

SECTION:	AIRWORTHINESS FORMS	GTF-COR-004
TITLE:	CAR OPS-1 SUBPARTS K AND L COMPLIANCE CHECK LIST	

GENERAL

Company name:	
Physical address:	
Telephone:	
Email address:	
AOC #:	
Airport:	
Aircraft Registration:	
Aircraft Serial Number:	
Aircraft Type:	
CAR OPS-1 Subparts K & L issue date:	



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OPERATOR CERTIFICATION STATEMENT

The aircraft A6- has been evaluated to meet the requirements of CAR-OPS 1 Subparts K & L as per the recommendations of the type certificate holder. This checklist needs to comply with latest GCAA regulations, in case of introduction new or amended regulations / requirement the checklist needs to be re-evaluated. The data contained in this checklist will be reviewed at least annually for validity.

This checklist contains the Instruments and Equipment including Communication and Navigation equipment which form basis for the aircraft to operate under CAR OPS-1. This checklist reflects actual status of the above mentioned aircraft for its safe operation.

It is understood that the GCAA reserves the right to suspend, limit or revoke the approval of the CAR OPS 1 Subparts K & L checklist if it has evidence that the requirements are not complied with.

The CAR OPS 1 Subparts K & L compliance list has been analysed and found complaint with the latest revision requirements of CAR OPS 1.630 through CAR OPS 1.872.

No revision shall be inserted in the CAR OPS 1 Subparts K & L checklist unless prior approval is granted by the GCAA.

Name:

Signed:

Owner/Accountable Manager

Date:



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LIST OF EFFECTIVE PAGES

The list below identifies the Subparts K & L list and shows the number of pages as well as the date and issue status of each Page.

Revisions carried out on any page/s will result in the complete Subparts K & L list being raised to the next Issue Number. A vertical line that appears in the right hand column of the page will indicate the changes that have occurred and any text changes will appear in *italicized text* with a revision bar in the RH column.

A new list of effective pages will be issued with each revision in order to provide a means for the manual holder to check that their manual is at the correct issue status.

Document	Pages	Dated	Issue





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LIST OF EFFECTIVE PAGES

(RESERVED)



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RECORD OF REVISIONS

The list below indicates the issue number of the Aircraft Maintenance program and shows the date and briefly describes the amendment carried out.

Issue No.	Issue Date	Amendment



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LIST OF ABBREVIATIONS TERMS AND DEFINITIONS

All significant terms and abbreviations used within this program are defined in accordance with the Type Certificate holder's definitions, current CAR and GCAA definitions.

The check list is structured in Five Columns.

CAR-OPS 1 provision 5 0/5 N/A Comment	CAR-OPS 1 provision	S	U/S	N/A	Comment
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First Column (CAR-OPS 1 provision) - List of requirements to be complied with. Second Column (S) - "S" stands for confirmation of compliance with the requirement. Third Column (U/S) - "U/S" stands for confirmation of non-compliance with the requirement. Fourth Column (N/A) - "N/A" stands for the requirement is not applicable for the aircraft Fifth Column (Comments) - To record reference of the document when the requirement is complied with or to provide justification when the requirement is "Not Complied" with or "Not Applicable".

The applicant shall confirm the compliance status for each requirement as S or U/S or N/A in the respective column 2nd or 3rd or 4th, as applicable, and provide corresponding comments in 5th column.



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CAR-OPS 1 provision	S	U/S	N/A	Comment
SUBPART K INSTRUMENTS AND EQUIPMENT				
CAR-OPS 1.630 General introduction				
(a) An operator shall ensure that a flight does not commence unless the instruments and equipment required under this Subpart are:				
(1) Installed as such that the failure of any single unit required for either communications or navigation purposes or both will not result in the failure of another unit required for communications or navigation purposes.				
 (2) Approved, except as specified in sub-paragraph (c), and installed in accordance with the requirements applicable to them, including the minimum performance standard and the operational and airworthiness requirements; and 				
(3) In operable condition for the kind of operation being conducted except as provided in the MEL (CAR-OPS 1.030 refers).				
(4) Placards, listings, instrument markings, or combinations thereof, containing those operating limitations prescribed by the certificating authority of the State of Registry acceptable to the GCAA for visual presentation, are displayed in the aeroplane.				
(b) Instruments and equipment minimum performance standards are those prescribed in the applicable Technical Standard Orders (TSO) unless different performance standards are prescribed in the operational or airworthiness codes. Instruments and equipment complying with design and performance specifications other than TSO on the date of CAR–OPS implementation may remain in service, or be installed, unless additional requirements are prescribed in this Subpart. Instruments and equipment that have already been approved do not need to comply with a revised TSO or a revised specification, other than TSO, unless a				
retroactive requirement is prescribed.				



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CAR-OPS 1 provision	S	U/S	N/A	Comment
SUBPART K INSTRUMENTS AND EQUIPMENT				
(c) The following items shall not be required to have an equipment approval:				
(1) Fuses referred to in CAR-OPS 1.635;				
(2) Electric torches referred to in CAR-OPS 1.640(a)(4);				
(3) An accurate time piece referred to in CAR-OPS1.650(b) & 1.652(b);				
(4) Chart holder referred to in CAR–OPS 1.652 (n).				
(5) First-aid kits referred to in CAR-OPS 1.745;				
(6) Emergency medical kit referred to in CAR-OPS 1.755;				
(7) Megaphones referred to in CAR-OPS 1.810;				
(8) Survival and pyrotechnic signalling equipment referred to in CAR-OPS 1.835(a) and (c); and				
(9) Sea anchors and equipment for mooring, anchoring or manoeuvring seaplanes and amphibians on water referred to in CAR-OPS 1.840.				
(10) Child restraint devices referred to in CAR-OPS 1.730(a)(3).				
(d) If equipment is to be used by one flight crew member at his station during flight, it must be readily operable from his station. When a single item				
of equipment is required to be operated by more than one flight crew member it must be installed so				
that the equipment is readily operable from any				
station at which the equipment is required to be operated.				



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SUBPART K INSTRUMENTS AND EQUIPMENT				
(e) Those instruments that are used by any one flight crew member shall be so arranged as to permit the flight crew member to see the indications readily from his station, with the minimum practicable deviation from the position and line of vision which he normally assumes when looking forward along the flight path. Whenever a single instrument is required in an aeroplane operated by more than 1 flight crew member it must be installed so that the instrument is visible from each applicable flight crew				
 station. (f) An operator shall not employ electronic navigation data products that have been processed for application in the air and on the ground unless; (1) Approved, ensuring that the procedures including process applied and the products delivered have met acceptable standards of integrity; and (2) That the products are compatible with the intended function of the equipment that will use them. (3) Ensure continues monitoring for both process and products. 				
 (g) An operator shall implement procedures that ensure the timely distribution and insertion of current and unaltered electronic navigation data to all aircraft that require it. (h) An operator shall not operate a pressurized 				
aeroplane for which the individual certificate of airworthiness was first issued on or after 1 January 1990 intended to be operated at flight altitudes at which the atmospheric pressure is less than 376 hPa unless, it is equipped with a device to provide positive warning to the flight crew of any dangerous loss of pressurization.				
CAR-OPS 1.635 Circuit protection devices An operator shall not operate an aeroplane in which fuses are used unless there are spare fuses available for use in flight equal to at least 10% of the number of fuses of each rating or three of each rating whichever is the greater.				



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CAR-OPS 1 provision	S	U/S	N/A	Comment
SUBPART K INSTRUMENTS AND EQUIPMENT				
CAR-OPS 1.640 Aeroplane operating lights				
An operator shall not operate an aeroplane unless it is equipped with:				
(a) For flight by day:				
(1) Anti-collision light system;				
(2) Lighting supplied from the aeroplane's electrical system to provide adequate illumination for all instruments and equipment essential to the safe operation of the aeroplane;				
(3) Lighting supplied from the aeroplane's electrical system to provide illumination in all passenger compartments; and				
(4) An electric torch for each required crew member readily accessible to crew members when seated at their designated station.				
(b) For flight by night, in addition to equipment specified in paragraph (a) above:				
(1) Navigation/position lights; and				
(2) Two landing lights or a single light having two separately energised filaments; and				
(3) Lights to conform with the International regulations for preventing collisions at sea if the aeroplane is a Seaplane or an Amphibian.				
CAR-OPS 1.645 Windshield wipers				
An operator shall not operate an aeroplane with a				
maximum certificated take-off mass of more than				
5700 kg unless it is equipped at each pilot station				
with a windshield wiper or equivalent means to maintain a clear portion of the windshield during				
precipitation.				



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CAR-OPS 1 provision	S	U/S	N/A	Comment
SUBPART K INSTRUMENTS AND EQUIPMENT				
CAR-OPS 1.650 Day VFR operations - Flight and				
navigational instruments and associated equipment				
An operator shall not operate an aeroplane by day in				
accordance with Visual Flight Rules (VFR) unless it is				
equipped with the flight and navigational				
instruments and associated equipment and, where applicable, under the conditions stated in the				
following sub-paragraphs:				
(a) A magnetic compass;				
(b) An accurate timepiece showing the time in hours,				
minutes, and seconds;				
(c) A sensitive pressure altimeter calibrated in feet				
with a sub-scale setting, calibrated in				
hectopascals/millibars, adjustable for any barometric				
pressure likely to be set during flight;				
(d) An airspeed indicator calibrated in knots;				
(e) A vertical speed indicator;				
(f) A turn and slip indicator, or a turn co-ordinator				
incorporating a slip indicator;				
(g) An attitude indicator;				
(h) A stabilised direction indicator; and				
 (i) A means of indicating in the flight crew compartment the outside air temperature calibrated 				
in degrees Celsius (See AMC OPS 1.650(i) & 1.652(i)).				
(j) For flights which do not exceed 60 minutes				
duration, which take off and land at the same				
aerodrome, and which remain within 50 nm of that				
aerodrome, the instruments prescribed in sub-				
paragraphs (f), (g) and (h) above, and sub-paragraphs				
(k)(4), $(k)(5)$ and $(k)(6)$ below, may all be replaced by				
either a turn and slip indicator, or a turn co-				
ordinator incorporating a slip indicator, or both an				
attitude indicator and a slip indicator.				



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CAR-OPS 1 provision	S	U/S	N/A	Comment
SUBPART K INSTRUMENTS AND EQUIPMENT			-	
(k) Whenever two pilots are required the second				
pilot's station shall have separate instruments as				
follows:				
(1) A sensitive pressure altimeter calibrated in feet				
with a sub-scale setting calibrated in				
hectopascals/millibars, adjustable for any barometric				
pressure likely to be set during flight;				
(2) An airspeed indicator calibrated in knots;				
(3) A vertical speed indicator;				
(4) A turn and slip indicator, or a turn co-ordinator				
incorporating a slip indicator;				
(5) An attitude indicator; and				
(6) A stabilised direction indicator.				
(I) Each airspeed indicating system must be equipped				
with a heated pitot tube or equivalent means for				
preventing malfunction due to either condensation				
or icing for: Aeroplanes with a maximum certificated				
take-off mass in excess of 5700 kg or having a				
maximum approved passenger seating configuration				
of more than 9;				
(m) Whenever duplicate instruments are required, the requirement embraces separate displays for				
each pilot and separate selectors or other associated				
equipment where appropriate.				
(n) All aeroplanes must be equipped with means for				
indicating when power is not adequately supplied to				
the required flight instruments; and				
(o) All aeroplanes with compressibility limitations				
not otherwise indicated by the required airspeed				
indicators shall be equipped with a Mach number				
indicator at each pilot's station.				
(p) An operator shall not conduct Day VFR				
operations unless the aeroplane is equipped with a				
headset with boom microphone or equivalent for				
each flight crew member on flight deck duty (See				
IEM OPS 1.650(p)/1.652(s)).				



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CAR-OPS 1 provision	S	U/S	N/A	Comment
SUBPART K INSTRUMENTS AND EQUIPMENT				
CAR-OPS 1.652 IFR or night operations – Flight and				
navigational instruments and associated equipment				
An operator shall not operate an aeroplane in				
accordance with Instrument Flight Rules (IFR) or by				
night in accordance with Visual Flight Rules (VFR)				
unless it is equipped with the flight and navigational				
instruments and associated equipment and, where				
applicable, under the conditions stated in the				
following sub-paragraphs:				
(a) A magnetic compass;				
(b) An accurate time-piece showing the time in				
hours, minutes and seconds;				
(c) Two sensitive pressure altimeters calibrated in				
feet with sub-scale settings, calibrated in				
hectopascals/millibars, adjustable for any barometric				
pressure likely to be set during flight. These				
altimeters must have counter drum-pointer or				
equivalent presentation.				
(d) An airspeed indicating system with heated pitot				
tube or equivalent means for preventing				
malfunctioning due to either condensation or icing				
including a warning indication of pitot heater failure.				
The pitot heater failure warning indication				
requirement does not apply to those aeroplanes				
with a maximum approved passenger seating				
configuration of 9 or less or a maximum certificated				
take-off mass of 5700 kg or less and issued with an				
individual Certificate of Airworthiness prior to 1 April				
1998 (See AMC OPS 1.652(d) & (k)(2));				
(e) A vertical speed indicator;				
(f) A turn and slip indicator;				
(g) An attitude indicator;				
(h) A stabilised direction indicator;				
(i) A means of indicating in the flight crew				
compartment the outside air temperature calibrated				
in degrees Celsius (See AMC OPS 1.650 (i) &				
1.652(i)); and				
(j) Two independent static pressure systems, except				
that for propeller driven aeroplanes with maximum				
certificated take-off mass of 5700 kg or less, one				
static pressure system and one alternate source of				
static pressure is allowed.				



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CAR-OPS 1 provision	S	U/S	N/A	Comment
SUBPART K INSTRUMENTS AND EQUIPMENT		-	-	
(k) Whenever two pilots are required the second pilot's station shall have separate instruments as follows:				
 (1) A sensitive pressure altimeter calibrated in feet with a sub-scale setting, calibrated in hectopascals/millibars, adjustable for any barometric pressure likely to be set during flight and which may be one of the 2 altimeters required by sub-paragraph (c) above. Not later than 1 April 2002 these altimeters must have counter drum-pointer or equivalent presentation. 				
(2) An airspeed indicating system with heated pitot tube or equivalent means for preventing malfunctioning due to either condensation or icing including a warning indication of pitot heater failure. The pitot heater failure warning indication requirement does not apply to those aeroplanes with a maximum approved passenger seating configuration of 9 or less or a maximum certificated take-off mass of 5700 kg or less and issued with an individual Certificate of Airworthiness prior to 1 April 1998 (See AMC OPS 1.652(d) & (k)(2));				
(3) A vertical speed indicator;				
(4) A turn and slip indicator;				
(5) An attitude indicator; and				
(6) A stabilised direction indicator.				
(I) Those aeroplanes with a maximum certificated take-off mass in excess of 5700 kg or having a maximum approved passenger seating configuration of more than 9 seats must be equipped with an additional, standby, attitude indicator (artificial horizon), capable of being used from either pilot's station, that:				
(1) Is powered continuously during normal operation and, after a total failure of the normal electrical generating system is powered from a source independent of the normal electrical generating system;				



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CAR-OPS 1 provision	S	U/S	N/A	Comment
SUBPART K INSTRUMENTS AND EQUIPMENT				
(2) Provides reliable operation for a minimum of 30 minutes after total failure of the normal electrical generating system, taking into account other loads on the emergency power supply and operational procedures;				
(3) Operates independently of any other attitude indicating system;				
(4) Is operative automatically after total failure of the normal electrical generating system; and				
(5) Is appropriately illuminated during all phases of operation, except for aeroplanes with a maximum certificated take-off mass of 5700 kg or less, equipped with a standby attitude indicator in the left-hand instrument panel.				
 (m) In complying with sub-paragraph (I) above, it must be clearly evident to the flight crew when the standby attitude indicator, required by that sub- paragraph, is being operated by emergency power. Where the standby attitude indicator has its own dedicated power supply there shall be an associated indication, either on the instrument or on the instrument panel, when this supply is in use. 				
(n) A chart holder in an easily readable position which can be illuminated for night operations.				
(o) If the standby attitude instrument system is certificated according to CS 25 or equivalent, the turn and slip indicators may be replaced by slip indicators.				
(p) Whenever duplicate instruments are required, the requirement embraces separate displays for each pilot and separate selectors or other associated equipment where appropriate;				
(q) All aeroplanes must be equipped with means for indicating when power is not adequately supplied to the required flight instruments; and				
(r) All aeroplanes with compressibility limitations not otherwise indicated by the required airspeed indicators shall be equipped with a Mach number indicator at each pilot's station.				



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CAR-OPS 1 provision	S	U/S	N/A	Comment
SUBPART K INSTRUMENTS AND EQUIPMENT				
(s) An operator shall not conduct IFR or night				
operations unless the aeroplane is equipped with a				
headset with boom microphone or equivalent for				
each flight crew member on flight deck duty and a				
transmit button on the control wheel for each				
required pilot. (See IEM OPS 1.650(p)/1.652(s).)				
CAR-OPS 1.653 GNSS				
An operator shall not operate an aeroplane under				
IFR unless it is equipped with GNSS equipment				
having the capabilities set out in AMC OPS 1.653				
GNSS.				
CAR-OPS 1.655 Additional equipment for single pilot				
operation under IFR				
An operator shall not conduct single pilot IFR				
operations unless the aeroplane is equipped with an				
autopilot with at least altitude hold and heading				
mode.				
CAR-OPS 1.660 Altitude alerting system				
(a) An operator shall not operate a turbine propeller				
powered aeroplane with a maximum certificated				
take-off mass in excess of 5700 kg or having a				
maximum approved passenger seating configuration				
of more than 9 seats or a turbojet powered				
aeroplane unless it is equipped with an altitude				
alerting system capable of:				
Alerting the flight crew upon approaching a				
preselected altitude; and				
Alerting the flight crew by at least an aural signal,				
when deviating from a preselected altitude,				
except for aeroplanes with a maximum certificated				
take-off mass of 5700 kg or less having a maximum				
approved passenger seating configuration of more				
than 9 and first issued with an individual certificate				
of airworthiness before 1 April 1972.				
CAR-OPS 1.665 Ground proximity warning system				
and terrain awareness warning system				
(a) An operator shall not operate a turbine powered				
aeroplane having a maximum certificated take-off				
mass in excess of 5700 kg or a maximum approved				
passenger seating configuration of more than 9				
unless it is equipped with a ground proximity				
warning system.				



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CAR-OPS 1 provision	S	U/S	N/A	Comment
SUBPART K INSTRUMENTS AND EQUIPMENT				
(b) The ground proximity warning system must				
automatically provide, by means of aural signals,				
which may be supplemented by visual signals, timely				
and distinctive warning to the flight crew of :				
(1) excessive sink rate,				
(2) unsafe terrain clearance,				
(3) excessive altitude loss after take-off or go-				
around,				
(4) unsafe terrain clearance while not in landing				
configuration;				
(i) gear not locked down;				
(ii) flaps not in a landing position; and				
(5) excessive descent below the instrument glide				
path.				
(c) An operator shall not operate a turbine powered				
aeroplane having a maximum certificated take-off				
mass in excess of 15000 kg or having a maximum				
approved passenger seating configuration of more				
than 30				
(d) unless it is equipped with a ground proximity				
warning system that includes a predictive terrain				
hazard warning function (Terrain Awareness and				
Warning System – TAWS)				
(e) An operator shall not operate a turbine powered				
aeroplane having a maximum certificated take-off				
mass in excess of 5700 kg but not more than 15000				
kg or a maximum approved passenger seating				
configuration of more than 9 but not more than 30				
unless it is equipped with a ground proximity				
warning system that includes a predictive terrain				
hazard warning function (Terrain Awareness and				
Warning System – TAWS).				
(f) The terrain awareness and warning system must				
automatically provide the flight crew, by means of				
visual and aural signals and a Terrain Awareness				
Display, with sufficient alerting time to prevent				
controlled flight into terrain events, and provided a				
forward looking capability and terrain clearance				
floor.				



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SUBPART K INSTRUMENTS AND EQUIPMENT
 certificated take-off mass of 5700 kg or less and authorized to carry more than five but not more than nine passengers should be equipped with a ground proximity warning system which has: (1) Warning on excessive descent rate; (2) Warning on excessive altitude loss after take-off or go-around and (3) Warning of unsafe terrain clearance and
authorized to carry more than five but not more than nine passengers should be equipped with a ground proximity warning system which has: (1) Warning on excessive descent rate; (2) Warning on excessive altitude loss after take-off or go-around and (3) Warning of unsafe terrain clearance and
than nine passengers should be equipped with a ground proximity warning system which has: (1) Warning on excessive descent rate; (2) Warning on excessive altitude loss after take-off or go-around and (3) Warning of unsafe terrain clearance and
ground proximity warning system which has: (1) Warning on excessive descent rate; (2) Warning on excessive altitude loss after take-off or go-around and (3) Warning of unsafe terrain clearance and
 (1) Warning on excessive descent rate; (2) Warning on excessive altitude loss after take-off or go-around and (3) Warning of unsafe terrain clearance and
(2) Warning on excessive altitude loss after take-off or go-around and(3) Warning of unsafe terrain clearance and
or go-around and (3) Warning of unsafe terrain clearance and
(3) Warning of unsafe terrain clearance and
(4) Forward-looking terrain avoidance function
CAR-OPS 1.668 Airborne Collision Avoidance System
An operator shall not operate a turbine powered
aeroplane:
Having a MCTOM (maximum certificated take-off
mass) in excess of 5700 kg or a MAPSC (maximum
approved passenger seating configuration) of more
than 19 unless it is equipped with an airborne
collision avoidance system (ACAS) II Change 7.0.
From 31 January 2015 such aeroplanes shall be
equipped with ACAS II, Change 7.1.
Manufactured after 31 December 2012 and having a
MCTOM in excess of 5700 kg or a MAPSC of more
than 19 unless it is equipped with ACAS II, Change
7.1.
CAR-OPS 1.670 Airborne weather radar equipment
and Winshear warning system
(a) An operator shall not operate:
(1) A pressurised aeroplane; or
(2) An unpressurised aeroplane which has a
maximum certificated take-off mass of more than
5700 kg; or
(3) An unpressurised aeroplane having a maximum
approved passenger seating configuration of more
than 9 seats after 1 April 1999, unless it is equipped
with airborne weather radar equipment whenever
such an aeroplane is being operated at night or in



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SUBPART K INSTRUMENTS AND EQUIPMENT				
instrument meteorological conditions in areas where				
thunderstorms or other potentially hazardous				
weather conditions (wind shear), regarded as				
detectable with airborne weather radar, may be				
expected to exist along the route.				
(b) For propeller driven pressurised aeroplanes				
having a maximum certificated take-off mass not				
exceeding 5700 kg with a maximum approved				
passenger seating configuration not exceeding 9				
seats the airborne weather radar equipment may be				
replaced by other equipment capable of detecting				
thunderstorms and other potentially hazardous				
weather conditions (wind shear), regarded as				
detectable with airborne weather radar equipment,				
subject to approval by the Authority.				
(c) All turbo-jet aeroplanes of a maximum				
certificated take-off mass in excess of 5700 kg or				
authorized to carry more than nine passengers				
should be equipped with a forward-looking wind				
shear warning system capable of;				
(1) Providing the pilot with a timely aural and visual				
warning of wind shear ahead of the aircraft, and the				
information required to permit the pilot to safely				
commence and continue a missed approach or go-				
around or to execute an escape manoeuvre if				
necessary.				
(2) Providing an indication to the pilot when the				
limits specified for the certification of automatic				
landing equipment are being approached, when such				
equipment is in use.				
CAR-OPS 1.675 Equipment for operations in icing				
conditions				
(a) An operator shall not operate an aeroplane in				
expected or actual icing conditions unless it is				
certificated and equipped to operate in icing				
conditions.				



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SUBPART K INSTRUMENTS AND EQUIPMENT(b) An operator shall not operate an aeroplane in expected or actual icing conditions at night unless it is equipped with a means to illuminate or detect the formation of ice. Any illumination that is used must be of a type that will not cause glare or reflection that would handicap crew members in the performance of their duties.CAR-OPS 1.680 Cosmic radiation detection equipmentAn operator shall not operate an aeroplane above 15000 m (49000 ft) unless:(a) It is equipped with an instrument to measure and indicate continuously the dose rate of total cosmic radiation being received (i.e. the total of ionizing and
expected or actual icing conditions at night unless it is equipped with a means to illuminate or detect the formation of ice. Any illumination that is used must be of a type that will not cause glare or reflection that would handicap crew members in the performance of their duties.CAR-OPS 1.680 Cosmic radiation detection equipmentAn operator shall not operate an aeroplane above 15000 m (49000 ft) unless:(a) It is equipped with an instrument to measure and indicate continuously the dose rate of total cosmic radiation being received (i.e. the total of ionizing and
expected or actual icing conditions at night unless it is equipped with a means to illuminate or detect the formation of ice. Any illumination that is used must be of a type that will not cause glare or reflection that would handicap crew members in the performance of their duties.CAR-OPS 1.680 Cosmic radiation detection equipmentAn operator shall not operate an aeroplane above 15000 m (49000 ft) unless:(a) It is equipped with an instrument to measure and indicate continuously the dose rate of total cosmic radiation being received (i.e. the total of ionizing and
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formation of ice. Any illumination that is used must be of a type that will not cause glare or reflection that would handicap crew members in the performance of their duties.CAR-OPS 1.680 Cosmic radiation detection equipmentAn operator shall not operate an aeroplane above 15000 m (49000 ft) unless:(a) It is equipped with an instrument to measure and indicate continuously the dose rate of total cosmic radiation being received (i.e. the total of ionizing and
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performance of their duties.Image: CAR-OPS 1.680 Cosmic radiation detection equipmentAn operator shall not operate an aeroplane above 15000 m (49000 ft) unless:Image: Careform of the state of
equipmentAn operator shall not operate an aeroplane above 15000 m (49000 ft) unless:(a) It is equipped with an instrument to measure and indicate continuously the dose rate of total cosmic radiation being received (i.e. the total of ionizing and
An operator shall not operate an aeroplane above 15000 m (49000 ft) unless: (a) It is equipped with an instrument to measure and indicate continuously the dose rate of total cosmic radiation being received (i.e. the total of ionizing and
15000 m (49000 ft) unless: (a) It is equipped with an instrument to measure and indicate continuously the dose rate of total cosmic radiation being received (i.e. the total of ionizing and the second s
15000 m (49000 ft) unless: (a) It is equipped with an instrument to measure and indicate continuously the dose rate of total cosmic radiation being received (i.e. the total of ionizing and the second s
indicate continuously the dose rate of total cosmic radiation being received (i.e. the total of ionizing and
radiation being received (i.e. the total of ionizing and
- · · · · · · · · · · · · · · · · · · ·
neutron radiation of galactic and solar origin) and
the cumulative dose on each flight, or
(b) A system of on-board quarterly radiation
sampling acceptable to the authority is established
(See AMC OPS 1.680(a)(2)).
CAR-OPS 1.685 Flight crew interphone system
An operator shall not operate an aeroplane on which
a flight crew of more than one is required unless it is
equipped with a flight crew interphone system,
including headsets and microphones, not of a
handheld type, for use by all members of the flight
crew.
CAR-OPS 1.690 Crew member interphone system
(a) An operator shall not operate an aeroplane with
a maximum certificated take-off mass exceeding
15000 kg or having a maximum approved passenger
seating configuration of more than 19 unless it is
equipped with a crew member interphone system.
(b) The crew member interphone system required by
this paragraph must:
(1) Operate independently of the public address
system except for handsets, headsets, microphones,
selector switches and signalling devices;
(2) Provide a means of two-way communication
between the flight crew compartment and:
(i) Each passenger compartment;



SECTION:	AIRWORTHINESS FORMS	GTF-COR-004
TITLE:	CAR OPS-1 SUBPARTS K AND L COMPLIANCE CHECK LIST	

CAR-OPS 1 provision	S	U/S	N/A	Comment
SUBPART K INSTRUMENTS AND EQUIPMENT				
(ii) Each galley located other than on a passenger deck level; and				
(iii) Each remote crew compartment that is not on the passenger deck and is not easily accessible from a passenger compartment;				
(3) Be readily accessible for use from each of the required flight crew stations in the flight crew compartment;				
(4) Be readily accessible for use at required cabin crew member stations close to each separate or pair of floor level emergency exits;				
(5) Have an alerting system incorporating aural or visual signals for use by flight crew members to alert the cabin crew and for use by cabin crew members to alert the flight crew;				
(6) Have a means for the recipient of a call to determine whether it is a normal call or an emergency call (See AMC OPS 1.690(b)(6)); and				
(7) Provide on the ground a means of two-way communication between ground personnel and at least two flight crew members. (See IEM OPS 1.690(b)(7)).				
CAR-OPS 1.695 Public address system				
(a) An operator shall not operate an aeroplane with a maximum approved passenger seating configuration of more than 19 unless a public address system is installed.				
(b) The public address system required by this paragraph must:				
(1) Operate independently of the interphone systems except for handsets, headsets, microphones, selector switches and signalling devices;				
(2) Be readily accessible for immediate use from each required flight crew member station;				
(3) For each required floor level passenger				



SECTION:	AIRWORTHINESS FORMS	GTF-COR-004
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CAR-OPS 1 provision	S	U/S	N/A	Comment
SUBPART K INSTRUMENTS AND EQUIPMENT				
emergency exit which has an adjacent cabin crew				
seat, have a microphone which is readily accessible				
to the seated cabin crew member, except that one				
microphone may serve more than one exit, provided				
the proximity of the exits allows unassisted verbal				
communication between seated cabin crew				
members;				
(4) Be capable of operation within 10 seconds by a				
cabin crew member at each of those stations in the				
compartment from which its use is accessible; and				
(5) Be audible and intelligible at all passenger seats,				
toilets and cabin crew seats and work stations.				
CAR-OPS 1.700 Cockpit voice recorders–1				
(a) An operator shall not operate an aeroplane				
which:				
(1) to multi-ongine turking powered and has a				
(1) Is multi-engine turbine powered and has a				
maximum approved passenger seating configuration				
of more than 9; or				
(2) Has a maximum certificated take-off mass over				
5700 kg,				
5,00 kg,				
unless it is equipped with a cockpit voice recorder				
which, with reference to a time scale, records:				
(i) Voice communications transmitted from or				
received on the flight deck by radio;				
(ii) The aural environment of the flight deck,				
including without interruption, the audio signals				
received from each boom and mask microphone in				
use;				
(iii) Voice communications of flight crew members				
on the flight deck using the aeroplane's interphone				
system;				
(iv) Voice or audio signals identifying navigation or				
approach aids introduced into a headset or speaker;				
and				
(v) Voice communications of flight crew members on				
the flight deck using the public address system, if installed.				
แรงสมุยน.				



SECTION:	AIRWORTHINESS FORMS				GTF-COR-004
TITLE:	CAR OPS-1 SUBPARTS K AND L COMPL	IANCE	CHECK	LIST	017-004
	CAR-OPS 1 provision	S	U/S	N/A	Comment
SUBPART K IN	ISTRUMENTS AND EQUIPMENT				
(b) The CVR s	hall be capable of retaining the data				
recorded duri	ing at least:				
	receding 25 hours for aeroplanes with				
	CTOM of more than 27 000 kg and first				
	d with an individual CofA on or after 1				
	iry 2022; or				
	receding 2 hours in all other cases				
	it voice recorder must start to record prior to the aeroplane				
	r its own power and continue to record				
-	nination of the flight when the				
	no longer capable of moving under its				
•	n addition, depending on the				
•	electrical power, the cockpit voice				
recorder mus	t start to record as early as possible				
during the co	ckpit checks prior to engine start at the				
	the flight until the cockpit checks				
	following engine shutdown at the end				
of the flight.					
	it voice recorder must have a device to ing that recorder in water.				
	-				
	05 Cockpit voice recorders–2 or shall not operate any multi-engined				
	lane which has a maximum certificated				
	of 5700 kg or less and a maximum				
	senger seating configuration of more				
	it is equipped with a cockpit voice				
recorder whic	ch records:				
. ,	munications transmitted from or				
received on tl	he flight deck by radio;				
(2) The event	an inspect of the flight deals				
	environment of the flight deck, ere practicable, without interruption,				
-	hals received from each boom and mask				
microphone i					
(3) Voice com	munications of flight crew members on				
	k using the aeroplane's interphone				
system;					
(
	udio signals identifying navigation or				
	s introduced into a headset or speaker;				
and					



SECTION:	AIRWORTHINESS FORMS				
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	CAR-OPS 1 provision	S	U/S	N/A	Comment
SUBPART K II	NSTRUMENTS AND EQUIPMENT				
	nmunications of flight crew members on ck using the public address system, if				
retaining info last 30 minut (c) The cockp prior to the a and continue flight when t moving unde on the availa voice recorde possible duri until the cock engine shutd (d) The cockp assist in loca	bit voice recorder shall be capable of cormation recorded during at least the tes of its operation. Dit voice recorder must start to record aeroplane moving under its own power to record until the termination of the he aeroplane is no longer capable of er its own power. In addition, depending bility of electrical power, the cockpit er must start to record as early as ng the cockpit checks, prior to the flight kpit checks immediately following lown at the end of the flight. Dit voice recorder must have a device to ting that recorder in water. 10 Cockpit voice recorders–3				
 (a) An operate a maximum of unless it is eo which record (1) Voice con 	tor shall not operate any aeroplane with certificated take-off mass over 5700 kg quipped with a cockpit voice recorder ls: nmunications transmitted from or				
(2) The aural (3) Voice con	the flight deck by radio; environment of the flight deck; nmunications of flight crew members on ck using the aeroplane's interphone				
	audio signals identifying navigation or Is introduced into a headset or speaker;				
	nmunications of flight crew members on ck using the public address system, if				



SECTION:	AIRWORTHINESS FORMS	GTF-COR-004
TITLE:	CAR OPS-1 SUBPARTS K AND L COMPLIANCE CHECK LIST	

CAR-OPS 1 provision	S	U/S	N/A	Comment
SUBPART K INSTRUMENTS AND EQUIPMENT				
(b) The cockpit voice recorder shall be capable of				
retaining information recorded during at least the				
last 30 minutes of its operation.				
(c) The cockpit voice recorder must start to record				
prior to the aeroplane moving under its own power				
and continue to record until the termination of the				
flight when the aeroplane is no longer capable of				
moving under its own power.				
(d) The cockpit voice recorder must have a device to				
assist in locating that recorder in water.				
CAR-OPS 1.715 Flight data recorders–1				
(a) An operator shall not operate any aeroplane				
which:				
(1) Is multi-engine turbine powered and has a				
maximum approved passenger seating configuration				
of more than 9; or				
(2) Has a maximum certificated take-off mass over				
5700 kg,				
unloss it is solving ad with a flight data generates that				
unless it is equipped with a flight data recorder that uses a digital method of recording and storing data				
and a method of readily retrieving that data from the				
storage medium is available.				
(b) The flight data recorder shall be capable of				
retaining the data recorded during at least the last				
25 hours of its operation except that, for those				
aeroplanes with a maximum certificated take-off				
mass of 5700 kg or less, this period may be reduced				
to 10 hours.				
(c) The flight data recorder must, with reference to a				
timescale, record:				
(1) The parameters listed in Tables A1 or A2 of				
Appendix 1 to CAR-OPS 1.715 as applicable;				
(2) For those aeroplanes with a maximum				
certificated take-off mass over 27000 kg, the				
additional parameters listed in Table B of Appendix 1				
to CAR-OPS 1.715;				
(3) For aeroplanes specified in (a) above, the flight				
data recorder must record any dedicated parameters				
relating to novel or unique design or operational				
relating to nover of anique design of operational				



SECTION:	AIRWORTHINESS FORMS	GTF-COR-004
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CAR-OPS 1 provision	S	U/S	N/A	Comment
SUBPART K INSTRUMENTS AND EQUIPMENT			,	
characteristics of the aeroplane as determined by				
the Authority during type or supplemental type				
certification; and				
(4) For aeroplanes equipped with electronic display				
system the parameters listed in Table C of Appendix				
1 to CAR-OPS 1.715., except that, for aeroplanes first				
issued with an individual Certificate of Airworthiness				
before 20 August 2002 those parameters for which:				
before 20 August 2002 those parameters for which.				
The sensor is not available; or				
(ii) The aeroplane system or equipment generating				
the data needs to be modified; or				
(iii) The signals are incompatible with the recording				
(iii) The signals are incompatible with the recording				
system;				
do not pood to be recorded if accortable to the				
do not need to be recorded if acceptable to the				
Authority.				
(d) Data must be obtained from aeroplane sources				
which enable accurate correlation with information				
displayed to the flight crew.				
(e) The flight data recorder must start automatically				
to record the data prior to the aeroplane being				
capable of moving under its own power and must				
stop automatically after the aeroplane is incapable				
of moving under its own power.				
(f) The flight data recorder must have a device to				
assist in locating that recorder in water.				
(g) Aeroplanes first issued with an individual				
Certificate of Airworthiness on or after 1 April 1998,				
but not later than 1 April 2001 may not be required				
to comply with CAR-OPS 1.715(c) if approved by the				
Authority, provided that:				
(1) Compliance with CAD ODC 1 745(1) second b				
(1) Compliance with CAR-OPS 1.715(c) cannot be				
achieved without extensive modification (See CAR-				
OPS 1.715(g)) to the aeroplane systems and				
equipment other than the flight data recorder				
system; and				
(2) The correspondence compliant with CAR OPE $(1,720)$				
(2) The aeroplane complies with CAR-OPS 1.720(c)				
except that parameter 15b in Table A of Appendix 1				
to CAR-OPS 1.720 need not to be recorded.				
CAR-OPS 1.720 Flight data recorders–2				



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TITLE:	CAR OPS-1 SUBPARTS K AND L COMPLIANCE CHECK LIST	

CAR-OPS 1 provision	S	U/S	N/A	Comment
SUBPART K INSTRUMENTS AND EQUIPMENT				
(a) An operator shall not operate any aeroplane first issued with an individual certificate of airworthiness on or after 1 June 1990 up to and including 31 March				
1998 which has a maximum certificated take-off mass over 5700 kg unless it is equipped with a flight				
data recorder that uses a digital method of recording and storing data and a method of readily retrieving that data from the storage medium is available.				
(b) The flight data recorder shall be capable of retaining the data recorded during at least the last 25 hours of its operation.				
(c) The flight data recorder must, with reference to a timescale, record:				
(1) The parameters listed in Table A of Appendix 1 to CAR-OPS 1.720; and				
(2) For those aeroplanes with a maximum certificated take-off mass over 27000 kg the additional parameters listed in Table B of Appendix 1 to CAR-OPS 1.720.				
(d) For those aeroplanes having a maximum certificated take-off mass of 27000 kg or below, if acceptable to the Authority, parameters 14 and 15b of Table A of Appendix 1 to CAR-OPS 1.720 need not be recorded, when any of the following conditions are met:				
The sensor is not readily available,				
(2) Sufficient capacity is not available in the flight recorder system,				
(3) A change is required in the equipment that generates the data.				
(e) For those aeroplanes having a maximum certificated take-off mass over 27000 kg, if acceptable to the Authority, the following parameters need not be recorded: 15b of Table A of Appendix 1 to CAR-OPS 1.720, and 23, 24, 25, 26, 27, 28, 29, 30 and 31 of Table B of Appendix 1, if any of the following conditions are met:				
The sensor is not readily available,				



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CAR-OPS 1 provision	S	U/S	N/A	Comment
SUBPART K INSTRUMENTS AND EQUIPMENT				
(2) Sufficient capacity is not available in the flight data recorder system,				
(3) A change is required in the equipment that generates the data,				
(4) For navigational data (NAV frequency selection, DME distance, latitude, longitude, ground speed and drift) the signals are not available in digital form.				
(f) Individual parameters that can be derived by calculation from the other recorded parameters, need not to be recorded if acceptable to the Authority.				
(g) Data must be obtained from aeroplane sources which enable accurate correlation with information displayed to the flight crew.				
(h) The flight data recorder must start to record the data prior to the aeroplane being capable of moving under its own power and must stop after the aeroplane is incapable of moving under its own power.				
(i) The flight data recorder must have a device to assist in locating that recorder in water.				
CAR-OPS 1.725 Flight data recorders–3				
(a) An operator shall not operate any turbine- engined aeroplane first issued with an individual Certificate of Airworthiness, before 1 June 1990 which has a maximum certificated take-off mass over 5700 kg unless it is equipped with a flight data recorder that uses a digital method of recording and storing data and a method of readily retrieving that data from the storage medium is available.				
(b) The flight data recorder shall be capable of retaining the data recorded during at least the last25 hours of its operation.				
(c) The flight data recorder must, with reference to a timescale, record:				
(1) The parameters listed in Table A of Appendix 1 to CAR-OPS 1.725.				
(2) For those aeroplanes with a maximum certificated take-off mass over 27000 kg that are of a type first type certificated after 30 September 1969,				



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SUBPART K INSTRUMENTS AND EQUIPMENT the additional parameters from 6 to 15b of Table B of Appendix 1 to CAR-OPS 1.725 of this paragraph. The following parameters need not be recorded, if acceptable to the Authority: 13, 14 and 15b in Table B of Appendix 1 to CAR-OPS 1.725 when any of the following conditions are met: (ii) The sensor is not readily available, (iii) Sufficient capacity is not available in the flight recorder system, (iii) A change is required in the equipment that generates the data; and (3) When sufficient capacity is available on a flight recorder system, the sensor is readily available and a change is not required in the equipment that generates the data: (i) For aeroplanes first issued with an individual Certificate of Airworthiness on or after 1 January 1989, with a maximum certificated take off mass of over 5700 kg but not more than 27000 kg, parameters for to CAR-OPS 1.725. (d) Individual parameters that can be derived by claution from the other recorded parameters, need not to be recorded if acceptable to the Authority. (e) Data must be obtained from aircraft sources which enable accurate co	CAR-OPS 1 provision	S	U/S	N/A	Comment
the additional parameters from 6 to 15b of Table B of Appendix 1 to CAR-OPS 1.725 of this paragraph. The following parameters need not be recorded, if acceptable to the Authority: 13, 14 and 15b in Table B of Appendix 1 to CAR-OPS 1.725 when any of the following conditions are met: (i) The sensor is not readily available, (ii) Sufficient capacity is not available in the flight recorder system, (iii) A change is required in the equipment that generates the data; and (3) When sufficient capacity is available on a flight recorder system, the sensor is readily available and a change is not required in the equipment that generates the data: (i) For aeroplanes first issued with an individual Certificate of Airworthiness on or after 1 January 1989, with a maximum certificated take off mass of over 5700 kg but not more than 27000 kg, parameters 6 to 15b of Table B of Appendix 1 to CAR-OPS 1.725; and (ii) For aeroplanes first issued with an individual Certificate of Airworthiness on or after 1 January 1987, with a maximum certificated take off mass of over 2700 kg but not more than 27000 kg, parameters 6 to 15b of Table B of Appendix 1 to CAR-OPS 1.725; and (ii) For aeroplanes first issued with an individual Certificate of Airworthiness on or after 1 January 1987, with a maximum certificated take off mass of over 27000 kg the remaining parameters of Table B of Appendix 1 to CAR-OPS 1.725. (d) Individual parameters that can be derived by calculation from the other recorded parameters, need not to be recorded if acceptable to the Authority. (e) Data must be obtained from aircraft sources which enable accurate correlation with information displayed to the flight crew. (f) The flight data recorder must start to record the data prior to the aeroplane being capable of moving under its own power and must stop after the aeroplane is incapable of moving under its own power. (g) The flight data recorder must have a device to	·		-7-		
of Appendix 1 to CAR-OPS 1.725 of this paragraph. The following parameters need not be recorded, if acceptable to the Authority: 13, 14 and 15b in Table B of Appendix 1 to CAR-OPS 1.725 when any of the following conditions are met: (i) The sensor is not readily available, (ii) Sufficient capacity is not available in the flight recorder system, (iii) A change is required in the equipment that generates the data; and (3) When sufficient capacity is available on a flight recorder system, the sensor is readily available and a change is not required in the equipment that generates the data: (i) For aeroplanes first issued with an individual Certificate of Airworthiness on or after 1 January 1989, with a maximum certificated take off mass of over 5700 kg but not more than 27000 kg, parameters 6 to 15b of Table B of Appendix 1 to CAR-OPS 1.725; and (ii) For aeroplanes first issued with an individual Certificate of Airworthiness on or after 1 January 1987, with a maximum certificated take off mass of over 2700 kg the remaining parameters of Table B of Appendix 1 to CAR-OPS 1.725. (d) Individual parameters that can be derived by calculation from the other recorded parameters, need not to be recorded if acceptable to the Authority. (e) Data must be obtained from aircraft sources which enable accurate correlation with information displayed to the flight crew. (f) The flight data recorder must start to record the data prior to the aeroplane being capable of moving under its own power and must stop after the aeroplane is incapable of moving under its own power. (g) The flight data recorder must have a device to					
The following parameters need not be recorded, if acceptable to the Authority: 13, 14 and 15b in Table B of Appendix 1 to CAR-OPS 1.725 when any of the following conditions are met: (ii) The sensor is not readily available, (iii) Sufficient capacity is not available in the flight recorder system, (iii) A change is required in the equipment that generates the data; and (3) When sufficient capacity is available on a flight recorder system, the sensor is readily available and a change is not required in the equipment that generates the data: (i) For aeroplanes first issued with an individual Certificate of Airworthiness on or after 1 January 1989, with a maximum certificated take off mass of over 5700 kg but not more than 27000 kg, parameters 6 to 15b of Table B of Appendix 1 to CAR-OPS 1.725 . (d) Individual parameters that can be derived by calculation from the other recorded parameters, need not to be recorded if acceptable to the Autority. (e) Data must be obtained from aircraft sources which enable accurate correlation with information displayed to the flight draw recorder must start to record the data prior to					
acceptable to the Authority: 13, 14 and 15b in Table B of Appendix 1 to CAR-OPS 1.725 when any of the following conditions are met: (i) The sensor is not readily available, (ii) Sufficient capacity is not available in the flight recorder system, (iii) A change is required in the equipment that generates the data; and (3) When sufficient capacity is available on a flight recorder system, the sensor is readily available and a change is not required in the equipment that generates the data: (i) For aeroplanes first issued with an individual Certificate of Airworthiness on or after 1 January 1989, with a maximum certificated take off mass of over 5700 kg but not more than 27000 kg, parameters 6 to 15b of Table B of Appendix 1 to CAR-OPS 1.725; and (ii) For aeroplanes first issued with an individual Certificate of Airworthiness on or after 1 January 1987, with a maximum certificated take off mass of over 2700 kg the remaining parameters of Table B of Appendix 1 to CAR-OPS 1.725. (d) Individual parameters that can be derived by calculation from the other recorded parameters, need not to be recorded if acceptable to the Authority. (e) Data must be obtained from aircraft sources which enable accurate correlation with information displayed to the flight crew. (f) The flight data recorder must start to record the data prior to the aeroplane being capable of moving under its own power and must stop after the aeroplane is incapable of moving under its own power. (g) The flight data recorder must have a device to					
B of Appendix 1 to CAR-OPS 1.725 when any of the following conditions are met: (i) The sensor is not readily available, (ii) Sufficient capacity is not available in the flight recorder system, (iii) A change is required in the equipment that generates the data; and (3) When sufficient capacity is available on a flight recorder system, the sensor is readily available and a change is not required in the equipment that generates the data: (i) For aeroplanes first issued with an individual Certificate of Airworthiness on or after 1 January 1989, with a maximum certificated take off mass of over 5700 kg but not more than 27000 kg, parameters 6 to 15b of Table B of Appendix 1 to CAR-OPS 1.725; and (ii) For aeroplanes first issued with an individual Certificate of Airworthiness on or after 1 January 1989, with a maximum certificated take off mass of over 5700 kg but not more than 27000 kg, parameters 6 to 15b of Table B of Appendix 1 to CAR-OPS 1.725; and (ii) For aeroplanes first issued with an individual Certificate of Airworthiness on or after 1 January 1987, with a maximum certificated take off mass of over 27000 kg the remaining parameters of Table B of Appendix 1 to CAR-OPS 1.725. (d) Individual parameters that can be derived by calculation from the other recorded parameters, need not to be recorded fi acceptable to the Authority. (e) Data must be obtained from aircraft sources which enable accurate correlation with information displayed to the flight crew. (f) The flight data recorder must start to record the data prior to the aeroplane being capable of moving under its own power and must stop after the aeroplane is incapable of moving under its own power. (g) The flight data recorder must have a device to 					
following conditions are met:					
(i) The sensor is not readily available, (ii) Sufficient capacity is not available in the flight recorder system, (iii) A change is required in the equipment that generates the data; and (3) When sufficient capacity is available on a flight recorder system, the sensor is readily available and a change is not required in the equipment that generates the data: (i) For aeroplanes first issued with an individual Certificate of Airworthiness on or after 1 January 1989, with a maximum certificated take off mass of over 5700 kg but not more than 27000 kg, parameters 6 to 15b of Table B of Appendix 1 to CAR-OPS 1.725; and (ii) For aeroplanes first issued with an individual Certificate of Airworthiness on or after 1 January 1987, with a maximum certificated take off mass of over 27000 kg the remaining parameters of Table B of Appendix 1 to CAR-OPS 1.725. (d) Individual parameters that can be derived by calculation from the other recorded parameters, need not to be recorded if acceptable to the Authority. (e) Data must be obtained from aircraft sources which enable accurate correlation with information dispayed to the fligh					
(ii) Sufficient capacity is not available in the flight recorder system,					
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aeroplane is incapable of moving under its own power.(g) The flight data recorder must have a device to					
power. (g) The flight data recorder must have a device to					
(g) The flight data recorder must have a device to					
	assist in locating that recorder in water.				



SECTION:	AIRWORTHINESS FORMS	GTF-COR-004
TITLE:	CAR OPS-1 SUBPARTS K AND L COMPLIANCE CHECK LIST	

CAR-OPS 1 provision	S	U/S	N/A	Comment
SUBPART K INSTRUMENTS AND EQUIPMENT				
CAR-OPS 1.727 Combination Recorder				
(a) Compliance with Cockpit Voice recorder and				
flight data recorder requirements may be achieved				
by:				
(1) One combination recorder if the aeroplane has to				
be equipped with a cockpit voice recorder or with a				
flight data recorder only; or				
(2) One combination recorder if the aeroplane with a				
maximum certificated take-off mass of 5700 kg or				
less has to be equipped with a cockpit voice recorder				
and a flight data recorder; or				
(3) Two combination recorders if the aeroplane with				
a maximum take-off mass over 5700 kg has to be				
equipped with a cockpit voice recorder and a flight				
data recorder.				
(b) A combination recorder is a flight recorder that				
records:				
(1) all voice communications and aural environment				
required by the relevant cockpit voice recorder				
paragraph; and				
(2) all parameters required by the relevant flight				
data recorder paragraph, with the same				
specifications required by those paragraphs.				
CAR-OPS 1.728 Additional Equipment for location of Aircraft in distress				
The following aeroplanes shall be equipped with				
robust and automatic means to accurately				
determine, following an accident where the				
aeroplane is severely damaged, the location of the				
point of end of flight:				
(1) all aeroplanes with an MCTOM of more than				
27000 kg, with an MOPSC of more than 19 and first				
issued with an individual CofA on or after 1 January				
2023; and				
(2) all aeroplanes with an MCTOM of more than 45				
500 kg and first issued with an individual CofA on or after 1 January 2023.				
CAR-OPS 1.730 Seats, seat safety belts, harnesses				
and child restraint devices				



SECTION:	AIRWORTHINESS FORMS				
TITLE:	CAR OPS-1 SUBPARTS K AND L COMPLI	GTF-COR-004			
	CAR-OPS 1 provision	S	U/S	N/A	Comment
SUBPART K IN	STRUMENTS AND EQUIPMENT				
(a) An operato unless it is eq	or shall not operate an aeroplane uipped with:				
(1) A seat or b years or more	perth for each person who is aged two ;;				
strap, or a saf	elt, with or without a diagonal shoulder ety harness for use in each passenger passenger aged 2 years or more;				
	traint device, acceptable to the each infant (See AC OPS 1.730 (a) (3);				
safety belt wir seat and for a incorporating	provided in sub-paragraph (b) below, a th shoulder harness for each flight crew ny seat alongside a pilot's seat a device which will automatically ccupant's torso in the event of rapid				
safety belt wir crew seat and requirement of seats by cabir	provided in sub-paragraph (b) below, a th shoulder harness for each cabin observer's seats. However, this does not preclude use of passenger a crew members carried in excess of the n crew complement; and				
required floor the emergence enhanced by elsewhere, ot shall be forwa	abin crew members located near level emergency exits except that, if cy evacuation of passengers would be seating cabin crew members her locations are acceptable. The seats and or rearward facing within 15° of the xis of the aeroplane.				
	pelts with shoulder harness must have				
aeroplanes wi mass not exce aeroplanes wi mass not exce place of a safe not reasonabl	elt with a diagonal shoulder strap for ith a maximum certificated take-off eeding 5700 kg or a safety belt for ith a maximum certificated take-off eeding 2 730 kg may be permitted in ety belt with shoulder harness if it is y practicable to fit the latter. 1 Fasten Seat belt and No Smoking				
signs	Trasten sear seit and no shloking				



SECTION:	AIRWORTHINESS FORMS	GTF-COR-004
TITLE:	CAR OPS-1 SUBPARTS K AND L COMPLIANCE CHECK LIST	GTT-CON-004

CAR-OPS 1 provision	S	U/S	N/A	Comment
SUBPART K INSTRUMENTS AND EQUIPMENT				
An operator shall not operate an aeroplane in which				
all passenger seats are not visible from the flight				
deck, unless it is equipped with a means of indicating				
to all passengers and cabin crew when seat belts				
shall be fastened and when smoking is not allowed.				
CAR-OPS 1.735 Internal doors and curtains				
An operator shall not operate an aeroplane unless				
the following equipment is installed:				
(a) In an aeroplane with a maximum approved				
passenger seating configuration of more than 19				
passengers, a door between the passenger				
compartment and the flight deck compartment with				
a placard 'crew only' and a locking means to prevent				
passengers from opening it without the permission				
of a member of the flight crew;				
(b) A means for opening each door that separates a				
passenger compartment from another compartment				
that has emergency exit provisions. The means for				
opening must be readily accessible;				
(c) If it is necessary to pass through a doorway or				
curtain separating the passenger cabin from other				
areas to reach any required emergency exit from any				
passenger seat, the door or curtain must have a				
means to secure it in the open position;				
(d) A placard on each internal door or adjacent to a				
curtain that is the means of access to a passenger				
emergency exit, to indicate that it must be secured				
open during take off and landing; and				
(e) A means for any member of the crew to unlock				
any door that is normally accessible to passengers				
and that can be locked by passengers.				
CAR-OPS 1.740 Placards				
An operator shall not operate an aeroplane unless				
the following placards are installed;				
(a) Every exit from the aircraft shall be marked with				
the words "Exit" and "Emergency Exit" in both				
English and Arabic script, or with universal symbolic				
exit signs.				
(b) Every exit from and to the aircraft shall be				
marked with instructions in English and Arabic or				
with universal symbolic exit signs to indicate the				
correct method of opening the exit.				
The markings shall be placed on or near the inside				



SECTION:	AIRWORTHINESS FORMS	GTF-COR-004
TITLE:	CAR OPS-1 SUBPARTS K AND L COMPLIANCE CHECK LIST	GTT-COR-004

CAR-OPS 1 provision	S	11/c		Commont
	3	U/S	N/A	Comment
SUBPART K INSTRUMENTS AND EQUIPMENT surface of the door or other closure of the exit and, if				
it is operable, from the outside of the aircraft on or				
near the exterior surface.				
fiear the exterior surface.				
(c) Every safety related placards intended to be used				
by passengers and external emergency evacuation				
crew shall be in both Arabic and English scripts or				
with universal symbolic signs. Bilingual placards shall				
meet the applicable airworthiness requirements.				
CAR-OPS 1.745 First-Aid Kits				
(a) An operator shall not operate an aeroplane				
unless it is equipped with first-aid kits, readily				
accessible for use, to the following scale: Refer to				
CAR-OPS 1				
(b) An operator shall ensure that first-aid kits are:				
(4) have the description of the				
(1) Inspected periodically to confirm, to the extent				
possible, that contents are maintained in the condition necessary for their intended use; and				
condition necessary for their interfaced use, and				
(2) Replenished at regular intervals, in accordance				
with instructions contained on their labels, or as				
circumstances warrant.				
CAR-OPS 1.750 Universal Precaution Kit				
Aeroplanes which are required to carry at least one				
cabin crew member as part of the operating crew,				
shall be equipped with at least one universal				
precaution kit (two for aeroplanes authorized to				
carry more than 250 passengers) for the use of cabin				
crew members in managing incidents of ill health				
associated with a case of suspected communicable				
disease, or in the case of illness involving contact				
with body fluids, such as blood, urine, vomit and				
faeces and to protect the cabin crew members who				
are assisting potentially infectious cases of suspected				
communicable disease.				
CAR-OPS 1.755 Emergency Medical Kit				
(a) An operator shall not operate an aeroplane with				
a maximum approved passenger seating				
configuration of more than 30 seats unless it is				
equipped with an emergency medical kit if any point				
on the planned route is more than 60 minutes flying				
time (at normal cruising speed) from an aerodrome				



SECTION:	AIRWORTHINESS FORMS	GTF-COR-004
TITLE:	CAR OPS-1 SUBPARTS K AND L COMPLIANCE CHECK LIST	GTT-COR-004

CAR-OPS 1 provision	S	U/S	N/A	Comment
SUBPART K INSTRUMENTS AND EQUIPMENT			,	
at which qualified medical assistance could be				
expected to be available.				
(b) The commander shall ensure that drugs or				
Physchoactive substances are not administered				
except by qualified doctors, nurses or similarly				
qualified personnel.				
(c) Conditions for carriage				
(1) The emergency medical kit must be dust and				
moisture proof and shall be carried under security				
conditions, where practicable, on the flight deck; and				
(2) An operator shall ensure that emergency medical				
kits are:				
(i) Inspected periodically to confirm, to the extent				
possible, that the contents are maintained in the				
condition necessary for their intended use; and				
(ii) Replenished at regular intervals, in accordance				
with instructions contained on their labels, or as circumstances warrant.				
CAR-OPS 1.756 Automated External Defibrillators				
Operators shall determine the need for the carriage				
of AEDs on the basis of a risk assessment taking into				
account the particular needs of the operation. When				
AEDs are carried, an AED programme shall be established by the operator to manage all aspects of				
their use				
CAR-OPS 1.760 First-aid oxygen				
(a) An operator shall not operate a pressurised				
aeroplane, above 25000 ft, when a cabin crew				
member is required to be carried, unless it is				
equipped with a supply of undiluted oxygen for				
passengers who, for physiological reasons, might				
require oxygen following a cabin depressurisation.				
The amount of oxygen shall be calculated using an				
average flow rate of at least 3 litres Standard				
Temperature Pressure Dry (STPD)/minute/person				
and shall be sufficient for the remainder of the flight				
after cabin depressurisation when the cabin altitude				
exceeds 8000 ft but does not exceed 15000 ft, for at				
least 2% of the passengers carried, but in no case for				
less than one person. There shall be a sufficient				



SECTION:	AIRWORTHINESS FORMS	GTF-COR-004
TITLE:	CAR OPS-1 SUBPARTS K AND L COMPLIANCE CHECK LIST	

CAR-OPS 1 provision	S	U/S	N/A	Comment
SUBPART K INSTRUMENTS AND EQUIPMENT				
number of dispensing units, but in no case less than				
two, with a means for cabin crew to use the supply.				
The dispensing units may be of a portable type.				
(b) The amount of first-aid oxygen required for a				
particular operation shall be determined on the basis				
of cabin pressure altitudes and flight duration,				
consistent with the operating procedures				
established for each operation and route.				
(c) The oxygen equipment provided shall be capable				
of generating a mass flow to each user of at least				
four litres per minute, STPD. Means may be provided				
to decrease the flow to not less than two litres per				
minute, STPD, at any altitude.				
CAR-OPS 1.765 - Reserved				
CAR-OPS 1.770 Supplemental oxygen – pressurised				
aeroplanes				
(a) General				
(1) An operator shall not operate a pressurised				
aeroplane at pressure altitudes above 10000 ft				
unless supplemental oxygen equipment, capable of				
storing and dispensing the oxygen supplies required				
by this paragraph, is provided.				
(2) The amount of supplemental oxygen required				
shall be determined on the basis of cabin pressure				
altitude, flight duration and the assumption that a				
cabin pressurisation failure will occur at the pressure				
altitude or point of flight that is most critical from				
the standpoint of oxygen need, and that, after the				
failure, the aeroplane will descend in accordance				
with emergency procedures specified in the				
Aeroplane Flight Manual to a safe altitude for the				
route to be flown that will allow continued safe flight				
and landing.				
(3) Following a cabin pressurisation failure, the cabin				
pressure altitude shall be considered the same as the				
aeroplane pressure altitude, unless it is				
demonstrated to the Authority that no probable				
failure of the cabin or pressurisation system will				
result in a cabin pressure altitude equal to the				
aeroplane pressure altitude. Under these				
circumstances, the demonstrated maximum cabin				
an earnistances, the aernonstrated maximum cabin	l	I		



SECTION:	AIRWORTHINESS FORMS	GTF-COR-004
TITLE:	CAR OPS-1 SUBPARTS K AND L COMPLIANCE CHECK LIST	G11-COR-004

CAR-OPS 1 provision	S	U/S	N/A	Comment
SUBPART K INSTRUMENTS AND EQUIPMENT				
pressure altitude may be used as a basis for				
determination of oxygen supply.				
(b) Oxygen equipment and supply requirements				
(1) Flight crew members				
(i) Each member of the flight crew on flight deck duty				
shall be supplied with supplemental oxygen in				
accordance with Appendix 1. If all occupants of flight				
deck seats are supplied from the flight crew source				
of oxygen supply then they shall be considered as flight crew members on flight deck duty for the				
purpose of oxygen supply. Flight deck seat				
occupants, not supplied by the flight crew source,				
are to be considered as passengers for the purpose				
of oxygen supply.				
(ii) Flight crew members, not covered by sub-				
paragraph (b)(1)(i) above, are to be considered as				
passengers for the purpose of oxygen supply.				
(iii) Oxygen masks shall be located so as to be within				
the immediate reach of flight crew members whilst				
at their assigned duty station.				
(iv) Ovygon masks for use by flight grow members in				
(iv) Oxygen masks for use by flight crew members in pressurised aeroplanes operating at pressure				
altitudes above 25000 ft, shall be a quick donning				
type of mask.				
(2) Cabin crew members, additional crew members				
and passengers				
(i) Cabin crew members and passengers shall be				
supplied with supplemental oxygen in accordance				
with Appendix 1, except when sub-paragraph (v)				
below applies. Cabin crew members carried in				
addition to the minimum number of cabin crew				
members required, and additional crew members,				
shall be considered as passengers for the purpose of				
oxygen supply.				
(ii) Aprophonos interded to be presented at arrest				
(ii) Aeroplanes intended to be operated at pressure				
altitudes above 25000 ft shall be provided sufficient spare outlets and masks and/or sufficient portable				
spare outlets and masks and/or sumicient portable				


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CAR-OPS 1 provision	S	U/S	N/A	Comment
SUBPART K INSTRUMENTS AND EQUIPMENT				
oxygen units with masks for use by all required cabin crew members. The spare outlets and/or portable oxygen units are to be distributed evenly throughout the cabin to ensure immediate availability of oxygen to each required cabin crew member regardless of his location at the time of cabin pressurisation failure.				
 (iii) Aeroplanes intended to be operated at pressure altitudes above 25000 ft shall be provided an oxygen dispensing unit connected to oxygen supply terminals immediately available to each occupant, wherever seated. The total number of dispensing units and outlets shall exceed the number of seats by at least 10%. The extra units are to be evenly distributed throughout the cabin. (iv) Aeroplanes intended to be operated at pressure altitudes above 25000 ft or which, if operated at or below 25000 ft, cannot descend safely within 4 minutes to 12000 ft, and for which the individual 				
minutes to 13000 ft, and for which the individual certificate of airworthiness was first issued on or after 9 November 1998, shall be provided with automatically deployable oxygen equipment immediately available to each occupant, wherever seated. The total number of dispensing units and outlets shall exceed the number of seats by at least 10%. The extra units are to be evenly distributed throughout the cabin.				
 (v) The oxygen supply requirements, as specified in Appendix 1, for aeroplanes not certificated to fly above 25000 ft, may be reduced to the entire flight time between 10000 ft and 13000 ft cabin pressure altitudes for all required cabin crew members and for at least 10% of the passengers if, at all points along the route to be flown, the aeroplane is able to descend safely within 4 minutes to a cabin pressure altitude of 13000 ft. CAR-OPS 1.775 Supplemental oxygen – Non- 				
pressurised aeroplanes				



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	CAR-OPS 1 provision	S	U/S	N/A	Comment
SUBPART K IN	ISTRUMENTS AND EQUIPMENT				
(a) General					
aeroplane at supplemental	or shall not operate a non-pressurised altitudes above 10000 ft unless oxygen equipment, capable of storing g the oxygen supplies required, is				
sustenance re be determine flight duration procedures es Operations M	nt of supplemental oxygen for equired for a particular operation shall d on the basis of flight altitudes and n, consistent with the operating stablished for each operation in the lanual and with the routes to be flown, emergency procedures specified in the lanual.				
pressure altitution with equipment the oxygen su	ane intended to be operated at udes above 10000 ft shall be provided ent capable of storing and dispensing upplies required.				
(1) Flight crew crew on flight supplemental If all occupant the flight crew shall be consi	pply requirements w members. Each member of the flight deck duty shall be supplied with oxygen in accordance with Appendix 1. ts of flight deck seats are supplied from v source of oxygen supply then they dered as flight crew members on flight the purpose of oxygen supply.				
and passenge passengers sh accordance w carried in add crew members members, sha purpose of ox					
	0 Crew Protective Breathing				
aeroplane or, aeroplane wit	or shall not operate a pressurised after 1 April 2000, an unpressurised h a maximum certificated take-off ng 5700 kg or having a maximum				



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	Comment				

SUBPART K INSTRUMENTS AND EQUIPMENT				
approved seating configuration of more than 19				
seats unless:				
(1) It has equipment to protect the eyes, nose and				
mouth of each flight crew member while on flight				
deck duty and to provide oxygen for a period of not				
less than 15 minutes. The supply for Protective				
Breathing Equipment (PBE) may be provided by the				
supplemental oxygen required by CAR-OPS				
1.770(b)(1) or CAR-OPS 1.775(b)(1). In addition,				
when the flight crew is more than one and a cabin				
crew member is not carried, portable PBE must be				
carried to protect the eyes, nose and mouth of one				
member of the flight crew and to provide breathing				
gas for a period of not less than 15 minutes; and				
(2) It has sufficient portable PBE to protect the eyes,				
nose and mouth of all required cabin crew members				
and to provide breathing gas for a period of not less				
than 15 minutes.				
(b) PBE intended for flight crew use must be				
conveniently located on the flight deck and be easily				
accessible for immediate use by each required flight				
crew member at their assigned duty station.				
(c) PBE intended for cabin crew use must be installed				
adjacent to each required cabin crew member duty				
station.				
(d) An additional, easily accessible portable PBE must				
be provided and located at or adjacent to the hand				
fire extinguishers required by CAR-OPS 1.790(c) and				
(d) except that, where the fire extinguisher is located				
inside a cargo compartment, the PBE must be				
stowed outside but adjacent to the entrance to that compartment.				
(e) PBE while in use must not prevent				
communication where required by CAR-OPS 1.313,				
CAR-OPS 1.685, CAR-OPS 1.690, CAR-OPS 1.810 and				
CAR-OPS 1.850.				
CAR-OPS 1.785 HUD or Equivalent Displays				
An operator shall not operate an aeroplane				
equipped with a HUD or equivalent displays, EVS,				
SVS or CVS, or any combination of those systems				
into a hybrid system unless:				
(a) An approval has been issued by the Authority for				
a approvarias been issued by the Authority 101			I	



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CAR-OPS 1 provision	S	U/S	N/A	Comment
SUBPART K INSTRUMENTS AND EQUIPMENT		-		
the operational use of such displays,				
(b) The equipment meets the appropriate				
airworthiness certification requirements;				
(c) The operator has carried out a safety risk				
assessment of the operations supported by the HUD				
or equivalent displays, EVS, SVS or CVS;				
(d) The operator has established and decumented				
(d) The operator has established and documented the procedures for the use of, and training				
requirements for, a HUD or equivalent displays, EVS,				
SVS or CVS				
(e) The criteria for the use of such systems for the				
safe operation of an aeroplane as described in				
Appendix 1 to CAR-OPS 1.785 HUD, VS or Equivalent				
is complied with as applicable.				
CAR-OPS 1.790 Fire extinguishers				
(a) An operator shall not operate an aeroplane				
unless hand fire extinguishers are provided for use in				
crew, passenger and, as applicable, cargo				
compartments and galleys in accordance with the following:				
(i) The type and quantity of extinguishing agent must				
be suitable for the kinds of fires likely to occur in the				
compartment where the extinguisher is intended to				
be used and, for personnel compartments, must				
minimise the hazard of toxic gas concentration;				
(ii) At least one hand fire extinguisher, containing				
Halon 1211 (bromochlorodifluoro-methane,				
CBrCIF2), or equivalent as the extinguishing agent,				
must be conveniently located on the flight deck for				
use by the flight crew;				
(iii) At least one hand fire cuting with a result to				
(iii) At least one hand fire extinguisher must be				
located in, or readily accessible for use in, each galley not located on the main passenger deck;				
(iv) At least one readily accessible hand fire				
extinguisher must be available for use in each Class A				
or Class B cargo or baggage compartment and in				
each Class E cargo compartment that is accessible to				
crew members in flight; and				



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	CAR-OPS 1 provision	S	U/S	N/A	Comment
SUBPART K IN	STRUMENTS AND EQUIPMENT				
	e following number of hand fire				
	must be conveniently located in the				
passenger cor	npartment(s):				
Refer to CAR-					
	more extinguishers are required, they				
	ly distributed in the passenger				
compartment					
-	ne of the required fire extinguishers				
	passenger compartment of an				
	h a maximum approved passenger				
	uration of at least 31, and not more				
	at least two of the fire extinguishers				
located in the	passenger compartment of an				
aeroplane wit	h a maximum approved passenger				
seating config	uration of 61 or more must contain				
Halon 1211 (b	romochlorodi-fluoromethane,				
CBrCIF2), or e	quivalent as the extinguishing agent.				
(b) An operate	or shall ensure that any agent used in a				
	tinguisher for each lavatory disposal				
	towels, paper or waste in an				
	which the individual certificate of				
	is first issued on or after 31 December				
	extinguishing agent used in a portable				
-	ner in an aeroplane for which the				
on or after 18	tificate of airworthiness is first issued				
	applicable minimum performance				
	of the State of Registry acceptable to				
the GCAA; and					
	4				
(ii) is not of a	type listed in the 1987 Montreal				
	ubstances that Deplete the Ozone				
	pears in the Eighth Edition of the				
<i>·</i> · · ·	the Montreal Protocol on Substances				
that Deplete t	he Ozone Layer, Annex A, Group II.				
	5 Crash axes and crowbars				
	or shall not operate an aeroplane with				
	ertificated take-off mass exceeding				
	ving a maximum approved passenger				
seating config	uration of more than 9 seats unless it is				
equipped witl	n at least one crash axe or crowbar				
located on the	e flight deck.				
(b) Crash axes	and crowbars located in the passenger			[
	must not be visible to passengers.				



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CAR-OPS 1 provision	S	U/S	N/A	Comment
SUBPART K INSTRUMENTS AND EQUIPMENT				
CAR-OPS 1.800 Marking of break-in points				
An operator shall ensure that, if areas of the fuselage				
suitable for break-in by rescue crews in emergency				
are marked on an aeroplane, such areas shall be				
marked as shown below. The colour of the markings				
shall be red or yellow, and if necessary they shall be				
outlined in white to contrast with the background. If				
the corner markings are more than 2 metres apart,				
intermediate lines 9 cm x 3 cm shall be inserted so				
that there is no more than 2 metres between				
adjacent marks.				
CAR-OPS 1.805 Means for emergency evacuation				
(a) An operator shall not operate an aeroplane with				
passenger emergency exit sill heights:				
passenger emergency exit sin heights.				
(1) Which are more than 1.83 metres (6 feet) above				
the ground with the aeroplane on the ground and				
the landing gear extended; or				
(2) Which would be more than 1.83 metres (6 feet)				
above the ground after the collapse of, or failure to				
extend of, one or more legs of the landing gear and				
for which a Type Certificate was first applied for on				
or after 1 April 2000, unless it has equipment or				
devices available at each exit, where sub-paragraphs				
(1) or (2) apply, to enable passengers and crew to				
reach the ground safely in an emergency.				
(b) Such equipment or devices need not be provided				
at overwing exits if the designated place on the				
aeroplane structure at which the escape route				
terminates is less than 1.83 metres (6 feet) from the				
ground with the aeroplane on the ground, the				
landing gear extended, and the flaps in the take off				
or landing position, whichever flap position is higher from the ground.				
(c) In aeroplanes required to have a separate				
emergency exit for the flight crew and:				
encidency exit for the fight frew dist.				
(1) For which the lowest point of the emergency exit				
is more than 1.83 metres (6 feet) above the ground				
with the landing gear extended; or,				
(2) For which a Type Certificate was first applied for				
on or after 1 April 2000, would be more than 1.83				



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CAR-OPS 1 provision	S	U/S	N/A	Comment
SUBPART K INSTRUMENTS AND EQUIPMENT				
metres (6 ft) above the ground after the collapse of,				
or failure to extend of, one or more legs of the				
landing gear, there must be a device to assist all				
members of the flight crew in descending to reach				
the ground safely in an emergency.				
CAR-OPS 1.810 Megaphones				
(a) An operator shall not operate an aeroplane with				
a maximum approved passenger seating				
configuration of more than 60 and carrying one or				
more passengers unless it is equipped with portable				
battery-powered megaphones readily accessible for				
use by crew members during an emergency				
evacuation, to the following scales:				
(1) For each passenger deck:				
Refer to CAR-OPS 1				
(2) For aeroplanes with more than one passenger				
deck, in all cases when the total passenger seating				
configuration is more than 60, at least 1 megaphone				
is required.				
CAR-OPS 1.815 Emergency lighting				
(a) An operator shall not operate a passenger				
carrying aeroplane which has a maximum approved				
passenger seating configuration of more than 9				
unless it is provided with an emergency lighting				
system having an independent power supply to				
facilitate the evacuation of the aeroplane. The				
emergency lighting system must include:				
(1) For aeroplanes which have a maximum approved				
passenger seating configuration of more than 19:				
(i) Sources of general cabin illumination;				
(ii) Internal lighting in floor level emergency exit				
areas; and				
(iii) Illuminated emergency exit marking and locating				
signs.				
(iv) For aeroplanes for which the application for the				
type certificate or equivalent was filed before 1 May				
1972, and when flying by night, exterior emergency				
lighting at all overwing exits, and at exits where				
descent assist means are required.				



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CAR-OPS 1 provision	S	U/S	N/A	Comment
SUBPART K INSTRUMENTS AND EQUIPMENT				
(v) For aeroplanes for which the application for the				
type certificate or equivalent was filed on or after 1				
May 1972, and when flying by night, exterior				
emergency lighting at all passenger emergency exits.				
(vi) For aeroplanes for which the type certificate was				
first issued on or after 1 January 1958, floor				
proximity emergency escape path marking system in				
the passenger compartment(s).				
(2) For aeroplanes which have a maximum approved				
passenger seating configuration of 19 or less and are				
certificated to CS-23 or CS-25:				
(i) Sources of general cabin illumination;				
(ii) Internal lighting in emergency exit areas; and				
(iii) Illuminated emergency exit marking and locating				
signs.				
(3) For aeroplanes which have a maximum approved				
passenger seating configuration of 19 or less and are				
not certificated to CS–23 or CS–25, sources of				
general cabin illumination.				
(b) An operator shall not, by night, operate a				
passenger carrying aeroplane which has a maximum				
approved passenger seating configuration of 9 or				
less unless it is provided with a source of general				
cabin illumination to facilitate the evacuation of the				
aeroplane. The system may use dome lights or other sources of illumination already fitted on the				
aeroplane and which are capable of remaining				
operative after the aeroplane's battery has been				
switched off.				
CAR-OPS 1.820 Emergency Locator Transmitter				
An operator shall not operate an aeroplane with 19				
passengers seat or more unless it is equipped with				
two ELT in which, one shall be automatic.				
All aeroplanes authorized to carry less than 19				
passengers shall be equipped with at least one				
automatic ELT.				
An operator shall not operate aeroplane unless it is				
equipped with any type of ELT capable of				
transmitting on 121.5 MHz and 406 MHz.				



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CAR-OPS 1 provision	S	U/S	N/A	Comment
SUBPART K INSTRUMENTS AND EQUIPMENT				
(d) An operator shall ensure that all ELTs that are capable of transmitting on 406 MHz shall be coded in accordance with ICAO Annex 10 and registered with the national agency responsible for initiating Search and Rescue or another nominated agency for Coding registration refer to TRA (Telecommunication				
Regulation Authority).				
CAR-OPS 1.825 Life Jackets				
(a) Land aeroplanes. An operator shall not operate a land aeroplane:				
(1) When flying over water and at a distance of more than 50 nautical miles from the shore; or				
 (2) When taking off or landing at an aerodrome where the take-off or approach path is so disposed over water that in the event of a mishap there would be a likelihood of a ditching, unless it is equipped with life jackets equipped with a survivor locator light, for each person on board. Each life jacket must be stowed in a position easily accessible from the seat or berth of the person for whose use it is provided. Life jackets for infants may be substituted by other approved flotation devices equipped with a survivor locator light. (b) Seaplanes and amphibians. An operator shall not 				
operate a seaplane or an amphibian on water unless it is equipped with life jackets equipped with a survivor locator light, for each person on board. Each life jacket must be stowed in a position easily accessible from the seat or berth of the person for whose use it is provided. Life jackets for infants may be substituted by other approved flotation devices equipped with a survivor locator light.				
CAR-OPS 1.830 Extended overwater flights				
 (a) On overwater flights, an operator shall not operate an aeroplane at a distance away from land, which is suitable for making an emergency landing, greater than that corresponding to: (1) 120 minutes at cruising speed or 400 pautical 				
(1) 120 minutes at cruising speed or 400 nautical miles, whichever is the lesser, for aeroplanes capable of continuing the flight to an aerodrome with the critical power unit(s) becoming inoperative at any point along the route or planned diversions; or				



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	CAR-OPS 1 provision	S	U/S	N/A	Comment
SUBPART K IN	ISTRUMENTS AND EQUIPMENT				
miles, whiche aeroplanes, u	es at cruising speed or 100 nautical ever is the lesser, for all other inless the equipment specified in sub- o) and (c) below is carried.				
Unless excess the buoyancy capacity of the occupants of	life-rafts to carry all persons on board. s rafts of enough capacity are provided, and seating capacity beyond the rated he rafts must accommodate all the aeroplane in the event of a loss of he largest rated capacity. The life-rafts oped with:				
(1) A survivor	locator light; and				
sustaining life undertaken (g equipment including means of e as appropriate to the flight to be see AMC OPS 1.830(b)(2)); and				
Transmitters distress frequ	vo survival Emergency Locator (ELT(S)) capable of transmitting on the Jencies prescribed in ICAO Annex 10, Napter 2. (See AC OPS 1.820)				
(d) All aeropl mass of over than 19 and a than 45500 k shall be equip	anes of a maximum certificated take-off 27000 kg and with an MOPSC of more all aeroplanes with an MCTOM of more g involved in commercial operations oped with a securely attached ocating device operating at a frequency				
	lane is operated over routes on which it tance of more than 180 NM from the				
mean to dete of flight with where the ae	plane is equipped with an automatic ermine the location of the point of end in 6 NM accuracy (following an accident proplane is severely damaged).				
An operator s areas in whic	35 Survival equipment shall not operate an aeroplane across h search and rescue would be especially ss it is equipped with the following:				



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CAR-OPS 1 provision	S	U/S	N/A	Comment
SUBPART K INSTRUMENTS AND EQUIPMENT				
(a) Signalling equipment to make the pyrotechnical				
distress signals described in ICAO Annex 2;				
(b) At least one ELT(S) capable of transmitting on the				
distress frequencies prescribed in ICAO Annex 10,				
Volume V, Chapter 2 (See AC OPS 1.820); and				
(c) Additional survival equipment for the route to be flown taking account of the number of persons on				
board (See AMC OPS 1.835 (c)), except that the				
equipment specified in sub-paragral(c) need not be				
carried when the aeroplane either:				
(1) Remains within a distance from an area where				
search and rescue is not especially difficult				
corresponding to:				
(i) 120 minutes at the one engine inoperative				
cruising speed for aeroplanes capable of continuing				
the flight to an aerodrome with the critical power unit(s) becoming inoperative at any point along the				
route or planned diversions; or				
(ii) 30 minutes at cruising speed for all other				
aeroplanes, or,				
(2) For aeroplanes certificated to CS–25 or				
equivalent, no greater distance than that				
corresponding to 90 minutes at cruising speed from				
an area suitable for making an emergency landing.				
CAR-OPS 1.840 Seaplanes and amphibians – Miscellaneous equipment				
(a) An operator shall not operate a seaplane or an				
amphibian on water unless it is equipped with:				
(1) A sea anchor and other equipment necessary to				
facilitate mooring, anchoring or manoeuvring the				
aircraft on water, appropriate to its size, weight and				
handling characteristics; and				
(2) Equipment for making the sound signals				
prescribed in the International Regulations for				
preventing collisions at sea, where applicable.				
SUBPART L COMMUNICATION AND NAVIGATION EQUIPMENT				
CAR-OPS 1.845 General introduction				
(a) An operator shall ensure that a flight does not				
commence unless the communication and				



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	CAR-OPS 1 provision	S	U/S	N/A	Comment
SUBPART K II	NSTRUMENTS AND EQUIPMENT				
navigation eq	quipment required under this Subpart is:				
requirement minimum pe	l and installed in accordance with the s applicable to them, including the rformance standard and the operational iness requirements;				
required for purposes, or	such that the failure of any single unit either communication or navigation both, will not result in the failure of required for communications or urposes.				
being conduc	le condition for the kind of operation cted except as provided in the MEL)30 refers); and				
one flight cre must be read single item o by more than installed so t	ed that if equipment is to be used by ew member at his station during flight it lily operable from his station. When a f equipment is required to be operated n one flight crew member it must be hat the equipment is readily operable tion at which the equipment is required ed.				
(b) Communi minimum pe prescribed in Orders (TSO) are prescribe codes. Comn complying w specification OPS impleme installed, unl prescribed in navigation ed approved do TSO or a revi	ication and navigation equipment rformance standards are those the applicable Technical Standard unless different performance standards ed in the operational or airworthiness nunication and navigation equipment ith design and performance s other than TSO on the date of CAR– entation may remain in service, or be ess additional requirements are this Subpart. Communication and quipment which has already been es not need to comply with a revised sed specification, other than TSO, unless requirement is prescribed.				

(c) An Operator shall obtain operational approval before operating in areas where compliance with Performance Based Communication and Surveillance (PBCS) requirements is specified (see AMC 1.845(c)) CAR-OPS 1.850 Radio Equipment



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CAR-OPS 1 provision	S	U/S	N/A	Comment
SUBPART K INSTRUMENTS AND EQUIPMENT		-	-	
(a) An operator shall not operate an aeroplane				
unless it is equipped with radio required for the kind				
of operation being conducted.				
(b) Where two independent (separate and complete)				
radio systems are required under this Subpart, each				
system must have an independent antenna				
installation except that, where rigidly supported				
non-wire antennae or other antenna installations of				
equivalent reliability are used, only one antenna is				
required.				
(c) The radio communication equipment required to				
comply with paragraph (a) above must also provide				
for communications on the aeronautical emergency				
frequency 121-5 MHz.				
CAR-OPS 1.855 Audio Selector Panel				
An operator shall not operate an aeroplane under				
IFR unless it is equipped with an audio selector panel				
accessible to each required flight crew member.				
CAR ODS 1 800 Redie equipment for VER routes				
CAR-OPS 1.860 Radio equipment for VFR routes				
navigated by reference to visual landmarks				
An operator shall not operate an aeroplane under				
VFR over routes that can be navigated by reference				
to visual landmarks, unless it is equipped with the				
radio communication equipment necessary under				
normal operating conditions to fulfil the following:				
(a) Communicate with appropriate ground stations;				
(b) Communicate with appropriate air traffic control				
facilities from any point in controlled airspace within				
which flights are intended; and				
(c) Receive meteorological information;				
CAR-OPS 1.865 Communication and Navigation				
equipment for operations under IFR, or under VFR				
over routes not navigated by reference to visual				
landmarks				
(a) An operator shall not operate an aeroplane under				
IFR, or under VFR over routes that cannot be				
navigated by reference to visual landmarks, unless				
the aeroplane is equipped with radio communication				
and SSR transponder and navigation equipment in				
accordance with the requirements of air traffic				
services in the area(s) of operation.				



SECTION:	AIRWORTHINESS FORMS	GTF-COR-004
TITLE:	CAR OPS-1 SUBPARTS K AND L COMPLIANCE CHECK LIST	GTT-COR-004

CAR-OPS 1 provisionSU/SN/ACommentSUBPART K INSTRUMENTS AND EQUIPMENTImage: Comment of the state
 (b) Radio equipment. An operator shall ensure that radio equipment comprises not less than; (1) two independent radio communication systems necessary under normal operating conditions to communicate with an appropriate ground station from any point on the route including diversions; and (2) SSR transponder equipment as required for the route being flown. (c) Navigation equipment. An operator shall ensure that navigation equipment
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(1) Comprises not loss than:
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(1) Comprises not less than:
(i) One VOR receiving system, one ADF system, one
DME except that an ADF system need not be installed provided that the use of ADF is not required
in any phase of the planned flight (See AC OPS
1.865(c)(1)(i));
(ii) One ILS or MLS where ILS or MLS is required for
approach navigation purposes;
(iii) One Marker Beacon receiving system where a
Marker Beacon is required for approach navigation
purposes;
(iv) An Area Navigation System when area navigation
is required for the route being flown;
(v) An additional DME system on any route, or part
thereof, where navigation is based only on DME
signals;
(vi) An additional VOR receiving system on any route,
or part thereof, where navigation is based only on
VOR signals; and
(vii) An additional ADF system on any route, or part
thereof, where navigation is based only on NDB signals, or
(2) Complies with the Required Navigation
Performance (RNP) Type for operation in the
airspace concerned. (See also AC OPS 1.243.)



SECTION:	AIRWORTHINESS FORMS	GTF-COR-004
TITLE:	CAR OPS-1 SUBPARTS K AND L COMPLIANCE CHECK LIST	

CAR-OPS 1 provision	S	U/S	N/A	Comment
SUBPART K INSTRUMENTS AND EQUIPMENT				
(d) An operator may operate an aeroplane that is not				
equipped with an ADF or with the navigation				
equipment specified in sub-paragraph(s) (c)(1)(vi)				
and/or (c)(1)(vii) above, provided that it is equipped				
with alternative equipment authorised, for the route				
being flown, by the Authority. The reliability and the				
accuracy of alternative equipment must allow safe				
navigation for the intended route.				
(e) When operating in regional airspace requiring FM				
immunity performance standards, an operator shall				
ensure that VHF communication equipment, ILS				
Localiser and VOR receivers installed on aeroplanes				
to be operated in IFR are of a type that has been				
approved as complying with the FM immunity performance standards (See AC OPS 1.865(e)).				
CAR-OPS 1.866 Transponder equipment				
(a) An operator shall not operate an aeroplane				
unless it is equipped with;				
(1) A pressure altitude reporting SSR (secondary				
surveillance radar) transponder which operates in				
accordance with the relevant provisions of Annex 10,				
Volume IV; and				
(2) any other SSR transponder capability required for				
the area/route being flown.				
CAR-OPS 1.867 ADS-B (OUT and IN)				
ADS-B means automatic dependent surveillance -				
broadcast, a surveillance technique in which aircraft				
automatically provide, via a data link, data derived				
from on-board navigation and position-fixing				
systems. It refers to a surveillance technology where				
ADS-B Out equipped aircraft broadcast position,				
altitude, velocity, and other information in support				
of both air-to-ground and air-to-air surveillance				
applications.				
(a) ADS-B OUT: An operator shall not operate an				
aeroplane under IFR after 01 January 2020, unless it				
is equipped with ADS-B OUT.				
(b) ADS-B IN: An operator shall not operate an				
aeroplane equipped with the ADS-B IN capability				
unless approved by the GCAA.				
CAR-OPS 1.870 Additional navigation equipment for				
operations in MNPS airspace				



SECTION:	AIRWORTHINESS FORMS	GTF-COR-004
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CAR-OPS 1 provision		U/S	N/A	Comment
SUBPART K INSTRUMENTS AND EQUIPMENT				
 (a) An operator shall not operate an aeroplane in MNPS airspace unless it is equipped with navigation equipment that complies with minimum navigation performance specifications prescribed in ICAO Doc 7030 in the form of Regional Supplementary Procedures. (b) The navigation equipment required by this paragraph must be visible and usable by either pilot seated at his duty station. (c) For unrestricted operation in MNPS airspace an aeroplane must be equipped with two independent Long Range Navigation Systems (LRNS). (d) For operation in MNPS airspace along notified special routes an aeroplane must be equipped with one Long Range Navigation 				
System (LRNS), unless otherwise specified.				
CAR-OPS 1.872 Equipment for operation in defined airspace with RVSM				
 An operator shall ensure that aeroplanes operated in RVSM airspace are equipped with: (1) Two independent altitude measurement systems; (2) An altitude alerting system; (3) An automatic altitude control system; and (4) A secondary surveillance radar (SSR) transponder with altitude reporting system that can be connected to the altitude measurement system in use for altitude keeping. 				