where the cane does not protrude into an aisle and where the cane is flat on the floor; or
 - ii. Between a non-emergency exit window seat and fuselage, where the cane is flat on the floor; or
 - iii. beneath any two (2) non-emergency exit window seats, where the cane is flat on the floor;
or
 - iv. in accordance with any other method approved by the Authority.

Regulation 218

1. An air operator shall ensure that where cargo is carried in the passenger compartment of an aircraft its carriage meets the following minimum standards for submission to the authority for approval:
 - a) Cargo may be carried anywhere in the passenger compartment where it is carried in an approved cargo bin that meets the following requirements;
 - b) The bin shall withstand the load factors and emergency landing conditions applicable to the passenger seat of the aeroplane in which the bin is installed, multiplied by a factor of 1.15, using the

- combined weight of the bin and the maximum weight of cargo that may be carried in the bin;
- c) The maximum weight of cargo that the bin is approved to carry any necessary to insure proper weight distribution within the bin shall be conspicuously marked on the bin;
 - d) The bin shall not impose any load on the floor or other structure of the aeroplane that exceeds the load limitations of that structure;
 - e) The bin shall be attached to the seat tracks or to the floor structure of the aeroplane, and its attachment shall withstand the load factors and emergency landing conditions applicable to the passenger seat of the aeroplane in which the bin is installed, multiplied by either the factor 1.15 or the seat attachment factor specified for the aeroplane, whichever is greater, using the combined weight of the bin and the maximum weight of cargo that may be carried in the bin;
 - f) The bin shall not be installed in a position that restricts access to or use of any required emergency exit, or of the aisle in the passenger compartment;
 - g) The bin shall be fully enclosed and made of material that is at least flame resistant;
 - h) Suitable safeguards shall be provided within the bin to prevent the cargo from shifting under emergency landing conditions; and
 - i) The bin shall not be installed in a position that obscures and passenger's view of the "seat belt" sign, "no smoking" sign, or any required exit sign, unless an auxiliary sign or other approved means for proper notification of the passenger is provided.
2. Cargo, including carry-on baggage, may be carried anywhere in the passenger compartment of a small aeroplane if it is carried in an approved cargo rack, bin, or compartment installed in or on the aeroplane, if it is secured by an approved means, or if it is carried in accordance with each of the following:
- (a) For cargo, it is properly secured by a safety belt or other tie-down having enough strength to eliminate the possibility of shifting under all normally anticipated flight and ground conditions, or for carry-on baggage, it is restrained so as to prevent its movement during air turbulence;
 - (b) It is packaged or covered to avoid possible injury to occupants;
 - (c) It does not impose any load on seats or in the floor structure that exceeds the load limitation for those components;
 - (d) It is not located in a position that obstructs the access to, or use of, any required emergency or regular exit, or the use of the aisle between the crew and the passenger compartment, or is located in a position that obscures any passenger's view of the "seat belt" sign, "no smoking" sign or placard, or any required exit sign, unless an

- auxiliary sign or other approved means for proper notification of the passengers is approved;
- (e) It is not carried directly above seated occupants.
 - (f) It is stowed in compliance with these restrictions during take-off and landing.
 - (g) For cargo-only operations, if the cargo is loaded so that at least one (1) emergency or regular exit is available to provide all occupants of the aeroplane a means of unobstructed exits from the aeroplane if an emergency occurs.
3. An air operator shall not carry cargo, including carry-on baggage, in or on any aircraft unless-
- (a) It is carried in an approved cargo rack, bin, or compartment installed in or on the aircraft;
 - (b) It is secured by an approved means; or
 - (c) It is carried in accordance with each of the following:
 - i. For cargo, it is properly secured by a safety belt or other tie-down having enough strength to eliminate the possibility of shifting under all normally anticipated flight and ground conditions, or for carry-on baggage, it is restrained so as to prevent its movement during turbulence;
 - ii. It is packaged or covered to avoid possible injury to occupants;
 - iii. It does not impose any load on seats or on the floor structure that exceeds the load limitation for those components;
 - iv. It is not located in a position that obstructs the access to, or use of, any required emergency or regular exit, or the use of the aisle between the crew and the passenger compartment, or located in a position that obscures any passenger's view of the "seat belt" sign, "no smoking" sign, or any required exit sign, unless an auxiliary sign or other approved means for proper notification of the passengers is provided;
 - v. It is not carried directly above seated occupants;
 - vi. It is stowed in compliance with this standard for take-off and landing.
 - vii. For cargo only operations, paragraph (3)(iv) does not apply where cargo is loaded so that at least one (1) emergency or regular exit is available to provide all occupants of the aircraft a means of

unobstructed exit from the aircraft where an emergency occurs.

4. Each passenger seat under which baggage is stowed shall be fitted with a means to prevent articles of baggage stowed under it from sliding under crash impacts severe enough to include the ultimate inertia forces specified in the emergency landing condition regulations under which the aircraft was type certified.
5. When cargo is carried in cargo compartments that are designed to require the physical entry of a crew member to extinguisher any fire that may occur during flight, the cargo shall be loaded so as to allow a crew member to effectively reach all parts of the compartment with the contents of a hand fire extinguisher.

Regulation 220

An air operator shall ensure that passengers briefings for extended over-water operations under regulation 220 meets the following minimum standards:

- (a) An air operator operating an aeroplane in extended over-water operations shall ensure that all passengers are orally briefed by the appropriate crew member on the location and operation of life vests, life rafts, and other flotation means, including a demonstration of the method of donning and inflating a life vest;
- (b) An air operator shall describe in his manual the procedure to be followed in the briefing required by paragraph (a) of this standard;
- (c) Where the aeroplane proceeds directly over water after take-off, the briefing required by paragraph (b) of this standard shall be done before take-off; and
- (d) Where the aeroplane does not proceed directly over water after take-off, no part of the briefing required by paragraph (a) of this standard has to be given before take-off, but the entire briefing shall be given before reaching the over-water part of the flight.

Regulation 221

An air operator shall ensure that in using passenger seat belt signs and information signs under regulation 221, the following minimum standards are met:

- (a) Passenger information signs shall meet the requirements of Civil Aviation Instruments and Equipment Regulations. The signs shall be constructed so that the crew members can turn them in and off;
- (b) A person shall not operate an aeroplane on a flight on which smoking is prohibited unless either the "No Smoking" passenger information signs are illuminated during the entire flight, or one or more "No Smoking" placards are posted during the entire flight segment, If both the illuminated signs and placards are used, the signs shall remain illuminated during the entire flight segment.

- (c) There shall be at least one (1) legible sign or placard that reads “Fasten Seat Belt While Seated” which is visible from each passenger seat; and
- (d) There shall be installed in each lavatory a sign or placard that prohibits by law any tampering with the smoke detectors installed in the lavatory;

Regulation 224

An air operator shall ensure that the security of items of mass in the passenger compartment under regulation 224, meets the following minimum standards:

An air operator shall provide and use means to prevent each item of galley equipment and each serving cart, when not in use, and each item of crew baggage, which is carried in a passenger or crew compartment from becoming a hazard by shifting under the appropriate load factors corresponding to the emergency landing conditions under which the aeroplane was type certificated.

Regulation 230

An aeroplane shall not be operated under the Instrument Flight Rules or at night by a single pilot-in-commercial air transport operation unless the following standards are met:

- (a) The aeroplane flight manual does not require a flight crew of more than one (1);
- (b) The aeroplane is propeller driven;
- (c) The maximum approved passenger seating configuration is not more than nine (9);
- (d) The maximum certified take-off mass does not exceed five thousand, seven hundred kilograms (5,700 kg);
- (e) The aeroplane is equipped with-
 - i. A serviceable autopilot that has at least altitude hold and heading select modes;
 - ii. A headset with boom microphone or equivalent; and
 - iii. Means of displaying charts that enables them to be readable in all ambient light conditions;
- (f) The pilot-in-command has satisfied requirements of experience, training, checking and recency as follows;
 - i. For operations under the Instrument Flight Rules or at night, has accumulated at least 50 hours flight time on the class of aeroplane, of which at least ten (10) hours shall be as pilot-in-command;
 - ii. For operations under the Instrument Flight Rules-
 - (A) Have accumulated at least twenty-five (25) hours flight time under the

Instrument Flight Rules on the class of aeroplane, which may form part of the fifty (50) hours flight time in paragraph (i) above; and

(B) Have acquired recent experience as a pilot engaged in single pilot operations under the Instrument Flight Rules of at least five (5) Instrument Flight Rules flights, including three (3) instruments approaches carried out during the preceding ninety (90) days on the class of aeroplane in the single pilot role; or an Instrument Flight Rules instrument approach check carried out on such an aeroplane during the preceding ninety (90) days;

iii. For operations at night-

(A) Have accumulated at least fifteen (15) hours flight time at night, which may form part of the fifty (50) hours flight time in paragraph (i);

(B) Have made at least three (3) take-offs and landings at night in the class of aeroplane in the single pilot role in the preceding ninety (90) days;

iv. Have successfully completed training programmes that include, in addition to the requirements of regulation 226-

(A) Passenger briefing with respect to emergency evacuation;

(B) Autopilot management; and

(C) The use of simplified in-flight documentation; and

(g) The initial and recurrent training required by regulations 239, 240, 241 and 242 and proficiency checks required by regulation 246 are performed by the pilot-in-command in the single pilot role in the class of aeroplane in an environment representative of the operation.

Regulation 266(5)

An air operator shall ensure that the line check under regulation 266(5), meets the following minimum standards:

(a) Line checks shall establish the ability to perform satisfactory, a complete line operation including pre-flights and post flights

procedures and use of the equipment provided., as specified in the Operations Manual;

- (b) The flight crew shall be assessed on their crew resource management skills in accordance with a methodology acceptable to the Authority and published in the Operations Manual. The purpose of such assessment is to-
 - i. Provide feedback to the crew collectively and individually and serve to identify re-training;
 - ii. Be used to improve the crew resource management training system;
- (c) A pilot shall, where required to perform such functions, be checked on either pilot flying or pilot non-flying duties or both;
- (d) Line checks shall be completed in an aircraft;
- (e) Line check shall be conducted by pilots in command nominated by the operator and acceptable to the Authority. The person conducting the line check, who is described in regulations 226 (1) (g) (ii), shall be trained in crew resource management concepts and the assessment of crew management skills shall occupy an observer's seat where installed; and
- (f) In the case where additional operating flight crew are carried for crew augmentation under regulation 288, the person conducting the line check may fulfil the function of a cruise relief pilot and shall not occupy either pilot's seat during take-off, departure, initial cruise, descent, approach and landing. His crew resource management assessment shall be based solely on observations made during the initial briefing, cockpit briefing and those phases where he occupies the observer's seat.

Regulation 276

An air operation shall ensure that where simulator experience is substituted under regulation 276, it meets the following minimum standards:

- (a) Each aeroplane simulator and other training device that is used in a training course shall-
 - i. Be specifically approved for-
 - (A)The certificate holder;
 - (B)The type aeroplane and, if applicable, the particular variation within type, for which the training or check is being conducted; and
 - (C)The particular maneuver, procedure, or crew member function involved.

- ii. Maintain the performance, functional, and other characteristics that are required for approval;
 - iii. Be modified to confirm with any modification to the aeroplane being simulated that results in changes to performance, functional, or other characteristics required for approval;
 - iv. Be given a daily functional pre-flight check before being used;
 - v. Have a daily discrepancy log kept with each discrepancy entered in that log by the appropriate inspector or check airman at the end of each training or check flight.
- (b) A particular aeroplane simulator or other training device may be approved for use by more than one (1) certificate holder;
- (c) An aeroplane simulator may be used instead of the aeroplane to satisfy the in-flight requirements of this part, if the simulator-
- i. Is approved under this section and meets the appropriate simulator requirements; and
 - ii. Is used as part of an approved programme that meets the training requirements; and
- (d) An aeroplane simulator approved under this section shall be used instead of the aeroplane to satisfy the pilot flight training requirements prescribed in the certificate holder's approved low-altitude wind shear flight training programme.

Training Courses Using Aeroplane Simulators and Other Training Devices.

1. Training courses utilizing aeroplane simulators and other training devices may be included in the certificate holder's approved training programme for use as provided in this section.
2. A course of training in an aeroplane simulator may be included for if that course-
 - (a) Provides at least four (4) hours of training at the pilot controls of an aeroplane simulator as well as a proper briefing before and after the training;
 - (b) Provides training in at least the procedures and maneuvers set forth in Act or Regulations made thereunder; or
 - (c) Provides line-oriented training that-
 - i. Utilizes a company flight crew;
 - ii. Includes at least the maneuvers and procedures (abnormal and emergency) that may be expected in line operations;

- iii. Is representative of the flight segment appropriate to the operations being conducted by the certificate holder; and

(d) Is given by an instructor who meets the applicable requirements.

Note: The satisfactory completion of the course of training shall be certified by either the Authority or a qualified check airman.

3. The programmed hours of flight training set forth in this subpart do not apply if the training programme for the aeroplane type includes-
 - (a) A course of pilot training in an aeroplane simulator; or
 - (b) A course of flight engineer training in an aeroplane simulator or other training device.
4. Each certificate holder required to comply shall use an approved simulator for each aeroplane type in each of its pilot training courses that provided training in at least the procedure and maneuvers set forth in the certificate holder's approved low-altitude wind-shear fighting training programme. The approved low-altitude wind-shear flight training, if applicable, shall be included in each of the pilot flight training courses.

Regulation 303-304

An air operator shall ensure that where a flight is released, the notices to airmen under regulation 303 and 304, meets the following minimum standards:

- (a) Before beginning a flight, the flight operation officers shall provide the pilot-in-command with all available weather reports and forecasts of weather phenomena that may affect the safety of flight, including adverse weather phenomena, such as clear air turbulence, thunderstorms, low altitude wind shear, for each route to be flown and each airport to be used; and
- (b) During a flight, the flight operations officer shall provide the pilot-in-command any additional available information of meteorological conditions (including adverse weather phenomena, such as clear air turbulence, thunderstorms, and low altitude wind shear), and irregularities of facilities and services that may affect the safety of the flight.

Regulation 305

An air pilot operator shall ensure that where a flight is released in icing conditions under regulation 305 its release meets the minimum standard as follows:

A pilot shall not take off an aircraft that has frost, ice, or snow adhering to any rotor blade, propeller, windshield, wings, stabilizing or control surface, to a power plant installation, or to an airspeed, altimeter, rate of climb, or flight attitude instrument system.