

GUERNSEY AVIATION REQUIREMENTS (GARs)





PART 91 PART 121 and PART 135 GENERAL OPERATING INSTRUCTIONS and COMMERCIAL AIR TRANSPORT OPERATIONS

BAILIWICK OF GUERNSEY

Director of Civil Aviation

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Second issue	August 2016

This second issue:

- incorporates amendments to ICAO Annex 6, Parts I and III that become effective in November 2016;
- introduces corrections and additions pursuant the April 2016 audit by the UK CAA against ICAO standards;
- deletes some requirements that are not based on a Standard but a Recommended Practice;
- contains editorial corrections and layout improvements.

ICAO compliance:

This second issue incorporates ICAO standards of:

- Annex 6, Part I at amendment 40-A;
- Annex 6, Part II at amendment 34-A;
- Annex 6, Part III at amendment 20-A.

The definitive version of GARs is on the States of Guernsey website <u>http://www.gov.gg/gars</u> which should be viewed to establish the latest issue of each Part.

Enquiries regarding the content of this publication should be addressed to the Director of Civil Aviation, Guernsey Airport, Airport Terminal Building, La Villiaze, Forest, Guernsey, GY8 0DS.

Processing of applications will be done by the Guernsey Aircraft Registry. For further information consult <u>http://www.2-reg.com/</u> or send a message to <u>info@2-reg.com</u>.

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Revisions

GAR Issue	Subject
Issue 1	First issue
Issue 2	 editorial and layout changes; removal of the symbol • in various places. substantive changes to: .35 – aircraft operating on a Guernsey AOC to be registered in Guernsey; .240 – aerodrome operating minima to be approved by the Director; .610(b) – MEL required for Part 135 operations without exception; .910(a) - allowing flight crew to hold licence validations; Subpart K and Appendix F - requirements added for FRMS. incorporation of Amdt 40-A of ICAO Annex 6, Part I, affecting: 91.670 Communication equipment; 91.675 Navigation equipment
	 (including deletion of requirement for approval for most PBN categories); 91.677 Surveillance equipment; 91.705 ELT; 91.707 Location of aircraft in distress; 121.760 CVR recording time; 121.767 Flight recorder data recovery; removel of requirements that are based of ICAO recommended practices: .620 Flight compartment door; .770 GPWS

Part 91			Requirement	Part 135			Requirement	Part 121		Requirement
				9			Subpart A – General			
91.1			Purpose	135.1			Purpose	121.1		Purpose
							Note: in this column presentation of GAR 91, GAR 135 and GAR 121, all GAR 91 paragraphs also apply to GAR 135, except when in the same row a different GAR 135 requirement appears in this column, which then applies and overrules the corresponding GAR 91 requirement, or where the symbol • appears, in which case the corresponding GAR 91 requirement does not apply. Notes are not considered to be paragraphs.			Note: in this column presentation of GAR 91, GAR 135 and GAR 121, all GAR 91 paragraphs also apply to GAR 121, except when in the same row a different GAR 121 requirement appears in this column, which then applies and overrules the corresponding GAR 91 requirement, or where the symbol • appears, in which case the corresponding GAR 91 requirement does not apply. Notes are not considered to be paragraphs.
	а		The requirements of this Part cover operation and piloting of aircraft, the arrangements for the planning and preparation for flight, and the maintenance and equipment of aircraft.							
	b		These Requirements constitute instructions given by the Director under section 39 of the Air Navigation (Bailiwick of Guernsey) Law, 2012 ("the Law"). These Requirements are not in themselves Law. Failure to comply with these Instructions may constitute an offence under and in accordance with article 74 and the provisions of article 185(1) of the Law. These Requirements encompass and amplify many of the provisions of the Law, including the Rules of the Law set out in Schedule 4 to the Law. Therefore, failure to comply with these Requirements may:							
		1	constitute a breach of one or more							
		2	provisions of the Law; and result in proceedings for breaches of the		+	-				
		3	Law; or result in the refusal of an application for renewal of a certificate; or result in action to suspend or revoke a certificate							
	d		The Law establishes the basic legal obligations governing the operation and piloting of aircraft, the planning and preparation for flight and the maintenance and equipment of aircraft but specifies these obligations in rather general terms. Therefore Section 135 of the Law requires the Director to publish Requirements to augment, amplify and detail more precisely the manner in which these obligations shall be met. The Requirements are the means by which the operator of an aircraft or the pilot will be able to satisfy the Director as to the fulfilment of the obligations in respect of the operation of an aircraft or their respective entitlement to hold a certificate. The issue of a certificate indicates only that the holder is considered competent to secure the safe operation of aircraft. The possession of such a document does not relieve the operator of an aircraft, or the pilot-in-command, from the responsibility for compliance with the Law and any other legislation in force. Neither does it relieve them of their responsibility for the safe conduct of any particular flight, as the ultimate responsibility for the safety of flight operations always rests with the operator and the pilot-in-command.							
	e		Other GAR Parts may impinge upon activities conducted under this Part. In particular, Part 1 contains definitions which apply, unless otherwise stated, to all Parts. A full list of GAR Parts, a description of the legislative structure and the place of GARs and Guernsey Aviation Circulars (GACs) within it can be							

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			viewed on the website								
91.5			http://www.gov.gg/gars. Applicability	135.5			Applicability	121.5			Applicability
							For commercial air transport operations using aircraft registered in Guernsey the operator shall:				For commercial air transport operations using aircraft registered in Guernsey the operator shall:
					а		hold an air operator certificate as		а		hold an air operator certificate as
					b	1	described in Part 119; and ensure that the requirements of Part 91 and this Part are applied to: an aeroplane having:		b	1	described in Part 119; andensure that the requirements of Part 91and this Part are applied to:an aeroplane having a maximumapproved passenger seatingconfiguration of more than 19, or aMTOM of more than 5,700 kg.
						i	a maximum approved passenger seating configuration not exceeding 19; and a MTOM of 5,700 kg or less; or				
						2	a helicopter				
	а		Unless stated otherwise, this Part applies to:								
		1 2	the owner, the charterer by demise or where an aircraft is leased, the lessee of an aircraft registered in Guernsey, wherever such an aircraft may be; and all aircraft operating or navigating within Guernsey; and								
		3	the crew of all such aircraft.								
			Note 1: Additional requirements are applicable to General Aviation operations involving aircraft registered in Guernsey of the classes or used in the cases identified in GAR Part 125.								
			Note 2: Commercial air transport operations involving aircraft registered in Guernsey are subject to the additional requirements in GAR Parts 119, 121 and 135, as applicable.								
			Note 3: Commercial air transport operations involving foreign-registered aircraft are subject to permission from the Secretary of State.								
91.10			Use of English								
04.45			All documentation, written communications and data (electronic or otherwise) for submission to the Director in support of an application for a certificate shall be provided in English.	125.15				121.15			
91.15	а		Laws, requirements and procedures The holder of a certificate, licence,	135.15			Laws, requirements and procedures	121.15			Laws, requirements and procedures
	b		permit or approval shall take reasonable care to ensure that all persons employed, engaged, or contracted by the holder to perform safety-related activities, are familiar with and comply with the laws, regulations and procedures necessary to the performance of their duties. The pilot-in-command shall comply with the laws, regulations and procedures of those States in which operations are conducted.								
	c		The pilot-in-command shall be familiar with the laws, regulations and procedures, pertinent to the performance of his or her duties, prescribed for the areas to be traversed, the aerodromes to be used and the air navigation facilities relating thereto. The pilot-in- command shall ensure that other members of the flight crew are familiar with such of these laws, regulations and procedures as are pertinent to the performance of their respective duties in the operation of the aircraft.								
							The operator shall ensure that all flight crew are familiar with and comply with the laws, regulations and procedures				The operator shall ensure that all flight crew are familiar with and comply with the laws, regulations and procedures
							necessary to a flight, including but not limited to the following:				necessary to a flight, including but not limited to the following:

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					b		the relevant Guernsey Aviation Requirements; and		b		the relevant Guernsey Aviation Requirements; and
					с		any applicable conditions on the		С		any applicable conditions on the
					4		operator's approval; and the procedures specified in the		4		operator's approval; and the procedures specified in the
					d		operator's required documentation; and		d		operator's required documentation; and
					e		such laws, regulations and procedures that may be relevant in those States in which the operation is to be conducted, including in particular those flight procedures and obstacle clearance criteria that may differ from those established by PANS-OPS; and		e		such laws, regulations and procedures that may be relevant in those States in which the operation is to be conducted including in particular those flight procedures and obstacle clearance criteria that may differ from those established by PANS-OPS; and
					f		procedures required at any aerodrome planned to be used as a destination or as an alternate, and procedures for air navigation facilities relating to such aerodromes.		f		procedures required at any aerodrome planned to be used as a destination or a an alternate, and procedures for air navigation facilities relating to such aerodromes.
91.20			More stringent requirements								
			The pilot-in-command of a Guernsey- registered aircraft operating in:								
	а		a foreign state; or								
	b		international airspace under the control of a foreign State,								
			shall comply with this Part unless the application of a more stringent operating and flight rule of that State or of that airspace is required.								
91.25			Power to inspect The holder of a certificate, licence,								
			permit or approval shall ensure that any person authorised by the Director is allowed to board an aircraft, unless in the reasonable opinion of the pilot-in- command, the safety of the aircraft								
91.30			would thereby be endangered. Production of documentation and		+	-					
51.30			records								
	а	1	The holder of a certificate, licence, permit or approval shall: give any person authorised by the								
		1	Director access to any documentation relating to aircraft operations and the safety of aircraft in flight; and								
	b	2	produce all such documentation and records, when requested to do so by an authorised person, within a reasonable period of time. The pilot in command shall, within a								
			reasonable period of time of being requested to do so by an authorised person, produce to that person the documentation required to be carried on board.								
91.35			Aircraft airworthiness	135.35			Aircraft airworthiness	121.35			Aircraft airworthiness
			Except as authorised by the Director, an aircraft shall not fly unless:				The operator shall ensure that each aircraft operated has a valid certificate of airworthiness issued by the Beiliwick of Guernsey; and				The operator shall ensure that each aircraft operated has a valid certificate of airworthiness issued by the Bailiwicic of Guernsey; and
	а		it has a valid Certificate of Airworthiness issued by the State of Registry; or								•
	b		it has a valid Permit to Fly in accordance with GAR Part 21 Subpart P; and			-	•		_		•
91.40	С		the aircraft is operated in compliance with that document. Aircraft flight manual			а	the aircraft is operated in compliance with that document.		a		the aircraft is operated in compliance with that document.
			An aircraft shall be operated in compliance with the operating limitations specified in the aircraft flight manual, or an equivalent document approved by the Director.								
91.45			Documents to be carried	135.45			Documents to be carried	121.45			Documents to be carried
	а		A flight shall not be commenced unless the following documents are carried:		а		Notwithstanding 91.45, the operator shall ensure that the following documents are carried on each flight:		а		Notwithstanding 91.45, the operator shall ensure that the following documents are carried on each flight:
		1	the valid Certificate of Airworthiness; and			1	the valid Certificate of Airworthiness; and			1	the valid Certificate of Airworthiness; and
		2	the flight crew licences and validations,			2	the flight crew licences and validations of each member of the flight crew; and		t	2	the flight crew licences and validations of each member of the flight crew; and
			of each member of the flight crows and					1	1		
		3	of each member of the flight crew; and the aircraft radio licence; and			3	the aircraft radio licence; and			3	the aircraft radio licence; and

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		5	a copy of any approvals, permissions, authorisations or exemptions relevant to the flight; and			5	a certified true copy of the Air Operator Certificate and the Operations Speicfications; and			5	a certified true copy of the Air Operator Certificate and the Operations Speicfications; and
		6	a certified true copy of any transfer agreement under Article 83 bis of the Chicago Convention; and			6	a certified true copy of any transfer agreement under Article 83 bis of the Chicago Convention; and			6	a certified true copy of any transfer agreement under Article 83 bis of the Chicago Convention; and
		7	Certificate of Registration; and			7	Certificate of Registration; and			7	Certificate of Registration; and
		8	the journey log book or equivalent			8	the journey log book or equivalent			8	the journey log book or equivalent
		-	record; and			-	record; and			-	record; and
	b		Where such documents as required by		b		Where such documents as required by		b		Where such documents as required by
	~		paragraphs (a)(1), (a)(4) and (a)(7) are		Ĩ		paragraphs (a)(1), (a)(4) and (a)(7) are		Ĩ		paragraphs (a)(1), (a)(4) and (a)(7) are
			written in a language other than English,				written in a language other than English,				written in a language other than English
			an English translation shall be provided.				an English translation shall be provided.				an English translation shall be provided.
	с		Before any flight is commenced the		с		Before any flight is commenced the		с		Before any flight is commenced the
	Ľ		pilot-in-command shall ensure that the		Ľ		pilot-in-command shall ensure that the		C		pilot-in-command shall ensure that the
							•				
			documents listed in (a) are in force and				documents listed in (a) are in force and				documents listed in (a) are in force and
			will remain so for the duration of the				will remain so for the duration of the				will remain so for the duration of the
	<u> </u>		flight.		· ·		flight.		+ -		flight.
	d		The documents required by (a) shall be		d		The documents required by (a) shall be		d		The documents required by (a) shall be
			carried on each flight except that:				carried on each flight except that:				carried on each flight except that:
		1	where the flight is intended to begin and			1	where the flight is intended to begin and			1	where the flight is intended to begin and
			end at the same aerodrome; and				end at the same aerodrome; and				end at the same aerodrome; and
		2	the aerodrome is located in the Bailiwick			2	the aerodrome is located in the Bailiwick			2	the aerodrome is located in the Bailiwic
			of Guernsey; and				of Guernsey; and				of Guernsey; and
		3	the planned flight does not include			3	the planned flight does not include			3	the planned flight does not include
			passage over any other State				passage over any other State				passage over any other State
			the documents listed at (a) may be kept				the documents listed at (a) may be kept				the documents listed at (a) may be kept
			at the aerodrome of departure instead				at the aerodrome of departure instead				at the aerodrome of departure instead
			of being carried in the aircraft.				of being carried in the aircraft.				of being carried in the aircraft.
91.50			Manuals to be carried	135.50				121.50			Manuals to be carried
	-		A flight shall not be commenced unless		а		Notwithstanding 91.50, the operator		-		
	а		the following manuals are carried:		d		shall ensure that the following manuals		а		Notwithstanding 91.50, the operator shall ensure that the following manuals
			the following manuals are carried:								
	+	4	the flight menual families in fi			1	are carried on each flight:			~	are carried on each flight:
		1	the flight manual for the aircraft, or			1	the flight manual for the aircraft, or			1	the flight manual for the aircraft, or
			equivalent document.				other documents containing approved				other documents containing approved
							performance data and any other				performance data and any other
							information necessary for the operation				information necessary for the operation
							of the aircraft within the terms of its				of the aircraft within the terms of its
							certificate of airworthiness, unless these				certificate of airworthiness, unless these
							data are available in the operations				data are available in the operations
							manual; and				manual; and
						2	the operations manual, or those parts of			2	the operations manual, or those parts o
91.55			Additional information and forms to be	135.55			it that pertain to flight operations. Additional information and forms to be	121.55			it that apply to flight operations. Additional information and forms to be
51.55			carried	133.33			carried	121.55			carried
	а		A flight shall not be commenced unless		а		Notwithstanding 91.55, the operator		а		Notwithstanding 91.55, the operator
			the following additional information or				shall ensure that the following				shall ensure that the following
			forms are carried:				additional information or forms are				additional information or forms are
							carried on each flight:				carried on each flight:
					-					1	the operational flight plan; and
		1	such documentation as will enable the			1	the operational flight plan; and				
		1	pilot-in-command to record operational			1	the operational flight plan; and				
		1	pilot-in-command to record operational information; and			-				2	the technical log: and
		1	pilot-in-command to record operational information; and Note: This may include items such as the			1 2	the operational flight plan; and the technical log; and			2	the technical log; and
		1	pilot-in-command to record operational information; and Note: This may include items such as the operational flight plan, aircraft technical			-				2	the technical log; and
		1	pilot-in-command to record operational information; and Note: This may include items such as the			2	the technical log; and				
		1	pilot-in-command to record operational information; and Note: This may include items such as the operational flight plan, aircraft technical			2	the technical log; and details of the filed ATS flight plan; and			3	details of the filed ATS flight plan; and
		1	pilot-in-command to record operational information; and Note: This may include items such as the operational flight plan, aircraft technical			2	the technical log; and details of the filed ATS flight plan; and NOTAM and AIS briefing information				details of the filed ATS flight plan; and NOTAM and AIS briefing information
		1	pilot-in-command to record operational information; and Note: This may include items such as the operational flight plan, aircraft technical			2 3 4	the technical log; and details of the filed ATS flight plan; and NOTAM and AIS briefing information appropriate to the operation; and			3	details of the filed ATS flight plan; and NOTAM and AIS briefing information appropriate to the operation; and
		1	pilot-in-command to record operational information; and Note: This may include items such as the operational flight plan, aircraft technical			2	the technical log; and details of the filed ATS flight plan; and NOTAM and AIS briefing information appropriate to the operation; and meteorological information appropriate			3	details of the filed ATS flight plan; and NOTAM and AIS briefing information appropriate to the operation; and meteorological information appropriate
		1	pilot-in-command to record operational information; and Note: This may include items such as the operational flight plan, aircraft technical			2 3 4 5	the technical log; and details of the filed ATS flight plan; and NOTAM and AIS briefing information appropriate to the operation; and meteorological information appropriate to the operation; and			3 4 5	details of the filed ATS flight plan; and NOTAM and AIS briefing information appropriate to the operation; and meteorological information appropriate to the operation; and
		1	pilot-in-command to record operational information; and Note: This may include items such as the operational flight plan, aircraft technical			2 3 4	the technical log; and details of the filed ATS flight plan; and NOTAM and AIS briefing information appropriate to the operation; and meteorological information appropriate			3	details of the filed ATS flight plan; and NOTAM and AIS briefing information appropriate to the operation; and meteorological information appropriate
		2	pilot-in-command to record operational information; and Note: This may include items such as the operational flight plan, aircraft technical			2 3 4 5	the technical log; and details of the filed ATS flight plan; and NOTAM and AIS briefing information appropriate to the operation; and meteorological information appropriate to the operation; and			3 4 5	details of the filed ATS flight plan; and NOTAM and AIS briefing information appropriate to the operation; and meteorological information appropriate to the operation; and
			pilot-in-command to record operational information; and Note: This may include items such as the operational flight plan, aircraft technical log etc.			2 3 4 5	the technical log; and details of the filed ATS flight plan; and NOTAM and AIS briefing information appropriate to the operation; and meteorological information appropriate to the operation; and mass and balance documentation; and			3 4 5 6	details of the filed ATS flight plan; and NOTAM and AIS briefing information appropriate to the operation; and meteorological information appropriate to the operation; and mass and balance documentation; and
			pilot-in-command to record operational information; and Note: This may include items such as the operational flight plan, aircraft technical log etc. for an international flight, passenger and			2 3 4 5	the technical log; and details of the filed ATS flight plan; and NOTAM and AIS briefing information appropriate to the operation; and meteorological information appropriate to the operation; and mass and balance documentation; and			3 4 5 6	details of the filed ATS flight plan; and NOTAM and AIS briefing information appropriate to the operation; and meteorological information appropriate to the operation; and mass and balance documentation; and
		2	pilot-in-command to record operational information; and Note: This may include items such as the operational flight plan, aircraft technical log etc.			2 3 4 5 6 7	the technical log; and details of the filed ATS flight plan; and NOTAM and AIS briefing information appropriate to the operation; and meteorological information appropriate to the operation; and mass and balance documentation; and passenger and cargo manifests; and			3 4 5 6 7	details of the filed ATS flight plan; and NOTAM and AIS briefing information appropriate to the operation; and meteorological information appropriate to the operation; and mass and balance documentation; and passenger and cargo manifests; and
		2	pilot-in-command to record operational information; and Note: This may include items such as the operational flight plan, aircraft technical log etc.			2 3 4 5 6 7	the technical log; and details of the filed ATS flight plan; and NOTAM and AIS briefing information appropriate to the operation; and meteorological information appropriate to the operation; and mass and balance documentation; and passenger and cargo manifests; and			3 4 5 6 7	details of the filed ATS flight plan; and NOTAM and AIS briefing information appropriate to the operation; and meteorological information appropriate to the operation; and mass and balance documentation; and passenger and cargo manifests; and
		2	pilot-in-command to record operational information; and Note: This may include items such as the operational flight plan, aircraft technical log etc. for an international flight, passenger and cargo manifests; and any specific approval issued by the State of Registry, if applicable, for the			2 3 4 5 6 7	the technical log; and details of the filed ATS flight plan; and NOTAM and AIS briefing information appropriate to the operation; and meteorological information appropriate to the operation; and mass and balance documentation; and passenger and cargo manifests; and			3 4 5 6 7	details of the filed ATS flight plan; and NOTAM and AIS briefing information appropriate to the operation; and meteorological information appropriate to the operation; and mass and balance documentation; and passenger and cargo manifests; and
		2	pilot-in-command to record operational information; and Note: This may include items such as the operational flight plan, aircraft technical log etc. for an international flight, passenger and cargo manifests; and any specific approval issued by the State of Registry, if applicable, for the operation(s) to be conducted; and current and suitable charts to cover the			2 3 4 5 6 7 8	the technical log; and details of the filed ATS flight plan; and NOTAM and AIS briefing information appropriate to the operation; and meteorological information appropriate to the operation; and mass and balance documentation; and passenger and cargo manifests; and notification of any dangerous goods; and current and suitable charts to cover the			3 4 5 6 7 8	details of the filed ATS flight plan; and NOTAM and AIS briefing information appropriate to the operation; and meteorological information appropriate to the operation; and mass and balance documentation; and passenger and cargo manifests; and notification of any dangerous goods; an current and suitable charts to cover the
		2	pilot-in-command to record operational information; and Note: This may include items such as the operational flight plan, aircraft technical log etc. for an international flight, passenger and cargo manifests; and any specific approval issued by the State of Registry, if applicable, for the operation(s) to be conducted; and current and suitable charts to cover the route of the proposed flight and any			2 3 4 5 6 7 8	the technical log; and details of the filed ATS flight plan; and NOTAM and AIS briefing information appropriate to the operation; and meteorological information appropriate to the operation; and mass and balance documentation; and passenger and cargo manifests; and notification of any dangerous goods; and current and suitable charts to cover the route of the proposed flight and any			3 4 5 6 7 8	details of the filed ATS flight plan; and NOTAM and AIS briefing information appropriate to the operation; and meteorological information appropriate to the operation; and mass and balance documentation; and passenger and cargo manifests; and notification of any dangerous goods; ar current and suitable charts to cover the route of the proposed flight and any
		2	pilot-in-command to record operational information; and Note: This may include items such as the operational flight plan, aircraft technical log etc. for an international flight, passenger and cargo manifests; and any specific approval issued by the State of Registry, if applicable, for the operation(s) to be conducted; and current and suitable charts to cover the route of the proposed flight and any route along which it is reasonable to			2 3 4 5 6 7 8	the technical log; and details of the filed ATS flight plan; and NOTAM and AIS briefing information appropriate to the operation; and meteorological information appropriate to the operation; and mass and balance documentation; and passenger and cargo manifests; and notification of any dangerous goods; and current and suitable charts to cover the route of the proposed flight and any route along which it is reasonable to			3 4 5 6 7 8	details of the filed ATS flight plan; and NOTAM and AIS briefing information appropriate to the operation; and meteorological information appropriate to the operation; and mass and balance documentation; and passenger and cargo manifests; and notification of any dangerous goods; ar current and suitable charts to cover the route of the proposed flight and any route along which it is reasonable to
		2	pilot-in-command to record operational information; and Note: This may include items such as the operational flight plan, aircraft technical log etc. for an international flight, passenger and cargo manifests; and any specific approval issued by the State of Registry, if applicable, for the operation(s) to be conducted; and current and suitable charts to cover the route of the proposed flight and any route along which it is reasonable to expect that the flight may be diverted;			2 3 4 5 6 7 8	the technical log; and details of the filed ATS flight plan; and NOTAM and AIS briefing information appropriate to the operation; and meteorological information appropriate to the operation; and mass and balance documentation; and passenger and cargo manifests; and notification of any dangerous goods; and current and suitable charts to cover the route of the proposed flight and any route along which it is reasonable to expect that the flight may be diverted;			3 4 5 6 7 8	details of the filed ATS flight plan; and NOTAM and AIS briefing information appropriate to the operation; and meteorological information appropriate to the operation; and mass and balance documentation; and passenger and cargo manifests; and notification of any dangerous goods; an current and suitable charts to cover the route of the proposed flight and any route along which it is reasonable to expect that the flight may be diverted;
		2	pilot-in-command to record operational information; and Note: This may include items such as the operational flight plan, aircraft technical log etc. for an international flight, passenger and cargo manifests; and any specific approval issued by the State of Registry, if applicable, for the operation(s) to be conducted; and current and suitable charts to cover the route of the proposed flight and any route along which it is reasonable to expect that the flight may be diverted; and			2 3 4 5 6 7 8	the technical log; and details of the filed ATS flight plan; and NOTAM and AIS briefing information appropriate to the operation; and meteorological information appropriate to the operation; and mass and balance documentation; and passenger and cargo manifests; and notification of any dangerous goods; and current and suitable charts to cover the route of the proposed flight and any route along which it is reasonable to expect that the flight may be diverted; and			3 4 5 6 7 8	details of the filed ATS flight plan; and NOTAM and AIS briefing information appropriate to the operation; and meteorological information appropriate to the operation; and mass and balance documentation; and passenger and cargo manifests; and notification of any dangerous goods; ar current and suitable charts to cover the route of the proposed flight and any route along which it is reasonable to expect that the flight may be diverted; and
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		2 3 4	pilot-in-command to record operational information; and Note: This may include items such as the operational flight plan, aircraft technical log etc. for an international flight, passenger and cargo manifests; and any specific approval issued by the State of Registry, if applicable, for the operation(s) to be conducted; and current and suitable charts to cover the route of the proposed flight and any route along which it is reasonable to expect that the flight may be diverted; and Note: Charts may be any approved representation. essential data relating to the search and rescue facilities in the areas in which the flight will be operated including the ground-air signal codes; and for an international flight, a copy of the			2 3 4 5 6 7 8 9 9	the technical log; and details of the filed ATS flight plan; and NOTAM and AIS briefing information appropriate to the operation; and meteorological information appropriate to the operation; and mass and balance documentation; and passenger and cargo manifests; and notification of any dangerous goods; and current and suitable charts to cover the route of the proposed flight and any route along which it is reasonable to expect that the flight may be diverted; and <i>Note: Charts may be any approved</i> <i>representation.</i> essential data relating to the search and rescue facilities in the areas in which the flight will be operated including the ground-air signal codes; and a copy of the notified procedures to be			3 4 5 7 8 8 9 9	details of the filed ATS flight plan; and NOTAM and AIS briefing information appropriate to the operation; and meteorological information appropriate to the operation; and mass and balance documentation; and passenger and cargo manifests; and notification of any dangerous goods; ar current and suitable charts to cover the route of the proposed flight and any route along which it is reasonable to expect that the flight may be diverted; and <i>Note: Charts may be any approved</i> <i>representation.</i> essential data relating to the search and rescue facilities in the areas in which the flight will be operated including the ground-air signal codes; and a copy of the notified procedures to be
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		2 3 4	pilot-in-command to record operational information; and Note: This may include items such as the operational flight plan, aircraft technical log etc. for an international flight, passenger and cargo manifests; and any specific approval issued by the State of Registry, if applicable, for the operation(s) to be conducted; and current and suitable charts to cover the route of the proposed flight and any route along which it is reasonable to expect that the flight may be diverted; and Note: Charts may be any approved representation. essential data relating to the search and rescue facilities in the areas in which the flight will be operated including the ground-air signal codes; and for an international flight, a copy of the notified procedures to be followed by the pilot-in-command of an intercepted			2 3 4 5 6 7 8 9 9	the technical log; and details of the filed ATS flight plan; and NOTAM and AIS briefing information appropriate to the operation; and meteorological information appropriate to the operation; and mass and balance documentation; and passenger and cargo manifests; and notification of any dangerous goods; and current and suitable charts to cover the route of the proposed flight and any route along which it is reasonable to expect that the flight may be diverted; and Note: Charts may be any approved representation. essential data relating to the search and rescue facilities in the areas in which the flight will be operated including the ground-air signal codes; and a copy of the notified procedures to be followed by the pilot-in-command of an			3 4 5 7 8 8 9 9	details of the filed ATS flight plan; and NOTAM and AIS briefing information appropriate to the operation; and meteorological information appropriate to the operation; and mass and balance documentation; and passenger and cargo manifests; and notification of any dangerous goods; ar current and suitable charts to cover the route of the proposed flight and any route along which it is reasonable to expect that the flight may be diverted; and <i>Note: Charts may be any approved representation.</i> essential data relating to the search an- rescue facilities in the areas in which the flight will be operated including the ground-air signal codes; and a copy of the notified procedures to be followed by the pilot-in-command of ar intercepted aircraft, and the notified

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91.60	\bigsqcup		Correcting lenses								
			Any flight crew member assessed as fit								
			to exercise the privileges of a licence subject to the use of suitable correcting								
			lenses, shall have a spare set of								
			spectacles readily available when								
			exercising those privileges.								
91.65			Radio licences								
			Where an aircraft is fitted with radio								
			transmitting equipment, such equipment shall be operated only by								
			crew members who are appropriately								
			qualified.								
91.70			Ground operation of aircraft								
	а		An aeroplane shall not be taxied on the								
			movement area of an aerodrome unless								
			the person at the controls is an								
		1	appropriately qualified pilot or:		_						
		1	has been duly authorised and briefed by the operator;								
		2	is fully competent to taxi the aeroplane								
		3	is qualified to use the radio telephone if								
		5	radio communications are required; and								
		4	has received instruction from a								
			competent person in respect of								
			aerodrome layout, and where								
			appropriate, information on routes, signs, marking, lights, ATC signals and								
			instructions, phraseology and				1				
			procedures, and is able to conform to								
			the operational standards required for								
			safe aeroplane movement at the								
			aerodrome.		_						
	b		A helicopter rotor shall not be turned under power, for the purpose of flight,								
			without a qualified pilot at the controls.								
	с		A helicopter rotor shall not be turned								
			under power, for other than purpose of								
	$\left \right $		flight unless the person at the controls:								
		1	has been duly authorised and briefed;								
		2	has been provided with training and procedures to be followed.								
91.75			Portable electronic devices								
	а		No person may operate on any aircraft								
	ŭ		any mobile or cell phone, computer or								
			other electronic device that is designed								
			to transmit or capable of transmitting								
			electromagnetic energy otherwise than								
			in accordance with the permission of the pilot-in-command of that aircraft.								
	b		Paragraph (a) shall not apply to								
	~	1	hearing aids; and							-	
		2	heart pacemakers; and								
	$\left \right $	3	portable voice recorders; and		+	-			+		
	╞┼┤	4	electric shavers; and			1			+		
		5	electronic watches; and			1			+		
	╞┼┤	6	any other portable electronic device if		\vdash				\vdash		
			the operator or pilot-in-command of the								
			aircraft has determined that the said								
			portable electronic device to be used								
			will not cause interference with any aircraft system or equipment of the								
			aircraft on which it is used								
91.80			Flight instruction and testing					1	1		
	╞┼┤		No person shall give flight instruction in		\vdash				\vdash		
			an aircraft, except a balloon, unless that								
			aircraft is equipped with fully			1					
04 07	$\left \right $		functioning dual controls.	405.05				404.07	-		
91.85	\square		Common language	135.85			Common language	121.85			Common language
			The pilot-in-command shall ensure that:				The operator shall ensure that:				The operator shall ensure that:
	1		flight crew members demonstrate the		а		all crew members can communicate in				all crew members can communicate in
			ability to speak and understand the				the English language.				the English language.
			language used for aeronautical radiotelephony communications as								
			specified in ICAO Annex 1.								
					b		all operations personnel are able to	1	\vdash		all operations personnel are able to
	1 1						communicate in English.				communicate in English.
				405.00		1	Information on an an an an an an and an inde	121.90	1	1	
91.90			Information on emergency and survival	135.90			Information on emergency and survival	121.50			
91.90	а		Information on emergency and survival equipment carried The holder of a certificate shall have	135.90			equipment carried The operator shall have available, for	121.90			Information on emergency and surviva equipment carried The operator shall have available, for

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			to rescue co-ordination centres, information on the emergency and survival equipment carried on board each of its aircraft.			ordination centres, information on the emergency and survival equipment carried on board each of its aircraft.			ordination centres, information on the emergency and survival equipment carried on board each of its aircraft.
	b		For flights over-water the information shall, where such equipment is carried, include:						
		1	the number, colour, and type of life rafts; and type of pyrotechnics carried; and						
		3 4	details of emergency medical supplies and water supplies; and the type and operating frequencies of any emergency portable radio						
			equipment.						
91.95			Stowage of baggage and cargo	135.95		Stowage of baggage and cargo	121.95		Stowage of baggage and cargo
	а		Baggage or cargo shall not be carried in an aircraft unless it is:			The operator shall specify procedures to ensure that all baggage carried onto an aircraft and taken into the passenger cabin is adequately and securely stowed.			The operator shall specify procedures to ensure that all baggage carried onto an aircraft and taken into the passenger cabin is adequately and securely stowed.
		1	stowed and restrained in accordance with any instructions given in the aircraft flight manual; and			•			•
		2	packaged to avoid injury to any person on board.			•			•
	b	1	The pilot-in-command shall not permit any baggage or cargo carried to: exceed the load limitation for the seats, berths, or floor structure as prescribed by the aircraft flight manual, or by placards; or						
		2	be located in a position that restricts the access to or use of any required emergency exit; or						
91.100		3	be located in a position where it may restrict access to any flight control or part of the aircraft cockpit, or may restrict visibility of any flight instrument. Carriage of dangerous goods	135.100		Carriage of dangerous goods	121.100		Carriage of dangerous goods
91.100			Dangerous goods shall not be loaded on	135.100			121.100		
	а		or carried in an aircraft unless: such dangerous goods are carried in accordance with the approval in writing of the Director; and						
	b		the conditions of carriage of dangerous goods meet the requirements of the Air Navigation Law, Schedule 5.						
					С	The operator shall ensure that no dangerous goods are loaded or carried on an aircraft except in accordance with approved procedures.		C	The operator shall ensure that no dangerous goods are loaded or carried on an aircraft except in accordance with approved procedures.
91.105	а		Carriage of weapons and munitions of war A flight carrying weapons or munitions of war shall be commenced only:	135.105		Carriage of weapons and munitions of war The operator shall ensure that no weapons and munitions of war are carried on an aircraft except in accordance with approved procedures.	121.105		Carriage of weapons and munitions of war The operator shall ensure that no weapons and munitions of war are carried on an aircraft except in accordance with approved procedures.
		1	with the written permission of the Director and in accordance with any conditions contained in the permission; and			•			•
		2 i	provided that details in writing of the: type, mass or quantity of any such weapon or munitions; and			 •			•
		ii	any conditions of the permission for carriage; and			 •			•
		iii	the location of the weapons or munitions; are carried on board the aircraft.			 •			•
91.110			Carriage of sporting weapons and ammunition	135.110		Carriage of sporting weapons and ammunition	121.110		Carriage of sporting weapons and ammunition
	a		A flight, with sporting weapons on board, shall not be commenced unless request for carriage has been made in advance.			The operator shall ensure that:			The operator shall ensure that:
	b		Sporting weapon accepted for carriage shall be:		а	written details of any sporting weapons and/or ammunition have been provided by the person requesting carriage of the item, before the item is taken on board the aircraft; and		а	written details of any sporting weapons and/or ammunition have been provided by the person requesting carriage of the item, before the item is taken on board the aircraft; and

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		1	stowed in the aircraft in a place which is inaccessible to passengers during flight; unless the Director has determined that compliance is impractical and accepted that other procedures might apply; and		b		the pilot-in-command is informed in writing of the location, type, mass, and quantity of those items carried.		b		the pilot-in-command is informed in writing of the location, type, mass, and quantity of those items carried.
		2	unloaded in the case of firearms or other weapons that can contain ammunition.				•				•
			Note: Ammunition for sporting weapons may be contained in baggage, subject to certain limitations, in accordance with the Air Navigation Law, Schedule 5.								
				135.115			Electronic navigation data management	121.115			Electronic navigation data management
					а		The operator shall not use electronic navigation data products unless procedures have been approved by the Director to ensure that:		а		The operator shall not use electronic navigation data products unless procedures have been approved by the Director to ensure that:
							the process applied and the products delivered have met acceptable standards of integrity; and			1	the process applied and the products delivered have met acceptable standards of integrity; and
						2	the products are compatible with the intended function of the equipment that will use them. Note: Guidance relating to the processes that data suppliers may follow is contained in RTCA DO200A/EUROCAE ED-76 and RTCA DO-201A/EUROCAE ED- 77.			2	the products are compatible with the intended function of the equipment that will use them. Note: Guidance relating to the processes that data suppliers may follow is contained in RTCA DO200A/EUROCAE ED-76 and RTCA DO-201A/EUROCAE ED- 77.
					b		The operator shall implement procedures to ensure the timely distribution and insertion of current and unaltered electronic navigation data to all aircraft requiring such data and shall continue to monitor both process and products.		b		The operator shall implement procedures to ensure the timely distribution and insertion of current and unaltered electronic navigation data to all aircraft requiring such data and shall continue to monitor both process and products.
91.120			Responsibilities of pilot-in-command								
	а		The responsibilities of the pilot-in- command shall include:								
		1	the safety and security of all persons on board the aircraft when the doors are closed;								
		2	the operation and safety of the aircraft from the moment the aircraft has started its engine(s) for the purpose of taking-off until the moment it finally comes to rest at the end of the flight and the engine(s) used as primary propulsion units are shut down and if applicable, the rotor blades stopped;								
		3	ensuring that a flight is not commenced if any flight crew member is prevented from performing his duties as a result of incapacitation by any cause such as injury, sickness, fatigue, or the effects of alcohol or drugs;								
		4	ensuring that a flight is not continued beyond the nearest suitable aerodrome or heliport when a required flight crew member's capacity to perform functions is significantly reduced by impairment of faculties from causes such as fatigue, sickness, or lack of oxygen;								
		5	reporting all known or suspected defects in the aircraft at the termination of the flight;								
		6 7	completion of the journey log book and any general declaration; preservation of flight recorder records and if necessary the associated flight recorders if the aircraft has been involved in an accident or incident;								
		8	notifying the appropriate local authority in the event that an emergency situation that necessitates action in violation of local regulations or procedures. The report shall be made as soon as possible, but in any event, not later than 72 hours after the incident. A copy of the report shall be submitted to the Director; the security of the aircraft during its operation; and								
		10	reporting any act of unlawful interference to the Director and to the designated local authority.								

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				135.125			Passenger safety	121.135			Passenger safety
					а	1	The operator shall ensure that: passengers are seated so that, in the event of an emergency evacuation, they will not hinder evacuation from the aircraft; and		а	1	The operator shall ensure that: passengers are seated so that, in the event of an emergency evacuation, they will not hinder evacuation from the aircraft; and
						2	any passenger who appears to be under the influence of alcohol or drugs or exhibits behavioural characteristics, to the extent where the safety of the aircraft or its occupants is likely to be endangered, is refused embarkation or, where appropriate, removed from the aircraft; and			2	any passenger who appears to be under the influence of alcohol or drugs or exhibits behavioural characteristics, to the extent where the safety of the aircraft or its occupants is likely to be endangered, is refused embarkation or, where appropriate, removed from the aircraft; and
						3	where carried, disabled passengers are appropriately cared for, including allocation of appropriate seating positions and handling assistance in the event of an emergency; and			3	where carried, disabled passengers are appropriately cared for, including allocation of appropriate seating positions and handling assistance in the event of an emergency; and passengers seated in any seat row next to an emergency exit are competent to operate the emergency exit, and have been briefed in their responsibilities; and
						4	escorted passengers do not constitute a safety hazard to other passengers or to the aircraft, and that prior arrangements for their carriage have been made in accordance with procedures specified in the operations manual; and			5	escorted passengers do not constitute a safety hazard to other passengers or to the aircraft, and that prior arrangements for their carriage have been made in accordance with procedures specified in the operations manual; and
										6	the senior cabin crew member, or the pilot-in-command, is notified when a disabled or escorted person is to be carried on board the aeroplane; and
						5	in the event of an emergency occurring in flight, passengers are instructed in such emergency action as may be appropriate to the circumstances.			7	in the event of an emergency occurring in flight, passengers are instructed in such emergency action as may be appropriate to the circumstances.
					b		Notwithstanding paragraph (a)(1), where an operation is conducted for the purpose of search and rescue or is an air ambulance operation, passengers may be carried who under other circumstances would not be permitted to be carried provided that reasonable action is taken by the operator to minimise the risk to the aircraft and its occupants from the carriage of such passengers.		b		Notwithstanding paragraph (a)(1), where an operation is conducted for the purpose of search and rescue or is an air ambulance operation, passengers may be carried who under other circumstances would not be permitted to be carried provided that reasonable action is taken by the operator to minimise the risk to the aircraft and its occupants from the carriage of such passengers.
91.128			Specific approvals The pilot-in-command shall not conduct operations for which a specific approval is required unless such approval has been issued by the State of Registry.				The operator shall ensure that no operations for which a specific approval is required are conducted unless such approval has been issued by the State of Registry.				The operator shall ensure that no operations for which a specific approval is required are conducted unless such approval has been issued by the State of Registry.
91.130	а		Passenger briefing A flight shall not be commenced unless passengers are made familiar with the location and use of:	135.130			Passenger briefing The operator shall ensure that, in addition to the passenger briefing requirements of 91.130:	121.130			Passenger briefingThe operator shall ensure that, in addition to the passenger briefing requirements of 91.130:
		1 2	seat belts or any other restraints; emergency exits;		а	1	passengers are instructed to fasten their seat belts: while the aircraft is moving on the ground; and		a	1	passengers are instructed to fasten their seat belts: while the aircraft is moving on the ground; and
		3 4	lifejackets if required to be carried; other emergency equipment provided for individual use, including passenger emergency briefing cards;			2 3	for each take-off; for each landing;			2 3	for each take-off: for each landing;
		5	flotation equipment, where carried; and oxygen dispensing equipment, if the use of oxygen is anticipated.			4 5	at any other time considered necessary by the pilot-in-command; and in the case of a helicopter, at any time that the rotors turn whilst on the ground			4	at any other time considered necessary by the pilot-in-command; and
	b		All passengers shall be made aware of the conditions under which smoking may be permitted.		b		ground. Passengers are informed, either by illuminated "No Smoking" signs or by approved "No Smoking" placards, when smoking is prohibited in the aircraft.		b		Passengers are informed, either by illuminated "No Smoking" signs or by approved "No Smoking" placards, when smoking is prohibited in the aircraft.
	С		All persons on board the aircraft shall be made aware of the location and general manner of use of the principal emergency equipment carried for use by passengers.		С		If illuminated "No Smoking" signs are installed in an aircraft, they shall be lit when smoking is prohibited.		С		If illuminated "No Smoking" signs are installed in an aircraft, they shall be lit when smoking is prohibited.

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	d e		During take off and landing and during such other times as may require it, all passengers on board the aircraft shall be secured in their seats by means of the seat belts or harnesses provided. In the event of an emergency occurring during flight, all persons on board shall be instructed in such emergency action as may be appropriate to the circumstances.		d		Where passenger emergency briefing cards are provided, these shall comply with Appendix 1 to 135.130.		d		Where passenger emergency briefing cards are provided, these shall comply with Appendix 1 to 121.130.
				135.135			Flight compartment	121.135			Flight compartment
							The operator shall ensure that:				The operator shall ensure that:
					а		no person, other than the flight crew		a		at least one forward-facing observer's seat is available in the flight compartment, that is suitable for use while conducting en-route inspections; and no person, other than the flight crew
					u	1	members assigned to the flight, is admitted to, or carried in, the flight compartment, or occupies a pilot seat, unless that person is permitted by the pilot-in-command, and is: an authorised representative of the			1	members assigned to the flight, is admitted to, or carried in, the flight compartment, or occupies a pilot seat, unless that person is permitted by the pilot-in-command, and is: an authorised representative of the
						T	Director; or			T	Director; or
						2	permitted by the holder of the air operator certificate in accordance with procedures specified in the operations manual.			2	permitted by the holder of the air operator certificate in accordance with procedures specified in the operations manual.
					b		all persons admitted to the flight compartment or occupying a pilot seat are familiarised with the appropriate safety procedures specified in the operations manual.		C		all persons admitted to the flight compartment or occupying a pilot seat are familiarised with the appropriate safety procedures specified in the operations manual.
91.140			Use and preservation of flight recorders	135.140			Use and preservation of flight recorders and records	121.140			Use and preservation of flight recorders
	а		and records On any flight on which one or more flight recorder systems is required to be carried:				The operator shall ensure, by use of appropriate procedures, that the requirements of 91.140 are met.				and recordsThe operator shall ensure, by use of appropriate procedures, that the requirements of 91.140 are met.
		1	in an aeroplane:								
		i	flight recorders shall be operated continuously from the time the first engine is started for the purpose of making a flight until the time the last engine is shut down after landing; and								
		ii	operational checks and evaluations of recordings from the flight recorder systems shall be conducted in accordance with ICAO Annex 6 Part I Appendix 8 or Part II Appendix 2.3 (as applicable), to ensure the continued								
		2	serviceability of the recorders. in a helicopter:								
		i	flight recorders shall be operated continuously from the time the rotors first turn for the purpose of making a flight until the rotors are next stopped; and								
		ii	operational checks and evaluations of recordings from the flight recorder systems shall be conducted in accordance with ICAO Annex 6 Part III Appendix 4, to ensure the continued serviceability of the recorders. Note 1: The checks referred to in (1)(ii) and (2)(ii) include, prior to the first flight of the day, that the built-in test features for the flight recorders and flight data acquisition unit (FDAU), when installed, shall be monitored by manual and/or automatic checks.								
	b		To preserve flight recorder records, flight recorders shall be de-activated upon completion of flight time following an accident or serious incident. The flight recorders shall not be re-activated before their disposition as determined in accordance with GAR Part 13.								
	С		In the event of a serious incident or accident, flight recorder records, and where possible the associated flight								

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		recorders, shall be retained in safe custody.			
	d	Documentation concerning FDR and ADRS parameters that is provided to accident investigating authorities shall be in electronic format and take account of industry specifications.			
		Note 2: Industry specification for documentation concerning flight recorder parameters may be found in the ARINC 647A, Flight Recorder Electronic Documentation, or equivalent document.			
91.145		Security			
	а	The pilot-in-command shall be responsible for the security of the aircraft during its operation.			
	b	Following an act of unlawful interference, the pilot-in-command shall submit a report of such an act to the designated local authority.			
		Note: In the context of this Chapter, the word "security" is used in the sense of prevention of acts of unlawful interference against civil aviation.			

	Appendix 1 to 121.130 / 135.130									
		Passenger emergency briefing cards								
		Passenger emergency briefing cards shall:								
а		be relevant to the aircraft in question;								
b		contain pictorial instructions on:								
	1	the brace position to be adopted in the event of an emergency landing; and								
	2	the method of use of the safety belts and safety harnesses as appropriate;								
С		contain pictorial information as to where:								
	1	emergency exits are to be found and instructions as to how they are to be used; and								
	2	the lifejackets, escape slides, liferafts and oxygen masks (if required to be provided) are to be found and instructions as to how they are to be used.								

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Part 91	Requirement	Part 135		Requirement	Part 121			Requirement
		9	Subpar	t B - Operational Procedures				
		135.150		Operations manual	121.150			Operations manual
				The operator shall:				The operator shall:
			a b	provide an operations manual containing all the instructions and information necessary for operations personnel to perform their duties; ensure that all staff members have ready access to the operations manual, or to those parts of the operations		a b		provide an operations manual containing all the instructions and information necessary for operations personnel to perform their duties; ensure that all staff members have ready access to the operations manual, or to those parts of the operations
			с	manual that relate to their duties; and ensure that the relevant parts of the operations manual are carried on each		с		manual that relate to their duties; and ensure that the relevant parts of the operations manual are carried on each
				flight. Note: requirements for the contents of the Operations Manual are given in GAR				flight. Note: requirements for the contents of the Operations Manual are given in GAR
				135.1250 and its Appendix.				121.1250 and its Appendix.
91.155	Operational control Except as otherwise specified by the operator, the pilot-in-command shall be responsible for operational control.	135.155		Operational control The operator shall:	121.155			Operational control The operator shall:
			a	establish and maintain a method of operational control;		a		establish and maintain a method of operational control;
			b c	describe the system in the operations manual; ensure that operational control is		b c		describe the system in the operations manual; ensure that operational control is
			d	exercised over every flight; and ensure that operational control is only delegated to a flight operations officer/flight dispatcher or the pilot-in-		d		ensure that operational control is exercised over every flight; and ensure that operational control is only delegated to a flight operations officer/flight dispatcher or the pilot-in-
				command.				command.
		135.160		Duties of flight operations officer/flight dispatcher	121.160			Duties of flight operations officer/flight dispatcher
			а	A flight operations officer/flight dispatcher employed in conjunction with a method of control and supervision of flight operations shall:		а		A flight operations officer/flight dispatcher employed in conjunction with a method of control and supervision of flight operations shall:
			1	assist the pilot-in-command in flight preparation and provide the relevant			1	supervision of flight operations shall: assist the pilot-in-command in flight preparation and provide the relevant
			2	information; assist the pilot-in-command in preparing the operational and ATS flight plans (including identification of en-route alternates where appropriate), sign when applicable and file the ATS flight plan with the appropriate ATS unit, or designated representative; and			2	information; assist the pilot-in-command in preparing the operational and ATS flight plans (including identification of en-route alternates where appropriate), sign when applicable and file the ATS flight plan with the appropriate ATS unit, or designated representative; and
			4	furnish the pilot-in-command while in flight, by appropriate means, with information which may be necessary for the safe conduct of the flight. The information provided in (3) shall, for operations beyond 60 minutes from a point on a route to an en-route alternate aerodrome, include information on availability and meteorological conditions at such aerodromes for their expected time of use.			3	furnish the pilot-in-command while in flight, by appropriate means, with information which may be necessary for the safe conduct of the flight. The information provided in (3) shall, for operations beyond 60 minutes from a point on a route to an en-route alternate aerodrome, include information on availability and meteorological conditions at such aerodromes for their expected time of use.
			5 i	In the event of an emergency: initiate such procedures as outlined in the operations manual while avoiding taking any action that would conflict with ATC procedures;			5 i	In the event of an emergency: initiate such procedures as outlined in the operations manual while avoiding taking any action that would conflict with ATC procedures;
			ii	· · · · · · · · · · · · · · · · · · ·			ii	convey safety-related information to the pilot-in-command that may be necessary for the safe conduct of the flight, including information related to any amendments to the flight plan that become necessary in the course of the flight; and
		135.165		-	121.165		iii	if an emergency situation which endangers the safety of an aircraft or persons becomes known first to the flight operations officer/flight dispatcher, action by that person shall include, where necessary, notification to the appropriate authorities of the nature of the situation without delay, and requests for assistance if required. Competence of operations personnel

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1					а		The operator shall ensure that:		а		The operator shall ensure that:
						1	all personnel assigned to, or directly		-	1	all personnel assigned to, or directly
							involved in, ground and flight operations				involved in, ground and flight
							are properly instructed, have				operations are properly instructed, have
							demonstrated their abilities in their				demonstrated their abilities in their
							particular duties and are aware of their				particular duties and are aware of their
		1					responsibilities and the relationship of such duties to the operation as a whole.				responsibilities and the relationship of such duties to the operation as a whole.
						2	where contracted and sub-contracted			2	where contracted and sub-contracted
							staff are used by the operator to carry				staff are used by the operator to carry
							out functions that relate to the safety of				out functions that relate to the safety of
							aircraft, the operator shall ensure that				aircraft, the operator shall ensure that
							the relevant duties and accountabilities				the relevant duties and accountabilities
							of those staff are clearly defined by the operator. The operator shall also ensure				of those staff are clearly defined by the operator. The operator shall also ensure
							that the responsibilities of any				that the responsibilities of any
							contracting organisation and their staff				contracting organisation and their staff
							are clearly defined and confirmed within				are clearly defined and confirmed within
							the contract or agreement.				the contract or agreement.
						3	where operations personnel prepare an			3	where operations personnel prepare an
	$\left \right $	Ì				,	operational flight plan, those personnel:		-		operational flight plan, those personnel:
		1					are trained and competent to perform the task; and				are trained and competent to perform the task; and
						ii	are notified as soon as practicable of		+	ii	are notified as soon as practicable of
		1					relevant changes in equipment,				relevant changes in equipment,
		1					operating procedures or facilities,				operating procedures or facilities,
		1					including: changes to the use of				including: changes to the use of
		1					navigation aids, aerodromes, ATC				navigation aids, aerodromes, ATC
		1					procedures and regulations, local aerodrome traffic control rules, and				procedures and regulations, local aerodrome traffic control rules, and
							known hazards to flight including		1		known hazards to flight including
							potentially hazardous meteorological	_	1		potentially hazardous meteorological
							conditions and irregularities in ground		1		conditions and irregularities in ground
							and navigation facilities; and				and navigation facilities; and
						iii	have been provided, where necessary,			iii	have been provided, where necessary,
							with an aeroplane operating manual, for each aircraft type operated.		1		with an aeroplane operating manual, for each aircraft type operated.
	<u> </u>			135.170			Standard operating procedures	121.170			Standard operating procedures
					а		The operator shall provide and include	-	а		The operator shall provide and include
		1					in the operations manual, standard		Ĩ		in the operations manual, standard
							operating procedures for the use of		1		operating procedures for the use of
							aircraft crew and other operating staff				aircraft crew and other operating staff
	<u> </u>	<u> </u>			J.		for every aircraft type operated.				for every aircraft type operated.
					b		The standard operating procedures shall contain the normal, abnormal and		b		The standard operating procedures shall contain the normal, abnormal and
							emergency procedures relating to the				emergency procedures relating to the
							operation of aircraft.				operation of aircraft.
				135.175			Procedure compliance	121.175			Procedure compliance
							All operational personnel shall conform				All operational personnel shall conform
		1					with the applicable procedures specified				with the applicable procedures specified
							in the operations manual.				in the operations manual.
				135.180			Meteorological information	121.180			Meteorological information
							The operator shall ensure that:				The operator shall plan, perform, and
									1		control flights using meteorological
		1									information provided for aviation purposes. The sources of such
									1		meteorological information shall be
		1									assessed by the operator for their
											accuracy and reliability.
					а		each person responsible for commercial		_		
		1					air transport operations under VFR shall				
							plan, perform, and control flights using meteorological information that is		1		
							either:		1		
		1				1	provided for aviation purposes; or	1	1		
						2	provided from a source that has been	1	1		
		1					assessed by the operator for its				
					l		reliability and accuracy and				
									1	1	
							considered acceptable for the purpose				
					h		of the flight.				
					b		of the flight. each person performing an IFR				
					b		of the flight.				
					b		of the flight. each person performing an IFR commercial air transport operation shall plan, perform, and control flights using meteorological information provided for				
					b		of the flight. each person performing an IFR commercial air transport operation shall plan, perform, and control flights using meteorological information provided for aviation purposes.				
91.185			Pre-flight action	135.185	b		of the flight. each person performing an IFR commercial air transport operation shall plan, perform, and control flights using meteorological information provided for aviation purposes. Pre-flight action	121.185			Pre-flight action
91.185			Pre-flight action	135.185	b		of the flight. each person performing an IFR commercial air transport operation shall plan, perform, and control flights using meteorological information provided for aviation purposes. Pre-flight action The operator shall ensure that before	121.185			The operator shall ensure that before
91.185			Pre-flight action	135.185	b		of the flight. each person performing an IFR commercial air transport operation shall plan, perform, and control flights using meteorological information provided for aviation purposes. Pre-flight action The operator shall ensure that before each flight, information is available to	121.185			The operator shall ensure that before each flight, information is available to
91.185			Pre-flight action	135.185	b		of the flight. each person performing an IFR commercial air transport operation shall plan, perform, and control flights using meteorological information provided for aviation purposes. Pre-flight action The operator shall ensure that before	121.185			The operator shall ensure that before
91.185			Pre-flight action	135.185	b		of the flight. each person performing an IFR commercial air transport operation shall plan, perform, and control flights using meteorological information provided for aviation purposes. Pre-flight action The operator shall ensure that before each flight, information is available to the pilot-in-command to complete the	121.185			The operator shall ensure that before each flight, information is available to the pilot-in-command to complete the

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		The pilot-in-command shall, before								
		beginning a flight, obtain, become								
		familiar with and act on all information concerning that flight including the								
		following:								
	а	the current and forecast meteorological								
		information; and								
	b	the fuel and oil requirements for that								
		flight; and		-						
	С	all relevant details of the planned load; and								
	d	the alternatives available if the flight								
		cannot be completed as planned; and								
	е	any known or likely traffic delays that								
		have been notified by ATS; and								
	f	the status of the communication and								
		navigation facilities intended to be used; and								
	g	the current conditions of the aerodrome								
	Ũ	or heliport and runway lengths at								
		aerodromes of intended use; and								
	h	all airspace restrictions that may apply								
		on or adjacent to the planned route and alternatives available; and								
	i	any volcanic activity within the vicinity		-						
		of the planned route.								
91.190		Flight preparation	135.190			Flight preparation	121.190			Flight preparation
						The operator shall ensure, by use of				The operator shall ensure, by use of
						appropriate procedures, that no flight is				appropriate procedures, that no flight is
						commenced unless the requirements of 91.190 have been satisfied.				commenced unless the requirements of 91.190 have been satisfied.
		A flight shall not be commenced until			-					
		the pilot in command is satisfied that:								
	а	the aircraft is airworthy and in a								
		condition for safe flight;								
	b	the documents, manuals and additional								
		documents specified are on board the aircraft;								
	с	the instruments and equipment installed								
		on the aircraft are appropriate and in								
		accordance with Subpart F, taking into								
		account the expected flight conditions;		_						
	d	the instruments and equipment are in operable condition except as provided in								
		the MEL;								
	e	any necessary maintenance has been								
		carried out in accordance with Subpart								
		G;						_		
	t	the correct quantity and type of fuel has been loaded on the aircraft;								
	g	the flight can be safely made in								
	8	accordance with any given performance								
		data for the aircraft being operated;								
	h	the mass of the aircraft and centre of								
		gravity are such that the flight can be conducted safely, taking account of the								
		expected flight conditions;								
	i	any load carried is properly distributed								
		and safely secured;								
	j	the aircraft operating limitations,								
		contained in the flight manual, or equivalent, will not be exceeded; and								
	k	those parts of the aircraft that are			-			+		
		visible and accessible to him have been								
		inspected and/or checked.								
			135.195			Operational flight plan	121.195			Operational flight plan
						The operator shall ensure that:				The operator shall ensure that:
				а		an operational flight plan is completed		а		an operational flight plan is completed
				L.		for each flight or series of flights;		L		for each flight or series of flights;
				b		if the operational flight plan is prepared by a person other than the pilot-in-		b		if the operational flight plan is prepared by a person other than the pilot-in-
						command:				command:
					1	the person responsible has signed the			1	the person responsible has signed the
						operational flight plan document; and				operational flight plan document; and
					2	the pilot-in-command is advised of the			2	the pilot-in-command is advised of the
				-		contents of the operational flight plan.		-		contents of the operational flight plan.
				с		the pilot-in-command has approved the content and has signed the document;		С		the pilot-in-command has approved the content and has signed the document;
						and				and
				d		a certified copy of the operational flight		d		a certified copy of the operational flight
						plan is filed with the operator or				plan is filed with the operator or
						designated agent, or left with the				designated agent, or left with the

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					appropriate authority or on record in a			appropriate authority or on record in a
91.200		ATS flight plan	135.200		suitable place at the point of departure. ATS flight plan	121.200		suitable place at the point of departure ATS flight plan
91.200		A flight plan shall be submitted to an appropriate ATS unit, or its designated agent, prior to the start of each flight under VFR that proceeds over water more than 10 NM from shore, or is operating over any other remote or hazardous terrain.	133.200		An ATS flight plan shall be submitted to an appropriate ATS unit, or its designated agent, prior to each flight.			An ATS flight plan shall be submitted to an appropriate ATS unit, or its designated agent, prior to each flight.
		Note: This is in addition to any requirement to file an ATS flight plan contained in the Rules of the Air.						
			135.205		Operational changes in flight	121.205		Operational changes in flight
				a	The operator shall ensure that where there is a need to alter the operational flight plan of an aircraft in flight, and this alteration will require a change in the ATS flight plan, any changes shall be coordinated with the appropriate ATS unit before transmission to the pilot-in command of the aircraft.		a	The operator shall ensure that where there is a need to alter the operationa flight plan of an aircraft in flight, and this alteration will require a change in the ATS flight plan, any changes shall b coordinated with the appropriate ATS unit before transmission to the pilot-ir command of the aircraft.
				b	Notwithstanding paragraph (a) above, it remains the responsibility of the pilot- in-command to obtain any necessary ATC clearances before making operational changes to the aircraft's flight plan.		b	Notwithstanding paragraph (a) above, remains the responsibility of the pilot- command to obtain any necessary ATC clearances before making operational changes to the aircraft's flight plan.
91.210		Operating in icing conditions - ground procedures	135.210		Operating in icing conditions - ground procedures	121.210		Operating in icing conditions - ground procedures
		The pilot-in-command:			The operator shall ensure that a flight planned or expected to operate in suspected or known ground icing conditions shall not be commenced unless the aircraft has:			The operator shall ensure that a flight planned or expected to operate in suspected or known ground icing conditions shall not be commenced unless the aircraft has:
	а	shall not operate an aircraft in conditions where ground icing is known or suspected to be present, unless the aircraft has been inspected for icing and if necessary given such de-ice and anti- ice treatment as may be required;		a	been inspected for icing;		а	been inspected for icing;
	b	shall at no time perform a take-off in an aircraft that has snow, ice, or frost adhering to the wings, rotors, stabilisers, or control surfaces; and		b	where necessary, has been given appropriate de/anti-icing treatment; and		b	where necessary, has been given appropriate de/anti-icing treatment; and
	С	may only perform a take-off in an aircraft that has frost adhering to a propeller, windscreen, or powerplant installation if such action is specifically permitted by the aircraft flight manual and the takeoff is performed in		с	details of any de/anti-icing treatment recorded in the aircraft technical log.		С	details of any de/anti-icing treatment recorded in the aircraft technical log.
		accordance with the aircraft flight manual procedures.						
91.215		Operating in icing conditions - flight procedures	135.215		Operating in icing conditions - flight procedures	121.215		Operating in icing conditions - flight procedures
		A flight shall not be commenced nor intentionally flown into expected or actual icing conditions unless the aircraft is certificated and equipped to cope with such conditions.			The operator shall establish procedures for flight in expected or actual icing conditions if the aircraft is certificated and equipped to cope with such conditions.			The operator shall establish procedure for flight in expected or actual icing conditions if the aircraft is certificated and equipped to cope with such conditions.
91.220	a	Operating facilitiesA flight shall not be commenced unless it has been ascertained by every reasonable means available that the ground and/or water facilities including communication facilities and navigation aids available and directly required on such flight, for the safe operation of the aircraft, are adequate for the type of operation under which the flight is to be conducted.Any inadequacy of facilities observed in						
91.225		the course of operations shall be reported to the authority responsible for them, without undue delay. Use of aerodromes/operating sites	135.225		Use of aerodromes/operating sites	121.225		Use of aerodromes
	а	An aircraft shall not be operated at an		а	The operator shall: only authorise use of aerodromes that		a	The operator shall: only authorise use of aerodromes that
	a	aerodrome or operating site unless:		a	are adequate for the type(s) of aeroplane and operation(s) concerned;		a	are adequate for the type(s) of aeroplane and operation(s) concerned

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		1	the aerodrome or operating site is	b	as part of his safety management	b	as part of his safety management
			satisfactory, taking account of the		system, assess the level of rescue and		system, assess the level of rescue and
			physical characteristics of the place, the		fire fighting service (RFFS) protection		fire fighting service (RFFS) protection
			operating environment and the		available at any aerodrome intended to		available at any aerodrome intended to
			performance of the aircraft; and		be specified in the operational flight		be specified in the operational flight
					plan in order to ensure that an		plan in order to ensure that an
					acceptable level of protection is		acceptable level of protection is
					available for the aeroplane to be used;		available for the aeroplane to be used;
		2	for operations at an aerodrome, at the	с	ensure that any aerodrome or landing	с	ensure that any aerodrome to be used
		-	expected time of use the aerodrome will	Ũ	site to be used in its operations is	C	in its operations is described in Part C of
			be available and equipped with		described in Part C of the operations		the operations manual;
							the operations manual,
			necessary ancillary services.	<u> </u>	manual;		
			Note 1: Ancillary services include ATS,	d	ensure that information related to the	d	ensure that information related to the
			lighting, communications, weather		level of RFFS protection that is deemed		level of RFFS protection that is deemed
			reporting, navigation aids and		acceptable by the operator shall be		acceptable by the operator shall be
			emergency services, as appropriate to		contained in the operations manual.		contained in the operations manual.
			the circumstances.				
					Note 1: ICAO Annex 6 Part I Attachment		Note 1: ICAO Annex 6 Part I Attachment
					K contains guidance on assessing an		K contains guidance on assessing an
					acceptable level of RFFS protection at		acceptable level of RFFS protection at
					aerodromes.		aerodromes.
					Note 2: It is not intended that this		Note 2: It is not intended that this
					guidance limits or regulates the		guidance limits or regulates the
					operation of an aerodrome. The		operation of an aerodrome. The
					assessment performed by the operator		assessment performed by the operator
					does not in any way affect the RFFS		does not in any way affect the RFFS
					requirements of ICAO Annex 14, Volume		requirements of ICAO Annex 14, Volume
					I, for aerodromes.		I, for aerodromes.
				е	for a helicopter flying at night, ensure		
					that adequate lighting is in operation at		
					any operating site where it is intended		
					to take off or land.		
	b		A helicopter shall not be operated		 	Τ	•
		1	unless it is assured that:	\square			
		1	any place used as a heliport or landing				•
			site within a congested area of a city,				
			town or settlement has physical				
			characteristics, obstacle limitation				
			surfaces and visual aids commensurate				
			with the characteristics of the helicopter				
			being operated and the ambient light				
			conditions; and				
		2	any place used as a heliport or as a place				•
			to hover that is outside a congested area				
			of a city, town, or settlement:				
		i	is suitable for the helicopter to hover				•
			clear of obstructions; and				
			for a heliport, has a surface area suitable				•
		- 11	-				•
		-	for touchdown and lift-off; and	\vdash			
		3	any place used as a heliport or as a place				•
			to hover has approach and take-off				
			paths such that, if the helicopter is not				
			operating in Performance Class 1, an				
			emergency landing can be conducted				
			without causing undue risk to any				
			persons or property on the ground; and				
		4	any place in the Bailiwick of Guernsey to	$ \uparrow $			•
			be used by a helicopter for the transport				
			of passengers at night has lighting in				
			operation to enable the pilot:				
		i	in the case of landing, to identify the	\vdash			•
		1	landing area in flight, to determine the				-
			landing direction and to make a safe				
			approach and landing; and				
				\vdash			•
		11	in the case of taking off, to make a safe take-off.				
				\vdash			
	С		Only helicopters operating in				•
			Performance Class 1 shall be permitted				
			to operate from elevated heliports in				
			congested areas.	\square			
			Note 2: Flights under (b)(1) and (c) are				•
			subject to obtaining Permission under				
04 65 -			Rule 5(3) of the Rules of the Air.	\square		+	
91.230			Certificated aerodromes —				
			requirement to use	\vdash	 		
			No aircraft shall take off or land at a				
			place in the Bailiwick of Guernsey other				
			than an aerodrome licensed under				
			section 96 of the Air Navigation				
			(Bailiwick of Guernsey) Law, 2012, for				
			the take-off and landing of such aircraft,				
			unless the Director has given permission				
			in writing to do so.	. 1		1	

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91.235			Aerodrome operating minima —								
	-		applicability An aerodrome shall not be used as a		<u> </u>				-		
	а		An aerodrome shall not be used as a departure, destination or alternate								
			aerodrome, unless operating minima								
			have been established by the pilot-in-								
			command in accordance with criteria								
	1-		specified in 91.240(a).		-						
	b		The aerodrome operating minima for a specific type of approach and landing								
			procedure shall be applicable if:								
		1	the ground equipment shown on the								
			respective instrument approach and								
			landing chart required for the intended procedure is operative; and								
		2	the aircraft systems required for the								
			type of approach are operative; and								
		3	the required aircraft performance								
			criteria are complied with; and								
		4	the flight deck crew is qualified to								
91.240			conduct the type of approach. Aerodrome operating minima —	135.240			Aerodrome operating minima —	121.240			Aerodrome operating minima —
51.240			determination	155.240			determination	121.240			determination
	а		The aerodrome operating minima for		а		The operator shall establish aerodrome		а		The operator shall establish aerodrome
			any aerodrome to be used shall be in				operating minima for each aerodrome				operating minima for each aerodrome
			accordance with Section 40 of the Air				to be used in operations.				to be used in operations.
			Navigation (Bailiwick of Guernsey) Law, 2012.				/				
	b		The minima determined in accordance		b		The minima determined in accordance		b		The minima determined in accordance
			with (a) shall not be lower than any that				with (a) shall not be lower than any that				with (a) shall not be lower than any that
			may be established for such aerodromes by the State in which the				may be established for such aerodromes by the State in which the				may be established for such aerodromes by the State in which the
			aerodromes by the state in which the aerodrome is located, except when				aerodromes by the state in which the aerodrome is located, except when				aerodromes by the state in which the aerodrome is located, except when
			specifically approved by that State.				specifically approved by that State.				specifically approved by that State.
	С		When establishing the aerodrome		С		When establishing the aerodrome		С		When establishing the aerodrome
			operating minima in accordance with (a) to any particular operation, the				operating minima in accordance with (a) to any particular operation, the				operating minima in accordance with (a) to any particular operation, the
			following shall be taken into account:				following shall be taken into account:				following shall be taken into account:
		1	the type, performance and handling			1	the type, performance and handling			1	the type, performance and handling
			characteristics of the aircraft; and				characteristics of the aircraft; and				characteristics of the aircraft; and
		2	the composition of the flight crew. their			2	the composition of the flight crew. their			2	the composition of the flight crew. their
		3	competence and experience; and the dimensions and characteristics of		-	3	competence and experience; and the dimensions and characteristics of			3	competence and experience; and the dimensions and characteristics of
		5	the runways or touch-down areas which				the runways or touch-down areas which			5	the runways or touch-down areas which
			may be selected for use; and				may be selected for use; and				may be selected for use; and
		4	the adequacy and performance of the			4	the adequacy and performance of the			4	the adequacy and performance of the
			available visual and non-visual ground aids; and				available visual and non-visual ground aids; and				available visual and non-visual ground aids; and
		5	the equipment available in the aircraft			5	the equipment available in the aircraft			5	the equipment available in the aircraft
			for the purpose of navigation and/or				for the purpose of navigation and/or				for the purpose of navigation and/or
			control of the flight path during the				control of the flight path during the				control of the flight path during the
			approach to landing or missed approach; and				approach to landing or missed approach; and				approach to landing or missed approach; and
		6	the obstacles in the approach and			6	the obstacles in the approach and			6	the obstacles in the approach and
			missed approach areas and the climb-				missed approach areas and the climb-				missed approach areas and the climb-
		-	out areas and necessary clearance; and		_	-	out areas and necessary clearance; and		<u> </u>	-	out areas and necessary clearance; and
		/	the obstacle clearance altitude/height for the instrument approach			/	the obstacle clearance altitude/height for the instrument approach			7	the obstacle clearance altitude/height for the instrument approach
			procedures;				procedures;				procedures;
		8	the means to determine and report			8	the means to determine and report			8	the means to determine and report
	_		meteorological conditions; and				meteorological conditions; and				meteorological conditions; and
		9	the flight technique to be used in the final approach.			9	the flight technique to be used in the final approach.			9	the flight technique to be used in the final approach.
<u> </u>	d		The State of Registry may approve		d		The method of determining aerodrome		d		The method of determining aerodrome
			operational credit(s) for operations with				operating minima shall be approved by				operating minima shall be approved by
			aircraft with automatic landing systems,				the Director.				the Director.
			Head-up Displays (HUD) or equivalent displays, Enhanced vision system (EVS),								
			Synthetic Vision Systems (SVS) or								
			Combination Vision Systems (CVS). Such								
			approvals shall not affect the								
			classification of the instrument approach procedure.								
			Note 1: Operational credit includes:				<u> </u>				
			a) for the purposes of an approach ban								
			(2.6.3.2), minima below the heliport or								
			landing location operating minima;								
		I	b) reducing or satisfying the visibility								
			requirements: or		1			1	1	1	
			requirements; or c) requiring fewer ground facilities as								
			c) requiring fewer ground facilities as compensated for by airborne								
			c) requiring fewer ground facilities as								

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						1		-	
		and vision systems is contained in							
		Attachment I of ICAO Annex 6, Part I (for							
		commercial air transport with							
		aeroplanes), Attachement 2.B of ICAO							
		Annex 6, Part II (for aeroplanes) and							
		Attachment 1 to ICAO Annex 6, Part III							
		(for helicopters).							
		Note 3: Information regarding a HUD or							
		equivalent displays, including references							
		to RTCA and EUROCAE documents, is							
		contained in the Manual of All-Weather							
		Operations (Doc 9365).							
					-		-		
		Note 4: Automatic landing system —							
		helicopter is an automatic approach							
		using airborne systems which provide							
		automatic control of the flight path, to a							
		point aligned with the landing surface,							
		from which the pilot can transition to a							
		safe landing by means of natural vision							
		without the use of automatic control.							
	е	Aerodrome operating minima lower							
		than Category I shall be used only in							
		accordance with an approval issued by							
		the State of Registry.							
	f	In the case of an aircraft registered in							
		Guernsey, approval for the use of							
		aerodrome operating minima lower							
		than Category I may be issued by the							
		Director in accordance with Subpart							
		SPA.							
		Note 5: See 91.415 for IFR departure							
		limitations and approval requirements.							
91.245		Noise abatement procedures	135.245			Noise abatement procedures	121.245		Noise abatement procedures
		Operating procedures shall take into		а		The operator's noise abatement		а	The operator's noise abatement
		account the need to minimise the effect		_		procedures for departure and			procedures for departure and
		of aircraft noise unless this would have a				arrival/approach for each aeroplane			arrival/approach for each aeroplane
		detrimental effect on aircraft safety.				type, shall be designed to be simple and			type, shall be designed to be simple and
						safe to operate with no significant			safe to operate with no significant
						increase in crew workload during critical			increase in crew workload during critical
						increase in crew workload during critical			-
						phases of flight			nnases of flight
				h		phases of flight. The pilot-in-command shall follow poise		h	phases of flight. The nilot-in-command shall follow noise
				b		The pilot-in-command shall follow noise		b	 The pilot-in-command shall follow noise
				b		The pilot-in-command shall follow noise abatement procedures unless these		b	The pilot-in-command shall follow noise abatement procedures unless these
				b		The pilot-in-command shall follow noise abatement procedures unless these would have a detrimental effect on		b	The pilot-in-command shall follow noise abatement procedures unless these would have a detrimental effect on
		Note: Guidance on noice abatement		b		The pilot-in-command shall follow noise abatement procedures unless these		b	The pilot-in-command shall follow noise abatement procedures unless these
		Note: Guidance on noise abatement		b		The pilot-in-command shall follow noise abatement procedures unless these would have a detrimental effect on		b	The pilot-in-command shall follow noise abatement procedures unless these would have a detrimental effect on
		procedures is contained in PANS-OPS		b		The pilot-in-command shall follow noise abatement procedures unless these would have a detrimental effect on		b	The pilot-in-command shall follow noise abatement procedures unless these would have a detrimental effect on
01 250		procedures is contained in PANS-OPS (ICAO Doc 8168) Volume I, Section 7.		b		The pilot-in-command shall follow noise abatement procedures unless these would have a detrimental effect on		b	The pilot-in-command shall follow noise abatement procedures unless these would have a detrimental effect on
91.250		procedures is contained in PANS-OPS (ICAO Doc 8168) Volume I, Section 7. Alternate aerodromes — general		b		The pilot-in-command shall follow noise abatement procedures unless these would have a detrimental effect on		b	The pilot-in-command shall follow noise abatement procedures unless these would have a detrimental effect on
91.250		procedures is contained in PANS-OPS (ICAO Doc 8168) Volume I, Section 7. Alternate aerodromes — general requirements		b		The pilot-in-command shall follow noise abatement procedures unless these would have a detrimental effect on		b	The pilot-in-command shall follow noise abatement procedures unless these would have a detrimental effect on
91.250		procedures is contained in PANS-OPS (ICAO Doc 8168) Volume I, Section 7. Alternate aerodromes — general requirements An aerodrome shall not be nominated as		b		The pilot-in-command shall follow noise abatement procedures unless these would have a detrimental effect on		b	The pilot-in-command shall follow noise abatement procedures unless these would have a detrimental effect on
91.250		procedures is contained in PANS-OPS (ICAO Doc 8168) Volume I, Section 7. Alternate aerodromes — general requirements An aerodrome shall not be nominated as an alternate unless:		b		The pilot-in-command shall follow noise abatement procedures unless these would have a detrimental effect on		b	The pilot-in-command shall follow noise abatement procedures unless these would have a detrimental effect on
91.250	a	procedures is contained in PANS-OPS (ICAO Doc 8168) Volume I, Section 7. Alternate aerodromes — general requirements An aerodrome shall not be nominated as an alternate unless: it has a notified instrument approach		b		The pilot-in-command shall follow noise abatement procedures unless these would have a detrimental effect on		b	The pilot-in-command shall follow noise abatement procedures unless these would have a detrimental effect on
91.250	a	procedures is contained in PANS-OPS (ICAO Doc 8168) Volume I, Section 7. Alternate aerodromes — general requirements An aerodrome shall not be nominated as an alternate unless: it has a notified instrument approach procedure and weather forecasts		b		The pilot-in-command shall follow noise abatement procedures unless these would have a detrimental effect on		b	The pilot-in-command shall follow noise abatement procedures unless these would have a detrimental effect on
91.250	a	procedures is contained in PANS-OPS (ICAO Doc 8168) Volume I, Section 7. Alternate aerodromes — general requirements An aerodrome shall not be nominated as an alternate unless: it has a notified instrument approach procedure and weather forecasts indicate that at the estimated time of		b		The pilot-in-command shall follow noise abatement procedures unless these would have a detrimental effect on		b	The pilot-in-command shall follow noise abatement procedures unless these would have a detrimental effect on
91.250	a	procedures is contained in PANS-OPS (ICAO Doc 8168) Volume I, Section 7. Alternate aerodromes — general requirements An aerodrome shall not be nominated as an alternate unless: it has a notified instrument approach procedure and weather forecasts indicate that at the estimated time of use the conditions will be at or above		b		The pilot-in-command shall follow noise abatement procedures unless these would have a detrimental effect on		b	The pilot-in-command shall follow noise abatement procedures unless these would have a detrimental effect on
91.250	a	procedures is contained in PANS-OPS (ICAO Doc 8168) Volume I, Section 7. Alternate aerodromes — general requirements An aerodrome shall not be nominated as an alternate unless: it has a notified instrument approach procedure and weather forecasts indicate that at the estimated time of use the conditions will be at or above the applicable aerodrome operating		b		The pilot-in-command shall follow noise abatement procedures unless these would have a detrimental effect on		b	The pilot-in-command shall follow noise abatement procedures unless these would have a detrimental effect on
91.250		procedures is contained in PANS-OPS (ICAO Doc 8168) Volume I, Section 7. Alternate aerodromes — general requirements An aerodrome shall not be nominated as an alternate unless: it has a notified instrument approach procedure and weather forecasts indicate that at the estimated time of use the conditions will be at or above the applicable aerodrome operating minima; or		b		The pilot-in-command shall follow noise abatement procedures unless these would have a detrimental effect on		b	The pilot-in-command shall follow noise abatement procedures unless these would have a detrimental effect on
91.250	a	procedures is contained in PANS-OPS(ICAO Doc 8168) Volume I, Section 7.Alternate aerodromes — generalrequirementsAn aerodrome shall not be nominated asan alternate unless:it has a notified instrument approachprocedure and weather forecastsindicate that at the estimated time ofuse the conditions will be at or abovethe applicable aerodrome operatingminima; orweather forecasts indicate that at the		b		The pilot-in-command shall follow noise abatement procedures unless these would have a detrimental effect on		b	The pilot-in-command shall follow noise abatement procedures unless these would have a detrimental effect on
91.250		procedures is contained in PANS-OPS (ICAO Doc 8168) Volume I, Section 7. Alternate aerodromes — general requirements An aerodrome shall not be nominated as an alternate unless: it has a notified instrument approach procedure and weather forecasts indicate that at the estimated time of use the conditions will be at or above the applicable aerodrome operating minima; or weather forecasts indicate that at the estimated time of use the cloud ceiling		b		The pilot-in-command shall follow noise abatement procedures unless these would have a detrimental effect on		b	The pilot-in-command shall follow noise abatement procedures unless these would have a detrimental effect on
91.250		procedures is contained in PANS-OPS (ICAO Doc 8168) Volume I, Section 7. Alternate aerodromes — general requirements An aerodrome shall not be nominated as an alternate unless: it has a notified instrument approach procedure and weather forecasts indicate that at the estimated time of use the conditions will be at or above the applicable aerodrome operating minima; or weather forecasts indicate that at the estimated time of use the cloud ceiling and visibility will be at or above the VFR		b		The pilot-in-command shall follow noise abatement procedures unless these would have a detrimental effect on		b	The pilot-in-command shall follow noise abatement procedures unless these would have a detrimental effect on
91.250		procedures is contained in PANS-OPS (ICAO Doc 8168) Volume I, Section 7. Alternate aerodromes — general requirements An aerodrome shall not be nominated as an alternate unless: it has a notified instrument approach procedure and weather forecasts indicate that at the estimated time of use the conditions will be at or above the applicable aerodrome operating minima; or weather forecasts indicate that at the estimated time of use the cloud ceiling and visibility will be at or above the VFR minima prescribed in the Rules of the		b		The pilot-in-command shall follow noise abatement procedures unless these would have a detrimental effect on		b	The pilot-in-command shall follow noise abatement procedures unless these would have a detrimental effect on
91.250		procedures is contained in PANS-OPS (ICAO Doc 8168) Volume I, Section 7. Alternate aerodromes — general requirements An aerodrome shall not be nominated as an alternate unless: it has a notified instrument approach procedure and weather forecasts indicate that at the estimated time of use the conditions will be at or above the applicable aerodrome operating minima; or weather forecasts indicate that at the estimated time of use the cloud ceiling and visibility will be at or above the VFR	125.255	b		The pilot-in-command shall follow noise abatement procedures unless these would have a detrimental effect on	121.255		The pilot-in-command shall follow noise abatement procedures unless these would have a detrimental effect on flight safety.
91.250		procedures is contained in PANS-OPS (ICAO Doc 8168) Volume I, Section 7. Alternate aerodromes — general requirements An aerodrome shall not be nominated as an alternate unless: it has a notified instrument approach procedure and weather forecasts indicate that at the estimated time of use the conditions will be at or above the applicable aerodrome operating minima; or weather forecasts indicate that at the estimated time of use the cloud ceiling and visibility will be at or above the VFR minima prescribed in the Rules of the	125.255	b		The pilot-in-command shall follow noise abatement procedures unless these would have a detrimental effect on flight safety.	121.255	a	The pilot-in-command shall follow noise abatement procedures unless these would have a detrimental effect on

				either: the meteorological conditions at the aerodrome of departure are at or below the applicable aerodrome landing minima for that operation; or, it would not be possible to return to the aerodrome of departure for other reasons.			either: the meteorological conditions at the aerodrome of departure are at or below the applicable aerodrome landing minima for that operation; or, it would not be possible to return to the aerodrome of departure for other reasons.
		b		The take-off alternate aerodrome shall be located within the following flight time from the aerodrome of departure:	b		The take-off alternate aerodrome shall be located within the following flight time from the aerodrome of departure:
			1	for an aeroplane with two engines, one hour of flight time at a one-engine- inoperative cruising speed determined from the aircraft operating manual, calculated in ISA and still-air conditions using the actual take-off mass;		1	for an aeroplane with two engines, one hour of flight time at a one-engine- inoperative cruising speed determined from the aircraft operating manual, calculated in ISA and still-air conditions using the actual take-off mass;

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alternate aerodrome is selected and

specified in the operational flight plan if

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alternate aerodrome is selected and

specified in the operational flight plan if

						2		for an aeroplane with three or more engines, two hours of flight time at an all-engine operating cruising speed, determined from the aircraft operating manual, calculated in ISA and still-air conditions using the actual take-off mass.			2	for an aeroplane with three or more engines, two hours of flight time at an all-engine operating cruising speed, determined from the aircraft operating manual, calculated in ISA and still-air conditions using the actual take-off mass.
						3	3	for aeroplanes engaged in extended diversion time operations (EDTO) where an alternate aerodrome meeting the distance criteria of (b)(1) or (b)(2) is not available, the first available alternate aerodrome located within the distance of the operator's approved maximum diversion time considering the actual take-off mass.			3	for aeroplanes engaged in extended diversion time operations (EDTO) where an alternate aerodrome meeting the distance criteria of (b)(1) or (b)(2) is not available, the first available alternate aerodrome located within the distance of the operator's approved maximum diversion time considering the actual take-off mass.
					С			For an aerodrome to be selected as a take-off alternate the available information shall indicate that, at the estimated time of use, the conditions will be at or above the applicable aerodrome operating minima for that operation.		С		For an aerodrome to be selected as a take-off alternate the available information shall indicate that, at the estimated time of use, the conditions will be at or above the applicable aerodrome operating minima for that operation.
				135.260				En-route alternate	121.260			En-route alternate
								En-route alternate aerodromes, required for extended diversion time operations by aeroplanes with two turbine engines, shall be selected and specified in both the operational and ATS flight plans.				En-route alternate aerodromes, required for extended diversion time operations by aeroplanes with two turbine engines, shall be selected and specified in both the operational and ATS flight plans.
91.265			Destination alternate	135.265				Destination alternate	121.265			Destination alternate
			For any flight conducted under IFR, at least one destination alternate aerodrome shall be nominated and specified in the flight plan unless:					Notwithstanding GAR 91.265:				Notwithstanding GAR 91.265:
	а		For aeroplanes:		а			The operator shall ensure that for any flight conducted under IFR, at least one destination alternate aerodrome shall be selected and specified in both the operational and ATS flight plans, unless:		а		The operator shall ensure that for any flight conducted under IFR, at least one destination alternate aerodrome shall be selected and specified in both the operational and ATS flight plans, unless:
		1	separate runways are usable at the estimated time of use of the destination aerodrome, with at least one runway having an operational instrument approach procedure; or			1		for aeroplanes: two separate runways, each with an operational straight-in instrument approach procedure, are usable by the flight at the estimated time of use of the destination aerodrome; and			1	for aeroplanes: two separate runways, each with an operational straight-in instrument approach procedure, are usable by the flight at the estimated time of use of the destination aerodrome; and
		2	the duration of the flight from the departure aerodrome, or from the point of in-flight re-planning, to the destination aerodrome is such that,			2		the duration of the flight from the departure aerodrome, or from the point of in-flight re-planning, to the destination aerodrome is such that,			2	the duration of the flight from the departure aerodrome, or from the poin of in-flight re-planning, to the destination aerodrome is such that,
			taking into account all meteorological conditions and operational information relevant to the flight a reasonable certainty exists that the approach and landing may be made under visual meterologoical conditions; or					taking into account all meteorological conditions and operational information relevant to the flight a reasonable certainty exists that for a period of at least one hour before and one hour after the estimated time of arrival at the aerodrome of intended landing:				taking into account all meteorological conditions and operational information relevant to the flight a reasonable certainty exists that for a period of at least one hour before and one hour after the estimated time of arrival at th aerodrome of intended landing:
						i	i	the approach and landing may be made under visual meteorological conditions; and			i	the approach and landing may be made under visual meteorological conditions; and
						ii		separate runways are usable at the estimated time of use of the destination aerodrome with at least one runway having an operational instrument approach procedure; or			ii	separate runways are usable at the estimated time of use of the destinatior aerodrome with at least one runway having an operational instrument approach procedure; or
		3	the aerodrome of intended landing is isolated; and			3		Note.— Separate runways are two or more runways at the same aerodrome configured such that if one runway is closed, operations to the other runway(s) can be conducted the aerodrome of intended landing is isolated and there is no suitable alternate aerodrome; and			3	Note. — Separate runways are two or more runways at the same aerodrome configured such that if one runway is closed, operations to the other runway(s) can be conducted the aerodrome of intended landing is isolated and there is no suitable alternate aerodrome; and
		i	a standard instrument approach procedure is prescribed for the aerodrome of intended landing; and			i	i	a standard instrument approach procedure is prescribed for the aerodrome of intended landing; and			i	a standard instrument approach procedure is prescribed for the aerodrome of intended landing; and
		ii iii	a point of no return (PNR) is determined; and the flight shall not be continued past the			ii iii		a point of no return (PNR) is determined; and the flight shall not be continued past the			ii iii	a point of no return (PNR) is determined; and the flight shall not be continued past
			PNR unless available current meteorological information indicates that the following meteorological conditions will exist from two hours					PNR unless a current assessment of meteorological conditions, traffic, and other operational conditions indicate				the PNR unless a current assessment of meteorological conditions, traffic, and other operational conditions indicate

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		before to two hours after the estimated time of arrival:				that a safe landing can be made at the estimated time of use.				that a safe landing can be made at the estimated time of use.
	А	a cloud base of at least 1,000 feet (300		b		Two destination alternate aerodromes		b		Two destination alternate aerodromes
		m) above the minimum associated with the instrument approach procedure; and				shall be specified in the operational and ATS flight plans when, at the destination aerodrome:				shall be specified in the operational and ATS flight plans when, at the destination aerodrome:
	В	visibility of at least 5.5 km (3 NM) or of 4 km (2 NM) more than the minimum associated with the instrument			1	available meteorological aerodrome reports and forecasts for the destination indicate that the meteorological			1	available meteorological aerodrome reports and forecasts for the destination indicate that the meteorological
		approach procedure.			2	conditions at the estimated time of use will be below the applicable minima; or meteorological information is not			2	conditions at the estimated time of use will be below the applicable minima; or meteorological information is not
 						available				available
 b	1	For helicopters; either 1. or 2. below:								•
	1	current meteorological information indicates that from two hours before to two hours after the estimated time of arrival, or from the actual time of departure to two hours after the estimated time of arrival, whichever is the shorter period, the following								•
	i	meteorological conditions will exist: a cloud base of at least 400 feet (120 m)								•
	•	above the minimum associated with the instrument approach procedure; and								
	ii	visibility of at least 1.5 km more than the minimum associated with the procedure.								•
		or:								•
	2	the heliport of intended landing is isolated and no alternate heliport or landing location is available; and								•
	i	an instrument approach procedure is prescribed for the isolated heliport of intended landing; and								•
	ii	a point of no return (PNR) is determined in case of an offshore destination.								•
с		For helicopters conducting offshore								•
		operations, offshore alternates may be specified subject to the following conditions:								
	1	the offshore destination alternate shall be used only after a point of no return								•
		(PNR). Prior to PNR on-shore destination alternates shall be used; and								
	2	mechanical reliability of critical systems								•
		and critical components shall be considered and taken into account when determining the suitability of the destination alternates; and								
	3	one engine inoperative hover								•
		performance capability shall be attainable prior to arrival at the destination alternate; and								
	4	to the extent possible, helideck availability shall be guaranteed at the destination alternate; and								•
	5	a landing forecast indicating the likelihood of visual meteorological conditions at the intended offshore destination and the offshore destination alternate based upon accredited								•
	6	meteorological information conforming to the standards in ICAO Annex 3, shall be required for the decision to go beyond PNR; and								
	6	an offshore destination alternate shall not be used if fog is forecast or observed within 100 km of the destination; and								•
	7	offshore alternates should not be used when it is possible to carry enough fuel to have an onshore alternate; the use of offshore alternates shall be exceptional								•
		and shall not be used for the purposes of payload enhancement during adverse weather conditions.								
			135.270			Maximum distance to an en-route alternate aerodrome for aeroplanes without an EDTO approval	121.270			Maximum distance to an en-route alternate aerodrome for aeroplanes without an EDTO approval
				а		The operator shall ensure that no aeroplane operates on a route where		а		The operator shall ensure that no aeroplane operates on a route where
						diversion time from any point on the route to an adequate en-route alternate				diversion time from any point on the route to an adequate en-route alternate

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IN											
		_					aerodrome exceeds the threshold time established by the Director in relation to the type of aeroplane, unless the operation is conducted in accordance				aerodrome exceeds the threshold time established by the Director in relation to the type of aeroplane, unless the operation is conducted in accordance
							with procedures for extended diversion time operations (EDTO) required by paragraph 135.275				with procedures for extended diversion time operations (EDTO) required by paragraph 121.275
					b		Calculations of diversion times in (a) shall assume ISA in still air conditions and use:		b		Calculations of diversion times in (a) shall assume ISA in still air conditions and use:
						1	for aeroplanes with two turbine engines, the one-engine inoperative cruise speed; and			1	for aeroplanes with two turbine engines, the one-engine inoperative cruise speed; and
						2	for aeroplanes with more than two turbine engines, the all-engine operating cruise speed.			2	for aeroplanes with more than two turbine engines, the all-engine operating cruise speed.
				135.275			EDTO limitations	121.275			EDTO limitations
							The operator shall ensure that:				The operator shall ensure that:
					а		an EDTO flight is not commenced unless:		а		an EDTO flight is not commenced unless:
						1	EDTO operations are approved by the Director;			1	EDTO operations are approved by the Director;
						2	procedures for EDTO are specified in the operations manual;			2	procedures for EDTO are specified in the operations manual;
						3	the aeroplane is dispatched in accordance with those procedures specified in the operations manual; and			3	the aeroplane is dispatched in accordance with those procedures specified in the operations manual; and
						4	flight crew are appropriately trained.			4	flight crew are appropriately trained.
					b		A flight shall not proceed beyond the	1	b		A flight shall not proceed beyond the
							threshold time specified in the EDTO approval unless the identified en-route alternate aerodromes have been re-evaluated for availability and				threshold time specified in the EDTO approval unless the identified en-route alternate aerodromes have been re-evaluated for availability and
							the most up-to-date information indicates that, during the estimated time of use, conditions at those aerodromes will be at or above the				the most up-to-date information indicates that, during the estimated time of use, conditions at those aerodromes will be at or above the
					с		applicable aerodrome operating minima for the operation.		C		applicable aerodrome operating minima for the operation.
							would preclude a safe approach and landing at that aerodrome during the estimated time of use, an alternative				would preclude a safe approach and landing at that aerodrome during the estimated time of use, an alternative
91.280			Fuel requirements	135.280			course of action shall be determined. Fuel requirements	121.280			course of action shall be determined. Fuel requirements
							Notwithstanding 91.280:				Notwithstanding 91.280:
	а		A flight shall not be commenced unless the aircraft carries sufficient fuel and oil, taking into account weather reports,		а		The operator shall establish a fuel and oil policy for the purpose of flight planning, and en-route replanning, to		а		The operator shall establish a fuel and oil policy for the purpose of flight planning, and en-route replanning, to
			forecasts and weather conditions, to complete the flight and to allow for contingencies, which shall be at least the amount sufficient to enable:				ensure that each aircraft carries sufficient fuel and oil for the planned flight, including reserve fuel to cover deviations from the planned flight.				ensure that each aircraft carries sufficient fuel and oil for the planned flight, including reserve fuel to cover deviations from the planned flight.
		1	For aeroplanes:		b		The fuel and oil policy shall ensure that the planning requirements are based upon:		b		The fuel and oil policy shall ensure that the planning requirements are based upon:
		i	when flying in accordance with the instrument flight rules and a destination alternate is not required in accordance with paragraph 91.265 or when flying to an isolated aerodrome, to complete the flight to the intended destination and thereafter have a final reserve fuel for 45 minutes at the normal cruising altitude; or			1	current aircraft-specific data derived from a fuel consumption monitoring system, if available; or if current aicraft- specific data is not available, data provided by the aircraft manufacturer; and			1	current aeroplane-specific data derived from a fuel consumption monitoring system, if available; or if current aertoplane-specific data is not available, data provided by the aircraft manufacturer; and
		ii	when flying in accordance with the instrument flight rules and a destination alternate is required in accordance with paragraph 91.265, or when flying to an isolated aerodrome, to complete the flight to the intended destination, thence to an alternate and thereafter have a final reserve fuel for 45 minutes at the normal cruising altitude; or			2	the operating conditions under which the planned flight is to be conducted, including but not limited to:			2	the operating conditions under which the planned flight is to be conducted, including but not limited to:
		iii	when flying in accordance with the visual flight rules by day to complete the flight to the intended destination and thereafter for 30 minutes at the normal cruising altitude.			i	anticipated aircraft mass;			i	anticipated aircraft mass;

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	iv	when flying in accordance with the visual flight rules by night to complete the flight to the intended destination and thereafter for 45 minutes at the		ii	Notices to Airmen; and		ii	Notices to Airmen; and
	2	normal cruising altitude. For helicopters:		iii	current meteorological reports or a combination of current reports and forecasts; and		iii	current meteorological reports or a combination of current reports and forecasts; and
	i	when flying in accordance with the instrument flight rules and a destination alternate is not required in accordance with paragraph 91.265(b)(1), to complete the flight to the intended destination and thereafter for 30 minutes at holding speed at 450 m (1500 ft) above the destination heliport under standard temperature conditions and approach and land, and an additional amount of fuel to provide for the increased consumption on the occurrence of potential contingencies;		iv	air traffic services procedures, restrictions and anticipated delays; and		iv	air traffic services procedures, restrictions and anticipated delays; and
	ii	when flying in accordance with the instrument flight rules and a destination alternate is required, to complete the flight to the intended destination and execute an approach, and a missed approach, thence to an alternate and thereafter for 30 minutes at the normal holding speed at 450 m (1,500 ft) above the destination under standard temperature conditions and approach and land, and an additional amount of fuel to provide for the increased consumption on the occurrence of potential contingencies;		v	the effects of deferred aintenance items and/or configuration deviations.		v	the effects of deferred aintenance items and/or configuration deviations.
	iii	when flying in accordance with the visual flight rules, to complete the flight to the intended destination and thereafter for 20 minutes at best-range speed and an additional amount of fuel to provide for the increased consumption on the occurrence of	С		The pre-flight calculation of usable fuel required shall include:	C		The pre-flight calculation of usable fuel required shall include:
b		potential contingencies. The use of fuel after flight commencement for purposes other than originally intended during pre-flight planning shall require a re-analysis and, if applicable, adjustment of the planned operation.		1	taxi fuel, which shall be the amount of fuel expected to be consumed before take-off, taking into account local conditions at the departure aerodrome and auxilliary power unit (APU) fuel consumption; and		1	taxi fuel, which shall be the amount of fuel expected to be consumed before take-off, taking into account local conditions at the departure aerodrome and auxilliary power unit (APU) fuel consumption; and
				2	trip fuel, which shall be the amount of fuel required to enable the aircraft to fly from take-off or the point of in-flight re- planning until landing at the destination aerodrome taking into account the operating conditions of 135.280(b)(2); and		2	trip fuel, which shall be the amount of fuel required to enable the aircraft to fly from take-off or the point of in-flight re- planning until landing at the destination aerodrome taking into account the operating conditions of 121.280(b)(2); and
				3	and contingency fuel, which shall be the amount of fuel sufficient to compensate for unforeseen factors. It shall be 5 % of the planned trip fuel or 5 % of the fuel required from the point of in-flight re-planning based on the consumption rate used to plan the trip fuel but in any case not less than the amount required to fly for five minutes at holding speed at 1,500 ft (450m) above the destination aerodrome in standard conditions; and <i>Note: Unforeseen factors are those which could have an influence on the fuel consumption to the destination aerodrome, such as deviations of an individual aircraft from the expected fuel consumption data, deviations from forecast meteorological conditions, extended taxi times before take-off, and deviations from planned routings and/or cruising levels.</i>		3	contingency fuel, which shall be the amount of fuel sufficient to compensate for unforeseen factors. It shall be 5 % of the planned trip fuel or 5 % of the fuel required from the point of in-flight re-planning based on the consumption rate used to plan the trip fuel but in any case not less than the amount required to fly for five minutes at holding speed at 1,500 ft (450m) above the destination aerodrome in standard conditions; and <i>Note: Unforeseen factors are those</i> which could have an influence on the fuel consumption to the destination aerodrome, such as deviations of an individual aircraft from the expected fuel consumption data, deviations from forecast meteorological conditions, extended taxi times before take-off, and deviations from planned routings and/or cruising levels.
				4 i	destination alternate fuel; which shall be: if a destination alternate aerodrome is		4 i	destination alternate fuel; which shall be: if a destination alternate aerodrome is
					required, the amount of fuel required to enable the aircraft to perform a missed approach at the destination aerodrome, climb to the expected cruising altitude, fly the expected routing, descend to the			required, the amount of fuel required to enable the aircraft to perform a missed approach at the destination aerodrome, climb to the expected cruising altitude, fly the expected routing, descend to the

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		point where the expected approach is initiated, and conduct the approach and landing at the destination alternate			point where the expected approach is initiated, and conduct the approach and landing at the destination alternate
	ii	aerodrome; or where two destination alternate aerodromes are required, the amount of fuel, as calculated in 135.280(c)(4)(i), required to enable the aircraft to proceed to the destination alternate aerodrome which requires the greater amount of alternate fuel; or		ii	aerodrome; or where two destination alternate aerodromes are required, the amount of fuel, as calculated in 121.280(c)(4)(i), required to enable the aircraft to proceed to the destination alternate aerodrome which requires the greater amount of alternate fuel; or
		when a flight is operated without a destination alternate aerodrome in accordance with 135.265(a)(2), an amount of fuel sufficient to enable an aircraft to hold for 15 minutes at 1,500 ft (450 m) above destination aerodrome elevation in standard conditions; or		iii	when a flight is operated without a destination alternate aerodrome in accordance with 121.265(a)(2), an amount of fuel sufficient to enable an aircraft to hold for 15 minutes at 1,500 ft (450 m) above destination aerodrome elevation in standard conditions; or
	iv	when a flight is operated without a destination alternate aerodrome in accordance with 135.265(a)(3), an amount of fuel sufficient to enable a turbine engined aeroplane to hold for 120 minutes; or a piston-engined aeroplane to fly for 45 minutes plus 15 % of the flight time planned to be spent at cruising level, including final reserve fuel, or two hours, whichever is less; and		iv	when a flight is operated without a destination alternate aerodrome in accordance with 121.265(a)(3), an amount of fuel sufficient to enable a turbine engined aeroplane to hold for 120 minutes; or a piston-engined aeroplane to fly for 45 minutes plus 15 % of the flight time planned to be spent at cruising level, including final reserve fuel, or two hours, whichever is less; and
	5 i	final reserve fuel, which shall be the amount of fuel required to enable a helicopter or turbine-engined aeroplane to fly for 30 minutes, or a piston-engined aeroplane to fly for 45 minutes, at holding speed at 1,500 ft (450 m) above aerodrome elevation in standard conditions, calculated with the estimated mass on arrival at the destination alternate aerodrome or the destination aerodrome, when no destination		5 i	final reserve fuel, which shall be the amount of fuel required to enable a turbine-engined aeroplane to fly for 30 minutes, or a piston-engined aeroplane to fly for 45 minutes, at holding speed at 1,500 ft (450 m) above aerodrome elevation in standard conditions, calculated with the estimated mass on arrival at the destination alternate aerodrome or the destination alternate aerodrome is
	ii	alternate aerodrome is required; and the operator shall determine one final reserve fuel value for each aeroplane type and variant in their fleet rounded		ii	required; and the operator shall determine one final reserve fuel value for each aeroplane type and variant in their fleet rounded
	6	up to an easily recalled figure; and additional fuel, which shall be a supplementary amount of fuel required if the minimum fuel calculated in accordance with 135.280(c)(2)(3)(4) and (5) is not sufficient to:		6	up to an easily recalled figure; and additional fuel, which shall be a supplementary amount of fuel required if the minimum fuel calculated in accordance with 121.280(c)(2)(3)(4) and (5) is not sufficient to:
	i	allow the aircraft to descend as necessary and proceed to an adequate alternate aerodrome in the event of engine failure or loss of pressurization, whichever requires the greater amount of fuel based on the assumption that such a failure occurs at the most critical		i	allow the aeroplane to descend as necessary and proceed to an adequate alternate aerodrome in the event of engine failure or loss of pressurization, whichever requires the greater amount of fuel based on the assumption that such a failure occurs at the most critical
	A	point along the route; and hold for 15 minutes at 1,500 ft (450m) above aerodrome elevation in standard conditions; and		A	point along the route; and hold for 15 minutes at 1,500 ft (450m) above aerodrome elevation in standard conditions; and
	B	make an approach and landing; and allow an aeroplane engaged in extended diversion time operations (EDTO) to comply with the EDTO critical fuel scenario as established by the Director.		B ii	make an approach and landing; and allow an aeroplane engaged in extended diversion time operations (EDTO) to comply with the EDTO critical fuel scenario as established by the Director.
	7	meet additional requirements not covered above; an discretionary fuel, which shall be an amount of fuel to be carried at the discretion of the pilot-in-		iii 7	meet additional requirements not covered above; an discretionary fuel, which shall be an amount of fuel to be carried at the discretion of the pilot-in-
	d 1	command. Variations to the pre-flight calculation of taxi fuel, trip fuel, contingency fuel, destination alternate fuel and additional fuel specified in (c) shall be subject to the approval of the Director, on the basis of a risk assessment provided by the operator.	d	1	command. Variations to the pre-flight calculation of taxi fuel, trip fuel, contingency fuel, destination alternate fuel and additional fuel specified in (c) shall be subject to the approval of the Director, on the basis of a risk assessment provided by the operator.
	2	The risk assessment shall demonstrate how an equivalent level of safety will be maintained. The risk assessment shall include:		2	The risk assessment shall demonstrate how an equivalent level of safety will be maintained. The risk assessment shall include:

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						i li	c d c a	light fuel calculations; and capabilities of the operator to include a lata-driven method that includes a fuel consumption monitoring programme and/or the advanced use of alternate perodromes; and			i li	flight fuel calculations; and capabilities of the operator to include a data-driven method that includes a fuel consumption monitoring programme and/or the advanced use of alternate aerodromes; and
						iii	S	pecific mitigation measures.			iii	specific mitigation measures.
					e		c r b r	A flight shall not be commenced nor continued beyond the point of in-flight e-planning unless the usable fuel on poard meets the applicable equirements in 135.280(c) or (d).		e		A flight shall not be commenced nor continued beyond the point of in-flight re-planning unless the usable fuel on board meets the applicable requirements in 121.280(c) or (d).
					f		c o p if	The use of fuel after flight commencement for purposes other than originally intended during pre-flight planning shall require a re-analysis and, f applicable, adjustment of the planned operation.		f		The use of fuel after flight commencement for purposes other than originally intended during pre- flight planning shall require a re-analysis and, if applicable, adjustment of the planned operation.
							ii re b ii N	Note: Guidance on flight planning ncluding the circumstances that may equire re-analysis, adjustment and/or e-planning of the planned operation before take-off or en-route, is contained n the Flight Planning and fuel Management Manual (ICAO Doc 9976).				Note: Guidance on flight planning including the circumstances that may require re-analysis, adjustment and/or re-planning of the planned operation before take-off or en-route, is contained in the Flight Planning and fuel Management Manual (ICAO Doc 9976).
91.285			Checklists	135.285				Checklists	121.285	<u> </u>		Checklists
			The pilot-in-command shall ensure that, where a checklist is provided, it is used.		a		c n a	The operator shall ensure that flight crews are provided with checklists of normal, abnormal and emergency nircraft procedures.		a		The operator shall ensure that flight crews are provided with checklists of normal, abnormal and emergency aircraft procedures.
					b		s h c fl o n s a	The checklists provided to flight crews hall be designed in accordance with numan factors principles and shall contain sufficient information to enable light crews to comply with the operating procedures in the operations nanual, the aircraft flight manual or uch other documents as may be associated with the certificate of airworthiness.		b		The checklists provided to flight crews shall be designed in accordance with human factors principles and shall contain sufficient information to enable flight crews to comply with the operating procedures in the operations manual, the aircraft flight manual or such other documents as may be associated with the certificate of airworthiness.
					с			The operator shall ensure that flight		с		The operator shall ensure that flight
					C			rew operating procedures incorporate				crew operating procedures incorporate
								he use of checklists for all phases of				the use of checklists for all phases of
					d		T a a	ircraft operations and in emergency. The operator shall ensure that checklists are used by flight crews prior to, during and after all phases of aircraft operation.		d		aircraft operations and in emergency. The operator shall ensure that checklists are used by flight crews prior to, during and after all phases of aircraft operation.
				125.290				n-flight simulation of emergency	121.290			In-flight simulation of emergency
								ituations The operator shall ensure that on a				situations The operator shall ensure that on a
					а		fl c	light when passengers are being arried: no emergency or abnormal situations		а		flight when passengers are being carried: no emergency or abnormal situations
					b		n	re simulated; and no simulated instrument flight is conducted.		b		are simulated; and no simulated instrument flight is conducted.
91.295			Use of airborne collision avoidance system (ACAS II)									
	а		In an aircraft with airborne collision							1		
		1	avoidance system (ACAS II) installed: It shall be used in normal conditions		$\left \right $		_			<u> </u>	<u> </u>	
		-	during flight in a mode that enables Resolution Advisories (RAs) to be produced for the pilot flying when undue proximity to another aircraft is detected.									
		2	When an RA is produced by ACAS II, the pilot flying shall immediately take the corrective action indicated by the RA, even if this is in conflict with an Air Traffic Control (ATC) instruction. The aircraft shall be promptly returned to the terms of the ATC instructions or									
		3	clearance when the situation is resolved. Unless otherwise specified in an air traffic control instruction, pilots shall use appropriate procedures to ensure that a rate of climb or descent of less than 8 m/sec or 1,500 ft/min (depending on the instrumentation available) is achieved throughout the last 300 m (1,000 feet) of climb or descent to the assigned altitude or flight level.									

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							1				
			Note: This is to avoid unnecessary ACAS II								
			RAs in aircraft at or approaching adjacent								
			altitudes or flight levels.								
91.300			Crew members at stations								
	а		The pilot-in-command shall ensure that								
	d										
			each crew member on duty in an aircraft								
			during take-off and landing or when he so								
			directs:								
		1	be at their crew member station unless								
			their absence is necessary to perform								
			duties in connection with the operation								
			of the aircraft; and								
		2	have their safety belt, or harness where								
			so equipped, fastened while at the crew								
			member station.								
	b		The pilot-in-command shall ensure that								
			all flight crew members required to be								
			on flight deck duty in an aircraft other								
			than during take-off and landing shall								
			remain at their stations with their safety								
			belt fastened except when their absence								
			is necessary for the performance of								
			duties in connection with the operation								
			of the aircraft or for physiological needs.								
	с		No crew member shall perform any								
	_		activity during critical phases of flight								
			except those required for the safe								
			operation of the aircraft.								
		1	The critical phases of flight include:								
	1	i	for flight crew members, all operations								
			involving push back, taxi, take-off,								
			approach and landing; and								
	1	ii	for other crew members, all ground								
			operations after leaving the apron area								
			to join a main taxiway, takeoff until								
			passing 1,000 feet on climb, and all flight								
			below 5,000 feet on the landing								
			approach phase of the flight.								
91.305			In-flight fuel management	135.305			In-flight fuel management	121.305			In-flight fuel management
91.505	-		5 5	135.505	-			121.505	_		
	а		The pilot-in-command shall monitor the amount of usable fuel remaining on		а		The operator shall establish a procedure to ensure that in-flight fuel checks and		а		The operator shall establish a procedure to ensure that in-flight fuel checks and
			board to ensure it is not less than the				fuel management are carried out.				
			fuel required to proceed to an				ruer management are carried out.				fuel management are carried out.
			aerodrome where a safe landing can be								
			made with the planned final reserve fuel								
			remaining.				The wilst is service all shell show that		h		The vilation common dehall ensure that
					b		The pilot in command shall ensure that		b		The pilot in command shall ensure that
							fuel checks are carried out at regular intervals to confirm that the amount of				fuel checks are carried out at regular intervals to confirm that the amount of
							usable fuel remaining in flight is not less				usable fuel remaining in flight is not less
							than the fuel required to proceed to an				than the fuel required to proceed to an
							aerodrome/landing site where a safe				aerodrome/landing site where a safe
							landing can be made, with the planned				landing can be made, with the planned
							final reserve fuel remaining.				final reserve fuel remaining.
							Note 1: The protection of final reserve				Note 1: The protection of final reserve
							fuel is intended to ensure a safe landing				fuel is intended to ensure a safe landing
							at any aerodrome when unforeseen				at any aerodrome when unforeseen
							occurrences may not permit safe				occurrences may not permit safe
							completion of an operation as originally				completion of an operation as originally
	1						planned. Guidance on flight planning				planned. Guidance on flight planning
	1						including the circumstances that may				including the circumstances that may
	1						require re-analysis, adjustment and/or				require re-analysis, adjustment and/or
	1						re-planning of the planned operation				re-planning of the planned operation
	1						before take-off or en-route, is contained				before take-off or en-route, is contained
	1						in the Flight Planning and Fuel				in the Flight Planning and Fuel
1	1			1	1	l	Management Manual (ICAO Doc 9976).	1	Ì	1	Management Manual (ICAO Doc 9976).

		с	The pilot-in-command shall request	с	The pilot-in-command shall request
			delay information from ATC when		delay information from ATC when
			unanticipated circumstances may result		unanticipated circumstances may result
			in landing at the destination		in landing at the destination
			aerodrome with less than the final		aerodrome with less than the final
			reserve fuel plus any fuel required to		reserve fuel plus any fuel required to
			proceed to an alternate aerodrome or		proceed to an alternate aerodrome or
			the fuel required to operate to an		the fuel required to operate to an
			isolated aerodrome.		isolated aerodrome.
b	The pilot-in-command shall advise ATC	d	The pilot-in-command shall advise ATC	d	The pilot-in-command shall advise ATC
	of a minimum fuel state by declaring		of a minimum fuel state by declaring		of a minimum fuel state by declaring
	MINIMUM FUEL when, having		MINIMUM FUEL when, having		MINIMUM FUEL when, having
	committed to land at a specific		committed to land at a specific		committed to land at a specific
	aerodrome, the pilot calculates that any		aerodrome, the pilot calculates that any		aerodrome, the pilot calculates that any
	change to the existing clearance to that		change to the existing clearance to that		change to the existing clearance to that
	aerodrome, or other air traffic delays,		aerodrome, or other air traffic delays,		aerodrome, or other air traffic delays,
	may result in landing with		may result in landing with		may result in landing with
	less than the planned final reserve fuel		less than the planned final reserve fuel		less than the planned final reserve fuel

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Management Manual (ICAO Doc 9976).

August 2016

Management Manual (ICAO Doc 9976).

	C	Note 1: The declaration of MINIMUM FUEL informs ATC that all planned aerodrome options have been reduced to a specific aerodrome of intended landing and any change to the existing clearance, or air traffic delays, may result in landing with less than the planned final reserve fuel. This is not an emergency situation but an indication that an emergency situation is possible should any additional delay occur. The pilot-in-command shall declare a situation of fuel emergency by broadcasting MAYDAY MAYDAY MAYDAY FUEL, when the calculated usable fuel estimated to be available		e		Note 1: The declaration of MINIMUMFUEL informs ATC that all plannedaerodrome options have been reducedto a specific aerodrome of intendedlanding and any change to the existingclearance, or air traffic delays, mayresult in landing with less than theplanned final reserve fuel. This is not anemergency situation but an indicationthat an emergency situation is possibleshould any additional delay occur.Note 2: Guidance on declaring minimumfuel is contained in the Flight Planningand Fuel Management Manual (ICAODoc 9976).The pilot-in-command shall declare asituation of fuel emergency bybroadcasting MAYDAY MAYDAYMAYDAY FUEL, when the calculatedusable fuel estimated to be available		e		Note 1: The declaration of MINIMUMFUEL informs ATC that all plannedaerodrome options have been reducedto a specific aerodrome of intendedlanding and any change to the existingclearance, or air traffic delays, mayresult in landing with less than theplanned final reserve fuel. This is not anemergency situation but an indicationthat an emergency situation is possibleshould any additional delay occur.Note 2: Guidance on declaring minimumfuel is contained in the Flight Planningand Fuel Management Manual (ICAODoc 9976).The pilot-in-command shall declare asituation of fuel emergency bybroadcasting MAYDAYMAYDAY FUEL, when the calculatedusable fuel estimated to be available
		upon landing at the nearest aerodrome where a safe landing can be made is less				upon landing at the nearest aerodrome where a safe landing can be made is less				upon landing at the nearest aerodrome where a safe landing can be made is less
		than the planned final reserve fuel.Note 2: The planned final reserve fuelrefers to the value calculated in 91.280and is the minimum amount of fuelrequired upon landing at anyaerodrome.				than the planned final reserve fuel. Note 3: The planned final reserve fuel refers to the value calculated in 135.280 and is the minimum amount of fuel required upon landing at any aerodrome.				than the planned final reserve fuel.Note 3: The planned final reserve fuelrefers to the value calculated in 121.280and is the minimum amount of fuelrequired upon landing at anyaerodrome.
		Note 3: The words "MAYDAY FUEL" describe the nature of the distress conditions as required in Annex 10, Volume II, 5.3.2.1, b) 3.								
91.310		Use of oxygen	135.310			Use of oxygen	121.310			Use of oxygen
	а	The pilot-in-command of an aircraft with a non-pressurised cabin shall ensure that: before the aircraft reaches flight level 130 the method of use of the oxygen		а		The operator shall ensure that: All flight crew members, engaged in performing duties essential to the safe		а		The operator shall ensure that: All flight crew members, engaged in performing duties essential to the safe
		provided in the aircraft is demonstrated to all passengers; and				operation of an aircraft in flight, use supplemental oxygen continuously whenever the cabin pressure altitude exceeds 10,000 feet.				operation of an aircraft in flight, use supplemental oxygen continuously whenever the cabin pressure altitude exceeds 10,000 feet.
	b	when flying above flight level 130 all passengers and crew members are instructed to use oxygen; and								
	c d	during any period when the aircraft isflying above flight level 100 up to andincluding flight level 130, oxygen is usedby all the flight crew of the aircraft forthat part of the flight at those altitudesthat is of more than 30 minutesduration; andduring any period when the aircraft is								
	0	 flying above flight level 130 oxygen is used continuously by all the flight crew of the aircraft. an aircraft with a non-pressurised cabin 								
	e	is not operated above flight level 250.								
	-+		135.315	а		Cosmic radiation The operator shall take appropriate	121.315	а		Cosmic radiation The operator shall take appropriate
					1	measures to: assess the exposure to cosmic radiation when in flight of all crew members who are liable to be subject to cosmic radiation in excess of 1 millisievert (mSv) in any period of 12 months;			1	measures to: assess the exposure to cosmic radiation when in flight of all crew members who are liable to be subject to cosmic radiation in excess of 1 millisievert (mSv) in any period of 12 months;
					2	take into account the assessed exposure when organising work schedules with a view to reducing the doses of highly exposed crew members;			2	take into account the assessed exposure when organising work schedules with a view to reducing the doses of highly exposed crew members;
					3	inform the crew members concerned of the health risks their work involves; and			3	inform the crew members concerned of the health risks their work involves; and
					4	retain assessments of exposure to cosmic radiation for the periods specified in 91.1265. Note: The exposure of crew in aircraft that do not generally operate above 26,000 feet is likely to result in an annual dose less than 1 mSv in any 12 month period.			4	retain assessments of exposure to cosmic radiation for the periods specified in 91.1265. Note: The exposure of crew in aircraft that do not generally operate above 26,000 feet is likely to result in an annual dose less than 1 mSv in any 12 month period.
				b		The operator shall ensure that the working schedules for female crew members, once they have notified the operator that they are pregnant, keep		b		The operator shall ensure that the working schedules for female crew members, once they have notified the operator that they are pregnant, keep

Issue 2

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						the equivalent dose to the foetus as low as can reasonably be achieved and in any case ensure that the dose does not exceed 1 mSv for the remainder of the				the equivalent dose to the foetus as low as can reasonably be achieved and in any case ensure that the dose does not exceed 1 mSv for the remainder of the
				с		pregnancy. The operator shall ensure that for any flight operated above 49,000 feet:		с		pregnancy. The operator shall ensure that for any flight operated above 49,000 feet:
					2	procedures for operating above 49,000 feet and for the use of monitoring equipment shall be specified in the operations manual; a descent to 49,000 feet or lower is initiated as soon as practicable if the limit values of cosmic radiation dose rate specified in the operations manual are exceeded.			2	 procedures for operating above 49,000 feet and for the use of monitoring equipment shall be specified in the operations manual; a descent to 49,000 feet or lower is initiated as soon as practicable if the limit values of cosmic radiation dose rate specified in the operations manual are exceeded.
			135.320			Manipulation of controls	121.320			Manipulation of controls
				a	1	The operator shall ensure that no person is permitted to manipulate the flight controls of an aircraft on a flight for the purpose of commercial air transport, unless the person is: a flight crew member qualified in		a	1	The operator shall ensure that no person is permitted to manipulate the flight controls of an aircraft on a flight for the purpose of commercial air transport, unless the person is: a flight crew member qualified in
						accordance with Subpart J and authorised by the operator; or				accordance with Subpart J and authorised by the operator; or
					2 i	an authorised by the operator, of an authorised representative of the Director, qualified in accordance with Subpart J who: has the permission of the operator and			2 i	an authorised by the operator, of an authorised representative of the Director, qualified in accordance with Subpart J who: has the permission of the operator and
	-				11	the pilot-in-command; and is performing a required duty.		-	11	the pilot-in-command; and is performing a required duty.
				b		Where a passenger occupies a seat with access to flight controls the pilot-in- command shall brief that passenger to ensure no intentional or inadvertent				
						manipulation of flight controls or				
91.325		Flight crew communication	135.325			instruments occurs. Flight crew communication	121.325			Flight crew communication
51.525		When operating under IFR all flight crew members required to be on flight deck duty shall communicate through boom	133.323			The operator shall ensure that all flight crew members required to be on flight deck duty shall communicate through				The operator shall ensure that all flight crew members required to be on flight deck duty shall communicate through
		or throat microphones below the transition altitude.				boom or throat microphones below the transition altitude.				boom or throat microphones below the transition altitude.
			135.330			Locking of flight-crew compartment door	121.330			Locking of flight-crew compartment door
				a		The operator shall: ensure that on all aeroplanes which are		а		The operator shall: ensure that on all aeroplanes which are
						equipped with a flight crew compartment door, the door is closed and locked from the time all external				equipped with a flight crew compartment door, the door is closed and locked from the time all external
						doors are closed following embarkation until any such door is opened for disembarkation, except when necessary to permit access and egress by authorised persons; and				doors are closed following embarkation until any such door is opened for disembarkation, except when necessar to permit access and egress by authorised persons; and
				b		establish procedures whereby cabin crew members are able to notify flight crew discreetly of any security situation which may arise in the aircraft cabin.		b		establish procedures whereby cabin crew members are able to notify flight crew discreetly of any security situation which may arise in the aircraft cabin.
91.335	+	Fuelling operations	135.335			Fuelling operations	121.335	1		Fuelling operations
		The pilot-in-command shall ensure that:		а		The operator shall ensure that an aircraft is not refuelled or defuelled when passengers are embarking, on board or disembarking unless:		а		The operator shall ensure that an aircraft is not refuelled or defuelled when passengers are embarking, on board or disembarking unless:
	а	no aircraft is refuelled or defuelled whilst passengers are embarking, on board or disembarking, or with a helicopter rotor turning; and			1	the aircraft is properly attended by qualified personnel ready to initiate and direct an evacuation by the most practical and expeditious means available; and			1	the aircraft is properly attended by qualified personnel ready to initiate an direct an evacuation by the most practical and expeditious means available; and
	b	appropriate precautions are taken, particularly when refuelling with fuels other than aviation kerosene, or when refuelling results in a mixture of aviation kerosene with other aviation turbine fuels, or when an open line is used.		b	2	two-way communication is maintained by use of the aeroplane inter- communication system or other suitable means between the ground crew supervising the refuelling or defuelling and the qualified personnel on board the aircraft. Nothing in this paragraph requires the deployment of integral airstairs or the opening of emergency exits as a		b	2	two-way communication is maintained by use of the aeroplane inter- communication system or other suitabl means between the ground crew supervising the refuelling or defuelling and the qualified personnel on board the aircraft. Nothing in this paragraph requires the deployment of integral airstairs or the opening of emergency exits as a
				с		prerequisite to refuelling or defuelling. The operator shall ensure that a helicopter is not refuelled when passengers are embarking, on board,				prerequisite to refuelling or defuelling.

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							disembarking or when the rotor is turning unless the operator is granted specific authorisation by the Director specifying the conditions under which such refuelling may be carried out.				
91.340			Fuel spillage	135.340			Fuel spillage	121.340		Fuel spillage	
	а		When refuelling or defuelling, if fuel is								
			spilled and is likely to endanger persons								
		1	or property: refuelling or defuelling shall be stopped		-						
		-	immediately and emergency services,								
			where available, are summoned; and								
		2	immediate action shall be taken to cover the fuel with sand, sawdust, dry earth, or								
			an agent such as foam or dry chemical								
			extinguisher powder, to reduce the fire								
		2	hazard; and the aircraft shall be moved clear of the						-		
		3	contaminated area, with the agreement								
			of any attending emergency services,								
			before any engine is started.								
					b		The operator shall have a system for		b	-	hall have a system for
91.345			Completion of journey log and				dealing with fuel spillage.			dealing with fu	er spinage.
521010			recording of defects								
	а		The pilot in command of an aircraft								
			registered in Guernsey shall, on the completion of the flight, or series of								
			flights:				1				
	Ì	1	complete the journey log book or								
	<u> </u>	2	equivalent record; and						_		
		2	complete the technical log, or other applicable maintenance records, and			ſ					
			record any aircraft defects that have								
	<u> </u>		been identified during the flight.								
91.350			Notification of accidents and occurrences								
	а		The pilot-in-command shall be		$\left \right $	-					
	÷.		responsible for notifying the nearest								
			appropriate authority by the quickest								
			available means of any accident involving the aircraft resulting in serious								
			injury or death of any person or								
			substantial damage to the aircraft or								
	b		property. The pilot-in-command shall notify						-		
	5		occurrences in accordance with GAR								
			Part 13.								
91.355			Occupation of seats and wearing of restraints								
	а		The pilot-in-command of an aircraft shall								
	ŭ		require each person on the aircraft to								
			occupy a seat or berth and to fasten his								
			safety belt, or restraining belt, or if equipped, shoulder harness or single								
			diagonal shoulder belt:								
		1	during each take-off and landing; and								
		2	when the aircraft is flying at a height of								
			less than 1,000 feet above the surface unless operational requirements								
			preclude such restraint and the								
			procedures are approved by the								
		3	Director; and at other times when the pilot-in-		+		1		+		
		5	command considers it necessary for his								
	<u> </u>		safety; and								
		4	during aerobatic flight; and		+				-		
	b	5	at all times in an open cockpit aircraft. The pilot-in-command of an aircraft shall		$\left \right $				-		
			require each passenger to place his seat								
			in the take-off and landing configuration								
	-		during take-off and landing. Paragraph (a)(1), (2), and (3) shall not		\square				-		
	С		Paragraph (a)(1), (2), and (3) shall not apply to a child of less than 2 years of								
			age if the child:								
		1	is held by an adult who is occupying a								
			seat or berth, provided the child is securely restrained; or								
	+	2	occupies a seat equipped with an		+	-			+		
		_	approved child restraint system, if the						1		
	1		child does not exceed the specified mass						1		
			limit for that system and is accompanied								

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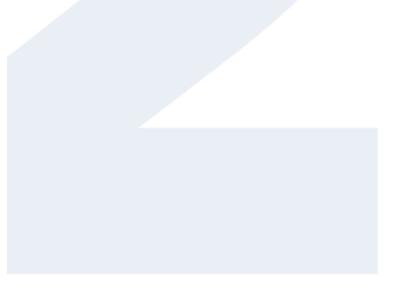
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8 he does not initiate any manoeuvre in the direction of any spectator area. 1 b Paragraph (a) shall not apply to private aviation events that are not open to the general public. 1 91.370 Aerial work and specialised operations 1 1 a Aerial work and specialised operations 1 1 91.370 Aerial work and specialised operations 1 1 a Aerial work and specialised operations 1 1 b Aerial work and specialised operations 1 1 a Aerial work curve in the direction of 0 the Air Navigation (Bailiwick of Guernsey) Law, 2012. 1 1 91.375 Aerial work certificates are regulated in accordance with section 70 of the Air Navigation (Bailiwick of Guernsey) Law, 2012. 1 1 91.375 Ireserved] 1 1 1 91.380 Ireserved] 1 1 1 91.390 Dropping of persons — Parachuting 1 1 1 91.390 Ireserved] 1 1 1 91.390 Ireserved] 1 1 1 9 Ireserved] 1 1							1			
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91.370 A erial work and specialised operations Image: Constraint of				-						
a Aerial work is regulated in accordance with Sections 138 to 144 of the Air Navigation (Bailiwick of Guernsey) Law, 2012. b Aerial work certificates are regulated in accordance with section 70 of the Air Navigation (Bailiwick of Guernsey) Law, 2012. b Aerial work certificates are regulated in accordance with section 70 of the Air Navigation (Bailiwick of Guernsey) Law, 2012. b Aerial work certificates are regulated in accordance with section 70 of the Air Navigation (Bailiwick of Guernsey) Law, 2012. c c c c freserved] c<								L		
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Image: Navigation (Bailiwick of Guernsey) Law, 2012.Image: SolutionImage: Solution<				-		_				
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91.375Image: served							1			
91.380 Image: Second shall ensure that Image: Second shall					\square		ļ	<u> </u>		
91.385IIIIIII91.390VDropping of persons — ParachutingVVVVVVaIIreserved]VVVVVVVbIIreserved]VVVVVVVcIIreserved]VVVVVVVdThe pilot-in-command shall ensure thatVVVVVVV	91.375			[reserved]			1			
91.385IIIIIII91.390VDropping of persons — ParachutingVVVVVVaIIreserved]VVVVVVVbIIreserved]VVVVVVVcIIreserved]VVVVVVVdThe pilot-in-command shall ensure thatVVVVVVV	91.380			[reserved]				1		
91.390Dropping of persons — ParachutingIIIIIIIa[reserved]IIIIIIIIb[reserved]IIIIIIIIIcI[reserved]IIIIIIIIIdThe pilot-in-command shall ensure thatIIIIIIIII			\vdash				1	\vdash		
a [reserved] a a [reserved] a			\vdash		\vdash			<u> </u>		
b [reserved] l <tdl< th=""><td>91.390</td><td></td><td>\mid</td><td></td><td></td><td></td><td></td><td>_</td><td></td><td></td></tdl<>	91.390		\mid					_		
c [reserved] c [reserved] c [a] d The pilot-in-command shall ensure that Image: Command shall ensure that Image: Command shall ensure that Image: Command shall ensure that		а		[reserved]						
c [reserved] c [reserved] c [served] d The pilot-in-command shall ensure that Image: Command shall ensure that Image: Command shall ensure that		b		[reserved]	\vdash		1	\square		
d The pilot-in-command shall ensure that d <			\vdash		\vdash		1	\vdash		
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				all persons to be carried are briefed						

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		before take-off on the relevant procedures to be followed (including normal, abnormal, and emergency procedures) and any aircraft equipment to be used during the parachuting operation.				
e		Nothing in this paragraph:				
	1	applies to the descent of persons by parachute from an aircraft in an emergency;				
	2	prohibits the lowering of any person in an emergency or for the purpose of saving life;				
	3	prohibits the disembarkation of any person from a helicopter hovering in ground effect in accordance with normal aviation practice; or				
	4	prohibits the lowering of any person from a helicopter to the surface in accordance with the terms of a permission granted by the Director as required under 91.370.				







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Guernsey Aviatio Requirements

Part 91		Requirement	Part 135			Requirement	Part 121			Requirement
				Su	bpa	rt C - Operating Limitations				
91.400		Meteorological conditions — VFR flight	135.400			Meteorological conditions — VFR flight	121.400			Meteorological conditions — VFR flight
		A flight to be conducted in accordance with the visual flight rules shall not be commenced unless current meteorological reports or a combination of current reports and forecasts indicate that the meteorological conditions along the route or that part of the route to be flown under the visual flight rules will, at the appropriate time, be such as to				The operator shall ensure that a commercial air transport operation is not carried out under VFR above more than scattered cloud unless:				The operator shall ensure that a commercial air transport operation is not carried out under VFR above more than scattered cloud unless:
		enable compliance with these rules.		a b		the aircraft meets the requirements for IFR flight and the required minimum flight crew for IFR operation, holding current instrument rating qualifications, is performing the operation; and the instruments and equipment, including radio navigation equipment, required for IFR flight are operative; and the aircraft is multi-engine, and is		a b		the aircraft meets the requirements for IFR flight and the required minimum flight crew for IFR operation, holding current instrument rating qualifications, is performing the operation; and the instruments and equipment, including radio navigation equipment, required for IFR flight are operative; and the aircraft is multi-engine, and is
				c d		capable, with one engine inoperative, of maintaining a net flight path that has a positive slope at 1,000 feet above the cloud; and the aircraft carries radio navigation equipment enabling it to be navigated		c d		capable, with one engine inoperative, of maintaining a net flight path that has a positive slope at 1,000 feet above the cloud; and the aircraft carries radio navigation equipment enabling it to be navigated
				e		by IFR to an aerodrome where an instrument approach procedure may be carried out for landing; and the aircraft carries sufficient fuel and fuel reserves to proceed by IFR to an aerodrome where an instrument approach procedure may be carried out for landing.		e		by IFR to an aerodrome where an instrument approach procedure may be carried out for landing; and the aircraft carries sufficient fuel and fuel reserves to proceed by IFR to an aerodrome where an instrument approach procedure may be carried out for landing.
			135.405			Commercial air transport aeroplane operations at night or in IMC				
						engine aeroplane that is unable to maintain a positive climb gradient in the event of an engine failure on take-off, shall not be flown for the purpose of commercial air transport at night or in instrument meteorological conditions unless it is flying on a special VFR flight in a control zone. Note: The additional operating limitations for aeroplanes described in 135.405 and operated under this Part are included in the aeroplane performance requirements applicable				
91.410		Meteorological conditions — IFR flight	135.410			under 135.565 Meteorological conditions — IFR flight	121.410			Meteorological conditions — IFR flight
	a	A flight to be conducted in accordance with the instrument flight rules shall not: take off from the departure aerodrome unless the meteorological conditions, at the time of use, are at or above the aerodrome operating minima for that operation; and		a	1	Notwithstanding 91.410, the operator shall ensure that an IFR flight does not take off unless current meteorological reports, or a combination of current reports and forecasts indicate that the meteorological conditions will at the estimated time of use at the aerodrome of intended landing or at each nominated alternate aerodrome be at or above the applicable aerodrome operating minima; and		a	1	Notwithstanding 91.410, the operator shall ensure that an IFR flight does not take off unless current meteorological reports, or a combination of current reports and forecasts indicate that the meteorological conditions will at the estimated time of use at the aerodrome of intended landing or at each nominated alternate aerodrome be at or above the applicable aerodrome operating minima; and
	b	take off or continue beyond the point of in-flight re-planning unless at the aerodrome of intended landing or at each alternate aerodrome to be selected in compliance with GAR 91.265, current meteorological reports or a combination of current reports and forecasts indicate that the meteorological conditions one hour before and after the earliest and latest time of arrival will be at or above the aerodrome operating minima for that operation.			2	the margin of time established for planning the estimated time of use of an aerodrome shall be specified in the operations manual and approved by the Director.			2	the margin of time established for planning the estimated time of use of ar aerodrome shall be specified in the operations manual and approved by the Director.
91.415		IFR departure limitations	135.415			IFR departure limitations	121.415			IFR departure limitations
	а	A departure under IFR shall not be		а		The operator shall ensure that:		а		The operator shall ensure that:

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above the minima for IRR take-off determined in accordance with GAR meteorological conditions are below prescribed IRR landing minima unless indicate that a successful approach and landing can be made at the take-off alternate; and meteorological reports indicate that a successful approach and landing can be made at the take-off alternate; and 2 the relevant RVR is at least 150 m RVR (Category A, B, C aeroplanes, and helicopters) or 200 m RVR (Category D aeroplanes), unless conducted in accordance with a approval issued by the State of Registry. 2 Low Visibility Take-off (LVTO) operations are conducted in accordance with Subpart SPA. 2 Low Visibility Take-off (LVTO) operations are conducted in accordance with Subpart SPA. b In the case of an aircraft registered in Guernsey, approval for take-off helow 150 m RVR (Category A, B, C aeroplanes, and helicopters) or 200 m RVR (Category D aeroplanes) may be issued by the Director in accordance with Subpart SPA. Minimum flight altitudes 121.420 Minimum flight altitudes i i i Minimum flight altitudes 121.420 Minimum flight altitudes i i i i i the eacuracy and reliability with which the position of the aircraft can be determined; and i the accuracy and reliability with which the position of the aircraft can be determined; and i the accuracy and reliability with which the position of the aitmeters used; and i i i i i i i t	minima unless s and forecasts sful approach and at the take-off (LVTO) operations rdance with des sure that:
2 the relevant RVR is at least 150 m RVR (Category A, B, C aeroplanes, and helicopters) or 200 m RVR (Category D aeroplanes), unless conducted in accordance with an approval issued by the State of Registry. 2 Low Visibility Take-off (LVT0) operations are conducted in accordance with Subpart SPA. 2 Low Visibility Take-off are conducted in accordance with Subpart SPA. b In the case of an aircraft registered in Guernsey, approval for take-off below 150 m RVR (Category A, B, C aeroplanes, and helicopters) or 200 m RVR (Category D aeroplanes) may be issued by the Director in accordance with Subpart SPA. Minimum flight altitudes 121.420 Minimum flight altitudes a Minimum flight altitudes 121.420 Minimum flight altitude factors shall be taken into account: after shall be taken into account: the position of the aircraft can be determined; and determined; and 1 the accuracy and reliability with which the position of the aircraft can be altimeters used; and 2 the inaccuracies in the indications of the altimeters used; and	rdance with des sure that:
Guernsey, approval for take-off below 150 m RVR (Category A, B, C aeroplanes, and helicopters) or 200 m RVR (Category D aeroplanes) may be issued by the Director in accordance with Subpart SPA.Minimum flight altitudes121.420Minimum flight altitudeImage: Constraint of the accuracy of the accuracy and the accuracy of the accuracy and reliability with which the position of the aircaft can be determined; and1the accuracy and reliability with which the position of the aircaft can be altimeters used; and11the accuracies in the indications of the altimeters used; and22the inaccuracies in the altimeters used; and	sure that:
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altimeters used; and altimeters used; and altimeters used; and	
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unfavourable meteorological conditions unfavourable meteorological conditions unfavourable meteorological conditions (e.g. severe turbulence and descending air currents); and air currents); and	blogical conditions e and descending
5 possible inaccuracies in aeronautical charts; and 5 possible inaccuracies in aeronautical charts; and	n aeronautical
6 all relevant airspace restrictions; and 6 all relevant airspace restrictions; and	-
7 any minimum flight altitude established 7 any minimum flight altitude established 7 any minimum flight altitude established 9 by the State in which the operation 1 takes place. takes place. takes place. takes place.	the operation
b The method used to establish minimum b The method used to establish minimum flight altitudes shall be specified in the flight altitudes shall be specified in the flight altitudes shall be specified in the flight altitudes shall be operations manual and approved by the operations manual and approved by the operations manual and Director in accordance with any Director in accordance conditions specified therein. conditions specified therein. conditions specified therein. conditions specified therein.	e specified in the d approved by the e with any
91.425 Approach and landing conditions 135.425 Approach and landing conditions 121.425 Approach and landing	_
Notwithstanding 91.425, the operator Notwithstanding 91.42 shall ensure that: shall ensure that:	25, the operator
A flight shall not be continued towards the aerodrome of intended landing, unless the latest available information indicates that at the expected time of arrival, a landing can be effected at that aerodrome or at least one destination alternate aerodrome, in compliance with the appropriate operating minima. A flight shall not be continued towards the point of in-flight does not continue beyond the point of in-flight re-planning unless current meteorological reports, or a combination of current reports and forecasts indicate that the meteorological conditions will at the estimated time of use at the aerodrome of intended landing or at each nominated alternate aerodrome be at or above the applicable aerodrome operating minima.	e-planning unless al reports, or a at reports and t the ions will at the at the aerodrome r at each aerodrome be at or
91.430 Commencement and continuation of approach	
a An approach may be commenced regardless of the reported visibility or RVR but shall not be continued below 1,000 feet (300 m) above the aerodrome/heliport or into the final approach segment, unless the reported visibility or controlling RVR is above the specified minimum. Image: Commence of the reported of the reporte	
b If, after entering the final approach segment or after descending below 1,000 feet (300 m) above the aerodrome/heliport, the reported visibility or controlling RVR falls below the specified minimum, the approach may be continued to DA/H or MDA/H. Image: Continued to the text of t	
below the DA/H or MDA/H unless the specified visual reference is established at DA/H or MDA/H and is maintained.	i i i i i i i i i i i i i i i i i i i

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Guernsey Aviatio Requirements

		The operator shall ensure that	The operator shall ensure that
		procedures for carrying out instrument	procedures for carrying out instrument
		approaches are specified as standard	approaches are specified as standard
		operating procedures and included	operating procedures and included
		within the operations manual.	within the operations manual.



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Guernsey Aviatio Requirements

Part 91	_	Requirement	Part 135			Requirement	Part 121			Requirement
				9	Subp	part D - Mass and Balance				
91.450		Aircraft load limitations The holder of a certificate, licence, permit or approval shall ensure that the limitations contained in the aircraft flight manual, or other approved document, relating to the mass and balance of the aircraft are complied with.								
			135.455			Mass and balance documentation The operator shall ensure that	121.455			Mass and balance documentation The operator shall ensure that
				а		mass and balance documentation is completed prior to each commercial air transport operation;		а		mass and balance documentation is completed prior to each commercial air transport operation;
				b		the mass and balance documentation enables the pilot-in command to determine that the load and its distribution is such that the mass and balance limits of the aircraft are not exceeded; the person preparing the mass and		b		the mass and balance documentation enables the pilot-in command to determine that the load and its distribution is such that the mass and balance limits of the aircraft are not exceeded; the person preparing the mass and
						balance documentation is named on the document;		-1		balance documentation is named on the document;
				d		the person supervising the loading of the aircraft confirms by signature that the the load and its distribution are in accordance with mass and balance documentation;		d		the person supervising the loading of the aircraft confirms by signature that the the load and its distribution are in accordance with mass and balance documentation; the mass and balance document is
				e		the mass and balance document is acceptable to the pilot-in-command; acceptance being indicated by a countersignature or equivalent.		e		the mass and balance document is acceptable to the pilot-in-command; acceptance being indicated by a countersignature or equivalent. the mass and balance documentation
				T	1	the mass and balance documentation must contain the following: name of pilot-in-command;		T	1	name of pilot-in-command;
					2	date of the operation;			2	date of the operation;
					3 4	aircraft type and registration; and flight number or estimated time of		-	3 4	aircraft type and registration; and flight number or estimated time of
						departure;				departure;
					5	the total of the aircraft empty mass, the mass of any removable equipment, consumables, unusable oil, unusable fuel, and the mass of crew; the mass of passengers, goods, baggage, usable oil, and usable fuel;			5	the total of the aircraft empty mass, the mass of any removable equipment, consumables, unusable oil, unusable fuel, and the mass of crew; the mass of passengers, goods, baggage, usable oil, and usable fuel;
						Note: Details of the passengers and descripton of any cargo carried will be contained in passenger and cargo manifest. The requirement for carrriage of such manifests is contained in 135.55.				Note: Details of the passengers and descripton of any cargo carried will be contained in passenger and cargo manifest. The requirement for carrriage of such manifests is contained in 121.55.
					7	loaded aircraft mass;			7	loaded aircraft mass;
					8 9	evidence that the centre of gravity is within the specified limits, except where this is recorded by the operator in another document; the maximum allowable mass for the operation, including zero fuel mass, take-off mass, and landing mass for the operation; and			8	evidence that the centre of gravity is within the specified limits, except where this is recorded by the operator in another document; the maximum allowable mass for the operation, including zero fuel mass, take-off mass, and landing mass for the operation; and
					10	• •			10	the name of the person preparing the documentation.
				g		procedures and limitations have been established to deal with last minute changes to the load, and these procedures are described in the operations manual.		g		procedures and limitations have been established to deal with last minute changes to the load, and these procedures are described in the operations manual.
				h		Notwithstanding (a), where a multi- sector operation is being conducted, mass and balance documentation is not required for each sector if operations are conducted in accordance with procedures in the operations manual and:				
					1	mass and balance documentation is prepared for the first flight sector of each series flights;all sectors are performed under VFR				
					3	all sectors depart from, remain within 25 NM of, and return to, the same aerodrome or heliport; and				

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121.460/135.460 Table 1

		Passenger Seats Available	
	1 - 5	6 - 9	10 -19
Male passengers	104 kg	96 kg	95 kg
Female passengers	86 kg	84 kg	84 kg
Children occupying a separate seat (up to 12 years of age)	38 kg	38 kg	38 kg
Infants under 2 years if sharing a seat with an adult	0 kg	0 kg	0 kg
Flight Crew	87 kg	87 kg	87 kg
Cabin crew	78 kg	78 kg	78 kg

121.460 Table 2

		Passenger Seats Available	
	20 or n	nore	30 or more
	Male	Female	All adult
Passengers on all flights	88 kg	82 kg	84 kg
Children (between 2-12 years) or Infants under 2 years if	38 kg	38 kg	38 kg
occupying a separate seat			
Infants under 2 years if sharing a seat with an adult	0 kg	0 kg	0 kg

	Iviale	remale
Flight Crew	87 kg	85 kg
Cabin crew	82 kg	75 kg

Guernsey Aircraft Registry

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Guernsey Aviatio Requirements

Part 91		Requirement	Part 135			Requirement	Part 121			Requirement
					Sı	ubpart E - Performance				
91.500		Performance — general								
		Before a flight is commenced, it shall be determined that, having regard to performance in the conditions to be expected on the intended flight, and to any obstructions at the places of departure and intended destination and on the intended route, the aircraft is capable of safely taking off, reaching and maintaining a safe height thereafter and making a safe landing at the place of intended destination.								
			135.502			Performance planning – aeroplanes	121.502	-		Performance planning – aeroplanes
			135.502	a	1	The operator shall ensure that: when determining the performance of the aeroplane, account is taken of at least the following factors: the mass of the aeroplane; and	121.502	a	1	The operator shall ensure that: when determining the performance of the aeroplane, account is taken of at least the following factors: the mass of the aeroplane; and
					2	the pressure altitude and temperature;			2	the pressure altitude and temperature;
					3	and wind - not more than 50 % of the reported head-wind component, or if operations with a tail-wind are permitted and performance data is provided, not less than 150 % of the reported tail-wind component; and			3	and wind - not more than 50 % of the reported head-wind component, or if operations with a tail-wind are permitted and performance data is provided, not less than 150 % of the reported tail-wind component; and
					4	aeroplane operating techniques; and			4	aeroplane operating techniques; and
Ⅰ −−−−∔	-+				5 6	runway gradient; and condition of runway; and		-	5 6	runway gradient; and condition of runway; and
					6 7	water surface state (where relevant).			6 7	water surface state (where relevant).
				b	/	due account is taken of aeroplane configuration, environmental conditions and the operation of systems which may have an adverse effect on performance. The development of procedures for		b	/	due account is taken of aeroplane configuration, environmental conditions and the operation of systems which may have an adverse effect on performance. The development of procedures for
						obstacle avoidance during take-off, landing and balked landing takes into account aerodrome obstacle data.				obstacle avoidance during take-off, landing and balked landing takes into account aerodrome obstacle data.
			135.505			Performance planning – helicopters				
						The operator shall ensure that when determining the performance of the helicopter:				
				а		due account is taken of helicopter				
				b		operating technique. due account is taken of helicopter configuration, environmental conditions and the operation of systems which may				
			135.510	c d		have an adverse effect on performance. the mass of the helicopter at the start of the take-off; or in the event of in-flight replanning, at the point from which the revised operational flight plan applies, is not greater than the mass at which the requirements of the applicable Performance Class can be complied with for the planned flight. Allowance shall be made for expected reductions in mass as the flight proceeds, and for fuel jettisoning where applicable. the mass of the helicopter at the time of take-off, or at the expected time of landing at the destination and at any planned alternate does not exceed the maximum mass at which the applicable noise certification has been granted unless otherwise authorised by the Director. the development of procedures for obstacle avoidance during take-off, landing and balked landing takes into account aerodrome or heliport obstacle data. Accuracy of available data	121.510			Accuracy of available data
			135.510			Accuracy of available data The operator shall take account of the accuracy of charts and other data used during performance planning, when assessing whether a flight can be safely operated.	121.510			Accuracy of available data The operator shall take account of the accuracy of charts and other data used during performance planning, when assessing whether a flight can be safely operated.
			125.515			Performance data	121.515			Performance data

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		1		The operator shall ensure that for each			· ·	The operator shall ensure that for each
				aircraft it operates the performance data used is:				aeroplane it operates the performance data used is:
		а		contained in the aircraft flight manual; or		а		contained in the aeroplane flight manual; or
		b		where provided by the aircraft manufacturer or other source, contained		b	,	where provided by the aircraft manufacturer or other source, contained
		с		in an equivalent document; and available to all flight crew or other		С		in an equivalent document; and available to all flight crew or other
				persons responsible for flight planning or aircraft dispatch.				persons responsible for flight planning or aircraft dispatch.
	135.520			Runway friction coefficient The operator shall ensure that where	121.520			Runway friction coefficient The operator shall ensure that where
				performance data has been determined using measured coefficient of runway friction, the pilot-in-command complies				performance data has been determined using measured coefficient of runway friction, the pilot-in-command complies
				with a procedure that correlates the measured coefficient of runway friction				with a procedure that correlates the measured coefficient of runway friction
				and the effective braking coefficient of friction of that aeroplane type, over the required speed range for the existing runway conditions.			1	and the effective braking coefficient of friction of that aeroplane type, over the required speed range for the existing runway conditions.
	135.525			Runway surface conditions The operator shall ensure that:	121.525			Runway surface conditions The operator shall ensure that:
		а		runway surface conditions have been taken account of in any performance		а	1	runway surface conditions have been taken account of in any performance
		b		calculations made; and runway surface conditions do not		b		calculations made; and runway surface conditions do not
	405	D		preclude a safe aircraft departure.	494	U U		preclude a safe aircraft departure.
	135.530			Wet and contaminated runway surfaces The operator shall ensure that where it is	121.530			Wet and contaminated runway surfaces The operator shall ensure that where it
				necessary for a take-off to be made on a runway contaminated with water, slush, snow or ice account is taken of:				is necessary for a take-off to be made on a runway contaminated with water, slush, snow or ice account is taken of:
		а		the runway overrun area; and		а	1	the runway overrun area; and
		b		local wind conditions, including any element of tailwind or crosswind; and		b		local wind conditions, including any element of tailwind or crosswind; and
		С		height of any snow banks adjacent to the runway.		С	1	height of any snow banks adjacent to the runway.
	135.535			Runway factors The operator shall ensure that where a	121.535			Runway factors The operator shall ensure that where a
				runway is not a paved, dry, flat surface appropriate performance factors are applied to any calculation of distance required for take off or landing.			;	runway is not a paved, dry, flat surface appropriate performance factors are applied to any calculation of distance required for take off or landing.
	135.540			Grass runways The operator shall ensure that:	121.540			Grass runways The operator shall ensure that:
		а		only performance data provided for grass		а		only performance data provided for
				runways under the specified conditions for the surface is used. Where no specification is made, the performance data shall only be used if:				grass runways under the specified conditions for the surface is used. Where no specification is made, the performance data shall only be used if:
			1	the grass is less than 8 inches (20 cm) high; and			1	the grass is less than 8 inches (20 cm) high; and
			2	soil conditions are firm, such that there may be wheel impressions in the soil but no rutting.			2	soil conditions are firm, such that there may be wheel impressions in the soil but no rutting.
		b		any damp grass surface is considered to be wet for the purpose of applying performance factors.		b	;	any damp grass surface is considered to be wet for the purpose of applying performance factors.
	135.545			Loss of runway length	121.545			Loss of runway length
				The operator shall, when calculating distance available for take off, take account of any length of the runway which will necessarily be used for lining up the aircraft in the direction of take-				The operator shall, when calculating distance available for take off, take account of any length of the runway which will necessarily be used for lining up the aircraft in the direction of take-
	135.550			off. Short landings — aeroplanes	121.550			off. Short landings — aeroplanes
				An operator needing to use Short Landing Operations (where the distance used for the calculation of permitted landing mass may include the usable length of the declared safe area) shall require an approval by the Director. (See Appendix 1 to 135.550)				An operator needing to use Short Landing Operations (where the distance used for the calculation of permitted landing mass may include the usable length of the declared safe area) shall require an approval by the Director. (See Appendix 1 to 121.550)
	135.555			Steep approaches — aeroplanes An operator requiring the use of steep	121.555			Steep approaches — aeroplanes An operator requiring the use of steep
				An operator requiring the use of steep approaches (using glideslope angles of 4.5° or more) shall require an approval				An operator requiring the use of steep approaches (using glideslope angles of 4.5° or more) shall require an approval

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Guernsey Aviatio Requirements

1			135.560			Performance — mass limitation	121.560		Performance — mass limitation
	\uparrow					The operator shall ensure that:			The operator shall ensure that:
				а		the mass of the aeroplane at the start of		а	the mass of the aeroplane at the start of
						the take-off; or in the event of in-flight			the take-off; or in the event of in-flight
						replanning, at the point from which the			replanning, at the point from which the
						revised operational flight plan applies, is not greater than the mass at which the			revised operational flight plan applies, is not greater than the mass at which the
						requirements of the applicable			requirements of the applicable
						Performance Class can be complied with			Performance Class can be complied with
						for the planned flight. Allowance shall be			for the planned flight. Allowance shall be
						made for expected reductions in mass as the flight proceeds, and for fuel			made for expected reductions in mass as the flight proceeds, and for fuel
						jettisoning where applicable;			jettisoning where applicable;
				b		in no case shall the mass at the start of		b	in no case shall the mass at the start of
1						take off exceed the maximum take off mass specified in the flight manual for			take off exceed the maximum take off mass specified in the flight manual for
						that pressure altitude appropriate to the			that pressure altitude appropriate to the
						aerodrome elevation and, if used as a			aerodrome elevation and, if used as a
						parameter to determine the maximum			parameter to determine the maximum
						take off mass any other local atmospheric condition;			take off mass any other local atmospheric condition;
				с		in no case shall the estimated mass for		С	in no case shall the estimated mass for
1						the expected time of landing at the			the expected time of landing at the
						planned destination aerodrome and at any destination alternate aerodrome,			planned destination aerodrome and at any destination alternate aerodrome,
						exceed the maximum landing mass			exceed the maximum landing mass
						specified in the flight manual for the			specified in the flight manual for the
						pressure altitude appropriate to the			pressure altitude appropriate to the
						aerodrome elevation(s), and if used as a parameter to determine the maximum			aerodrome elevation(s), and if used as a parameter to determine the maximum
						landing mass, any other local			landing mass, any other local
						atmospheric condition; and			atmospheric condition; and
				d		the mass of the aeroplane at the time of take-off, or at the expected time of		d	the mass of the aeroplane at the time of take-off, or at the expected time of
						landing at the destination and at any			landing at the destination and at any
						planned alternate does not exceed the			planned alternate does not exceed the
						maximum mass at which the applicable			maximum mass at which the applicable
						noise certification has been granted unless otherwise authorised by the			noise certification has been granted unless otherwise authorised by the
						Director.			Director.
			135.565			Applicability of performance classes — aeroplanes	121.565		Applicability of performance classes — aeroplanes
						Note: The technical descriptions relevant			Note: The technical descriptions relevant
						to each performance class are contained in Appendix E.			to each performance class are contained in Appendix E.
	\vdash					The operator shall ensure that:			The operator shall ensure that:
				а		multi-engine aeroplanes powered by		а	multi-engine aeroplanes powered by
						turbo-propeller engines with a maximum approved passenger seating			turbo-propeller engines with a maximum approved passenger seating
						configuration of more than 9 and all			configuration of more than 9 and all
						multi-engine turbojet powered			multi-engine turbojet powered
						aeroplanes are operated in accordance with Performance Class A;			aeroplanes are operated in accordance with Performance Class A;
	\vdash			b		propeller driven aeroplanes with a		b	aeroplanes powered by reciprocating
						maximum approved passenger seating		-	
				1		configuration of 9 seats or fewer, and a			engines with a maximum approved
	1 1	1				-			passenger seating configuration of more
						MTOM of 5,700 kg or less are operated			passenger seating configuration of more than 9 or a MTOM exceeding 5,700 kg
						MTOM of 5,700 kg or less are operated in accordance with Performance Class B;			passenger seating configuration of more than 9 or a MTOM exceeding 5,700 kg are operated in accordance with Performance Class C; and
				с		MTOM of 5,700 kg or less are operated in accordance with Performance Class B; where full compliance with these		c	passenger seating configuration of more than 9 or a MTOM exceeding 5,700 kg are operated in accordance with Performance Class C; and where full compliance with these
				c		MTOM of 5,700 kg or less are operated in accordance with Performance Class B; where full compliance with these requirements cannot be shown due to		c	passenger seating configuration of more than 9 or a MTOM exceeding 5,700 kg are operated in accordance with Performance Class C; and where full compliance with these requirements cannot be shown due to
				c		MTOM of 5,700 kg or less are operated in accordance with Performance Class B; where full compliance with these		с	passenger seating configuration of more than 9 or a MTOM exceeding 5,700 kg are operated in accordance with Performance Class C; and where full compliance with these
				c		MTOM of 5,700 kg or less are operated in accordance with Performance Class B; where full compliance with these requirements cannot be shown due to specific design characteristics, the operator shall apply approved performance standards that ensure a		с	passenger seating configuration of more than 9 or a MTOM exceeding 5,700 kg are operated in accordance with Performance Class C; and where full compliance with these requirements cannot be shown due to specific design characteristics, the operator shall apply approved performance standards that ensure a
				с		MTOM of 5,700 kg or less are operated in accordance with Performance Class B; where full compliance with these requirements cannot be shown due to specific design characteristics, the operator shall apply approved performance standards that ensure a level of safety equivalent to that of the		с	passenger seating configuration of more than 9 or a MTOM exceeding 5,700 kg are operated in accordance with Performance Class C; and where full compliance with these requirements cannot be shown due to specific design characteristics, the operator shall apply approved performance standards that ensure a level of safety equivalent to that of the
				c		MTOM of 5,700 kg or less are operated in accordance with Performance Class B; where full compliance with these requirements cannot be shown due to specific design characteristics, the operator shall apply approved performance standards that ensure a level of safety equivalent to that of the appropriate Performance Class; and		C	passenger seating configuration of more than 9 or a MTOM exceeding 5,700 kg are operated in accordance with Performance Class C; and where full compliance with these requirements cannot be shown due to specific design characteristics, the operator shall apply approved performance standards that ensure a
						MTOM of 5,700 kg or less are operated in accordance with Performance Class B; where full compliance with these requirements cannot be shown due to specific design characteristics, the operator shall apply approved performance standards that ensure a level of safety equivalent to that of the appropriate Performance Class; and unless it is flying on a special VFR flight in a control zone, a single-engine		c	passenger seating configuration of more than 9 or a MTOM exceeding 5,700 kg are operated in accordance with Performance Class C; and where full compliance with these requirements cannot be shown due to specific design characteristics, the operator shall apply approved performance standards that ensure a level of safety equivalent to that of the
						MTOM of 5,700 kg or less are operated in accordance with Performance Class B; where full compliance with these requirements cannot be shown due to specific design characteristics, the operator shall apply approved performance standards that ensure a level of safety equivalent to that of the appropriate Performance Class; and unless it is flying on a special VFR flight in a control zone, a single-engine aeroplane, or a two-engine aeroplane		c	passenger seating configuration of more than 9 or a MTOM exceeding 5,700 kg are operated in accordance with Performance Class C; and where full compliance with these requirements cannot be shown due to specific design characteristics, the operator shall apply approved performance standards that ensure a level of safety equivalent to that of the
						MTOM of 5,700 kg or less are operated in accordance with Performance Class B; where full compliance with these requirements cannot be shown due to specific design characteristics, the operator shall apply approved performance standards that ensure a level of safety equivalent to that of the appropriate Performance Class; and unless it is flying on a special VFR flight in a control zone, a single-engine aeroplane, or a two-engine aeroplane which does not meet the climb		c	passenger seating configuration of more than 9 or a MTOM exceeding 5,700 kg are operated in accordance with Performance Class C; and where full compliance with these requirements cannot be shown due to specific design characteristics, the operator shall apply approved performance standards that ensure a level of safety equivalent to that of the
						MTOM of 5,700 kg or less are operated in accordance with Performance Class B; where full compliance with these requirements cannot be shown due to specific design characteristics, the operator shall apply approved performance standards that ensure a level of safety equivalent to that of the appropriate Performance Class; and unless it is flying on a special VFR flight in a control zone, a single-engine aeroplane, or a two-engine aeroplane		c	passenger seating configuration of more than 9 or a MTOM exceeding 5,700 kg are operated in accordance with Performance Class C; and where full compliance with these requirements cannot be shown due to specific design characteristics, the operator shall apply approved performance standards that ensure a level of safety equivalent to that of the
					1	MTOM of 5,700 kg or less are operated in accordance with Performance Class B; where full compliance with these requirements cannot be shown due to specific design characteristics, the operator shall apply approved performance standards that ensure a level of safety equivalent to that of the appropriate Performance Class; and unless it is flying on a special VFR flight in a control zone, a single-engine aeroplane, or a two-engine aeroplane which does not meet the climb performance of Appendix E2.040, shall not be operated: in instrument meteorological conditions;		c	passenger seating configuration of more than 9 or a MTOM exceeding 5,700 kg are operated in accordance with Performance Class C; and where full compliance with these requirements cannot be shown due to specific design characteristics, the operator shall apply approved performance standards that ensure a level of safety equivalent to that of the
					1	MTOM of 5,700 kg or less are operated in accordance with Performance Class B; where full compliance with these requirements cannot be shown due to specific design characteristics, the operator shall apply approved performance standards that ensure a level of safety equivalent to that of the appropriate Performance Class; and unless it is flying on a special VFR flight in a control zone, a single-engine aeroplane, or a two-engine aeroplane which does not meet the climb performance of Appendix E2.040, shall not be operated:		c	passenger seating configuration of more than 9 or a MTOM exceeding 5,700 kg are operated in accordance with Performance Class C; and where full compliance with these requirements cannot be shown due to specific design characteristics, the operator shall apply approved performance standards that ensure a level of safety equivalent to that of the
			135.570			MTOM of 5,700 kg or less are operated in accordance with Performance Class B; where full compliance with these requirements cannot be shown due to specific design characteristics, the operator shall apply approved performance standards that ensure a level of safety equivalent to that of the appropriate Performance Class; and unless it is flying on a special VFR flight in a control zone, a single-engine aeroplane, or a two-engine aeroplane which does not meet the climb performance of Appendix E2.040, shall not be operated: in instrument meteorological conditions; or at night. Applicability of performance classes —		c	passenger seating configuration of more than 9 or a MTOM exceeding 5,700 kg are operated in accordance with Performance Class C; and where full compliance with these requirements cannot be shown due to specific design characteristics, the operator shall apply approved performance standards that ensure a level of safety equivalent to that of the
			135.570			MTOM of 5,700 kg or less are operated in accordance with Performance Class B; where full compliance with these requirements cannot be shown due to specific design characteristics, the operator shall apply approved performance standards that ensure a level of safety equivalent to that of the appropriate Performance Class; and unless it is flying on a special VFR flight in a control zone, a single-engine aeroplane, or a two-engine aeroplane which does not meet the climb performance of Appendix E2.040, shall not be operated: in instrument meteorological conditions; or at night.		c	passenger seating configuration of more than 9 or a MTOM exceeding 5,700 kg are operated in accordance with Performance Class C; and where full compliance with these requirements cannot be shown due to specific design characteristics, the operator shall apply approved performance standards that ensure a level of safety equivalent to that of the
			135.570			MTOM of 5,700 kg or less are operated in accordance with Performance Class B; where full compliance with these requirements cannot be shown due to specific design characteristics, the operator shall apply approved performance standards that ensure a level of safety equivalent to that of the appropriate Performance Class; and unless it is flying on a special VFR flight in a control zone, a single-engine aeroplane, or a two-engine aeroplane which does not meet the climb performance of Appendix E2.040, shall not be operated: in instrument meteorological conditions; or at night. Applicability of performance classes — helicopters Note: The technical descriptions relevant to each performance class are contained		c	passenger seating configuration of more than 9 or a MTOM exceeding 5,700 kg are operated in accordance with Performance Class C; and where full compliance with these requirements cannot be shown due to specific design characteristics, the operator shall apply approved performance standards that ensure a level of safety equivalent to that of the
			135.570			MTOM of 5,700 kg or less are operated in accordance with Performance Class B; where full compliance with these requirements cannot be shown due to specific design characteristics, the operator shall apply approved performance standards that ensure a level of safety equivalent to that of the appropriate Performance Class; and unless it is flying on a special VFR flight in a control zone, a single-engine aeroplane, or a two-engine aeroplane which does not meet the climb performance of Appendix E2.040, shall not be operated: in instrument meteorological conditions; or at night. Applicability of performance classes — helicopters Note: The technical descriptions relevant to each performance class are contained in Appendix E.		c	passenger seating configuration of more than 9 or a MTOM exceeding 5,700 kg are operated in accordance with Performance Class C; and where full compliance with these requirements cannot be shown due to specific design characteristics, the operator shall apply approved performance standards that ensure a level of safety equivalent to that of the
			135.570	d		MTOM of 5,700 kg or less are operated in accordance with Performance Class B; where full compliance with these requirements cannot be shown due to specific design characteristics, the operator shall apply approved performance standards that ensure a level of safety equivalent to that of the appropriate Performance Class; and unless it is flying on a special VFR flight in a control zone, a single-engine aeroplane, or a two-engine aeroplane which does not meet the climb performance of Appendix E2.040, shall not be operated: in instrument meteorological conditions; or at night. Applicability of performance classes — helicopters Note: The technical descriptions relevant to each performance class are contained in Appendix E. The operator shall ensure that:		c	passenger seating configuration of more than 9 or a MTOM exceeding 5,700 kg are operated in accordance with Performance Class C; and where full compliance with these requirements cannot be shown due to specific design characteristics, the operator shall apply approved performance standards that ensure a level of safety equivalent to that of the
			135.570			MTOM of 5,700 kg or less are operated in accordance with Performance Class B; where full compliance with these requirements cannot be shown due to specific design characteristics, the operator shall apply approved performance standards that ensure a level of safety equivalent to that of the appropriate Performance Class; and unless it is flying on a special VFR flight in a control zone, a single-engine aeroplane, or a two-engine aeroplane which does not meet the climb performance of Appendix E2.040, shall not be operated: in instrument meteorological conditions; or at night. Applicability of performance classes — helicopters Note: The technical descriptions relevant to each performance class are contained in Appendix E.		c	passenger seating configuration of more than 9 or a MTOM exceeding 5,700 kg are operated in accordance with Performance Class C; and where full compliance with these requirements cannot be shown due to specific design characteristics, the operator shall apply approved performance standards that ensure a level of safety equivalent to that of the

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1					, ,	1		
				helicopters operating to or from				
				heliports in a congested hostile				
				environment are operated in				
				Performance Class 1;				
		b		helicopters which have a maximum	ΙĪ			
				approved passenger seating				
				configuration of 19 or less but more than				
				9 are operated in Performance Class 1 or				
				2;				
		С		helicopters which have a maximum				
				approved passenger seating				
				configuration of 9 or less are operated in				
				Performance Class 1, 2 or 3;				
		d	1	helicopters operated in Performance				
				Classes 1 or 2 are certificated in Category				
				А;				
		e		helicopters operated in Performance	1 1			
				Class 3 are certificated in Category B;				
		r		operations in Performance Class 2				
				without an assured safe forced landing				
				capability during the take-off and landing				
				phases shall only be conducted if the				
				operator has been granted an approval				
				by the Director in accordance with				
				Appendix E4;				
		g		helicopters operated in Performance	+			
		δ		Class 3 are not operated:				
			1	-	+			
			1	when the surface is not in sight;				
			2	at night; or				
			3	when the cloud ceiling is less than 600	 		 	
				feet (180 m) or the visibility is less than				
				1500 m; or				
			4	over an open sea area:				
			i	north of 45°N or south of 45°S; and				
			ii	between 45°N or 45°S, when it is a				
				hostile environment; and				
			iii	between 45°N or 45°S for more than 10				
				minutes on any one flight, provided that				
				the operations manual contains				
				procedures for coastal transit operations.			 	
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Guernsey Aviatio Requirements

		Appendix 1 to 121.550 / 125.550 / 135.550
		Short landing operations
A		For the purpose of short landing operations, the distance used for the calculation of the permitted landing mass may consist of the usable length of the declared safe area plus the declared landing distance available. The Director may approve such operations in accordance with the following criteria:
1	1	Demonstration of the need for short landing operations. There must be a clear public interest and operational necessity for the operation, either due to the remoteness of the airport or to physical limitations relating to extending the runway.
2	2	Aeroplane and operational criteria:
	i	Short landing operations will only be approved for aeroplanes where the vertical distance between the path of the pilot's eye and the path of the lowest part of the wheels, with the aeroplane established on the normal glide path, does not exceed 3 m.
	ii	When establishing aerodrome operating minima the visibility/RVR must not be less than 1,500 m. In addition, wind limitations must be specified in the operations manual.
	ii	Minimum pilot experience, training requirements and special aerodrome familiarisation must be specified for such operations in the operations manual.
3	3	It is assumed that the crossing height over the beginning of the usable length of the declared safe area shall not be less than 50 ft.
4	4	Additional criteria: The Director may impose such additional conditions as are deemed necessary for a safe operation taking into account the aeroplane type characteristics, orographic characteristics in the approach area, available approach aids and missed approach/baulked landing considerations. Such additional conditions may be, for instance, the requirement for VASI/PAPI -type visual slope indicator system.
В		Airfield criteria for short landing operations:
1	1	The use of the safe area must be approved by the airport authority.
2	2	The usable length of the declared safe area must not exceed 90 m.
3	3	The width of the declared safe area shall not be less than twice the runway width or twice the wing span, whichever is the greater, centred on the extended runway centre line.
4	4	The declared safe area must be clear of obstructions or depressions which would endanger an aeroplane undershooting the runway and no mobile object shall be permitted on the declared safe area while the runway is being used for short landing operations.
5	5	The slope of the declared safe area must not exceed 5 % upward nor 2 % downward in the direction of landing.
6	5	For the purpose of this operation, the bearing strength requirement of the landing distance available need not apply to the declared safe area.

Appendix 1 to 121.555 / 125.555 / 135.555

		Steep approach procedures
А		The Director may approve the application of steep approach procedures using glide slope angles of 4.5° or more, and with screen heights of less than 50 but not less than 35 ft. provided that the following griteria are matic
	1	but not less than 35 ft, provided that the following criteria are met: the aeroplane flight manual must state the maximum approved glide slope angle, any other limitations, normal, abnormal or emergency procedures for the steep approach as well as amendments to the field length data when using steep approach criteria;
	2	a suitable glide path reference system, comprising at least a visual glide path indicating system, must be available at each aerodrome at which steep approach procedures are to be conducted; and
	3	weather minima must be specified and approved for each runway to be used with a steep approach. Consideration must be given to the following:
	i	the obstacle situation;
	ii	the type of glide path reference and runway guidance such as visual aids, MLS, 3D-NAV, ILS, LLZ, VOR, NDB;
	iii	the minimum visual reference to be required at DH and MDA;
	iv	available airborne equipment;
	v	pilot qualification and special aerodrome familiarisation;
	vi	aeroplane flight manual limitations and procedures; and
	vii	missed approach criteria.

Guernsey Aircraft Registry

Issue 2

Guernsey Aviatio Requirements

Part 91			Requirement	Part 135			Requirement	Part 121			Requirement
				Su	bpa	rt F	– Instruments and Equipment	1			
91.600			Applicability	135.600			Applicability	121.600			Applicability
			This Subpart prescribes the instrument and equipment required for aircraft				This Subpart prescribes the instruments and equipment required for aircraft				This Subpart prescribes the instruments and equipment required for aircraft
91.605			operating under this Part. General	135.605	-		operating under this Part. General	121.605	-		operating under this Part. General
91.605	а		No person shall operate an aircraft	135.605			General	121.605			General
	~		unless it is equipped in compliance								
			with the laws and regulations of the								
	b		State in which it is registered. For an aircraft registered in Guernsey								
	U		the equipment to be provided is that								
			required by this Subpart.								
	С		No person shall operate an aircraft to which this Subpart applies unless:				The operator shall ensure that an aircraft does not commence a flight unless:				The operator shall ensure that an aircraft does not commence a flight unless:
		1	the aircraft is equipped with the type		а		the aircraft is equipped with the type		а		the aircraft is equipped with the type
			and number of instruments and				and number of instruments and				and number of instruments and
			equipment required by this Subpart;				equipment required by this Subpart; and				equipment required by this Subpart; a
		2	and the instruments and equipment shall		b		the instruments and equipment shall be		b		the instruments and equipment shall t
		2	be of a type approved by the Director				of a type approved by the Director				of a type approved by the Director
			either generally or in relation to a class				either generally or in relation to a class				either generally or in relation to a class
			or type of aircraft or in relation to that				or type of aircraft or in relation to that				or type of aircraft or in relation to that
		3	aircraft; and the instruments and equipment have		С		aircraft; and the instruments and equipment have		с		aircraft; and the instruments and equipment have
		2	been installed in accordance with the				been installed in accordance with the				been installed in accordance with the
			Type Certificate holder's instructions				Type Certificate holder's instructions or				Type Certificate holder's instructions of
			or other instructions acceptable to the				other instructions acceptable to the				other instructions acceptable to the
			Director, or are carried, as appropriate.				Director.				Director.
91.610			Inoperative instruments and	135.610	T		Inoperative instruments and equipment	121.610			Inoperative instruments and equipme
			equipment								
	а		Except as provided in paragraph (b), an		а		An aircraft shall not commence a flight		а		An aircraft shall not commence a fligh
			aircraft shall not commence a flight with inoperative instruments or				with inoperative instruments or equipment if it is legally required to				with inoperative instruments or equipment if it is legally required to
			equipment if it is legally required to				carry that instrument or equipment,				carry that instrument or equipment,
			carry that instrument or equipment,				unless the following conditions are met:				unless the following conditions are me
			unless the following conditions are								
		1	met: a minimum equipment list (MEL) has		-	1	a minimum equipment list (MEL) has			1	a minimum equipment list (MEL) has
		1	been approved by the Director for use			-	been approved by the Director for use			-	been approved by the Director for use
			with that aircraft; and				with that aircraft; and				with that aircraft; and
		2	the aircraft records available to the			2	the aircraft records available to the pilot			2	the aeroplane records available to the
			pilot include an entry describing the inoperative instruments and				include an entry describing the inoperative instruments and equipment;				pilot include an entry describing the inoperative instruments and equipments
			equipment; and				and				and
		3	the aircraft is operated in accordance			3	the aircraft is operated in accordance			3	the aeroplane is operated in accordance
			with all applicable conditions and limitations contained in the MEL.				with all applicable conditions and limitations contained in the MEL.				with all applicable conditions and limitations contained in the MEL.
	b		An aircraft that is not required to hold				Initiations contained in the MEL.				
	N N		an MEL may be operated under this								
			Part with inoperative instruments and								
			equipment provided the inoperative instruments and equipment:								
		1	are not:		+						
		i	part of the certification instruments						1		
			and equipment prescribed in the								
			applicable airworthiness requirements under which the aircraft was type								
			certificated; or								
		ii	required by this Subpart for specific								
			operations; or								
		iii	required by an airworthiness directive to be in operable condition; and								
		2	are placarded "Inoperative" and the		+	ļ					
			required maintenance recorded in								
04.615			accordance with GAR Part 43.	105.005	-			404.00-			
91.615			Minimum equipment list (MEL)	135.615			Minimum equipment list (MEL)	121.615			Minimum equipment list (MEL)
			Where a minimum equipment list is established in relation to an aircraft, the operator shall ensure:				The operator shall:				The operator shall:
	а		it is based upon, but no less restrictive		а		establish, for each aircraft, a minimum		а		establish, for each aircraft, a minimum
			than, the relevant master minimum				equipment list (MEL) approved by the				equipment list (MEL) approved by the
			equipment list (MMEL); and				Director. This shall be based upon, but				Director. This shall be based upon, but
ļ							no less restrictive than, the relevant master minimum equipment list				no less restrictive than, the relevant master minimum equipment list
ľ				1					1		
							(MMEL); and				(MMEL); and

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				C	not operate an aircraft other than in accordance with the MEL unless permitted by the Director. Any such permission will in no circumstances permit operation outside the constraints of the MMEL.		С		not operate an aircraft other than in accordance with the MEL unless permitted by the Director. Any such permission will in no circumstances permit operation outside the constraints of the MMEL.
			135.620		Note: detailed guidance for compiling an MEL is available from jurisdictions such as EASA, FAA and Transport Canada. A MEL meeting such guidance will be eligible for approval by the Director. Flight crew compartment door	121.620			Note: detailed guidance for compiling an MEL is available from jurisdictions such as EASA, FAA and Transport Canada. A MEL meeting such guidance will be eligible for approval by the Director. Flight crew compartment door
			133.020			121.020	_		
					An aeroplane that is equipped with a flight crew compartment door shall be equipped with a means of locking that door.		а		An aeroplane that is equipped with a flight crew compartment door shall be equipped with a means of locking that door.
							b	1	The operator shall ensure that: A passenger-carrying aeroplane of MTOM in excess of 45,500 kg or with a maximum approved passenger seating configuration of more than 60 shall be equipped with an approved flight crew compartment door that is designed to resist penetration by small arms fire and grenade shrapnel, and to resist forcible intrusions by unauthorised persons. This door shall be capable of being locked and unlocked from either pilot's station.
								2	An aeroplane equipped with a flight crew compartment door that is designed to resist penetration by small arms fire and grenade shrapnel, and to resist forcible intrusions by unauthorised persons, shall be provided with means for monitoring from either pilot's station the entire door area outside the flight crew compartment to identify persons requesting entry and to detect
									suspicious behaviour or potential threat.
91.625		Location of instruments and equipment							
	а	The operator shall ensure that: any instruments and equipment to be operated or used by one pilot can be readily seen and operated from that pilot's normally seated position with the minimum practicable deviation from normal line of sight along the							
	b	flight path; and any single instrument or item of							
		equipment to be operated or used by two pilots, is installed so that it can be readily seen and operated from each pilot's normally-seated position.							
91.630		Markings and placards	135.630		Markings and placards	121.630			Markings and placards
	а	The operator shall ensure that: any placards, listings or instrument markings containing prescribed operating limitations shall be displayed in the aircraft. Each marking and placard shall be displayed in a conspicuous place and in such a manner to minimise the risk of erasure, disfigurement, obscuring, or removal; and			The operator shall ensure that:				The operator shall ensure that:
	b	each unit of measure used on a marking or placard shall be the same as that on any related instrument or in the related flight manual; and							
	c d	each fuel contents gauge shall be clearly marked to indicate the units to which the gauge is calibrated; and an aircraft shall be placarded in the immediate vicinity of each fuel and oil filler with the specification and/or grade of fuel or oil, as appropriate.							
		<u> </u>		e	for each door that separates a passenger compartment from another compartment that has emergency exit provisions, apart from the flight deck door, a placard indicates that the door shall be open during take off and landing.		e		for each door that separates a passenge compartment from another compartment that has emergency exit provisions, apart from the flight deck door, a placard indicates that the door shall be open during take off and landing.
91.635	┝─┦	Seating and restraints	135.635		Seating and restraints	121.635			Seating and restraints

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Guernsey Aviatio Requirements

	а		An aircraft shall be equipped with:								
		1	a seat or berth for each person on								
			board; and								
		2 3	a safety belt for each seat and restraining belts for each berth; and for each flight crew member seat: either a safety harness; or, if the aircraft type certificate allows, a seat belt with a diagonal shoulder strap.		-						
					b		The safety harness for each flight crew seat shall incorporate:		b		The safety harness for each flight crew seat shall incorporate:
						1	a device to automatically restrain the occupant in the event of rapid deceleration; and			1	a device to automatically restrain the occupant in the event of rapid deceleration; and
						2	where practicable, a device to prevent an incapacitated occupant from interfering with the controls. Note: Depending on the design, the lock on an inertia reel device may suffice for			2	where practicable, a device to prevent an incapacitated occupant from interfering with the controls. Note: Depending on the design, the lock on an inertia reel device may suffice for
	С		Notwithstanding paragraph (a)(1) and (2), a seat, berth, safety belt or restraining belt is not required for:				this purpose.				this purpose.
		1	a child being carried in accordance with paragraph 91.355(c)(1); or								
		2	a person being carried during parachute operations, unless parachutist restraints are required by the aircraft flight manual.								
					d		For each required cabin crew member:		d		For each required cabin crew member:
						1	in aircraft with certificate of airworthiness first issued on or after 1 January 1981, a forward or rearward facing seat (within 15 degrees of the longitudinal axis of the aircraft), fitted with a safety harness.			1	in aircraft with certificate of airworthiness first issued on or after 1 January 1981, a forward or rearward facing seat (within 15 degrees of the longitudinal axis of the aircraft), fitted with a safety barpose
					e		Cabin crew seats provided in accordance with paragraph (d) shall be located near		e		with a safety harness. Cabin crew seats provided in accordance with paragraph (d) shall be located near
91.640			Aircraft operating under VFR	135.640			floor level emergency exits. Aircraft operating under VFR	121.640			floor level emergency exits. Aircraft operating under VFR
	а		An aircraft shall be equipped with a means of measuring and displaying:								
		1	magnetic heading; the time in hours, minutes and								
		2	seconds (permitted to be carried if aircraft is not equipped);								
		3 4	barometric altitude; indicated airspeed;								
		5	mach number, if the speed limitation prescribed by the aircraft flight manual is expressed in terms of mach number; and								
	b	6	in a helicopter: slip. An aircraft shall be equipped with spare fuses of appropriate ratings, where necessary, for all electrical circuits that can be changed in flight (at least 3 of each rating, or 10 % of the number for each rating, whichever is greater).								
91.645	С		Paragraph (a) above shall not apply to non-power driven aircraft. VFR flights operated as controlled				•				•
			flights An aircraft flying under the visual flight rules, but as a controlled flight shall be equipped in accordance with 91.655.								
91.650			Equipment for flight in icing conditions								
			An aircraft shall be certificated and equipped to operate in icing conditions, for flight in circumstances in which icing conditions are reported to exist or are expected to be encountered.								
91.655			Aircraft operating at night or under IFR Note: 'With the surface in sight' means with the flight crew being able to see sufficient surface features or surface	135.655			Aircraft operating at night or under IFR	121.655			Aircraft operating at night or under IFR
			illumination to enable the flight crew to maintain the aircraft in a desired								

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		attitude without reference to any flight								
		instrument.								
а		An aircraft flying at night or under IFR								
		or when the surface is not in sight shall								
		be equipped with a means of measuring and displaying:								
	1	magnetic heading (standby compass);								
	2	the time in hours, minutes and								
		seconds (permitted to be carried if								
	_	aircraft not equipped);								
	3	barometric altitude, from two independent altimetry sources;								
		independent animetry sources,		-	i	in a pressurised aeroplane these shall		-	i	in a pressurised aeroplane these shall
					,	have counterdrum pointer or equivalent				have counterdrum pointer or equivale
						presentaton;				presentaton;
						Note: Neither three-pointer nor drum-				Note: Neither three-pointer nor drum-
						pointer altimeters satisfy the requirement in GAR 91.655(a)(3) .				pointer altimeters satisfy the requirement in GAR 91.655(a)(3) .
	4	indicated airspeed, with a means of								
		preventing malfunctioning due to								
		either condensation or icing; and								
	i	mach number, if the speed limitation								
		prescribed by the aircraft flight manual is expressed in terms of mach number;								
	5	in an aeroplane: turn and slip; and in a								
		helicopter: slip;								
 \square	6	for each required pilot: aircraft								
		attitude; except				1				
	i	in an aeroplane: one attitude indicator may be replaced by the turn and slip								
		indicator; and								
	ii	in a helicopter: an additional means of								•
		indicating aircraft attitude;								
	7	stabilised aircraft heading;								
	8	whether the power supply to the gyroscopic instruments inadequate;								
	9	outside air temperature; and								
	10	rate of climb and descent.								
b		An aircraft shall be equipped with								
		spare fuses as described in 91.640 (b).								
				с		In a helicopter:		С		In an aeroplane of MTOM over 5,700 k
					1	one attitude indicator shall be powered by a separate power source, which			1	one attitude indicator shall be powere by a separate power source, which
						operates automatically for at least thirty				operates automatically for at least thin
						minutes after total failure of the main				minutes after total failure of the main
						electrical generating system; and				electrical generating system; and
					2	shall provide an indication on the			2	shall provide an indication on the
						instrument panel of when the attitude indicator is being operated by				instrument panel of when the attitude indicator is being operated by
						emergency power.				emergency power.
		Note: The flight instruments				Note: The flight instruments				Note: The flight instruments
		requirements may be met by				requirements may be met by				requirements may be met by
		combinations of instruments or by				combinations of instruments or by				combinations of instruments or by
		electronic displays provided that the safeguards against total failure,				electronic displays provided that the safeguards against total failure, inherent				electronic displays provided that the safeguards against total failure, inher
		inherent in separate instruments, are				<i>in separate instruments, are maintained</i>				in separate instruments, are maintain
		maintained (see 91.660).				(see 135.660).				(see 121.660).
d		When operating at night, the following								
$\left - \right $	1	lights: lights, as required by the Rules of the		-				\vdash		
	-	Air;								
	2	illumination for all flight instruments		1				1		
		and equipment that are essential for								
$\left - \right $	3	the safe operation of the aircraft; lights in all passenger compartments;						\vdash		
$\left - \right $	3 4	for an aeroplane a landing light;		-	4	for an aeroplane two landing lights;		\vdash	4	two landing lights;
$\left \right $	-7	for a helicopter a landing light which		-	-	for a helicopter two landing lights, one		-		
		shall be trainable in the vertical plane;				of which shall be trainable in the vertical				
		and				plane; and				
	5	an electric flashlight for every crew			5	an independent portable light for every			5	an independent portable light for eve
$\left \right $		member.		-		crew member.		-	6	crew member; and a means to illuminate or detect the
									O	a means to illuminate or detect the formation of ice.
				e		In a helicopter, a stabilisation system,		\vdash		
						unless the helicopter has been certified				
				1		as having adequate stability without				
				ſ		such a system.				
				f		For any single pilot operation in accordance with paragraph				
			1	1			1	1	Î	1
						135.905(c)(1), the aircraft shall be				

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							a serviceable autopilot with at least altitude hold and heading select modes; and				
						2	a means of displaying charts that enables them to be readable in the available lighting.				
91.660			Glass cockpit systems								
			An aircraft with advanced cockpit automation systems (glass cockpit) shall have system redundancy that provides flight crew with attitude, heading, airspeed and altitude indications in case of failure of the primary system or display.								
				135.665			Altitude alerting system	121.665			Altitude alerting system
					а		An aeroplane powered by one or more turbine jets shall be equipped with an altitude alerting system or device.		а		A turbine-engined aeroplane of MTOM over 5,700 kg shall be equipped with ar altitude alerting system or device.
					b		An altitude alerting system or device		b		An altitude alerting system or device
						1	required by paragraph (a) shall: be capable of alerting the pilot to an			1	required by paragraph (a) shall: be capable of alerting the pilot to an
							approaching preselected altitude by means of visual and aural signals, such that it is possible to establish level flight			-	approaching preselected altitude by means of visual and aural signals, such that it is possible to establish level fligh
							from climb or descent without exceeding the pre-selected altitude; and				from climb or descent without exceeding the pre-selected altitude; an
						2	be able to be tested without special		-	2	be able to be tested without special
							equipment to determine proper				equipment to determine proper
						3	operation of alerting signals; and accept barometric pressure settings if		+	3	operation of alerting signals; and accept barometric pressure settings if
							the device operates on barometric				the device operates on barometric
							pressure; and				pressure; and
						4	enable use of pre-selected altitudes in increments commensurate with the			4	enable use of pre-selected altitudes in increments commensurate with the
							altitudes at which the aircraft is approved for use.	7 3			altitudes at which the aeroplane is approved for use.
					С		An aircraft that is operating under IFR but not required by paragraph (a) to carry an altitude alerting system or		с		An aircraft that is operating under IFR but not required by paragraph (a) to carry an altitude alerting system or
							device shall be equipped with a means of indicating an altitude assigned by ATC.				device shall be equipped with a means of indicating an altitude assigned by ATC.
					d		The means of indicating assigned altitude as required by paragraph (c) shall:		d		The means of indicating assigned altitude as required by paragraph (c) shall:
						1	be located so that it may be readily adjustable from each pilot seat; and display assigned altitude information			1	be located so that it may be readily adjustable from each pilot seat; and display assigned altitude information
							that is clearly visible to all flight crew members whose duties involve monitoring altitude assignment; and			-	that is clearly visible to all flight crew members whose duties involve monitoring altitude assignment; and
						3	enable use of pre-selected altitudes in			3	enable use of pre-selected altitudes in
							increments commensurate with the altitudes at which the aircraft is operated				increments commensurate with the altitudes at which the aeroplane is operated.
91.670			Communication equipment								
	а		An aircraft shall be equipped with:		\downarrow						
		1	radio communication equipment that is capable of providing continuous two-way communications with an appropriate ATS unit or aeronautical telecommunications facility, and for								
			receiving meteorological information, at any time during flight; and								
		2	a headset with a boom or throat microphone.								
	b		The radio communication equipment shall provide for communication on the emergency frequency 121.5 MHz.								
	С		For operations where communication equipment is required to meet a Required Communications								
			Performance (RCP) specification for performance-based communication (PBC), an aircraft shall, in addition:								
		1	be provided with communication equipment which will enable it to operate in accordance with the								
		_	prescribed RCP specification(s); and		-				-		
		2	have information relevant to the aeroplane RCP specification capabilities listed in the flight manual								

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			approved by the State of Design or						
		2	State of Registry; and						
		3	have information relevant to the aeroplane RCP specification						
			capabilities included in the MEL.						
	d		Communication equipment shall be						
			installed such that failure of one unit will not result in the failure of another						
			unit.						
91.675			Navigation equipment	135.675		Navigation equipment	121.675		Navigation equipment
	а		An aircraft shall be equipped with a						
			navigation system which will enable the aircraft to proceed in accordance						
			with:						
		1	the flight plan; and						
		2	the requirements of air traffic services;						
			except when navigation for flights under the visual flight rules is			•			•
			accomplished by visual reference to						
			landmarks.						
	b		An aircraft shall be sufficiently provided with navigation equipment to						
			ensure that, in the event of the failure						
			of one item of equipment at any stage						
			of the flight, the remaining equipment will enable the aircraft to navigate in						
			accordance with the applicable						
			requirements.			7			
	с		For operations where a navigation specification for performance-based						
			navigation (PBN) has been prescribed,						
	<u> </u>	1	an aeroplane shall, in addition,						
		1	be provided with navigation equipment which will enable it to						
			operate in accordance with the						
			prescribed navigation specification(s)						
		2	and have information relevant to the						
		_	aeroplane navigation specification						
			capabilities listed in the flight manual						
			or other aeroplane documentation approved by the State of the Design or						
			State of Registry; and						
		3	have information relevant to the						
			aeroplane navigation specification capabilities included in the MEL.						
			Note 1: except for PBN authorisation						
			required (AR) navigation procedures, for which a specific approval by the						
			Director is required in accordance with						
			Part-SPN, the Director shall as part of						
			its certification and surveillance programme, ensure that the operator						
			has established and documented:						
			a) normal and abnormal procedures						
			including contingency procedures; b) flight crew qualification and						
			proficiency requirements in accordance						
			with the appropriate navigation						
			specifications; c) a training programme for relevant						
			personnel consistent with the intended						
			operations; and						
			d) appropriate maintenance procedures to ensure continued						
			airworthiness in accordance with the						
	<u> </u>		appropriate navigation specifications.		$\left \right $				
			Note 2: Guidance on safety risks and mitigations for PBN operations are						
			contained in the Performance-based						
			Navigation (PBN) Operational Approval						
	d		Manual (Doc 9997). An aircraft operating in airspace where		$\left \right $				
	_		minimum navigation performance						
			specifications (MNPS) are prescribed						
		i	shall: be equipped with navigation		\vdash				
			equipment capable of continuously						
			and accurately indicating to the flight						
			crew adherence to or departure from track; and						
	1	2	be approved in accordance with		[]				
			Subpart SPA.						

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				r			1		
	е		An aircraft operating in RVSM airspace						
			shall be:						
		1	provided with equipment capable of:						
		i	indicating to the flight crew the flight						
			level being flown; and					 	
		ii	automatically maintaining a selected						
			flight level to within ± 65 feet; and						
		iii	providing an aural and visual alert to						
			the flight crew when a deviation from						
			the selected flight level occurs. The						
			threshold for the alert shall not exceed						
		2	300 feet (90 metres); and						
		2	approved in accordance with Subpart SPA.						
	f		All required radio navigation						
	ľ		equipment shall comply with the FM-						
			immunity requirements of ICAO Annex						
			10 Volumes I and III.						
	g		Any radio navigation equipment fitted						
	-		on the aircraft that does not comply						
			with the FM-Immunity requirements						
			of ICAO Annex 10 shall be placarded to						
			alert flight crew to the potential for						
			radio interference.						
91.677			Surveillance equipment				ļ		
1	а		An aeroplane shall be provided with						
1			surveillance equipment which will						
1			enable it to operate in accordance						
			with the requirements of air traffic services.						
	h								
1	b		For operations where surveillance equipment is required to meet an RSP						
			specification for performance-based						
			surveillance (PBS), an aeroplane shall,						
1			in addition:						
		1	be provided with surveillance						
		-	equipment which will enable it to						
			operate in accordance with the						
			prescribed RSP specification(s);						
		2	have information relevant to the						
			aeroplane RSP specification						
			capabilities listed in the flight manual						
			or other aeroplane documentation						
			approved by the State of Design or State of Registry; and						
-		3	have information relevant to the						
		J	aeroplane RSP specification						
			capabilities included in the MEL.						
			Note 1: the Director shall, for						
			operations where an RSP specification						
			for PBS has been prescribed, ensure						
			that:						
			1) the operator has established and						
1			documented:						
1			a) normal and abnormal procedures						
1			including contingency procedures;						
1			b) flight crew qualification and proficiency requirements in						
1			accordance with appropriate RSP						
1			specifications;						
			c) a training programme for relevant						
1			personnel consistent with the						
1			intended operations; and						
1			d) appropriate maintenance						
I			procedures to ensure continuing						
			airworthiness in accordance with						
Ĩ			appropriate RSP specification; and						
			2) for aircraft mentioned in paragraph						
			(b), adequate provisions exist for: a) receiving the reports of observed						
1			surveillance performance issued by						
			monitoring programmes established						
1			in accordance with Annex 11,						
			Chapter 3, 3.3.5.2; and						
			b) taking immediate corrective						
			action for individual aircraft, aircraft						
			types or operators, identified in such						
Ĩ			reports as not complying with the						
I			RSP specification.				ļ		
			Note 2: Information on RSP						
-	1		specifications for performance-based				1		
			sumpillance is contained in the						
			surveillance is contained in the Performance-based Cmmunication and						

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	Surceiullance (PBCS) Manual (Doc 9869).									
91.680	Landing in instrument meteorological									
	conditions An aircraft that may require to land in									
	instrument meteorological conditions									
	shall be provided with radio									
	equipment appropriate to the aids to									
	be used. This equipment shall be capable of receiving signals to provide									
	guidance to a point from which a visual									
	landing can be made at any aerodrome									
	used and for any designated alternate									
01.005	aerodrome.		-							
91.685	Category II and III precision approach equipment									
	An aircraft conducting a Category II,									
	other than Standard Category II, or									
	Category III operation shall be									
	equipped and approved in accordance with Subpart SPA.									
		135.690				and public address	121.690			Crew intercom and public address
			а		system The operator s	hall ensure that, other		а		system The operator shall ensure that an
			ľ			pilot operations, an		u		aeroplane is equipped with:
					aircraft is equi	pped with:				
				1		s for conducting passenger			1	a public address system; and
				2	briefings; and	er intercom system.	-		2	a crew member intercom system.
				2		a intercom system.		b		A public address system required by
								Ĺ		paragraph (a)(1) shall:
									1	except for handsets, headsets,
										microphones, selector switches, and
										signalling devices, be capable of operation independent of the crew
										member intercom system required by
										paragraph (a)(2); and
									2	be accessible for immediate use from
										each of two flight crew member statior in the flight crew compartment; and
									3	for each required floor-level passenger
										emergency exit that has an adjacent
										cabin crew seat, have a microphone
										which is readily accessible to the seated cabin crew member; and
									4	be capable of operation within 10
										seconds by a cabin crew member at
										each of those stations in the passenger
										compartment from which its use is accessible; and
			-						5	be understandably audible at all times
									-	all passenger seats, lavatories, cabin
										crew seats, and work stations; and
									6	for the purposes of paragraph (b)(3) on microphone may serve more than one
										exit, provided the proximity of the exit.
										allows unassisted verbal communication
										between seated cabin crew.
								с		A crew member intercom system required by paragraph (a)(2) shall:
			+		-		+	+	1	except for handsets, headsets,
										microphones, selector switches, and
										signalling devices, be capable of
										operation independent of the public address system required by paragraph
										(a)(1); and
			1						2	provide a means of two-way
										communication between all members of
			+					-	3	the flight crew; and provide a means of two-way
									ر ا	communication between the flight crev
										compartment and each passenger
								\downarrow		compartment; and
									4	be accessible for immediate use from
										each of two flight crew member station in the flight crew compartment; and
			+				+	+	5	be accessible for use from at least one
										normal cabin crew member station in
										each passenger compartment; and
									6	be capable of operation within 10
										seconds by a cabin crew member at each of those stations in each passenge
										compartment from which its use is
				1			1	1	l	accessible; and

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				•				P			
										7	be accessible for use at enough cabin
											crew stations so that all floor-level
											emergency exits in each passenger
											compartment are observable from a
											station so equipped; and
										8	have an alerting system that:
										i	incorporates aural or visual signals for
											use by any crew member; and
										11	has a means for the recipient of a call to
											determine whether it is a normal call or
											an emergency call; and
										iii	provide a means of two-way
											communication between ground personnel and any two flight crew
											members in the flight crew
											compartment when the aeroplane is on
											the ground.
				135.695			Emergency lighting	121.695			Emergency lighting
				133.035			A helicopter of MTOM exceeding 5,700	121.095			An aeroplane of MTOM exceeding 5,700
							kg operating at night shall be equipped				kg operating at night shall be equipped
							with:				with:
							an emergency lighting system in the		а		an emergency lighting system in the
							passenger compartment to facilitate		ŭ		passenger compartment, to facilitate
							evacuation.				evacuation; and
									b		an emergency lighting system to provide
									Ĩ		illumination outside the aircraft to
											facilitate evacuation; and
									с		where the aeroplane has a maximum
									Ŭ		approved passenger seating
											configuration of more than 19, an
											emergency floor path lighting system in
											the passenger compartment, to
											facilitate the evacuation.
91.700			Medical and emergency equipment	135.700			Medical and emergency equipment	121.700			Medical and emergency equipment
	а	_	An aircraft shall be equipped with:		а		An aircraft shall be equipped with:		а	_	An aircraft shall be equipped with:
			one or more first aid kits, stowed in				one or more first aid kits, stowed in				one or more first aid kits, stowed in
			accessible places.				accessible places.				accessible places.
	b		Contents of first aid kits shall be		b	1	Contents of first aid kits shall be		b	1	Contents of first aid kits shall be
			appropriate to the nature of the flight,				appropriate to the nature of the flight,				appropriate to the nature of the flight,
			and suitable to treat minor injuries.				and suitable to treat minor injuries; and				and suitable to treat minor injuries; and
										2	where passengers are carried, the
											number of first aid kits shall be as
											specified in Table 4; and
						2	for aircraft required to carry cabin crew			3	for aircraft required to carry cabin crew
							as part of the operating crew, first aid				as part of the operating crew, first aid
							kits shall be suitable for the use of cabin				kits shall be suitable for the use of cabin
							crew in managing incidents of ill health.				crew in managing incidents of ill health.
					С		An aircraft required to carry cabin crew		С	1	An aircraft required to carry cabin crew
							as part of the operating crew shall carry				as part of the operating crew shall carry
							a universal precaution kit for the use of				a universal precaution kit for the use of
							cabin crew members in managing				cabin crew members in managing
							incidents of ill health associated with a				incidents of ill health associated with a
							case of suspected communicable				case of suspected communicable
							disease, or in the case of illness involving contact with body fluids.				disease, or in the case of illness involvin contact with body fluids; and
	$\left - \right $				+		contact with body hulus.			2	an aeroplane authorised to carry more
										4	than 250 passengers shall carry two
											universal precaution kits; and
					+					3	an aeroplane authorised to carry more
										5	than 100 passengers, on a sector length
											of more than two hours, shall carry a
				1							medical kit, for the use of medical
						1					doctors or other qualified persons in
								1			treating in-flight medical emergencies;
							Note: Appendix B contains information				Note: Appendix B contains information
							Note: Appendix B contains information on medical supplies.				Note: Appendix B contains information on medical supplies.
	c		An aircraft shall be equipped with:		d				d		
	c	1			d	1	on medical supplies. An aircraft shall be equipped with:		d	1	on medical supplies. An aircraft shall be equipped with:
	c	1	at least one fire extinguisher, located		d	1	on medical supplies. An aircraft shall be equipped with: at least one fire extinguisher, located in		d	1	on medical supplies. An aircraft shall be equipped with: at least one fire extinguisher, located in
	c	1	at least one fire extinguisher, located in reach of a flight crew member and		d	1	on medical supplies. An aircraft shall be equipped with:		d	1	on medical supplies. An aircraft shall be equipped with: at least one fire extinguisher, located in reach of a flight crew member and of a
	c	1	at least one fire extinguisher, located in reach of a flight crew member and of a type that will not interfere with		d	1	on medical supplies. An aircraft shall be equipped with: at least one fire extinguisher, located in reach of a flight crew member and of a type that will not interfere with the		d	1	on medical supplies. An aircraft shall be equipped with: at least one fire extinguisher, located in reach of a flight crew member and of a type that will not interfere with the
	c	1	at least one fire extinguisher, located in reach of a flight crew member and		d	1	on medical supplies. An aircraft shall be equipped with: at least one fire extinguisher, located in reach of a flight crew member and of a		d	1	on medical supplies. An aircraft shall be equipped with: at least one fire extinguisher, located in reach of a flight crew member and of a
	c	1	at least one fire extinguisher, located in reach of a flight crew member and of a type that will not interfere with the proper functioning of essential aircraft equipment; and		d	1	on medical supplies. An aircraft shall be equipped with: at least one fire extinguisher, located in reach of a flight crew member and of a type that will not interfere with the proper functioning of essential aircraft equipment; and		d	1	on medical supplies. An aircraft shall be equipped with: at least one fire extinguisher, located in reach of a flight crew member and of a type that will not interfere with the proper functioning of essential aircraft equipment; and
	c		at least one fire extinguisher, located in reach of a flight crew member and of a type that will not interfere with the proper functioning of essential aircraft equipment; and at least one fire extinguisher in each		d	1	on medical supplies. An aircraft shall be equipped with: at least one fire extinguisher, located in reach of a flight crew member and of a type that will not interfere with the proper functioning of essential aircraft equipment; and at least one fire extinguisher in each		d		on medical supplies. An aircraft shall be equipped with: at least one fire extinguisher, located in reach of a flight crew member and of a type that will not interfere with the proper functioning of essential aircraft equipment; and at least one fire extinguisher in each
	c		at least one fire extinguisher, located in reach of a flight crew member and of a type that will not interfere with the proper functioning of essential aircraft equipment; and		d	1	on medical supplies. An aircraft shall be equipped with: at least one fire extinguisher, located in reach of a flight crew member and of a type that will not interfere with the proper functioning of essential aircraft equipment; and		d		on medical supplies. An aircraft shall be equipped with: at least one fire extinguisher, located in reach of a flight crew member and of a type that will not interfere with the proper functioning of essential aircraft equipment; and at least one fire extinguisher in each
	c		at least one fire extinguisher, located in reach of a flight crew member and of a type that will not interfere with the proper functioning of essential aircraft equipment; and at least one fire extinguisher in each compartment that is separate from the		d	1	on medical supplies. An aircraft shall be equipped with: at least one fire extinguisher, located in reach of a flight crew member and of a type that will not interfere with the proper functioning of essential aircraft equipment; and at least one fire extinguisher in each compartment that is separate from the		d	2	on medical supplies. An aircraft shall be equipped with: at least one fire extinguisher, located in reach of a flight crew member and of a type that will not interfere with the proper functioning of essential aircraft equipment; and at least one fire extinguisher in each compartment that is separate from the pilots' compartment; and
	c		at least one fire extinguisher, located in reach of a flight crew member and of a type that will not interfere with the proper functioning of essential aircraft equipment; and at least one fire extinguisher in each compartment that is separate from the		d	1	on medical supplies. An aircraft shall be equipped with: at least one fire extinguisher, located in reach of a flight crew member and of a type that will not interfere with the proper functioning of essential aircraft equipment; and at least one fire extinguisher in each compartment that is separate from the		d		on medical supplies. An aircraft shall be equipped with: at least one fire extinguisher, located in reach of a flight crew member and of a type that will not interfere with the proper functioning of essential aircraft equipment; and at least one fire extinguisher in each compartment that is separate from the pilots' compartment; and where passengers are carried the
	c		at least one fire extinguisher, located in reach of a flight crew member and of a type that will not interfere with the proper functioning of essential aircraft equipment; and at least one fire extinguisher in each compartment that is separate from the		d	1	on medical supplies. An aircraft shall be equipped with: at least one fire extinguisher, located in reach of a flight crew member and of a type that will not interfere with the proper functioning of essential aircraft equipment; and at least one fire extinguisher in each compartment that is separate from the		d	2	on medical supplies. An aircraft shall be equipped with: at least one fire extinguisher, located in reach of a flight crew member and of a type that will not interfere with the proper functioning of essential aircraft equipment; and at least one fire extinguisher in each compartment that is separate from the pilots' compartment; and where passengers are carried the number of fire extinguishers shall be in
	c		at least one fire extinguisher, located in reach of a flight crew member and of a type that will not interfere with the proper functioning of essential aircraft equipment; and at least one fire extinguisher in each compartment that is separate from the		d	1	on medical supplies. An aircraft shall be equipped with: at least one fire extinguisher, located in reach of a flight crew member and of a type that will not interfere with the proper functioning of essential aircraft equipment; and at least one fire extinguisher in each compartment that is separate from the		d	2	on medical supplies. An aircraft shall be equipped with: at least one fire extinguisher, located in reach of a flight crew member and of a type that will not interfere with the proper functioning of essential aircraft equipment; and at least one fire extinguisher in each compartment that is separate from the pilots' compartment; and where passengers are carried the number of fire extinguishers shall be in accordance with Table 5.
	c		at least one fire extinguisher, located in reach of a flight crew member and of a type that will not interfere with the proper functioning of essential aircraft equipment; and at least one fire extinguisher in each compartment that is separate from the		d	1	on medical supplies. An aircraft shall be equipped with: at least one fire extinguisher, located in reach of a flight crew member and of a type that will not interfere with the proper functioning of essential aircraft equipment; and at least one fire extinguisher in each compartment that is separate from the			2	on medical supplies. An aircraft shall be equipped with: at least one fire extinguisher, located in reach of a flight crew member and of a type that will not interfere with the proper functioning of essential aircraft equipment; and at least one fire extinguisher in each compartment that is separate from the pilots' compartment; and where passengers are carried the number of fire extinguishers shall be in accordance with Table 5. An aeroplane with a maximum approver
	c		at least one fire extinguisher, located in reach of a flight crew member and of a type that will not interfere with the proper functioning of essential aircraft equipment; and at least one fire extinguisher in each compartment that is separate from the		d	1	on medical supplies. An aircraft shall be equipped with: at least one fire extinguisher, located in reach of a flight crew member and of a type that will not interfere with the proper functioning of essential aircraft equipment; and at least one fire extinguisher in each compartment that is separate from the			2	on medical supplies. An aircraft shall be equipped with: at least one fire extinguisher, located in reach of a flight crew member and of a type that will not interfere with the proper functioning of essential aircraft equipment; and at least one fire extinguisher in each compartment that is separate from the pilots' compartment; and where passengers are carried the number of fire extinguishers shall be in accordance with Table 5.
	c		at least one fire extinguisher, located in reach of a flight crew member and of a type that will not interfere with the proper functioning of essential aircraft equipment; and at least one fire extinguisher in each compartment that is separate from the		d	1	on medical supplies. An aircraft shall be equipped with: at least one fire extinguisher, located in reach of a flight crew member and of a type that will not interfere with the proper functioning of essential aircraft equipment; and at least one fire extinguisher in each compartment that is separate from the			2	on medical supplies. An aircraft shall be equipped with: at least one fire extinguisher, located in reach of a flight crew member and of a type that will not interfere with the proper functioning of essential aircraft equipment; and at least one fire extinguisher in each compartment that is separate from the pilots' compartment; and where passengers are carried the number of fire extinguishers shall be in accordance with Table 5. An aeroplane with a maximum approver passenger seating configuration of more

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	1 1	1		-		1			
								f	An aeroplane with a maximum approv passenger seating configuration of 61 passenger seats or more shall, when
									carrying passengers, be equipped with portable battery-powered megaphone
									1 readily accessible to a normal cabin cr
									seat for crew members assigned to
				-					direct emergency evacuation; and installed in accordance with Table 6.
	d	Any agent used in a built-in fire		e		Any agent used in a built-in fire		e	Any agent used in a built-in fire
		extinguisher for each lavatory disposal				extinguisher for each lavatory disposal			extinguisher for each lavatory disposa
		receptacle for towels, paper or waste in an aircraft for which the individual				receptacle for towels, paper or waste in an aircraft for which the individual			receptacle for towels, paper or waste an aircraft for which the individual
		certificate of airworthiness is first				certificate of airworthiness is first issued			certificate of airworthiness is first issue
		issued on or after 31 December 2011				on or after 31 December 2011 and any			on or after 31 December 2011 and any
		and any extinguishing agent used in a portable fire extinguisher in an aircraft				extinguishing agent used in a portable fire extinguisher in an aircraft for which			extinguishing agent used in a portable fire extinguisher in an aircraft for whic
		for which the individual certificate of				the individual certificate of			the individual certificate of
		airworthiness is first issued on or after 31 December 2016 shall not be of a				airworthiness is first issued on or after 31 December 2016 shall not be of a type			airworthiness is first issued on or after
		type listed in Annex A, Group II of the				listed in Annex A, Group II of the			31 December 2016 shall not be of a ty listed in Annex A, Group II of the
		Montreal Protocol on Substances That				Montreal Protocol on Substances That			Montreal Protocol on Substances That
		Deplete the Ozone Layer, 8th Edition, 2009.				Deplete the Ozone Layer , 8th Edition, 2009.			Deplete the Ozone Layer, 8th Edition, 2009.
		Note: Information concerning				Note: Information concerning			Note: Information concerning
		extinguishing agents is contained in				extinguishing agents is contained in the			extinguishing agents is contained in th
		the UNEP Halons Technical Options Committee Technical Note No. 1 - New				UNEP Halons Technical Options Committee Technical Note No. 1 - New			UNEP Halons Technical Options Committee Technical Note No. 1 - New
		Technology Halon Alternatives and				Technology Halon Alternatives and FAA			Technology Halon Alternatives and FA
		FAA Report No. DOT/FAA/AR-99-63,				Report No. DOT/FAA/AR-99-63, Options			Report No. DOT/FAA/AR-99-63, Option to the Use of Halons for Aircraft Fire
		Options to the Use of Halons for Aircraft Fire Suppression Systems.				to the Use of Halons for Aircraft Fire Suppression Systems.			Suppression Systems.
				f		Each item of equipment required by		f	Each item of equipment required by
						paragraph (a), (c) and (d) shall clearly indicate its method of operation.			paragraph (a), (c) and (d) shall clearly indicate its method of operation.
				g		Each compartment or container that		g	Each compartment or container that
						contains any item of equipment required by paragraph (a), (c) and (d)			contains any item of equipment required by paragraph (a), (c) and (d)
91.705		Emergency locator transmitter	135.705			shall be marked to indicate its contents. Emergency locator transmitter	121.705		shall be marked to indicate its content Emergency locator transmitter
	а	All required ELTs shall operate in							
		accordance with the requirements of							
		ICAO Annex 10, Volume III and be capable of transmitting on 121.5 MHz							
		and 406 MHz.							
	b	All ELTs capable of transmitting on 406 MHz must be coded in accordance							
		with ICAO Annex 10 and registered							
		with the agency responsible for the							
	с	maintenance of the aircraft register. Nothwithstanding the provisions of		-					
	C	91.705(d) through (h), the aircraft,							
		when flying over water as described in							
		91.715(f) shall be equipped with at least one automatic ELT and one ELT(S)							
		in a raft or life jacket.							
	d	Aeroplanes — Except as provided in paragraph (e)		-					
		and (f) an aeroplane shall carry at least							
		one ELT of any type.		_	 			$\left \right $	
	~ .	An aeroplane for which the individual	1					e	All aeroplanes authorized to carry more
	e	certificate of airworthiness was first							than 19 passengers for which the
	e	certificate of airworthiness was first issued after 1 July 2008 shall be							individual certificate of airworthiness
	e	certificate of airworthiness was first issued after 1 July 2008 shall be equipped with at least one automatic							individual certificate of airworthiness first issued after 1 July 2008 shall be
		certificate of airworthiness was first issued after 1 July 2008 shall be							 individual certificate of airworthiness i first issued after 1 July 2008 shall be equipped with either: 1 at least two ELTs, one of which shall be
		certificate of airworthiness was first issued after 1 July 2008 shall be equipped with at least one automatic							 individual certificate of airworthiness i first issued after 1 July 2008 shall be equipped with either: at least two ELTs, one of which shall be automatic; or
		certificate of airworthiness was first issued after 1 July 2008 shall be equipped with at least one automatic ELT.							 individual certificate of airworthiness i first issued after 1 July 2008 shall be equipped with either: 1 at least two ELTs, one of which shall be
	f	certificate of airworthiness was first issued after 1 July 2008 shall be equipped with at least one automatic ELT. An aeroplane for which the individual							 individual certificate of airworthiness if first issued after 1 July 2008 shall be equipped with either: at least two ELTs, one of which shall be automatic; or at least one ELT and a capability that
	f	certificate of airworthiness was first issued after 1 July 2008 shall be equipped with at least one automatic ELT. An aeroplane for which the individual certificate of airworthiness was first issued on or before 1 July 2008 and is							 individual certificate of airworthiness if first issued after 1 July 2008 shall be equipped with either: at least two ELTs, one of which shall be automatic; or at least one ELT and a capability that
	f	certificate of airworthiness was first issued after 1 July 2008 shall be equipped with at least one automatic ELT. An aeroplane for which the individual certificate of airworthiness was first issued on or before 1 July 2008 and is certified for a maximum seating							 individual certificate of airworthiness if first issued after 1 July 2008 shall be equipped with either: at least two ELTs, one of which shall be automatic; or at least one ELT and a capability that
	f	certificate of airworthiness was first issued after 1 July 2008 shall be equipped with at least one automatic ELT. An aeroplane for which the individual certificate of airworthiness was first issued on or before 1 July 2008 and is							 individual certificate of airworthiness if first issued after 1 July 2008 shall be equipped with either: at least two ELTs, one of which shall be automatic; or at least one ELT and a capability that
	f	certificate of airworthiness was first issued after 1 July 2008 shall be equipped with at least one automatic ELT. An aeroplane for which the individual certificate of airworthiness was first issued on or before 1 July 2008 and is certified for a maximum seating capacity of six or less shall be equipped with a survival ELT (ELT(S)) or a personal locator beacon (PLB) carried							 individual certificate of airworthiness if first issued after 1 July 2008 shall be equipped with either: at least two ELTs, one of which shall be automatic; or at least one ELT and a capability that
	f	certificate of airworthiness was first issued after 1 July 2008 shall be equipped with at least one automatic ELT. An aeroplane for which the individual certificate of airworthiness was first issued on or before 1 July 2008 and is certified for a maximum seating capacity of six or less shall be equipped with a survival ELT (ELT(S)) or a							 individual certificate of airworthiness if first issued after 1 July 2008 shall be equipped with either: at least two ELTs, one of which shall be automatic; or at least one ELT and a capability that
	f	certificate of airworthiness was firstissued after 1 July 2008 shall beequipped with at least one automaticELT.An aeroplane for which the individualcertificate of airworthiness was firstissued on or before 1 July 2008 and iscertified for a maximum seatingcapacity of six or less shall be equippedwith a survival ELT (ELT(S)) or apersonal locator beacon (PLB) carriedby a crew member or passenger.Helicopters —Performance Class 1 and 2 operations							 individual certificate of airworthiness in first issued after 1 July 2008 shall be equipped with either: 1 at least two ELTs, one of which shall be automatic; or 2 at least one ELT and a capability that meets the requirements of 121.707.
	e 	certificate of airworthiness was first issued after 1 July 2008 shall be equipped with at least one automatic ELT.An aeroplane for which the individual certificate of airworthiness was first issued on or before 1 July 2008 and is certified for a maximum seating capacity of six or less shall be equipped with a survival ELT (ELT(S)) or a personal locator beacon (PLB) carried by a crew member or passenger.Helicopters — Performance Class 1 and 2 operations A helicopter operating in performance							 individual certificate of airworthiness if first issued after 1 July 2008 shall be equipped with either: at least two ELTs, one of which shall be automatic; or at least one ELT and a capability that meets the requirements of 121.707.
	f	certificate of airworthiness was firstissued after 1 July 2008 shall beequipped with at least one automaticELT.An aeroplane for which the individualcertificate of airworthiness was firstissued on or before 1 July 2008 and iscertified for a maximum seatingcapacity of six or less shall be equippedwith a survival ELT (ELT(S)) or apersonal locator beacon (PLB) carriedby a crew member or passenger.Helicopters —Performance Class 1 and 2 operations							 individual certificate of airworthiness if first issued after 1 July 2008 shall be equipped with either: at least two ELTs, one of which shall be automatic; or at least one ELT and a capability that meets the requirements of 121.707.

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	''		A helicopter operating in performance Class 3 shall be equipped with at least								
			one automatic ELT.								
								121.707			Location of an aeroplane in distress
									а		All aeroplanes of a maximum certificated take-off mass of over 27,0 kg for which the individual certificate airworthiness is first issued on or after
											January 2021, shall autonomously transmit information from which a position can be determined by the
											operator at least once every minute, when in distress, in accordance with Appendix 9 of ICAO Annex 6, Part I.
									b		The operator shall make position information of a flight in distress available to the appropriate organizations, as established by the Director.
91.710			Survival equipment	135.710			Survival equipment	121.710			Survival equipment
							The operator shall ensure that:				The operator shall ensure that:
	а		An aircraft shall carry survival equipment and signalling devices appropriate to the areas to be overflown.		а		An aircraft shall carry survival equipment and signalling devices appropriate to the areas to be overflown.		а		An aircraft shall carry survival equipment and signalling devices appropriate to the areas to be overflown.
	b		The decision on the equipment to be carried shall be made with regard to the circumstances of the flight.		b		The decision on the equipment to be carried shall be made with regard to the circumstances of the flight.		b		The decision on the equipment to be carried shall be made with regard to t circumstances of the flight.
	С		For an aircraft operating over water, consideration of the risks to survival of the occupants of the aircraft in the event of a ditching shall take into account, but not be limited to, the								
		1	following: the operating environment; and								
		2	conditions such as sea state, sea and								
		3	air temperature; and the distance from land suitable for								
		5	making an emergencylandmg_and								
		4	the availability of search and rescue facilities.								
					d		A record of the risk assessement carried		d		A record of the risk assessement carr
							out under (c) shall be maintained and revised as necessary in accordance with the requirements of the operator's				out under (c) shall be maintained and revised as necessary in accordance w the requirements of the operator's
	d		The equipment carried shall include, as appropriate, the equipment specified		e		safety management system. The equipment carried shall include, as appropriate, the equipment specified in		С		safety management system. The equipment carried shall include, a appropriate, the equipment specified
			in paragraph 91.715.				paragraph 135.715 and Appendix B.				paragraph 121.715 and Appendix B.
91.715			Flights over water	135.715			Flights over water The operator shall ensure that:	121.715			Flights over water The operator shall ensure that:
	а		Liferafts, lifejackets, and signalling		а		Liferafts, lifejackets, and signalling		а		Liferafts, lifejackets, and signalling
			devices required by this paragraph shall be installed in conspicuously identified locations and easily accessible in the event of a ditching.				devices required by this paragraph shall be installed in conspicuously identified locations and easily accessible in the event of a ditching.				devices required by this paragraph sh be installed in conspicuously identifie locations and easily accessible in the event of a ditching.
	b		Each lifejacket required by this		b		Each lifejacket required by this		b		Each lifejacket required by this
		i	paragraph shall: be equipped with a whistle and a survivor locator light; and			1	paragraph shall: be equipped with a whistle and a survivor locator light; and			1	paragraph shall: be equipped with a whistle and a survivor locator light; and
		2	be stowed in a place which is easily accessible from the seat or berth of the person for whose use it is provided.			2	be stowed in a place which is easily accessible from the seat or berth of the person for whose use it is provided.			2	be stowed in a place which is easily accessible from the seat or berth of the person for whose use it is provided.
	С		An aircraft flying over water beyond gliding or autorotational distance from land shall be equipped with a lifejacket		с	1	An aircraft flying over water beyond gliding or autorotational distance from land shall be equipped with a lifejacket		С		An aircraft flying over water beyond gliding or autorotational distance from land shall be equipped with a lifejack
			for every person on board.			2	for every person on board. In a helicopter operating in Performance Class 1 or 2 when flying over water at a distance from land corresponding to more than 10 minutes at normal cruise speed (in accordance with paragraph (h)(3)) the lifejacket shall be worn constantly unless the occupant is wearing an integrated survival suit that includes the functionality of the lifejacket.				for every person on board.
	d		An aircraft when taking off or landing at an aerodrome or heliport where, in the opinion of the Director, the take- off or approach path is so disposed over water that in the event of a		d		An aircraft when taking off or landing at an aerodrome or heliport where, in the opinion of the Director, the take-off or approach path is so disposed over water		d		An aircraft when taking off or landing an aerodrome or heliport where, in t opinion of the Director, the take-off o approach path is so disposed over wa that in the event of a michan there
			over water that in the event of a mishap there would be a likelihood of				that in the event of a mishap there would be a likelihood of a ditching, shall				that in the event of a mishap th would be a likelihood of a ditch

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		a ditching, shall be equipped with a				be equipped with a lifejacket for every			be equipped with a lifejacket for every
		lifejacket for every person on board.				person on board.			person on board.
e		A seaplane or amphibian aeroplane operated on water, shall be equipped with:		e		A seaplane or amphibian aeroplane operated on water, shall be equipped with:			
	1	equipment for making sound signals, as prescribed by the International Regulations for Preventing Collisions at Sea; and			1	equipment for making sound signals, as prescribed by the International Regulations for Preventing Collisions at Sea; and			
	2 3	one sea anchor; and equipment necessary for mooring, anchoring or manoeuvring the aircraft on water, appropriate to the size, mass and handling characteristics of the aircraft.			2 3	one sea anchor; and equipment necessary for mooring, anchoring or manoeuvring the aircraft on water, appropriate to the size, mass and handling characteristics of the aircraft.			
f		Aeroplanes flying over water — An aeroplane flying over water shall, where indicated by the assessment in 91.710(c), be equipped with:		f		Aeroplanes flying over water — A single-engine aeroplane, or multi- engine aeroplane that would be unable to maintain level flight above the minimum flight altitude in the event of an engine failure, if operating over water more than 30 minutes at cruise speed or 100 NM, whichever is lesser, from land suitable to make an emergency landing shall be equipped as follows:	f		Aeroplanes flying over water — A single-engine aeroplane, or multi- engine aeroplane that would be unable to maintain level flight above the minimum flight altitude in the event of an engine failure, if operating over water more than 30 minutes at cruise speed or 100 NM, whichever is lesser, from land suitable to make an emergency landing shall be equipped as follows:
	1	liferafts in sufficient numbers to carry all persons on board, stowed so as to facilitate their ready use in emergency, provided with such life-saving equipment, including means of sustaining life, as is appropriate to the flight to be undertaken; and			1	liferafts in sufficient numbers to carry all persons on board, stowed so as to facilitate their ready use in emergency, provided with such life-saving equipment, including means of sustaining life, as is appropriate to the flight to be undertaken; and		1	liferafts in sufficient numbers to carry al persons on board, stowed so as to facilitate their ready use in emergency, provided with such life-saving equipment, including means of sustaining life, as is appropriate to the flight to be undertaken; and
	2	equipment for making the distress signals described in the Rules of the Air.			2	equipment for making the distress signals described in the Rules of the Air.		2	equipment for making the distress signals described in the Rules of the Air.
	3	any additional equipment decided by reference to the assessment in 91.710(c).			3	liferafts shall be equipped in accordance with Appendix B.		3	liferafts shall be equipped in accordance with Appendix B.
								4	buoyancy and rated capacity shall be sufficient to accommodate all occupants of the aeroplane in the event of a loss of one raft of the largest rated capacity; and
				g		A multi-engine aeroplane capable of continuing flight without descending below the minimum flight altitude after an engine failure, if operating over water more than 90 minutes at cruising speed or 200 NM, whichever is less, from land suitable for making an emergency landing shall be equipped as	g		A multi-engine aeroplane capable of continuing flight without descending below the minimum flight altitude after an engine failure, if operating over water more than 90 minutes at cruising speed or 200 NM, whichever is less, from land suitable for making an emergency landing shall be equipped as
					2	follows: liferafts in sufficient numbers to carry all persons on board, stowed so as to facilitate their ready use in emergency, provided with such life-saving equipment, including means of sustaining life, as is appropriate to the flight to be undertaken; and liferafts shall be equipped in accordance		2	follows: liferafts in sufficient numbers to carry al persons on board, stowed so as to facilitate their ready use in emergency, provided with such life-saving equipment, including means of sustaining life, as is appropriate to the flight to be undertaken; and liferafts shall be equipped in accordance
						with Appendix B.		3	with Appendix B. buoyancy and rated capacity shall be sufficient to accommodate all occupants of the aeroplane in the event of a loss of one raft of the largest rated capacity; and
							h		An aeroplane with MTOM exceeding 27,000 kg shall be equipped with a securely attached underwater locating beacon (ULB), no later than 1 January 2018. The ULB shall be automatically activating, operate at a frequency of 8.8 kHz for a minimum of 30 days and shall not be installed in wings or empennage. Note: Underwater Locator Beacon (ULB) performance requirements are as contained in the SAE AS6254, Minimum Performance Standard for Underwater Locating Devices (Acoustic) (Self Powered), or equivalent documents.
 		Helicopters flying over water —		,		Helicopters flying over water — A helicopter operating over water shall:			•
g	1	A helicopter operating over water	1	h					

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		1	If required to carry more than one		1	If required to carry more than one				
		Ŧ			Ŧ				•	
			liferaft, have at least 50 per cent of the			liferaft, have at least 50 per cent of the				
			liferafts deployable by remote control.			liferafts deployable by remote control.				
			Rafts which are not deployable by			Rafts which are not deployable by				
			remote control and which have a mass			remote control and which have a mass				
			of more than 40 kg shall be equipped			of more than 40 kg shall be equipped				
			with some means of mechanically			with some means of mechanically				
			assisted deployment; and			assisted deployment; and				
		2			2	· · ·				
		2	When two life-rafts are fitted, each		2	When two life-rafts are fitted, each shall			•	
			shall be able to carry all occupants in			be able to carry all occupants in the				
			the overload state.			overload state.				
			Note: The overload state is a design			Note: The overload state is a design			•	
			-						•	
			safety margin of 1.5 times the			safety margin of 1.5 times the maximum				
			maximumpapacity.			capacity.				
			Performance Class 1 and 2 operations-			Performance Class 1 and 2 operations -			•	
		2	-		2					
		3	A helicopter operating in performance		3	A helicopter operating in performance			•	
			Class 1 or 2 when flying over water at a			Class 1 or 2 when flying over water at a				
			distance from land corresponding to			distance from land corresponding to				
			more than 10 minutes at normal cruise			more than 10 minutes at normal cruise				
			speed, shall be equipped as follows:			speed, shall be equipped as follows:				
Γ		i	certificated for ditching or, for coastal		i	certificated for ditching or, for coastal	I T		•	
			transit operations only, be fitted with a			transit operations only, be fitted with a				
			permanent or rapidly deployable			permanent or rapidly deployable means				
			means of flotation so as to ensure a			of flotation so as to ensure a safe				
			safe ditching of the helicopterpand			ditching of the helicopterpand				
		ii	liferaft(s) sufficient to carry all persons		ii	liferaft(s) sufficient to carry all persons			•	
									•	
			on board, suitably equipped to sustain			on board, suitably equipped to sustain				
			life in the expected conditions; and			life in the expected conditions; and				
		iii	equipment for making the distress		iii	equipment for making the distress			•	
			signals described in the Rules of the			signals described in the Rules of the Air;				
			Air; and			and				
		iv	any additional equipment decided by		iv	any additional equipment decided by			•	
			reference to the assessment in			reference to the assessment in				
			91.710(c).			91.710(c).				
					v	a survival suit worn by each crew			•	
						member if operating over water when				
						the sea temperature is less than 10°C or				
						when the estimated rescue time				
						exceeds the calculated survival time;				
						and				
						Note: Deviation from this requirement			•	
					_	may be applied for when the elevation				
						and strength of the sun results in a high				
						temperature hazard on the flight deck.				
			Performance Class 3 operations —			Performance Class 3 operations —			•	
		4	A helicopter operating in performance		4	A helicopter operating in performance			•	
			Class 3 when flying beyond auto-			Class 3 when flying beyond auto-				
			rotational or safe forced landing			rotational or safe forced landing				
			distance from land, shall be equipped			distance from land, shall be equipped as				
			as follows:			follows:				
	+	;	be fitted with a permanent or rapidly		;	be fitted with a permanent or rapidly			•	
		I			1				•	
			deployable means of flotation so as to			deployable means of flotation so as to				
			ensure a safe ditching of the			ensure a safe ditching of the helicopter;		1		
			helicopter; and			and				
	+		•	-+	.,					
		ii	when not precluded by consideration		ii	when not precluded by consideration		1	•	
			related to the type of helicopter used,			related to the type of helicopter used,				
			life raft(s) sufficient to carry all persons			life raft(s) sufficient to carry all persons				
			on board, suitably equipped to sustain			on board, suitably equipped to sustain		1		
			life in the expected conditions; and			life in the expected conditions; and				
		iii	equipment for making the distress		iii	equipment for making the distress			•	
			signals described in the Rules of the			signals described in the Rules of the Air.				
			•							
	+		Air.	-+						
		iv	any additional equipment decided by		iv	any additional equipment decided by			•	
			reference to the assessment in			reference to the assessment in				
			91 710(c)			135,710(c)		1		

a	An aircraft shall be equipped with a pressure-altitude reporting transponder which operates in accordance with the provisions of						
	Annex 10, Volume IV.		b	An aeroplane shall be equipped with a data source that provides pressure altitude information with a resolution of 25 ft (7.62 m) or better.		b	An aeroplane shall be equipped with a data source that provides pressure altitude information with a resolution of 25 ft (7.62 m) or better.
			С	A Mode S transponder shall be provided with the airborne/on-the-ground status where the aircraft is equipped with an automatic means of detecting such status.		С	A Mode S transponder shall be provided with the airborne/on-the-ground status where the aircraft is equipped with an automatic means of detecting such status.
		135.725		Passenger safety instructions	121.725		Passenger safety instructions
				An aircraft shall be equipped with a means of conveying the following			An aircraft shall be equipped with a means of conveying the following

135.710(c).

Transponder

Guernsey Aircraft Registry

91.710(c).

Transponder

91.720

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							information and instructions to				information and instructions to passengers:
					а		passengers: when seat belts are to be fastened; and		а		when seat belts are to be fastened; and
					b		when and how any oxygen equipment		b		when and how any oxygen equipment
							that is required to be carried is to be				that is required to be carried is to be
	<u> </u>				с		used; and restrictions on smoking; and		с		used; and restrictions on smoking; and
					d		location and use of lifejackets, and		d		location and use of lifejackets, and
							lifecots if carried; and				lifecots if carried; and
					e		location of emergency equipment; and		e		location of emergency equipment; and
					f		location and method of opening emergency exits.		f		location and method of opening emergency exits.
91.730			Oxygen indicators	135.730			Oxygen indicators	121.730			Oxygen indicators
	1		An aircraft operated at altitudes above				An aircraft operated above flight level		1		An aircraft operated above flight level
			flight level 130, or for more than 30				100 shall be equipped with a means of				100 shall be equipped with a means of
			minutes between flight level 100 up to and including flight level 130, shall be				indicating:				indicating:
			equipped with a means of indicating:								
	а		to the flight crew:		а	_	to the flight crew:		а		to the flight crew:
		1	the amount of breathing oxygen available in each source of supply and			1	the amount of oxygen available in each source of supply and whether the			1	the amount of oxygen available in each source of supply and whether the
			whether the oxygen is being delivered				oxygen is being delivered to the				oxygen is being delivered to the
			to the dispensing units; and				dispensing units; and				dispensing units; and
		2	in a pressurised aircraft, by visual or			2	in a pressurised aircraft, by visual or			2	in a pressurised aircraft, by visual or
			aural warning, when the cabin pressure altitude exceeds 10,000 feet;				aural warning, when the cabin pressure altitude exceeds 10,000 feet; and				aural warning, when the cabin pressure altitude exceeds 10,000 feet; and
			and								
	b		to each user of an individual breathing		b		to each user of an individual dispensing		b		to each user of an individual dispensing
			oxygen dispensing unit, the amount of oxygen available and whether the				unit, the amount of oxygen available and whether the oxygen is being		1		unit, the amount of oxygen available and whether the oxygen is being
			oxygen is being delivered to the				delivered to the dispensing unit.				delivered to the dispensing unit.
			dispensing unit								
91.735			Oxygen equipment and supplies for non-pressurised aircraft	135.735			Non-pressurised aircraft	121.735			Non-pressurised aircraft
							The operator shall ensure that an				The operator shall ensure that an
							aircraft with a non-pressurised cabin is				aircraft with a non-pressurised cabin is
							not operated above flight level 100, except in accordance with an approval				not operated above flight level 100, except in accordance with an approval
							granted by the Director.				granted by the Director.
			An aircraft with a non-pressurised								
			cabin that is operated at altitudes above flight level 100 shall be								
			equipped with oxygen storage and								
			dispensing equipment to supply the								
			following:								
		1	at altitudes up to and including flight level 130 for any period in excess of 30								
			minutes:								
			stored breathing oxygen for								
			continuous use by all crew members								
		2	and 10 % of the passengers; and at altitudes above flight level 130:						-		
		-	stored breathing oxygen for								
			continuous use by all crew members								
			and passengers.								
91.740			Oxygen equipment and supplies for pressurised aircraft	135.740			Oxygen equipment and supplies for pressurised aircraft	121.740			Oxygen equipment and supplies for pressurised aeroplanes
	а		An aircraft with a pressurised cabin		а	1	An aircraft with a pressurised cabin that		а		An aeroplane with a pressurised cabin
			that is to be operated at altitudes				is to be operated at altitudes above				that is to be operated at altitudes above
			above flight level 100 shall be equipped with:				flight level 100 up to and including flight level 250 shall be equipped with:		1		flight level 100 up to and including flight level 250 shall be equipped with:
		1	a crew member on-demand oxygen		+	1	a crew member on-demand oxygen		+	1	a crew member on-demand oxygen
			mask accessible to each flight crew				mask accessible to each flight crew				mask accessible to each flight crew
			member and capable of providing a				member and capable of providing a		1		member and capable of providing a
			continuous supply of stored breathing oxygen for that time following failure				continuous supply of stored breathing oxygen for that time following failure of		1		continuous supply of stored breathing oxygen for that time following failure of
			of the pressurisation system that the				the pressurisation system that the cabin				the pressurisation system that the cab
			cabin pressure altitude would exceed				pressure altitude would exceed 10,000				pressure altitude would exceed 10,000
	\vdash		10,000 feet; and		+	2	feet; and oxygen masks capable of providing		$\left \right $	2	feet; and oxygen masks capable of providing
						[supplemental oxygen to all passengers;			_	supplemental oxygen to all passengers
							and		<u> </u>	<u> </u>	and
		2	the following equipment that is readily			3	the following equipment that is readily		1	3	the following equipment that is readily accessible to each crew member, other
			accessible to each crew member, other than flight crew, at their normally-				accessible to each crew member, other than flight crew, at their normally-		1		accessible to each crew member, othe than flight crew, at their normally-
			seated position:				seated position:				seated position:
		i	a crew member on demand oxygen			i	a crew member on demand oxygen		[i	a crew member on demand oxygen
	<u> </u>		mask; or				mask; or		-		mask; or
	+	 	a passenger oxygen mask; and portable breathing equipment for		+	ii iii	a passenger oxygen mask; and portable breathing equipment for		+	11 11	a passenger oxygen mask; and portable breathing equipment for
			immediate use containing the greater				immediate use containing the greater of				immediate use containing the greater
	1		of 120 litres of oxygen or the quantity				120 litres of oxygen or the quantity of				120 litres of oxygen or the quantity of
			of oxygen required for continuous use				oxygen required for continuous use for				oxygen required for continuous use fo

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		for that time the cabin pressure altitude would exceed 10,000 feet.			that time the cabin pressure altitude would exceed 10,000 feet; and			that time the cabin pressure altitude would exceed 10,000 feet; and
				4	sufficient spare oxygen masks, or portable protective breathing equipment, distributed to provide immediate availability of oxygen to each crew member, regardless of location;		4	sufficient spare oxygen masks, or portable protective breathing equipment, distributed to provide immediate availability of oxygen to each crew member, regardless of location;
				5	and a minimum quantity of supplemental oxygen that shall provide:		5	and a minimum quantity of supplemental oxygen that shall provide:
				i	45 minutes supply for each flight crew member; or		i	45 minutes supply for each flight crew member; or
				ii	12 minutes supply for each crew member and passenger^and		ii	12 minutes supply for each crew member and passenger^and
				6	the greater of the quantities of supplemental or therapeutic oxygen required:		6	the greater of the quantities of supplemental or therapeutic oxygen required:
				i	if the aircraft is capable of descending from its flight altitude to below flight level 130 within four minutes, to provide oxygen to 10 % of the passengers for any time the cabin pressure altitude is above 10,000 feet; or		i	if the aircraft is capable of descending from its flight altitude to below flight level 130 within four minutes, to provid oxygen to 10 % of the passengers for any time the cabin pressure altitude is above 10,000 feet; or
				ii	if the aircraft cannot descend to below flight level 130, to provide oxygen to all passengers for the time the cabin pressure altitude is above 13,000 feet; or		ii	if the aircraft cannot descend to below flight level 130, to provide oxygen to al passengers for the time the cabin pressure altitude is above 13,000 feet; or
				iii	to provide 30 minutes supply for 10 % of the passengers; or		iii iv	to provide 30 minutes supply for 10% of the passengers; or
				iv	to provide for continuous use by 1 % of the passengers.		iv	to provide for continuous use by 1 % of the passengers; and
b		For the purposes of paragraph (a), the calculation of the oxygen requirements in the event of pressurisation failure is to take into account:	b		For the purposes of paragraph (a), the calculation of the oxygen requirements in the event of pressurisation failure is to take into account:	b		For the purposes of paragraph (a), the calculation of the oxygen requirements in the event of pressurisation failure is to take into account:
	i	the time necessary for an emergency descent and the recovery phase to level flight at a safe altitude; and		1	the time necessary for an emergency descent and the recovery phase to level flight at a safe altitude; and		1	the time necessary for an emergency descent and the recovery phase to leve flight at a safe altitude; and
	2	any subsequent stage of the flight prior to landing when it may be necessary for the aircraft to be flown at an altitude above flight level 100.		2	any subsequent stage of the flight prior to landing when it may be necessary for the aircraft to be flown above flight level 100.		2	any subsequent stage of the flight prior to landing when it may be necessary fo the aeroplane to be flown above flight level 100; and
С		An aeroplane with a pressurised cabin that is to be operated at altitudes above flight level 250 shall carry the equipment and supplies in paragraph (a) and:	С		An aeroplane with a pressurised cabin that is to be operated at altitudes above flight level 250 shall carry the equipment and supplies in paragraph (a) and:	C		an aeroplane with a pressurised cabin that is to be operated at altitudes abov flight level 250 shall carry the equipmen and supplies in paragraph (a) and:
	1	a quick donning crew member on- demand mask readily accessible to each flight crew member at their normally seated position; and		1	a quick donning crew member on- demand mask readily accessible to each flight crew member at their normally seated position; and		1	a quick donning crew member on- demand mask readily accessible to eac flight crew member at their normally seated position; and
				2	oxygen masks capable of providing supplemental oxygen:		2	oxygen masks capable of providing supplemental oxygen:
				i	to all passengers and crew members other than flight crew members; and		i	to all passengers and crew members other than flight crew members; and
				II	in each washroom and each separate lavatory; and		11	in each washroom and each separate lavatory; and
				iii	the total number of oxygen outlets and masks in the passenger compartments, including those in each washroom and lavatory, shall exceed the number of		iii	the total number of oxygen outlets and masks in the passenger compartments, including those in each washroom and lavatory, shall exceed the number of
	2	in no case less than 10 minutes' oxygen supply for all passengers		3	passenger seats by at least 10 %; and in no case less than 10 minutes' oxygen supply for all passengers carried; and		3	passenger seats by at least 10 %; and in no case less than 10 minutes' oxyger supply for all passengers carried; and
		carried.		4	when a cabin crew member is required to be carried, therapeutic oxygen capable of providing not less than 45 minutes supply for 10 % of the passengers carried; and		4	when a cabin crew member is required to be carried, therapeutic oxygen capable of providing not less than 45 minutes supply for 10 % of the passengers carried; and
				5	the extra oxygen units shall be uniformly distributed throughout the aircraft; and		5	the extra oxygen units shall be uniform distributed throughout the aeroplane; and
				6	oxygen masks shall be automatically presented to the passengers and crew members in the passenger compartment when the cabin pressure altitude exceeds 14,000 feet; and		6	oxygen masks shall be automatically presented to the passengers and crew members in the passenger compartme when the cabin pressure altitude exceeds 14,000 feet; and
				7	flight crew shall be provided with a manual means of making the passenger masks available in the event of failure of the automatic system.		7	flight crew shall be provided with a manual means of making the passenge masks available in the event of failure of the automatic system.

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	d	An aircraft operated above flight level 100 up to and including flight level 250 that cannot descend safely within four minutes to an altitude equal or lower than flight level 130 shall carry a minimum of 10 minutes' oxygen supply for all passengers carried.					121.745			Crew protective breathing equipment
							121.745	а	1	An aeroplane shall be equipped with protective breathing equipment (PBE) for: each required flight crew member at their assigned duty station; accessible for immediate use; to protect the eyes, nose and mouth and to provide oxygen for a period of at least 15 minutes; and
									2	each required cabin crew member, adjacent to their duty station; to protect the eyes, nose and mouth and to provide oxygen for a period of at least 15 minutes.
								b		In addition, the aeroplane in (a) shall be equipped with an additional portable PBE located near the hand fire extinguishers required in 121.700.
								c		Notwithstanding (b), when the fire extinguisher is located inside a cargo compartment, the additional portable PBE required shall be stowed outside, but adjacent to the entrance to that compartment. Note: The supply for PBE may be provided by the supplemental oxygen required by 121.735 or 121.740.
91.750		Flight recorders — construction and installation	135.750			Flight recorders — construction and installation	121.750			Flight recorders — construction and installation
		Flight recorders shall be constructed, located and installed so as to:		а		The operator shall ensure that any required flight recorder:				
	а	provide maximum practical protection for the recordings in order that the recorded information may be preserved, recovered and transcribed; and			1	is constructed, located and installed so as to provide maximum practical protection for the recordings in order that the recorded information may be preserved, recovered and transcribed;				
91.755	b	meet the prescribed crashworthiness and fire protection specifications. Flight recorders — flight data recorder (FDR) and alternatives Note 1: For aeroplanes for which the application for type certification is submitted before 1 January 2016, specifications applicable to flight	135.755		2	and meets the prescribed crashworthiness and fire protection specifications. Flight recorders — flight data recorder (FDR) and alternatives	121.755			Flight recorders — flight data recorder (FDR) and alternatives
		recorders may be found in EUROCAE ED-112, ED-56A, ED-55, Minimum Operational Performance Specifications (MOPS), or earlier equivalent documents.								
		Note 2: For aeroplanes for which the application for type certification is submitted on or after 1 January 2016, specifications applicable to flight recorders may be found in EUROCAE ED-112A, Minimum Operational Performance Specifications (MOPS), or equivalent documents.Note 3: Specifications applicable to								
		lightweight flight recorders may be found in EUROCAE ED-155, Minimum Operational Performance Specification (MOPS), or equivalent documents.								
		Note 4: Parameters to be recorded are listed in Appendix 2.3 to ICAO Annex 6 Part II (for aeroplanes), and Appendix 4 to Annex 6 Part III (for helicopters).Note 5: For aeroplanes with control systems in which movement of a control surface will back drive the pilot's control, "or" applies. For				Note 4: Parameters to be recorded are listed in Appendix 8 to ICAO Annex 6 Part I (for aeroplanes), and Appendix 4 to Annex 6 Part III (for helicopters).				Note 4: Parameters to be recorded are listed in Appendix 8 to ICAO Annex 6 Part I.
		aeroplanes with control systems in which movement of a control surface will not back drive the pilot's control, "and" applies. In aeroplanes with independent moveable surfaces, each surface needs to be recorded								

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-					1						
				separately. In aeroplanes with							
				independent pilot input on primary							
				controls, each pilot input on primary controls needs to be recorded							
				separately.							
				Note 6: "The application for type							
				certification is submitted to an ICAO							
				Contracting State" refers to the date of							
				application of the original "Type							
				certificate" for the aeroplane type, not the date of certification of particular							
				aeroplane variation or derivative							
				models.							
		а		Where an aircraft is required to be		а		Where an aircraft is required to be	а		An aeroplane with MTOM exceeding
				equipped with flight recorder systems,				equipped with flight recorder systems,			5,700 kg, required to be equipped with a
				the requirements may be met singly or in combination, as follows:				the requirements may be met singly or in combination, as follows:			FDR and a CVR, may alternatively be equipped with two combination
											recorders (FDR/CVR); with the following
											exceptions:
										1	An aeroplane with MTOM exceeding
											5,700 kg, for which the application for
											type certification is submitted to an ICAO Contracting State on or after 1
											January 2016 and which is required to
											be equipped with both a CVR and an
											FDR, shall be equipped with two
							_			2	combination recorders (FDR/CVR); and
										2	An aeroplane with MTOM exceeding 15,000 kg for which the application for
											type certification is submitted to an
											ICAO Contracting State on or after 1
											January 2016 and which is required to
											be equipped with both a CVR and an
											FDR, shall be equipped with two combination recorders (FDR/CVR). One
											recorder shall be located as close to the
											cockpit as practicable and the other
			4								recorder located as far aft as practicable.
			1	A multi-engined turbine-powered aeroplane with MTOM of 5,700 kg or			1	A multi-engined turbine-powered aeroplane with MTOM of 5,700 kg or			•
				less, required to be equipped with a				less, required to be equipped with a FDR			
				FDR and/or a CVR, may alternatively				and/or a CVR, may alternatively be			
				be equipped with one combination				equipped with one combination			
			2	recorder (FDR/CVR). Combination recorders (FDR/CVR) may			2	recorder (FDR/CVR). Combination recorders (FDR/CVR) may			
			2	be used to meet the flight recorder			2	be used to meet the flight recorder			
				equipage requirements for helicopters.				equipage requirements for helicopters.			
		b		A turbine-engined aeroplane with a		b		A turbine-engined aeroplane with			•
				seating configuration of more than 5				MTOM of 5,700 kg or less for which the individual certificate of airworthiness is			
				passenger seats and a MTOM of 5,700 kg or less for which the individual				first issued on or after 1 January 2016			
				certificate of airworthiness is first				shall be equipped with:			
				issued on or after 1 January 2016 shall							
			4	be equipped with:		$\left \right $	1				
			1 2	a Type II FDR; or a Class C AIR or AIRS capable of			1 2	a Type II FDR; or a Class C AIR or AIRS capable of			•
			۷	recording flight path and speed			۷	recording flight path and speed			-
				parameters displayed to the pilot(s); or				parameters displayed to the pilot(s); or			
			3	an ADRS capable of recording the			3	an ADRS capable of recording the			•
				essential parameters. (See Note 4				essential parameters. (See Note 4			
				above, regarding the parameters to be recorded.)				above, regarding the parameters to be recorded.)			
		с		An aeroplane for which the application		\uparrow					
				for type certification is submitted to an							
				ICAO Contracting State on or after 1							
				January 2016 and which is required to be fitted with an FDR, shall record the							
				following parameters at a maximum							
				recording interval of 0.125 seconds:							
	T	Ī	1	Pilot input and/or control surface]					
				position - primary controls (pitch, roll, yaw).							
		_		, s. w. j.		d		An aeroplane which is required to	d		An aeroplane which is required to
								record normal acceleration, lateral	u		record normal acceleration, lateral
								acceleration and longitudinal			acceleration and longitudinal
								acceleration for which the application			acceleration for which the application
								for type certification is submitted to an ICAO Contracting State on or after 1			for type certification is submitted to an ICAO Contracting State on or after 1
								January 2016 and which is required to			January 2016 and which is required to
								be fitted with an FDR shall record those			be fitted with an FDR shall record those
								parameters at a maximum sampling and			parameters at a maximum sampling and
								recording interval of 0.0625 seconds.			recording interval of 0.0625 seconds.

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	e		An aeroplane which is required to record pilot input and/or control surface position of primary controls (pitch, roll, yaw) for which the application for type certification is submitted to an ICAO Contracting State on or after 1 January 2016 and which is required to be fitted with an FDR shall record those parameters at a maximum sampling and recording interval of 0.125 seconds.	e		An aeroplane which is required to record pilot input and/or control surface position of primary controls (pitch, roll, yaw) for which the application for type certification is submitted to an ICAO Contracting State on or after 1 January 2016 and which is required to be fitted with an FDR shall record those parameters at a maximum sampling and recording interval of 0.125 seconds.
	e		A multi-engined turbine-engined aeroplane with MTOM of 5,700 kg or less for which the individual certificate of airworthiness was first issued on or after 1 January 1990 shall be equipped with a Type IIA FDR.	f		An aeroplane with MTOM exceeding 5,700 kg for which the individual certificate of airworthiness was first issued after 1 January 2005 shall be equipped with a Type IA FDR.
	f		A turbine-engined helicopter with MTOM exceeding 2,250 kg, up to and including 3,180 kg for which the application for type certification was submitted to an ICAO Contracting State on or after 1 January 2018 shall be equipped with:	ър		Flight data recorders - aeroplanes for which the individual certificate of airworthiness was first issued on or after 1 January 1989:
		1	a Type IV A FDR; or		1	An aeroplane with MTOM exceeding 27,000 kg shall be equipped with a Type I FDR.
		2	a Class C AIR capable of recording flight path and speed parameters displayed to the pilot(s); or	۲	2	An aeroplane with MTOM exceeding 5,700 kg, up to and including 27,000 kg, shall be equipped with a Type II FDR.
		3	an ADRS capable of recording the essential parameters. (See Note 3 above, regarding the parameters to be recorded.)	h	-	Flight data recorders - aeroplanes for which the individual certificate of airworthiness was first issued on or after 1 January 1987 but before 1 January 1989:
	g		A helicopter with MTOM of 3,180 kg or less for which the individual certificate of airworthiness is first issued on or after 1 January 2018 shall be equipped with:		1	A turbine-engined aeroplane with MTOM exceeding 5,700 kg, except an aeroplane in (g)(2) below, shall be equipped with an FDR which shall record time, altitude, airspeed, normal acceleration, heading and such additional parameters as are necessary to determine pitch attitude, roll attitude, radio transmission keying and power on each engine.
		1	a Type IV A FDR; or		2	A turbine-engined aeroplane with MTOM exceeding 27,000 kg, of a type for which the prototype was certificated by the appropriate national authority after 30 September 1969, shall be equipped with a Type II FDR.
		2	a Class C AIR capable of recording flight path and speed parameters displayed to the pilot(s); or			Flight data recorders - aeroplanes for which the individual certificate of airworthiness was first issued before 1 January 1987:
		3	an ADRS capable of recording the essential parameters. (See Note 3 above, regarding the parameters to be recorded.)		1	A turbine-engined aeroplane with MTOM exceeding 5,700 kg shall be equipped with a FDR which shall record time, altitude, airspeed, normal acceleration and headrng.
	h		A helicopter with MTOM exceeding 3,180 kg for which the individual certificate of airworthiness is first issued on or after 1 January 2016 shall be equipped with a Type IVA FDR.		2	A turbine-engined aeroplane with MTOM exceeding 27,000 kg of a type for which the prototype was certificated by the appropriate national authority after 30 September 1969 shall be equipped with a FDR which shall record, in addition to time, altitude, airspeed, normal acceleration and heading, such additional parameters as are necessary to meet the objectives of determining:
	 i		Flight data recorders - helicopters for which the individual certificate of airworthiness was first issued on or after 1 January 1989:		i	the attitude of the aeroplane in achieving its flight path; and
		1	A helicopter with MTOM exceeding 7,000 kg, or with a maximum approved passenger seating configuration of more than 19 shall be equipped with a Type IV FDR.		ii	the basic forces acting upon the aeroplane resulting in the achieved flight path and the origin of such basic forces.
	 j	2	A helicopter with MTOM exceeding 3,180 kg, up to and including 7,000 kg, shall be equipped with a Type V FDR. Types I and IA FDRs shall record the parameters required to determine accurately the aeroplane flight path,	 j		Types I and IA FDRs shall record the parameters required to determine accurately the aeroplane flight path,

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							speed, attitude, engine power,				speed, attitude, engine power,
	d		Types II and IIA FDRs shall record the parameters required to determine		k		configuration and operation. Types II and IIA FDRs shall record the parameters required to determine		k		configuration and operation. Types II and IIA FDRs shall record the parameters required to determine
			accurately the aeroplane flight path, speed, attitude, engine power and				accurately the aeroplane flight path, speed, attitude, engine power and				accurately the aeroplane flight path, speed, attitude, engine power and
			configuration of lift and drag devices.		1		configuration of lift and drag devices. A Type IV FDR shall record the parameters required to determine				configuration of lift and drag devices.
							accurately the helicopter flight path, speed, attitude, engine power and				
					m		operation. A Type IVA FDR shall record the				
							parameters required to determine accurately the helicopter flight path,				
							speed, attitude, engine power, operation and configuration.				
					n		A Type V FDR shall record the parameters required to determine accurately the helicopter flight path,				
	e	1	FDRs shall be capable of retaining the		0	1	speed, attitude and engine power. FDRs shall be capable of retaining the		1	1	FDRs shall be capable of retaining the
			information recorded during at least the last 25 hours of their operation; except				information recorded during at least the last 25 hours of their operation; except				information recorded during at least th last 25 hours of their operation;
		2	Type IV, IVA and V FDRs shall be capable of retaining the information recorded during at least the last 10 hours of their operation; and			2	Type IV, IVA and V FDRs shall be capable of retaining the information recorded during at least the last 10 hours of their operation; and				•
		3	Type IIA FDRs shall be capable of			3	Type IIA FDRs shall be capable of			2	Type IIA FDRs shall be capable of
			retaining the information recorded during the last 30 minutes of their operation.				retaining the information recorded during the last 30 minutes of their operation.				retaining the information recorded during the last 30 minutes of their operation.
	f		The use of the following FDRs shall be discontinued:		р		The use of the following FDRs shall be discontinued:		m		The use of the following FDRs shall be discontinued:
	-	1 2	Engraving metal foil FDRs. Photographic film FDRs.			1	Engraving metal foil FDRs. Photographic film FDRs.			1 2	Engraving metal foil FDRs. Photographic film FDRs.
		3	Analogue FDRs using frequency modulation (FM).			3	Analogue FDRs using frequency modulation (FM).			3	Analogue FDRs using frequency modulation (FM).
4 760		4	Magnetic tape FDRs by 1 January 2016.	405 760		4	Magnetic tape FDRs by 1 January 2016.	424 760		4	Magnetic tape FDRs by 1 January 2016
91.760			Flight recorders — cockpit voice recorder (CVR) and cockpit audio recording system (CARS)	135.760			Flight recorders — cockpit voice recorder (CVR) and cockpit audio recording system (CARS)	121.760			Flight recorders — cockpit voice recorder (CVR) and cockpit audio recording system (CARS)
					а		A turbine-engined aeroplane with MTOM exceeding 2,250 kg, up to and including 5,700 kg for which the application for a type certification is submitted to an ICAO Contracting State on or after 1 January 2016 and required				
							to be operated by more than one pilot shall be equipped with a CVR or a CARS.				
	а		A turbine-engined aeroplane with a seating configuration of more than 5 passenger seats and a MTOM of 5,700 kg or less for which the individual certificate of airworthiness is first issued on or after 1 January 2016 and required to be operated by more than one pilot shall be equipped with either a CVR or a CARS.		b		A turbine-engined aeroplane with MTOM of 5,700 kg or less for which the individual certificate of airworthiness is first issued on or after 1 January 2016 and required to be operated by more than one pilot shall be equipped with either a CVR or a CARS.				•
					С		Cockpit voice recorders - helicopters for which the individual certificate of airworthiness was first issued on or after 1 January 1987:		а		Cockpit voice recorders - aeroplanes for which the individual certificate of airworthiness was first issued on or aft 1 January 1987:
						1	A helicopter with MTOM exceeding 7,000 kg shall be equipped with a CVR. For helicopters not equipped with an FDR, at least main rotor speed shall be recorded on the CVR.			1	An aeroplane with MTOM exceeding 5,700 kg shall be equipped with a CVR.
						2	A helicopter with MTOM exceeding 3,180 kg shall be equipped with a CVR. For helicopters not equipped with an FDR, at least main rotor speed shall be recorded on the CVR.		b		Cockpit voice recorders - aeroplanes for which the individual certificate of airworthiness was first issued before 1 January 1987:
					d		Cockpit voice recorders - helicopters for which the individual certificate of airworthiness was first issued before 1 January 1987:			1	A turbine-engined aeroplane with MTOM exceeding 27,000 kg of a type f which the prototype was certificated b the appropriate national authority afte 30 September 1969, shall be equipped with a CVR.
						i	A helicopter with MTOM exceeding 7,000 kg shall be equipped with a CVR. For helicopters not equipped with an			2	A turbine-engined aeroplane with MTOM exceeding 5,700 kg, up to and including 27,000 kg, of a type for which

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				FDR, at least main rotor speed shall be recorded on the CVR.			the prototype was certificated by the appropriate national authority after 30 September 1969, shall be equipped with a CVR.
b		All CVRs shall be capable of retaining the information recorded during at least the last 30 minutes of their operation; with the following exceptions:	e	All CVRs shall be capable of retaining the information recorded during at least the last 30 minutes of their operation; with the following exceptions:		с	All CVRs shall be capable of retaining the information recorded during at least the last 30 minutes of their operation; with the following exceptions:
	1	From 1 January 2016, all required CVRs shall be capable of retaining the information recorded during at least the last two hours of their operation;	1	From 1 January 2016, all required CVRs shall be capable of retaining the information recorded during at least the last two hours of their operation;			1 From 1 January 2016, all required CVRs shall be capable of retaining the information recorded during at least the last two hours of their operation;
							2 All aeroplanes of a maximum certificated take-off mass of over 27000 kg for which the individual certificate of airworthiness is first issued on or after 1 January 2021 shall be equipped with a CVR capable of retaining the information recorded during at least the last twenty- five hours of its operation.
							An aeroplane with MTOM exceeding 5,700 kg for which the individual certificate of airworthiness was first issued on or after 1 January 2003, shall be equipped with a CVR capable of retaining the information recorded during at least the last two hours of its operation; and
	2	An aeroplane for which the individual certificate of airworthiness was first issued on or after 1 January 1990, and that is required to be equipped with a CVR, shall have a CVR capable of retaining the information recorded during at least the last two hours of its operation.	2	An aeroplane for which the individual certificate of airworthiness was first issued on or after 1 January 1990, and that is required to be equipped with a CVR, shall have a CVR capable of retaining the information recorded during at least the last two hours of its operation; and			An aeroplane for which the individual certificate of airworthiness was first issued on or after 1 January 1990, and that is required to be equipped with a CVR, shall have a CVR capable of retaining the information recorded during at least the last two hours of its operation.
			3	A helicopter for which the individual certificate of airworthiness was first issued on or after 1 January 1990, and that is required to be equipped with a CVR, shall have a CVR capable of retaining the information recorded during at least the last two hours of its operation.			
С		The use of magnetic tape and wire CVRs shall be discontinued by 1 January 2016.	f	The use of magnetic tape and wire CVRs shall be discontinued by 1 January 2016.		d	The use of magnetic tape and wire CVRs shall be discontinued by 1 January 2016.
		Note: Signals to be recorded are listed in Appendix 2.3 to ICAO Annex 6 Part II (for aeroplanes), and Appendix 4 to Annex 6 Part III (for helicopters).		Note: Signals to be recorded are listed in Appendix 8 to ICAO Annex 6 Part I (for aeroplanes), and Appendix 4 to Annex 6 Part III (for helicopters).			Note: Signals to be recorded are listed in Appendix 8 to ICAO Annex 6 Part I.
					121.762		Cockpit voice recorder (CVR) — alternate power
						b	An aeroplane with MTOM exceeding 27,000 kg for which the application for type certification is submitted to an ICAO Contracting State on or after 1 January 2018 shall be provided with an alternate power source, that powers the forward CVR in the case of combination recorders. An aeroplane with MTOM exceeding 27,000 kg for which the individual
							certificate of airworthiness is first issued on or after 1 January 2018 shall be provided with an alternate power source that powers at least one CVR.
						c	An alternate power source shall automatically engage and provide ten minutes, plus or minus one minute, of operation whenever aeroplane power to the recorder ceases, either by normal shutdown or by any other loss of power. The alternate power source shall power
							the CVR and its associated cockpit area microphone components.
						e	The CVR shall be located as close as practicable to the alternate power source.Note 1: "Alternate" means separate from the power source that normally provides power to the CVR. The use of aeroplane batteries or other power

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Γ								sources is acceptable provided that the requirements above are met and
								electrical power to essential and critical loads is not compromised.
								Note 2: When the CVR function is
								combined with other recording functions within the same unit, powering the other
			135.765		Flight recorders — data link recorders	121.765		functions is allowed. Flight recorders — data link recorders
					Note: Data link recorders performance requirements are as contained in the			Note: Data link recorders performance requirements are as contained in the
					EUROCAE ED-112, Minimum Operational Performance Specification (MOPS) for			EUROCAE ED-112, Minimum Operational Performance Specification (MOPS) for
					Crash Protected Airborne Recorder			Crash Protected Airborne Recorder
				а	Systems, or equivalent documents. An aeroplane for which the individual		а	Systems, or equivalent documents.An aeroplane for which the individual
					certificate of airworthiness is first issued on or after 1 January 2016, which			certificate of airworthiness is first issued on or after 1 January 2016, which
					utilizes any of the data link communications applications listed in			utilizes any of the data link communications applications listed in
					5.1.2 of Appendix 9 to ICAO Annex 6 Part I and is required to carry a CVR,			5.1.2 of Appendix 9 to ICAO Annex 6 Part I and is required to carry a CVR,
					shall record on a flight recorder the data			shall record on a flight recorder the data
_				b	link communications messages. An aeroplane which is modified on or		b	link communications messages.An aeroplane which is modified on or
					after 1 January 2016 to install and utilize any of the data link communications			after 1 January 2016 to install and utilize any of the data link communications
					applications listed in 5.1.2 of Appendix 9 to ICAO Annex 6 Part I (aeroplanes) and			applications listed in 5.1.2 of Appendix 9 to ICAO Annex 6 Part I (aeroplanes) and
					is required to carry a CVR, shall record on a flight recorder the data link			is required to carry a CVR, shall record on a flight recorder the data link
				c	communications messages. A helicopter for which the individual			communications messages.
					certificate of airworthiness is first issued			
					on or after 1 January 2016, which utilizes any of the data link			
					communications applications listed in 5.1.2 of Appendix 5 to ICAO Annex 6			
					Part III and is required to carry a CVR, shall record on a flight recorder the data			
_				d	link communications messages. A helicopter which is modified on or			
				ŭ	after 1 January 2016, to install and			
					utilize any of the data link communications applications listed in			
					5.1.2 of Appendix 5 to ICAO Annex 6 Part III and is required to carry a CVR,			
					shall record on a flight recorder the data link communications messages.			
					Note 1: Data link communications are currently conducted by either ATN-based			Note 1: Data link communications are currently conducted by either ATN-based
					or FANS 1/A-equipped aircraft. Note 2: A Class B AIR could be a means			or FANS 1/A-equipped aircraft. Note 2: A Class B AIR could be a means
					for recording data link communications			for recording data link communications
					applications messages to and from the aeroplanes where it is not practical or is			applications messages to and from the aeroplanes where it is not practical or is
					prohibitively expensive to record those data link communications applications			prohibitively expensive to record those data link communications applications
┢	 +			e	messages on FDR or CVR. The minimum recording duration shall		e	messages on FDR or CVR. The minimum recording duration shall
	-+			f	be equal to the duration of the CVR. Data link recording shall be able to be		f	be equal to the duration of the CVR. Data link recording shall be able to be
					correlated to the recorded cockpit audio.			correlated to the recorded cockpit audio.
						121.767	F	Flight recorder data recovery
								All aeroplanes of a maximum certificated take-off mass of over 27,000
								kg and authorized to carry more than nineteen passengers for which the
								application for type certification is submitted to a Contracting State on or
								after 1 January 2021, shall be equipped with a means approved by the Director
								to recover flight recorder data and make it available in a timely manner.
			<u> </u>				\square	Note: In approving the means to make
								flight recorder data available in a timely manner, the Director shall take into
								account the following: a) the capabilities of the operator;
								b) overall capability of the aeroplane and its systems as certified by State of
								Design;

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											c) the reliability of the means to recover the appropriate CVR channels and appropriate FDR data; and d) specific mitigation measures.
91.770	╞╴╿		Ground proximity warning system	135.770		+	Ground proximity warning system	121.770			Ground proximity warning system
	а		A turbine-engined aeroplane with MTOM exceeding 5,700 kg or with a maximum approved passenger seating configuration of more than 9 seats shall be equipped with a ground proximity warning system which has a forward looking terrain avoidance function.		а		A turbine-engined aeroplane with a maximum approved passenger seating configuration of more than 9 seats shall be equipped with a ground proximity warning system which has a forward looking terrain avoidance function.		а		A turbine-engined aeroplane with a maximum approved passenger seating configuration of more than 9 seats shall be equipped with a ground proximity warning system which has a forward looking terrain avoidance function.
					b		A piston-engined aeroplane with a maximum approved passenger seating configuration of more than 9 seats shall be equipped with a ground proximity warning system which has a forward looking terrain avoidance function.		b		A piston-engined aeroplane with a maximum approved passenger seating configuration of more than 9 seats shall be equipped with a ground proximity warning system which has a forward looking terrain avoidance function.
	b		A ground proximity warning system required to be carried in accordance with paragraph (a) shall provide an automatic and distinctive warning to the flight crew when the aeroplane is in potentially hazardous proximity to the earth's surface.		C		A ground proximity warning system required to be carried in accordance with paragraph (a) or (b) shall provide an automatic and distinctive warning to the flight crew when the aeroplane is in potentially hazardous proximity to the earth's surface.		С		A ground proximity warning system required to be carried in accordance with paragraph (a) or (b) shall provide an automatic and distinctive warning to the flight crew when the aeroplane is in potentially hazardous proximity to the earth's surface.
	c	1	A ground proximity warning system required to be carried in accordance with paragraph (a) shall provide, as a minimum, warnings of at least the following circumstances: excessive descent rate;		d	1	A ground proximity warning system required to be carried in accordance with paragraph (b) shall provide, as a minimum, warnings of at least the following circumstances: excessive descent rate;		d	1	A ground proximity warning system required to be carried in accordance with paragraph (b) shall provide, as a minimum, warnings of at least the following circumstances: excessive descent rate;
		2	excessive altitude loss after take-off or			2	excessive altitude loss after take-off or		1	2	excessive altitude loss after take-off or
	$\left \right $	2	go-around; and			2	go-around; and		-	2	go-around; and unsafe terrain clearance.
	d	3	unsafe terrain clearance. The ground proximity warning system		e	3	unsafe terrain clearance. The ground proximity warning system of		e	3	unsafe terrain clearance. The ground proximity warning system of
			ofa turbine-engined aeroplane with MTOM exceeding 5,700 kg or with a maximum approved passenger seating configuration of more than 9 seats for which the individual certificate of airworthiness was first issued after 1 January 2011 shall provide, as a minimum, warnings of at least the				required to be carried in accordancce with paragraph (a) shall provide, as a minimum, warnings of at least the following circumstances:				required to be carried in accordance with paragraph (a) shall provide, as a minimum, warnings of at least the following circumstances:
			following circumstances:								
		1 2	excessive descent rate; excessive terrain closure rate;			1	excessive descent rate; excessive terrain closure rate;			1 2	excessive descent rate; excessive terrain closure rate;
		3	excessive altitude loss after take-off or			3	excessive altitude loss after take-off or			3	excessive altitude loss after take-off or
		4	go-around; unsafe terrain clearance while not in the lending configuration;			4	go-around; unsafe terrain clearance while not in the			4	go-around; unsafe terrain clearance while not in th
		i	the landing configuration; gear not locked down;			i	landing configuration; gear not locked down;		_	i	landing configuration; gear not locked down;
		ii	flaps not in a landing position; and			ii	flaps not in a landing position; and			ii	flaps not in a landing position; and
		5	excessive descent below the			5	excessive descent below the instrument			5	excessive descent below the instrumer
			instrument glide path.	135.775			glide path. Significant weather detection	121.775			glide path. Significant weather detection
							A helicopter or pressurised aeroplane: when carrying passengers shall be equipped with operative weather radar or other significant-weather detecting equipment capable of detecting thunderstorms whenever the aircraft is being operated in areas where such conditions may be expected to exist along the route in instrument meteorological conditions or at night.				A pressurised aeroplane: when carrying passengers shall be equipped with operative weather rada or other significant-weather detecting equipment capable of detecting thunderstorms whenever the aircraft is being operated in areas where such conditions may be expected to exist along the route in instrument meteorological conditions or at night.
								121.780			Turbo-jet aeroplanes - forward-looking wind shear warning system
									а		A turbo-jet aeroplane with MTOM exceeding of 5,700 kg or with a maximum approved passenger seating configuration of more than 9 seats sha be equipped with a forward-looking wind shear warning system.
									b		A forward-looking wind shear warning system shall be capable of providing th pilot with a timely aural and visual warning of wind shear ahead of the aircraft, and the information required t permit the pilot to safely commence ar continue a missed approach or go- around or to execute an escape manoeuvre if necessary. The system should also provide an indication to the

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						pilot when the limits specified for the certification of automatic landing equipment are being approached, when such equipment is in use.
	135.785		Airborne collision avoidance system (ACAS II)	121.785		Airborne collision avoidance system (ACAS II)
		а	An airborne collision avoidance system shall operate in accordance with the relevant provisions of ICAO Annex 10, Volume IV.		а	An airborne collision avoidance system shall operate in accordance with the relevant provisions of ICAO Annex 10, Volume IV.
			Note 1: TCAS II Version 7 is the only system which is compliant with ICAO ACAS II technical standards.			Note 1: TCAS II Version 7 is the only system which is compliant with ICAO ACAS II technical standards.
			Note 2: TCAS II Version 7.1 is required for compliance with ICAO ACAS II technical standards from 1 January 2017.			Note 2: TCAS II Version 7.1 is required for compliance with ICAO ACAS II technical standards from 1 January 2017.
					b	A turbine-engined aeroplane with MTOM exceeding 5,700 kg, or with a maximum approved passenger seating configuration of more than 19 seats, shall be equipped with an airborne collision avoidance system (ACAS II).
	135.790		Cosmic radiation detection equipment	121.790		Cosmic radiation detection equipment
		a	An aerop lane flying above 49,000 feet shall carry equipment to measure and indicate continuously the dose rate of total cosmic radiation being received (i.e. the total of ionizing and neutron radiation of galactic and solar origin) and the cumulative dose on each flight.		a	shall carry equipment to measure and indicate continuously the dose rate of total cosmic radiation being received (i.e. the total of ionizing and neutron radiation of galactic and solar origin) and the cumulative dose on each flight.
		b	The display unit of the equipment shall be readily visible to a flight crew member.		b	The display unit of the equipment shall be readily visible to a flight crew member.
	135.795		Vibration health monitoring system			
			A helicopter with MTOM exceeding 3,175 kg or a maximum approved passenger seating configuration of more than 9 seats shall be equipped with a vibration health monitoring system.			

121.700 Table 4

Maximum approved passenger seating configuration	То	tal number o	f kits
0 to 100		1	
101 to 200		2	
201 to 300		3	
301 to 400		4	
401 to 500		5	

121.700 Table 5

Location	Distribution
Accessible to the crew near the entrance to each Class A, B and E cargo compartment	1
On or near the flight deck, readily accessible from the flight crew station	1
A galley not in a passenger, crew or crgo compartment	1
Accessible to eacg galley in a passenger compartment	1
Maximum approved passenger seating configuration	
1 to 30	1
31 to 60	2
61 to 200	3
201 to 300	4
301 to 400	5
401 to 500	6

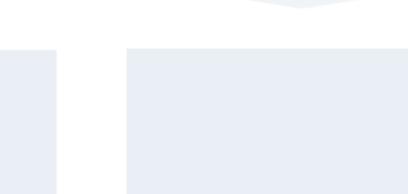
Maximum approved passenger seating configuration	Distribution							
	Forward end	Mid section	Most rearward section					
61 to 99			1					
100 or more	1		1					
199 or more	1	1	1					

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Part 91		Requirement	Part 135	Requirement	Part 121	Requirement	
			Subpart G – G	Continuing airworthiness ma	anagement		
91.900		Continuing airworthiness management					
		The owner or lessee of an aircraf registered in Guernsey shall:	t				
	а	have continuing airworthiness management arrangements in compliance with GAR Part 39; an	d				
	b	have appointed a person or organisation, acceptable to the Director, who will ensure that appropriate arrangements are in for continuing airworthiness management.	place				



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Part 91		Requirement	Part 135			Requirement	Part 121		Requirement
				9	Subp	oart H - Crew Requirements	_		
91.905		Composition of crew	135.905			Composition of crew	121.905		Composition of crew
	а	An aircraft shall not fly unless it carries a flight crew of the number and description required by the law of the				The operator shall ensure that:			The operator shall ensure that:
	b	country in which it is registered.An aircraft shall carry a flight crew adequate in number and description to ensure the safety of the aircraft but no fewer than that specified in the flight manual, or other documents associated with the certificate of airworthiness or permit to fly.		а		the number and composition of the flight crew shall not be less than that specified in the operations manual. The flight crew shall include flight crew members in addition to the minimum numbers specified in the flight manual or other documents associated with the certificate of airworthiness, when necessitated by considerations related to the type of		a	the number and composition of the flight crew shall not be less than that specified in the operations manual. The flight crew shall include flight crew members in addition to the minimum numbers specified in the flight manual or other documents associated with the certificate of airworthiness, when necessitated by considerations related to the type of
				b		aircraft used, the type of operation involved and the duration of flight between points where flight crews are changed. For operations under IFR or at night the			aeroplane used, the type of operation involved and the duration of flight between points where flight crews are changed.
					1	minimum flight crew is two pilots when using: an aeroplane powered by one or more			
					2	turbine jets, except when otherwise authorised by the Director; an aeroplane powered by one or more			
						turbine propeller engines and with a maximum approved passenger seating configuration of more than 9; or			
					3	a helicopter with a maximum approved passenger seating configuration of more than 9.			
				c		For operations under IFR or at night using an aircraft not covered by (b) above, the aircraft may be operated by a single pilot provided that:			
					1 2	the requirements of (d) and (e) below are satisfied; or it is a helicopter flying by day and			
						remaining clear of cloud and with the surface jmsghL Note: Flights in (c)(2) come under the			
						visual reference provisions in Rule 33 of the instrument flight rules (IFR), i.e. when the flight visibility is less than 1500 metres but not less than 800 metres.			
				d		For single pilot operations in accordance with paragraph (c)(1) above, the requirement of 135.655(f) is met and the			
					1	pilot-in-command satisfies thefollowmg: at least 50 hours flight time on the type or class of aircraft, of which at least 10 hours shall be as pilot-incommand;			
					2	at least 25 hours flight time under IFR on the type or class of aircraft; for operations at night, at least 15 hours			
					4 i	flight time at night; minimum recent experience of: at least five IFR flights, including three			
						instrument approaches carried out during the preceding 90 days on the type or class of aircraft in the single pilot role; or			
					5	 an IFR instrument approach check carried out on the type or class of aircraft during the preceding 90 days; for operations at night, at least three take- 			
						offs and landings at night on the type or class of aircraft in the single pilot role in the preceding 90 days.			
					6	has successfully completed training programmes, for the role, that include, passenger briefing with respect to emergency evacuation; autopilot management; and the use of simplified in-			
					7	flight documentation; and has successfully completed, in the single pilot role, the requirements of checking contained in 135.1110.			
		Flight crew qualification	135.910	e		Use of a single pilot shall be approved by the Director. Flight crew qualification			

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			The pilot-in-command shall satisfy				The operator shall ensure that:				The operator shall ensure that:
		а	himself that: each flight crew member assigned to duty holds an appropriate licence issued or validated by the State of		а		each flight crew member assigned to duty holds an appropriate licence issued or validated by the Bailiwick of Guernsey;		а		each flight crew member assigned to duty holds an appropriate licence issued or validated by the Bailiwickof Guernsey;
			Registry of the aircraft; and				and:				and:
		b	flight crew members are properly rated in respect of their assigned duty; and			1	meets all requirements for the assigned flight-crew duty; and			1	meets all requirements for the assigned flight-crew duty; and
		С	the licence is current and includes the appropriate rating, and			2	meets all route and aerodrome qualification requirements for the operation intended.			2	meets all route and aerodrome qualification requirements for the operation intended.
		d	flight crew members are competent to			3	is currently qualified in accordance with			3	is currently qualified in accordance with
04.045			carry out their assigned duties.	435.045			the requirements of Subpart I.	424.045		-	the requirements of Subpart I.
91.915	а		Flight crew recency No person shall act as pilot-in-	135.915	а		Flight crew recency The operator shall not assign a pilot-in-	121.915	a		Flight crew recency The operator shall not assign a pilot-in-
	a		command of an aircraft carrying passengers, unless:		d		command or a co-pilot to operate at the flight controls of a type or variant of a type of aircraft during take-off and landing unless that pilot has operated the flight controls during at least three take-offs and landings within the preceding 90 days on the same type of aircraft or in a flight simulator approved for the purpose; and		a		command or a co-pilot to operate at the flight controls of a type or variant of a type of aeroplane during take-off and landing unless that pilot has operated the flight controls during at least three take- offs and landings within the preceding 90 days on the same type of aeroplane or in a flight simulator approved for the purpose; and
		1	on the same type of aircraft within the immediately preceding 90 days, that pilot has made at least three take offs and three landings; or		b		if the aircraft is to be flown in accordance with the instrument flight rules, has flown a minimum of three instrument approaches in the previous 90 days or has otherwise demonstrated competence through a flight check with a flight examiner.		b		if the aeroplane is to be flown in accordance with the instrument flight rules, has flown a minimum of three instrument approaches in the previous 90 days or has otherwise demonstrated competence through a flight check with a flight examiner.
		2	has otherwise demonstrated competence on an approved synthetic flight training device approved for the purpose; or has satisfactorily demonstrated to a						С	1	The operator shall not assign a pilot to act in the capacity of cruise relief pilot unless, within the preceding 90 days, that pilot has either: operated as pilot-in-command, co-pilot or
			flight examiner, continued proficiency in an aircraft of the same type.							2	cruise relief pilot on the same type of aeroplane; or carried out flying skill refresher training
											including normal, abnormal and emergency procedures specific to cruise flight on the same type of aeroplane or in a flight simulator approved for the purpose, and has practiced approach and landing procedures, where the approach and landing procedure practice may be performed as the pilot who is not flying the aeroplane.
							Note: See also 135.965 when a pilot is flying several variants of the same type of aircraft or different types of aircraft with similar characteristics in terms of operating procedures, systems and handling; credit may be approved for operation of similar types or variants.				Note: See also 121.965 when a pilot is flying several variants of the same type of aircraft or different types of aircraft with similar characteristics in terms of operating procedures, systems and handling; credit may be approved for operation of similar types or variants.
				135.920			Flight crew duty assignment	121.920	\vdash		Flight crew duty assignment
							The operator shall:		L		The operator shall:
		Ī			а		designate a pilot to act as pilot-in-		а		designate a pilot to act as pilot-in-
					b		command for each flight; designate any additional flight crew member that may be required by the type of aircraft operated, the type of operation to be performed and the duration of the flight to augment the minimum crew specified in the aircraft flight manual;		b		command for each flight; designate any additional flight crew member that may be required by the type of aeroplane operated, the type of operation to be performed and the duration of the flight to augment the minimum crew specified in the aeroplane flight manual;
					С		assign to each member of flight crew the functions to be carried out in the event of an aircraft emergency and of an emergency evacuation becoming necessary;		С		assign to each member of flight crew the functions to be carried out in the event of an aircraft emergency and of an emergency evacuation becoming necessary;
					d		ensure that whenever an aircraft includes a separate flight engineer's station the assigned flight crew includes at least one flight engineer especially assigned to that station, unless the duties associated with that station can adequately be performed by another flight crew member holding a flight engineer licence without interference with regular duties; and		d		ensure that whenever an aeroplane includes a separate flight engineer's station the assigned flight crew includes at least one flight engineer especially assigned to that station, unless the duties associated with that station can adequately be performed by another flight crew member holding a flight engineer licence without interference with regular duties; and
				135.925			Pilot-in-command - experience requirements	121.925			Pilot-in-command - experience requirements

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			-	<u> </u>			1	1	
					The operator shall ensure that each person				The operator shall ensure that each
					designated as pilot-in-command of an				person designated as pilot-in-command of
			1	ĺ	aircraft has acquired, prior to commencing				an aeroplane has acquired, prior to
					the training specified in Subpart I for pilot-				commencing the training specified in
					in-command, at least the minimum flight				Subpart I for pilot-in-command, at least
			1	1	time specified in the operations manual.		1		the minimum flight time specified in the
			1	1			1		operations manual.
	+	135.930	+		Pilot experience	121.930	-		•
├ ──	+	 122.220	-		Pilot experience	121.930			Pilot experience
			1	1	The operator shall ensure that any person		1		The operator shall ensure that any person
			1	1	operating as a pilot of a commercial air		1		operating as a pilot of a commercial air
					transport operation:				transport operation:
	Ţ		а	_	is suitably trained and qualified on the		а		is suitably trained and qualified on the
				L	aircraft type; and				aeroplane typegand
			b		is capable, in the event of the pilot-in-		b		is capable, in the event of the pilot-in-
			1	1	command being incapacitated:				command being incapacitated:
				1	of operating the aircraft safely under the			1	of operating the aeroplane safely under
				-	prevailing and anticipated forecast			-	the prevailing and anticipated forecast
					weather conditions; and				weather conditions; and
			-	2	of landing the aircraft at the intended			2	of landing the aeroplane at the intended
				2	destination or a suitable alternate.		1	2	destination or a suitable alternate.
├ ──	+ +	125.005				404 00-	-		
		135.935			Pilot operating limitations	121.935			Pilot operating limitations
	[The operator shall specify any pilot				The operator shall specify any pilot
					operating limitations in the operations		1		operating limitations in the operations
					manual.		1		manual.
		135.940			Cabin crew duty assignment	121.940	1		Cabin crew duty assignment
	+				The operator shall ensure that:				The operator shall ensure that an aircraft
							1		with an MAPSC of more than 19 and on
									which at least one passenger is carried:
├ ──┤─	+		-		uplose othornules suthering the st		-		
			а		unless otherwise authorised by the		а		unless otherwise authorised by the
					Director its aeroplanes are operated with		1		Director shall carry no fewer than the
					at least the minimum number of cabin				number of cabin crew members:
					crew carried as crew members:				
	Ţ			1	specified by the manufacturer's			1	specified by the manufacturer's
				ĺ	recommended emergency evacuation				recommended emergency evacuation
			1	1	procedures for the aeroplane				procedures for the aeroplane
			1	1	configuration beingused^and		1		configuration being used;
	1 1		1	2	specified by the certified design criteria for		1	2	specified by the certified design criteria
			1	[_	the aeroplane.			-	for the aeroplane;
	+		-				-	2	
			1	1				3	that will ensure at least one cabin crew
			1	1			1		member is present in each occupied
									compartment; who has, wherever
									possible a direct view of the
									compartment; and
	Ţ							4	in accordance with the formula of 1 cabin
									crew member for every 50 or fraction of
									50 passenger seats installed in the
									aeroplane.
							b		there are designated for each flight:
 	+						-		requiring two or more cabin crew, a
								1	
									senior cabin crew member responsible to
			1	1			1		the pilot-in-command for the operational
			1	1			1		and safety functions of each cabin crew
			_			1			member; and
			1	1			1	2	requiring six or more cabin crew, a deputy
		 		\square					senior cabin crew member.
				1			С		notwithstanding the requirements of
			1	1			1		paragraph (a)(4), one fewer cabin crew
			1	1			1		member than that specified may be
			1	1			1		carried to allow the continuation of a
			1	1			1		flight in the event a required cabin crew
			1	1			1		member becomes unfit because of
			1	ĺ					sickness or injury during their duty period,
			1	1			1		provided that:
	+		-					1	•
			1	1				1	the requirements of paragraphs (a)(1), (2),
	+		-	<u> </u>		+	-	-	and (3) can be met; and
			1	1			1	2	the remaining cabin crew are trained and
			1	1			1		competent to operate safely with the
			1	1			1		reduced number of cabin crew in
			1	1					accordance with the procedures specified
									in the operations manual; and
			Γ	[ſ	3	numbers are restored to comply with the
			1	1					requirements of paragraph (a)(4) at the
			1	1			1		first aerodrome of landing where a
			1	ĺ					replacement would normally be expected
			1	1					to be available.
	+	125.045	-		Task specialists	121.045			
		135.945	_	<u> </u>	Task specialists — emergency functions	121.945			Task specialists — emergency functions
			1	ĺ	The operator shall assign to any task				The operator shall assign to any task
1			1	ĺ	specialist the functions to be carried out in				specialist the functions to be carried out
			1	ĺ	the event of an aircraft emergency and of				in the event of an aircraft emergency and
			1	ĺ	an emergency evacuation becoming				of an emergency evacuation becoming
			1	1	necessary.				necessary.
				-	•	4			

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Part 91	Requirement	Part 135			Requirement	Part 121			Requirement
		l.			Subpart I – Training				
		135.950			Training programmes — general	121.950			Training programmes — general
			а		The operator shall establish a ground and flight training programme, approved by the Director, to ensure that operating staff, including flight crew, cabin crew and other crew members are adequately trained and competent to perform their duties; as follows:		а		The operator shall establish a ground and flight training programme, approved by the Director, to ensure that operating staff, including flight crew, cabin crew and other crew members are adequately trained and competent to perform their duties; as follows:
				1	The training programme shall include skills in relation to human performance and awareness of the operator's safety management system (SMS) as appropriate to the area of work.			1	The training programme shall include skills in relation to human performance and awareness of the operator's safety management system (SMS) as appropriate to the area of work.
				2	The training programme shall be reviewed periodically to ensure that training elements are included with regard to significant safety risks, taking account of the nature of the operation.			2	The training programme shall be reviewed periodically to ensure that training elements are included with regard to significant safety risks, taking account of the nature of the operation.
				3	Training programmes for flight crew shall consist of ground and flight training on the type(s) of aircraft on which the flight crew member serves and shall include training in normal procedures and all types of emergency or abnormal situations.			3	Training programmes for flight crew shall consist of ground and flight training on the type(s) of aircraft on which the flight crew member serves and shall include training in normal procedures and all types of emergency or abnormal situations.
				4	Flight crew shall be trained in the use of the operator's standard operating procedures.			4	Flight crew shall be trained in the use of the operator's standard operating procedures.
				5	The training for each crew member, particularly that relating to abnormal or emergency procedures, shall ensure that all crew members know the functions for which they are responsible and the relation of these functions to the			5	The training for each crew member, particularly that relating to abnormal or emergency procedures, shall ensure that all crew members know the functions for which they are responsible and the relation of these functions to the
				6	functions of other crew members. The training programme shall be given on a recurrent basis, at least annually, and shall include an assessment of competence.			6	functions of other crew members. The training programme shall be given on a recurrent basis, at least annually, and shall include an assessment of competence.
			b	7	The training programme shall include the syllabus for each type of training to be conducted. The operator shall ensure that each crew member is trained in accordance with the training programme. The operator shall ensure that details of the training programme form the operations manual, Part D.		b c	7	The training programme shall include the syllabus for each type of training to be conducted. The operator shall ensure that each crew member is trained in accordance with the training programme. The operator shall ensure that details of the training programme form the operations manual, Part D.
			d e		The operator shall ensure that any person responsible for providing training is appropriately qualified to do so. The operator shall ensure that the training programme is conducted safely and without unacceptable risk to the equipment and personnel or third parties.		d e		The operator shall ensure that any person responsible for providing training is appropriately qualified to do so. The operator shall ensure that the training programme is conducted safely and without unacceptable risk to the equipment and personnel or third parties.
			g		The operator shall ensure that training in aircraft procedures is carried out in either an aircraft of the type to be used by that crew member or in an appropriate synthetic training device (STD).		g		The operator shall ensure that training in aircraft procedures is carried out in either an aircraft of the type to be used by that crew member or in an appropriate synthetic training device (STD).
			h		Training programmes for flight crew shall include knowledge and skills related to the operational use of head-up display (HUD) and/or enhanced vision systems (EVS) for those aircraft so equipped.		h		Training programmes for flight crew shall include knowledge and skills related to the operational use of head- up display (HUD) and/or enhanced vision systems (EVS) for those aircraft so equipped.
		135.955	а		Security training programme The operator shall establish and maintain a security training programme to ensure that any crew member is able to take appropriate action to prevent acts of unlawful interference and to minimise the consequences of such occurrences should they occur.	121.955	а		Security training programme The operator shall establish and maintain a security training programme to ensure that any crew member is able to take appropriate action to prevent acts of unlawful interference and to minimise the consequences of such occurrences should they occur.
			b		The programme shall acquaint staff members with preventive measures in relation to passengers, baggage, cargo, equipment, stores and supplies intended		b		The programme shall acquaint staff members with preventive measures in relation to passengers, baggage, cargo, equipment, stores and supplies intended

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Guernsey Aviatio Requirements

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4 Use of non-feat in protective devices and approach by the Directory and suggest of user memory, where specifically approach by the Directory and specifical				3	Appropriate self defence responses; and			3	Appropriate self defence responses; and
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Image: Second Processing					regarding various threat conditions; and				regarding various threat conditions; and
8 8 Accorplane search procedures and guidance on best-rek bomb tocknos where practicable. 8 8 Accorplane search procedures an guidance on least-rek bomb tocknos where practicable. 8 Accorplane search procedures an guidance on least-rek bomb tocknos where practicable. Note: Approved of the search y training programme by the Director may were applicable search proceeded beserving required mater applicable search proceeded beserving required mater applicable search y required mater applicable search y required mater applicable search proceeded beserving required mater applicable search y required mater applicable search required beserving requirement of the search with the approximation of the search with the applicable search required beserving requirement of the search with the applicable search required beserving requirement of the search with the applicable search required beserving requirement of the search with the applicable search required beserving requirement of the search with the applicable read receives (STD) to competite part the search required beserving requirement on resources that are not used solely for training, the operation mater beserving required mater applicable read regularity requirement on resources that are not used solely for training, the operation and the requirement on resources that are not used solely for training. The operation required mater applicable read regularity of the task. 1 1 1 1				7				7	Flight deck procedures to protect the
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Image: Second			а		The operator shall ensure that the training		а		
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Image: second			b		Each training instructor shall be provided with a copy of the training programme, the competency assessment programme and such parts of the operations manual		b		Each training instructor shall be provided with a copy of the training programme, the competency assessment programme and such parts
a B The operatorshall ensure that the training programme regulated index 155.5500 () index in this and resurrent training, programme regulated index is that and resurrent training, programme regulated index is that and resurrent training, programme regulated in the crave The operator shall ensure the training, programme regulated is the crave Image:		135.975				121.975			
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Image: Second			d		shall provide crew with an aircraft flight manual, or equivalent, containing the normal, abnormal and emergency procedures relating to the operation of the aircraft. The manual shall include details of the aircraft systems and of the checklists to be used. The design of the manual shall observe human factors principles. The aircraft flight manual shall remain available to crew members while they are assigned to operate that aircraft type. The operator may include in the crew		d		operator shall provide crew with an aeroplane flight manual containing the normal, abnormal and emergency procedures relating to the operation of the aeroplane. The manual shall include details of the aeroplane systems and of the checklists to be used. The design of the manual shall observe human factors principles. The aeroplane flight manual shall remain available to crew members while they are assigned to operate that aeroplane type. The operator may include in the crew
a The operator shall ensure that the training programme specifies the minimum standards of qualification and experience required of pilots for each type of flying operation conducted by the operator, including the requirements for entry into conversion or type training. a The operator shall ensure that the training programme specifies the minimum standards of qualification and experience required of pilots for each type of flying operation conducted by the operator, including the requirements for entry into conversion or type training. b The operator shall ensure that when establishing pilot training requirements at least the following factors shall be taken into account: b The operator shall ensure that when establishing pilot training requirements at least the following factors shall be taken into account: 1 the pilot's flying experience; and 1 the pilot's flying experience of other crew members; and 2 the availability and experience of other crew members; and 3 the influence of terrain and obstructions on departure and approach procedures at the aerodromes and alternate aerodromes that may be used; and may be used, in relation to the performance characteristics of the aerolability and characteristics of the aerolability and dimensions of runways that may be used, in relation to the performance characteristics of the aerolability and experience that may be used, in relation to the performance characteristics of the aerolability and experience interval.					crew, the use of an aircraft for manoeuvres and training that are acceptable to the Director.				crew, the use of an aeroplane for manoeuvres and training that are acceptable to the Director.
Image: standards of qualification and experience required of pilots for each type of flying operation conducted by the operator, including the requirements for entry into conversion or type training courses or other role specific training.Image: specific training courses or other role specific training.Image: specific training courses or or type training courses or other role specific training.Image: specific training courses or or type training courses or other role specific training.Image: specific training courses or other role specific training.Image: specific training courses or other role specific training.Image: specific trainingImage: specific trainingImage: specific training courses or other role specific training requirements at least the following factors shall be taken into account:Image: specific training courses or other role specific training.Image: specific trainingImage: specific trainingImage: specific training courses or other role specific training.Image: specific training courses or other role specific training.Image: specific trainingImage: specific trainingImage: specific training.Image: specific training.Image: specific trainingImage: specific trainingImage: s		135.980				121.980			
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Image: series of the series					crew members; and the influence of terrain and obstructions				crew members; and the influence of terrain and obstructions
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5 the type and dimensions of runways that may be used, in relation to the performance characteristics of the aircraft; and 5 the type and dimensions of runways that may be used, in relation to the performance characteristics of the aeroplane; and				4	particular instrument approach			4	particular instrument approach
				5	the type and dimensions of runways that may be used, in relation to the			5	the type and dimensions of runways that may be used, in relation to the
the reliability of meteorological the reliability of meteorological				6	aircraft; and seasonal meteorological conditions and			6	aeroplane; and seasonal meteorological conditions and

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			1		observations, reports and forecasts in the		Γ		observations, reports and forecasts in
					route network; and				the route network; and
				7	the adequacy of any information that may			7	the adequacy of any information that
					be available regarding aerodrome				may be available regarding aerodrome
				0	conditions; and			0	conditions; and
				8	any likely air traffic procedures that may be encountered and in particular, those			8	any likely air traffic procedures that may be encountered and in particular, those
					procedures that may be outside the pilot's				procedures that may be outside the
					previous experience; and				pilot's previous experience; and
				9	influence of terrain and local geographic			9	influence of terrain and local geographic
					features on route conditions and the extent of assistance available from				features on route conditions and the extent of assistance available from
					navigational aids and air-to-ground				navigational aids and air-to-ground
					communication facilities; and				communication facilities; and
				10	the extent to which it is possible for the			10	the extent to which it is possible for the
					pilot to become familiar with unusual				pilot to become familiar with unusual
					aerodrome procedures and features of the route by means of ground instruction				aerodrome procedures and features of the route by means of ground
					and training devices.				instruction and training devices.
			С		Recurrent training shall be provided, at		С		Recurrent training shall be provided, at
					least annually, to ensure that pilots				least annually, to ensure that pilots
				1	maintain knowledge of: operational procedures; and			1	maintain knowledge of: operational procedures; and
			-	2	aircraft systems and procedures.		\vdash	2	aircraft systems and procedures.
		135.985		-	Safety and emergency procedures	121.985	$\left \right $	-	Safety and emergency procedures
					training				training
			а		The operator shall ensure each crew		а		The operator shall ensure each crew
					member completes training in safety and				member completes training in safety
					emergency procedures, as appropriate to the emergency equipment carried on the				and emergency procedures, as appropriate to the emergency
					aircraft or worn by crew members, and				equipment carried on the aircraft or
					the nature of the flying operations being				worn by crew members, and the nature
					carried out.				of the flying operations being carried
	\vdash		b		Initial training in all relevant safety and		b		out. Initial training in all relevant safety and
					emergency procedures shall be completed				emergency procedures shall be
					prior to any flying operations or aircraft				completed prior to any flying operations
					flying training being commenced.				or aircraft flying training being commenced.
			с		Recurrent training in safety and		с		Recurrent training in safety and
					emergency procedures shall be carried				emergency procedures shall be carried
					out on at least an annual basis, and shall				out on at least an annual basis, and shall
					include the following elements (where appropriate to the aircraft type or type of				include the following elements (where appropriate to the aircraft type or type
					operation):				of operation):
				1	Annually:			1	Annually:
				i	actual donning of a lifejacket;			i	actual donning of a lifejacket;
				П	actual donning of protective breathing equipment;			ii	actual donning of protective breathing equipment;
				iii	actual handling of fire extinguishers;			iii	actual handling of fire extinguishers;
				iv	instruction on the location and use of all			iv	instruction on the location and use of all
					emergency and safety; equipment carried				emergency and safety; equipment
					on the aircraft, including first aid and universal precaution kits and automated				carried on the aircraft, including first aid and universal precaution kits and
					external defibrillators;				automated external defibrillators;
				v	operation of all types of exits;			v	operation of all types of exits;
				vi 2	security procedures; Within any three year period:			vi 2	security procedures; Within any three year period:
	\vdash		+	ے i	demonstration of the method used to			ے i	demonstration of the method used to
					operate a slide, where fitted;				operate a slide, where fitted;
			1	ii	actual use of fire-fighting equipment;			ii	actual use of fire-fighting equipment;
				iii	effects of smoke in an enclosed area and			iii	effects of smoke in an enclosed area and
	\square		$\frac{1}{1}$	iv	use of any relevant equipment; actual handling of flares (use of or			iv	use of any relevant equipment; actual handling of flares (use of or
					simulated use of);				simulated use of);
				v	demonstration in use of liferaft, where			v	demonstration in use of liferaft, where
			+	vi	fitted or carried; ditching procedures training, as			vi	fitted or carried; ditching procedures training, as
				VI	appropriate.			VI	appropriate.
		135.990			Crew resource management	121.990			Crew resource management training
			-		requirements		-		requirements
			а		The operator shall ensure each crew member training segment includes:		а		The operator shall ensure each crew member training segment includes:
			\mathbf{T}	1	crew resource management training			1	crew resource management training
					applicable to each position for which				applicable to each position for which
			_	~	training is provided; and			_	training is provided; and
				2	training in the use of each crew member's crew resource management skills; and			2	training in the use of each crew member's crew resource management
					Grew resource management skins; dhu				skills; and
			1	3	crew resource management training for	<u> </u>		3	crew resource management training for
					each crew member in accordance with the				each crew member in accordance with
					training programme required by paragraph 135.950 and an evaluation of				the training programme required by paragraph 121.950 and an evaluation of
• ·			I	l	Paragraph 133.330 and an evaluation of				Paragraph 121.300 and an evaluation of

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a The operator shall ensure that each crew member who is not qualified and currently serving as crew member in an operation authorised by the operator's certificate, completes the introduction segment of its training programme: a a b a c a c a c a c a c a c a c a c b c b c b c c							121.1005			
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I he aeroplane type or variant; and										
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							2	new procedures or equipment
								introduced on the existing aeroplane
			$\left \right $		121.1015			type or variant. Crew member upgrade segment
					121.1015			
						а		The operator shall ensure that each of
								its crew members completes the upgrade segment of its training
								programme in accordance with the
								syllabus required by paragraph 121.950,
								if the crew member is changing from
								one crew position to a more responsible
								crew position on the same aeroplane
			$\left \right $			h		type or variant.
						b		The operator shall ensure its upgrade segment addresses the use of all safety
								and emergency equipment and
								procedures applicable to the crew
								position on the aeroplane for which the
							-	upgrade is sought and shall:
							1	include training on human factors, and
								crew resource management, with particular emphasis on the changes
								brought about by the different crew
								position; and
							2	include training in supervisory skills.
					121.1020			Crew member recurrent segment
						а		The operator shall ensure that each of
				7				its crew members is adequately trained,
								current and proficient for each
								aeroplane, crew member position and
								type of operation, in which the crew member serves.
						b		The operator shall ensure that each
						U		crew member completes the recurrent
								segment of its training programme:
							1	in a structured manner; and
							2	in accordance with the training
								programme required by paragraph
	$\left \right $		$\left - \right $		121 1025			121.950:
					121.1025			Consolidation
								The operator shall ensure, after each crew member completes an
								introduction, transition or upgrade
								segment of its training programme the
								crew member undergoes consolidation
								by acquiring:
						а		the appropriate operating experience:
							1	for a pilot, required by paragraph
	1 1		\square				2	121.1030; and for cabin crew, required by paragraph
							۷	121.1060; and
								the appropriate line-operating flight
						b		the appropriate line-operating hight
						b		time:
						b	1	time: for a pilot, required by paragraph
						b		time: for a pilot, required by paragraph 121.1035; and
						b	1 2	time: for a pilot, required by paragraph 121.1035; and for a flight engineer, required by
					121.1030	b		time: for a pilot, required by paragraph 121.1035; and for a flight engineer, required by paragraph 121.1040.
					121.1030			time: for a pilot, required by paragraph 121.1035; and for a flight engineer, required by paragraph 121.1040. Pilot operating experience
					121.1030	b		time: for a pilot, required by paragraph 121.1035; and for a flight engineer, required by paragraph 121.1040. Pilot operating experience The operator shall ensure that each
					121.1030			time: for a pilot, required by paragraph 121.1035; and for a flight engineer, required by paragraph 121.1040. Pilot operating experience
					121.1030			time: for a pilot, required by paragraph 121.1035; and for a flight engineer, required by paragraph 121.1040. Pilot operating experience The operator shall ensure that each person performing the functions of a pilot holds the licences and ratings required to be held under GAR Part 61
					121.1030			time: for a pilot, required by paragraph 121.1035; and for a flight engineer, required by paragraph 121.1040. Pilot operating experience The operator shall ensure that each person performing the functions of a pilot holds the licences and ratings required to be held under GAR Part 61 and has completed, on the type and
					121.1030			time: for a pilot, required by paragraph 121.1035; and for a flight engineer, required by paragraph 121.1040. Pilot operating experience The operator shall ensure that each person performing the functions of a pilot holds the licences and ratings required to be held under GAR Part 61 and has completed, on the type and variant of the aeroplane and in the crew
					121.1030			time: for a pilot, required by paragraph 121.1035; and for a flight engineer, required by paragraph 121.1040. Pilot operating experience The operator shall ensure that each person performing the functions of a pilot holds the licences and ratings required to be held under GAR Part 61 and has completed, on the type and variant of the aeroplane and in the crew member position that the person will
					121.1030			time: for a pilot, required by paragraph 121.1035; and for a flight engineer, required by paragraph 121.1040. Pilot operating experience The operator shall ensure that each person performing the functions of a pilot holds the licences and ratings required to be held under GAR Part 61 and has completed, on the type and variant of the aeroplane and in the crew member position that the person will serve in, the following minimum
					121.1030			time: for a pilot, required by paragraph 121.1035; and for a flight engineer, required by paragraph 121.1040. Pilot operating experience The operator shall ensure that each person performing the functions of a pilot holds the licences and ratings required to be held under GAR Part 61 and has completed, on the type and variant of the aeroplane and in the crew member position that the person will
					121.1030		2	time: for a pilot, required by paragraph 121.1035; and for a flight engineer, required by paragraph 121.1040. Pilot operating experience The operator shall ensure that each person performing the functions of a pilot holds the licences and ratings required to be held under GAR Part 61 and has completed, on the type and variant of the aeroplane and in the crew member position that the person will serve in, the following minimum operating experience as applicable: for the introduction segment for multi-engine aeroplanes powered by
					121.1030		2	time: for a pilot, required by paragraph 121.1035; and for a flight engineer, required by paragraph 121.1040. Pilot operating experience The operator shall ensure that each person performing the functions of a pilot holds the licences and ratings required to be held under GAR Part 61 and has completed, on the type and variant of the aeroplane and in the crew member position that the person will serve in, the following minimum operating experience as applicable: for the introduction segment for multi-engine aeroplanes powered by turbopropeller engines - 20 hours and
					121.1030		2 1 i	time: for a pilot, required by paragraph 121.1035; and for a flight engineer, required by paragraph 121.1040. Pilot operating experience The operator shall ensure that each person performing the functions of a pilot holds the licences and ratings required to be held under GAR Part 61 and has completed, on the type and variant of the aeroplane and in the crew member position that the person will serve in, the following minimum operating experience as applicable: for the introduction segment for multi-engine aeroplanes powered by turbopropeller engines - 20 hours and 10 take-offs and landings; and
					121.1030		2 1 i	time: for a pilot, required by paragraph 121.1035; and for a flight engineer, required by paragraph 121.1040. Pilot operating experience The operator shall ensure that each person performing the functions of a pilot holds the licences and ratings required to be held under GAR Part 61 and has completed, on the type and variant of the aeroplane and in the crew member position that the person will serve in, the following minimum operating experience as applicable: for the introduction segment for multi-engine aeroplanes powered by turbopropeller engines - 20 hours and 10 take-offs and landings; and for turbojet and turbofan powered
					121.1030		2 1 i	time: for a pilot, required by paragraph 121.1035; and for a flight engineer, required by paragraph 121.1040. Pilot operating experience The operator shall ensure that each person performing the functions of a pilot holds the licences and ratings required to be held under GAR Part 61 and has completed, on the type and variant of the aeroplane and in the crew member position that the person will serve in, the following minimum operating experience as applicable: for the introduction segment for multi-engine aeroplanes powered by turbopropeller engines - 20 hours and 10 take-offs and landings; and for turbojet and turbofan powered aeroplanes - 25 hours and 10 take-offs
					121.1030		2 1 i	time: for a pilot, required by paragraph 121.1035; and for a flight engineer, required by paragraph 121.1040. Pilot operating experience The operator shall ensure that each person performing the functions of a pilot holds the licences and ratings required to be held under GAR Part 61 and has completed, on the type and variant of the aeroplane and in the crew member position that the person will serve in, the following minimum operating experience as applicable: for the introduction segment for multi-engine aeroplanes powered by turbopropeller engines - 20 hours and 10 take-offs and landings; and for turbojet and turbofan powered
					121.1030		2 1 i	time: for a pilot, required by paragraph 121.1035; and for a flight engineer, required by paragraph 121.1040. Pilot operating experience The operator shall ensure that each person performing the functions of a pilot holds the licences and ratings required to be held under GAR Part 61 and has completed, on the type and variant of the aeroplane and in the crew member position that the person will serve in, the following minimum operating experience as applicable: for the introduction segment for multi-engine aeroplanes powered by turbopropeller engines - 20 hours and 10 take-offs and landings; and for turbojet and turbofan powered aeroplanes - 25 hours and 10 take-offs and landings; and for all aeroplanes, including those referred to in paragraphs (a)(1)(i) and (ii)
					121.1030		2 1 i	time: for a pilot, required by paragraph 121.1035; and for a flight engineer, required by paragraph 121.1040. Pilot operating experience The operator shall ensure that each person performing the functions of a pilot holds the licences and ratings required to be held under GAR Part 61 and has completed, on the type and variant of the aeroplane and in the crew member position that the person will serve in, the following minimum operating experience as applicable: for the introduction segment for multi-engine aeroplanes powered by turbopropeller engines - 20 hours and 10 take-offs and landings; and for turbojet and turbofan powered aeroplanes - 25 hours and 10 take-offs and landings; and for all aeroplanes, including those referred to in paragraphs (a)(1)(i) and (ii) - four operating cycles of which at least
					121.1030		2 1 ii iii	time: for a pilot, required by paragraph 121.1035; and for a flight engineer, required by paragraph 121.1040. Pilot operating experience The operator shall ensure that each person performing the functions of a pilot holds the licences and ratings required to be held under GAR Part 61 and has completed, on the type and variant of the aeroplane and in the crew member position that the person will serve in, the following minimum operating experience as applicable: for the introduction segment for multi-engine aeroplanes powered by turbopropeller engines - 20 hours and 10 take-offs and landings; and for turbojet and turbofan powered aeroplanes - 25 hours and 10 take-offs and landings; and for all aeroplanes, including those referred to in paragraphs (a)(1)(i) and (ii) - four operating cycles of which at least two shall be as the pilot flying; and
					121.1030		2 1 i	time: for a pilot, required by paragraph 121.1035; and for a flight engineer, required by paragraph 121.1040. Pilot operating experience The operator shall ensure that each person performing the functions of a pilot holds the licences and ratings required to be held under GAR Part 61 and has completed, on the type and variant of the aeroplane and in the crew member position that the person will serve in, the following minimum operating experience as applicable: for the introduction segment for multi-engine aeroplanes powered by turbopropeller engines - 20 hours and 10 take-offs and landings; and for turbojet and turbofan powered aeroplanes - 25 hours and 10 take-offs and landings; and for all aeroplanes, including those referred to in paragraphs (a)(1)(i) and (ii) - four operating cycles of which at least two shall be as the pilot flying; and for the transition or upgrade segment:
					121.1030		2 1 ii iii	time: for a pilot, required by paragraph 121.1035; and for a flight engineer, required by paragraph 121.1040. Pilot operating experience The operator shall ensure that each person performing the functions of a pilot holds the licences and ratings required to be held under GAR Part 61 and has completed, on the type and variant of the aeroplane and in the crew member position that the person will serve in, the following minimum operating experience as applicable: for the introduction segment for multi-engine aeroplanes powered by turbopropeller engines - 20 hours and 10 take-offs and landings; and for turbojet and turbofan powered aeroplanes - 25 hours and 10 take-offs and landings; and for all aeroplanes, including those referred to in paragraphs (a)(1)(i) and (ii) - four operating cycles of which at least two shall be as the pilot flying; and for the transition or upgrade segment: for multi-engine aeroplanes powered by
					121.1030		2 1 ii iii	time: for a pilot, required by paragraph 121.1035; and for a flight engineer, required by paragraph 121.1040. Pilot operating experience The operator shall ensure that each person performing the functions of a pilot holds the licences and ratings required to be held under GAR Part 61 and has completed, on the type and variant of the aeroplane and in the crew member position that the person will serve in, the following minimum operating experience as applicable: for the introduction segment for multi-engine aeroplanes powered by turbopropeller engines - 20 hours and 10 take-offs and landings; and for turbojet and turbofan powered aeroplanes - 25 hours and 10 take-offs and landings; and for all aeroplanes, including those referred to in paragraphs (a)(1)(i) and (ii) - four operating cycles of which at least two shall be as the pilot flying; and for the transition or upgrade segment:

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		Ι							
								ii	for turbojet and turbofan powered aeroplanes - 10 hours and 8 take-offs and landings, or 20 hours and 10 take- offs and landings for pilot-in-command;
	'								and
								iii	for all aeroplanes, including those
									referred to in paragraphs (a)(2)(i) and (ii)
									- four operating cycles of which at least
									two shall be as the pilot flying.
	_						b		The operating experience required by
									paragraph (a) shall be acquired on the
									appropriate aeroplane type as follows:
	<u> </u>								
								1	After satisfactory completion of the
									appropriate ground and flight training
									for the aeroplane type and crew
									member position in accordance with
									GAR Part 61.
								2	Under the supervision of an instructor
								_	who meets the requirements in
									paragraph 121.970.
	<u> </u>							2	
								3	Under commercial air transport
	_ _ '						_		operating conditions and:
								i	simulated in a flight simulator for the
									aeroplane type; or
								ii	conducted in the aeroplane type.
	- <u> </u>						с		For the purpose of paragraph (b)(3)(ii)
									the instructor shall:
Ⅰ −−−− ↓ −	- '				_		-		
┣─────┝─	_ '						-	1	act as pilot-in-command at all times; and
								2	occupy a pilot station when supervising
									a pilot acquiring the experience
									necessary for a pilot-incommand
									position, until the qualifying pilot has:
							1	i	made at least two take-offs and landings
									in the aeroplane type for which the
									pilot-in-command qualification is
Ⅰ −−−− ↓	_ '			\vdash			_	\mid	required; and
								ii	demonstrated to the instructor the
									ability to perform the duties of a pilot-
									in-command for that aeroplane type;
									and
	+							iii	if the qualifying pilot-in-command is
									completing introduction or upgrade
									training, demonstrated to a flight
									examiner the ability to satisfactorily
									perform the prescribed duties during at
									least one complete operating cycle.
							d		The instructor may occupy the
									observer's seat upon the requirements
									of paragraph (c)(2) being met.
						121.1035			Pilot line-operating flight time
						1211035			r not nine-operating night time
							а		The operator shall ensure that after
									each pilot completes an introduction or
									transition segment of its training
									programme, the pilot completes the
									line-operating flight time required by
									paragraph (b) under the supervision of a
-	- '			\vdash			+.	┝──┦	suitably qualified instructor.
			1				b		The combined total of line-operating
╞──┼							1		flight time and the operating experience
						I			required by paragraph 121.1025 shall be
									as specified in the operations manual.
							c		
							C		as specified in the operations manual. The pilot shall operate exclusively on the
							с		as specified in the operations manual. The pilot shall operate exclusively on the appropriate aeroplane type while
							С		as specified in the operations manual. The pilot shall operate exclusively on the appropriate aeroplane type while completing line-operating flight time
							c		as specified in the operations manual. The pilot shall operate exclusively on the appropriate aeroplane type while completing line-operating flight time experience unless refresher training that
							C		as specified in the operations manual. The pilot shall operate exclusively on the appropriate aeroplane type while completing line-operating flight time experience unless refresher training that is acceptable to the Director is provided
							c		as specified in the operations manual. The pilot shall operate exclusively on the appropriate aeroplane type while completing line-operating flight time experience unless refresher training that is acceptable to the Director is provided and satisfactorily passed.
						121.1040	c		as specified in the operations manual. The pilot shall operate exclusively on the appropriate aeroplane type while completing line-operating flight time experience unless refresher training that is acceptable to the Director is provided
						121.1040			as specified in the operations manual. The pilot shall operate exclusively on the appropriate aeroplane type while completing line-operating flight time experience unless refresher training that is acceptable to the Director is provided and satisfactorily passed. Flight engineer operating requirements
						121.1040	c		as specified in the operations manual. The pilot shall operate exclusively on the appropriate aeroplane type while completing line-operating flight time experience unless refresher training that is acceptable to the Director is provided and satisfactorily passed. Flight engineer operating requirements The operator shall ensure that each
						121.1040			as specified in the operations manual. The pilot shall operate exclusively on the appropriate aeroplane type while completing line-operating flight time experience unless refresher training that is acceptable to the Director is provided and satisfactorily passed. Flight engineer operating requirements The operator shall ensure that each person performing the functions of a
						121.1040			as specified in the operations manual. The pilot shall operate exclusively on the appropriate aeroplane type while completing line-operating flight time experience unless refresher training that is acceptable to the Director is provided and satisfactorily passed. Flight engineer operating requirements The operator shall ensure that each person performing the functions of a flight engineer, flight engineer instructor
						121.1040			as specified in the operations manual. The pilot shall operate exclusively on the appropriate aeroplane type while completing line-operating flight time experience unless refresher training that is acceptable to the Director is provided and satisfactorily passed. Flight engineer operating requirements The operator shall ensure that each person performing the functions of a flight engineer, flight engineer instructor or flight engineer examiner holds
						121.1040			as specified in the operations manual. The pilot shall operate exclusively on the appropriate aeroplane type while completing line-operating flight time experience unless refresher training that is acceptable to the Director is provided and satisfactorily passed. Flight engineer operating requirements The operator shall ensure that each person performing the functions of a flight engineer, flight engineer instructor or flight engineer examiner holds licences and ratings in accordance with
						121.1040			as specified in the operations manual. The pilot shall operate exclusively on the appropriate aeroplane type while completing line-operating flight time experience unless refresher training that is acceptable to the Director is provided and satisfactorily passed. Flight engineer operating requirements The operator shall ensure that each person performing the functions of a flight engineer, flight engineer instructor or flight engineer examiner holds
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10 awareness of dangerous goods in accordance with 135.1000; and 10 awareness of dangerous goods accordance with 135.1000; and 11 knowledge of human performance as related to passenger cabin stepty duties, including fight crew/cabin crew co- ordination; and 11 knowledge of human performance including fight crew/cabin crew co- ordination; and 12 GARs and supporting documentation; and 12 GARs and supporting documentation; and 12 GARs and supporting documentation; and 13 the operator's documentation procedures. 13 the operator's documentation and 13 the operator's documentation procedures. 121.060 Cabin crew operating experi operator shall ensure that ea performing the functions of 2 11 under the operator's documentation and procedures. 13 the operator's documentation and 14 Following completion of the training required under 121: operator shall ensure that ea performing the functions of 2 11 under the operator shall ensure that ea performing the functions of 2 1 on the type and variant of the according system training reguired under 121: operator shall ensure that ea performing the training reguired under 121: operator shall ensure that ea performing the training segure training programme. 12 13 the operator shall ensure that ea performing the training segure training programme. 1 on the type and paragraph 2.5 hours of the required line that experimence required training device 13 13 the operator shall be required training de										equipment available on the aircraft, in
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Image: Solution of the supervision of an appropriate operation of an appropriation of a appropriation of appropriation of appropriation of a appropriation of approprise appropriating appropriation of approprise										2.5 hours of the required line-operating
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Image: second										paragraph (a) shall be acquired under
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135.1065 Manoeuvres requiring a synthetic training device 121.1065 Manoeuvres requiring a synthetic training device Image: Second synthetic is a synthetic training device Image: Second synthetic is a synthetis a synthetic is a										qualified trainer of cabin crew in
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a The operator shall be required to carry out emergency and non-normal manoeuvres during flight crew training or competency checking. Where such a The operator shall be required out emergency and non-normal manoeuvres during flight crew training or competency checking. Where such a The operator shall be required out emergency and non-normal manoeuvres during flight crew or competency checking. Where such			135.1065				121.1065			
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manoeuvres during flight crew training or competency checking. Where suchmanoeuvres during flight cre or competency checking. Where such										out emergency and non-normal
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to the surface; or to the surface; or					1				1	

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			2	involve the need to simulate failure of an			2	involve the need to simulate failure of
				aircraft system; or				an aircraft system; or
			3	involve actions that cannot be realistically			3	involve actions that cannot be
				carried out in the aircraft; or				realistically carried out in the
								aeroplanepor
			4	if mishandled, create an unacceptable risk			4	if mishandled, create an unacceptable
				to the aircraft, crew members or third				risk to the aeroplane, crew members or
				parties; the operator shall specify, in detail, how				third parties; the operator shall specify, in detail, how
				such training or competency checking will				such training or competency checking
				be carried out.				will be carried out.
		b		Where a synthetic training device		b		Where a synthetic training device
		~		representative of the aircraft type is		~		representative of the aeroplane type is
				available, such training shall be carried out				available, such training shall be carried
				in that training device.				out in that training device.
		С		Where a synthetic training device is not		С		Where a synthetic training device is not
				available, procedures shall be developed				available, procedures shall be developed
				to simulate such manoeuvres in the				to simulate such manoeuvres in the
				aircraft to the defined limit past which the				aeroplane to the defined limit past
				safety of the aircraft, crew members or				which the safety of the aeroplane, crew
				third parties may be compromised.				members or third parties may be
				Continuation of the training in such manoeuvres past that defined limit shall				compromised. Continuation of the
				be accomplished by ground briefing.				training in such manoeuvres past that defined limit shall be accomplished by
				be accomplished by ground briefing.				
	135.1070				121.1070			ground briefing.
	135.1070	a		Training records	121.1070	a		ground briefing. Training records
	135.1070	а		Training records The operato r s hall maintain accurate	121.1070	a		ground briefing. Training records The operator shall maintain accurate
	135.1070	а		Training records The operato r s hall maintain accurate records of all required training undertaken	121.1070	a		ground briefing. Training records The operator shall maintain accurate records of all required training
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	135.1070	a		Training records The operator s hall maintain accurate records of all required training undertaken by its operating staff, including all crew members. The training programme shall include	121.1070	a		ground briefing. Training records The operator shall maintain accurate records of all required training undertaken by its operating staff, including all crew members. The training programme shall include
	135.1070			Training recordsThe operator s hall maintain accurate records of all required training undertaken by its operating staff, including all crew members.The training programme shall include specimen forms for recording any training	121.1070			ground briefing. Training records The operator shall maintain accurate records of all required training undertaken by its operating staff, including all crew members. The training programme shall include specimen forms for recording any
	135.1070			Training records The operator s hall maintain accurate records of all required training undertaken by its operating staff, including all crew members. The training programme shall include specimen forms for recording any training undertaken.	121.1070			ground briefing. Training records The operator shall maintain accurate records of all required training undertaken by its operating staff, including all crew members. The training programme shall include specimen forms for recording any training undertaken.
	135.1070			Training recordsThe operator s hall maintain accurate records of all required training undertaken by its operating staff, including all crew members.The training programme shall include specimen forms for recording any training	121.1070			ground briefing. Training records The operator shall maintain accurate records of all required training undertaken by its operating staff, including all crew members. The training programme shall include specimen forms for recording any
	135.1070	b	1	Training records The operator s hall maintain accurate records of all required training undertaken by its operating staff, including all crew members. The training programme shall include specimen forms for recording any training undertaken.	121.1070	b	1	ground briefing. Training records The operator shall maintain accurate records of all required training undertaken by its operating staff, including all crew members. The training programme shall include specimen forms for recording any training undertaken.
	135.1070	b		Training records The operator s hall maintain accurate records of all required training undertaken by its operating staff, including all crew members. The training programme shall include specimen forms for recording any training undertaken. The records shall include: the date that the training was carried out; and	121.1070	b		ground briefing. Training records The operator shall maintain accurate records of all required training undertaken by its operating staff, including all crew members. The training programme shall include specimen forms for recording any training undertaken. The records shall include: the date that the training was carried out; and
	135.1070	b	1	Training recordsThe operator s hall maintain accurate records of all required training undertaken by its operating staff, including all crew members.The training programme shall include specimen forms for recording any training undertaken.The records shall include:the date that the training was carried out;	121.1070	b	1	ground briefing. Training records The operator shall maintain accurate records of all required training undertaken by its operating staff, including all crew members. The training programme shall include specimen forms for recording any training undertaken. The records shall include: the date that the training was carried
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	135.1070	b	2	Training recordsThe operator s hall maintain accurate records of all required training undertaken by its operating staff, including all crew members.The training programme shall include specimen forms for recording any training undertaken.The records shall include:the date that the training was carried out; and details of the training conducted; and	121.1070	b	2	ground briefing. Training records The operator shall maintain accurate records of all required training undertaken by its operating staff, including all crew members. The training programme shall include specimen forms for recording any training undertaken. The records shall include: the date that the training was carried out; and details of the training conducted; and
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	135.1070	b	2 3	Training recordsThe operator s hall maintain accurate records of all required training undertaken by its operating staff, including all crew members.The training programme shall include specimen forms for recording any training undertaken.The records shall include:the date that the training was carried out; and details of the training conducted; andthe name and qualifications of the instructor responsible for carrying out the training; and the date and particulars of any decision to suspend or stop training a crew member.Training records shall be maintained for each crew member as long as they continue to be employed or engaged by		b c	2	ground briefing. Training records The operator shall maintain accurate records of all required training undertaken by its operating staff, including all crew members. The training programme shall include specimen forms for recording any training undertaken. The records shall include: the date that the training was carried out; and details of the training conducted; and the name and qualifications of the instructor responsible for carrying out the training; and the date and particulars of any decision to suspend or stop training a crew member. Training records shall be maintained for each crew member as long as they continue to be employed or engaged by
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Part 91	Requirement	Part 135			Requirement	Part 121			Requirement
		Subpar	t J	- Cre	w Member Competency Requiremen	ts			
		135.1100			Competency assessment programme	121.1100			Competency assessment programme
			а		The operator shall establish and control a		а		The operator shall establish and control a
					competency assessment programme in		-		competency assessment programme in
					accordance with this_Subpart.				accordance with this Subpart.
			b		Details of the competency assessment		b		Details of the competency assessment
					programme shall be contained in the				programme shall be contained in the
					operations manual and shall be approved				operations manual and shall be approved
					by the Director.		┢		by the Director.
			С		The operator shall ensure that each crew member that is subject to a competency		С		The operator shall ensure that each crew member that is subject to a competency
					assessment is assessed in accordance with				assessment is assessed in accordance with
					the programme.				the programme.
			d		The competency assessment programme		d		The competency assessment programme
					shall take account of at least the following				shall take account of at least the following
					areas, as applicable to the responsibilities				areas, as applicable to the responsibilities
				1	of the crew member:		┣─	1	of the crew member:
				1	the provisions of the appropriate GARs and the operations specifications and			1	the provisions of the appropriate GARs and the operations specifications and
					operations manual; and				operations manual; and
				2	technical details of each aeroplane type		<u> </u>	2	technical details of each aeroplane type
					and variant operated, including aeroplane				and variant operated, including aeroplane
					systems, performance and operating				systems, performance and operating
					procedures, such as may apply; and		⊢		procedures, such as may apply; and
				3	special flight operations as appropriate;			3	special flight operations as appropriate;
┠───┼┼─					and		┣—	А	and
				4	new equipment, procedures, and techniques.			4	new equipment, procedures, and techniques.
		135.1105			Flight crew competency checks	121.1105			Flight crew competency checks
			а		The operator shall ensure that the		а		The operator shall ensure that the
					competency assessment programme				competency assessment programme
					provides for at least the following assessments of flight crew competency:				provides for at least the following assessments of flight crew competency:
				1	Operator proficiency check (OPC);			1	Operator proficiency check (OPC);
				2	Operator line check (OLC);			2	Operator line check (OLC);
				3	Safety and emergency equipment check;			3	Safety and emergency equipment check;
				4	Route and aerodrome competence; and			4	Route and aerodrome competence; and
				5	Such additional right hand seat/left hand			5	Such additional right hand seat/left hand
					seat checking as may be required.		L_		seat checking as may be required.
			b		Where it is intended to revalidate or renew the aircraft type or class rating at		b		Where it is intended to revalidate or renew the aircraft type or class rating at
					the same time as an operator proficiency				the same time as an operator proficiency
					check, additional elements of the check				check, additional elements of the check
					must be specified within the competency				must be specified within the competency
					assessment programme.				assessment programme.
		135.1110			Competency checks for pilots operating				
					in the single pilot role under instrument				
			-		flight rules (IFR) or at night		<u> </u>		
					The competency checks required under 135.1115, 135.1120, 135.1125 and				
					135.1130 shall be completed in the single				
					pilot role.				
		135.1115			Operator proficiency check (OPC)	121.1115			Operator proficiency check (OPC)
			а		The OPC shall be valid for a period of six		а		The OPC shall be valid for a period of six
					calendar months in addition to the				calendar months in addition to the
					remainder of the month of issue; if the				remainder of the month of issue; if the
			1		OPC is conducted within the final 3 calendar months of the previous OPC with				OPC is conducted within the final 3 calendar months of the previous OPC with
					the same operator, the OPC shall be valid				the same operator, the OPC shall be valid
			1		from the date of issue until 6 calendar				from the date of issue until 6 calendar
					months from the expiry of the previous				months from the expiry of the previous
┠────┤┤─			<u> </u> .		OPC.		Ļ.		OPC.
			b		The OPC shall ensure that each flight crew		b		The OPC shall ensure that each flight crew
					member demonstrates competence in carrying out normal, abnormal and				member demonstrates competence in carrying out normal, abnormal and
					emergency manoeuvres.				emergency manoeuvres.
			с		The OPC for each flight crew member shall		с		The OPC for each flight crew member shall
			1		be conducted as part of a normal flight				be conducted as part of a normal flight
					crew complement.		L		crew complement.
			d		Where flight crew members are required		d		Where flight crew members are required
					to operate in accordance with the				to operate in accordance with the
			1		instrument flight rules, the OPC shall be conducted without external visual				instrument flight rules, the OPC shall be conducted without external visual
					reference.				reference.
			 		The OPC for pilots of aeroplanes shall		e		The OPC shall include the following
			e				C		
			e		include the following elements unless		e		elements unless such manoeuvres are not
			e				C		

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			1	Rejected take off (provided that where an approved flight simulator is not available, this shall be conducted by touch drills1Rejected take off (provided that where an approved flight simulator is not available,
			2	only); and only); and Take off with engine failure between V1 2 and V2, or as soon as can be safely made; and V2, or as soon as can be safely made; and and
			3	Precision instrument approach to approved minima with, for multi engine aeroplanes, one engine inoperative; and 3 Precision instrument approach to approved minima with, for multi engine aeroplanes, one engine inoperative; and
			4	Non-precision approach to approved minima; and 4 Non-precision approach to approved minima; and
			5	Missed approach from minima, flown by reference to instruments only and with (for multi engine aeroplanes) one engine inoperative; and5Missed approach from minima, flown by reference to instruments only and with (for multi engine aeroplanes) one engine inoperative; andLanding with one engine inoperative (for multi engine aeroplanes);and6Landing with one engine inoperative (for multi engine aeroplanes).
			7	For single engine aeroplanes a practice forced landing.
			8	In addition to the elements prescribed in subparagraphs (e)(1) to (7) above, every other check shall include the mandatory items of the proficiency checks contained in GAR Part 61.
		1	-	Where an approved flight simulator is not available and an OPC must be completed on the aircraft type, engine failures must be simulated and the conditions for simulating engine failure specified in the training and competency assessment programmes.fWhere an approved flight simulator is not available and an OPC must be completed on the aircraft type, engine failures must be simulated and the conditions for simulating engine failure specified in the training and competency assessment programmes.fWhere an approved flight simulator is not available and an OPC must be completed on the aircraft type, engine failures must be simulated and the conditions for
		٤	g	Where there is no requirement for pilots to operate under the Instrument Flight
				Rules, an aeroplane OPC may be conducted without the elements listed at (e)(3) to (e)(5) above, but a visual approach and go-around must still be conducted and for a multiengined aeroplane that element shall be flown
				with one engine inoperative.
			ו	The OPC for pilots of helicopters who are required to conduct IFR operations shall include the following elements (unless such manoeuvres are not required by virtue of the helicopter type):
			1	precision approach to approved minima with simulated failure of one engine (for multi-engine helicopters); and
			2	Go-around from minima, flown by Image: Construments and in the case of multi-engined helicopters with the Image: Construments and simulated failure of one engine; and Image: Construments and
			4	minima; and Landing with a simulated failure of one or more engines; and Image: Comparison of the simulated failure of one or
			5	Where appropriate, approach with flight control system/flight director system malfunctions, and other flight instrument and navigation equipment failures.
		i		The OPC for helicopter pilots shall include the following checks of abnormal and emergency procedures over a three year period, except where inappropriate by virtue of the helicopter type: Image: Comparison of the helicopter type: Comparison of the h
			1	Engine fire;
			2	Fuselage fire;
			4	Fuel dumping; Engine failure and restart;
			6 7	Hydraulic failure; Electrical failure;
			8	Engine failure during take off, before decision point;
			9	Engine failure after take off, before decision point;
			10	decision point;
			11	L Engine failure during landing, after decision point;
	P		12	

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				13	Recovery from unusual attitudes;		1	[
				14	Landing with one or more engines				
					inoperative;				
├ ───┤			_	15 16	IMC auto-rotative techniques; Autorotation to a designated area;				
				10	Pilot incapacitation; and				
				18	Directional control malfunctions.				
			j		A helicopter pilot who requires to operate				
					at night under visual meteorological				
					conditions, but who does not hold a				
					current instrument rating, shall be required to hold a current OPC that has				
					been conducted at night.				
		135.1120			Operator line check	121.1120			Operator line check
			а		The operator line check (OLC) shall be		а		The operator line check (OLC) shall be
					valid for a period of twelve calendar				valid for a period of twelve calendar
					months in addition to the remainder of the month of issue; if the OLC is				months in addition to the remainder of the month of issue; if the OLC is
					conducted within the final 3 calendar				conducted within the final 3 calendar
					months of the previous OLC with the same				months of the previous OLC with the same
					operator, the OLC shall be valid from the				operator, the OLC shall be valid from the
					date of issue until 12 calendar months from the expiry of the previous OLC.				date of issue until 12 calendar months from the expiry of the previous OLC.
			b		The OLC shall ensure that each flight crew		b		The OLC shall ensure that each flight crew
					member demonstrates competence in				member demonstrates competence in
					carrying out normal line operations as				carrying out normal line operations as
					specified in the operations manual.				specified in the operations manual.
			С		The OLC for each flight crew member shall		С		The OLC for each flight crew member shall
					be conducted on the aircraft, as part of a normal flight crew complement. The line				be conducted on the aircraft, as part of a normal flight crew complement. The line
					check shall include preflight and post				check shall include preflight and post
					flight procedures and use of any				flight procedures and use of any
-		135 445-			equipment provided on the aircraft.	124.445-		<u> </u>	equipment provided on the aircraft.
		135.1125			Safety and emergency equipment checks	121.1125			Safety and emergency equipment checks
			а	_	The safety and emergency equipment and		а		The safety and emergency equipment and
					procedures check (SEPC) shall be valid for				procedures check (SEPC) shall be valid for a period of twelve calendar months in
					a period of twelve calendar months in addition to the remainder of the month of				addition to the remainder of the month of
					issue; if the SEPC is conducted within the				issue; if the SEPC is conducted within the
					final 3 calendar months of the previous				final 3 calendar months of the previous
					SEPC with the same operator, the SEPC				SEPC with the same operator, the SEPC
					shall be valid from the date of issue until 12 calendar months from the expiry of the				shall be valid from the date of issue until 12 calendar months from the expiry of the
					previous SEPC.				previous SEPC.
			b		The SEPC may be conducted at the same		b		The SEPC may be conducted at the same
					time as safety and emergency procedures				time as safety and emergency procedures
			_		(SEP) training. The SEPC shall cover those elements				(SEP) training. The SEPC shall cover those elements
			С		provided by SEP training, including those		С		provided by SEP training, including those
					elements specified at 135.985.				elements specified at 121.985.
		135.1130			Route and aerodrome competence	121.1130			Route and aerodrome competence
			а		Route and aerodrome competence (RAEC)		а		Route and aerodrome competence (RAEC)
					shall remain valid for a period of twelve				shall remain valid for a period of twelve
					calendar months in addition to the remainder of the month of issue or the				calendar months in addition to the remainder of the month of issue or the
					month of the latest operation on the				month of the latest operation on the
					route or to the aerodrome/heliport. If				route or to the aerodrome/heliport. If
				1	RAEC is revalidated within the final 3				RAEC is revalidated within the final 3
				1	calendar months of the previous RAEC				calendar months of the previous RAEC
					assessment, with the same operator, then RAEC shall be valid from the date of issue				assessment, with the same operator, then RAEC shall be valid from the date of issue
				1	until 12 calendar months from the expiry				until 12 calendar months from the expiry
					of the previous RAEC.				of the previous RAEC.
			b		RAEC shall ensure that a pilot has		b		RAEC shall ensure that a pilot has
				1	sufficient knowledge of the routes and				sufficient knowledge of the routes and
					aerodromes/heliports (including alternates) that may be required to be				aerodromes (including alternates) that may be required to be used, including
					used, including those facilities and				those facilities and procedures that may
					procedures that mayapply.				apply.
T			С	_	RAEC for a pilot-in-command shall include		С		RAEC for a pilot-in-command shall include
					at least one flight over one route segment				at least one flight over one route segment
					and one or more landings at aerodromes/heliports representative of				and one or more landings at aerodromes representative of the operations to be
				1	· · · · ·			1	•
					the operations to be flown. Each pilot-in-				flown. Each pilot-in-command shall have
					command shall have made an actual				made an actual approach into each
					command shall have made an actual approach into each aerodrome/heliport of				made an actual approach into each aerodrome of landing on the route,
					command shall have made an actual approach into each aerodrome/heliport of landing on the route, accompanied by a				made an actual approach into each aerodrome of landing on the route, accompanied by a pilot who is qualified
					command shall have made an actual approach into each aerodrome/heliport of landing on the route, accompanied by a pilot who is qualified for the aerodrome or				made an actual approach into each aerodrome of landing on the route, accompanied by a pilot who is qualified for the aerodrome, as a member of the
					command shall have made an actual approach into each aerodrome/heliport of landing on the route, accompanied by a				made an actual approach into each aerodrome of landing on the route, accompanied by a pilot who is qualified
				1	command shall have made an actual approach into each aerodrome/heliport of landing on the route, accompanied by a pilot who is qualified for the aerodrome or heliport, as a member of the flight crew or as an observer on the flight deck, unless: the approach to the aerodrome is not			1	made an actual approach into each aerodrome of landing on the route, accompanied by a pilot who is qualified for the aerodrome, as a member of the flight crew or as an observer on the flight deck, unless: the approach to the aerodrome is not
				1	command shall have made an actual approach into each aerodrome/heliport of landing on the route, accompanied by a pilot who is qualified for the aerodrome or heliport, as a member of the flight crew or as an observer on the flight deck, unless: the approach to the aerodrome is not over difficult terrain and the instrument			1	made an actual approach into each aerodrome of landing on the route, accompanied by a pilot who is qualified for the aerodrome, as a member of the flight crew or as an observer on the flight deck, unless: the approach to the aerodrome is not over difficult terrain and the instrument
				1	command shall have made an actual approach into each aerodrome/heliport of landing on the route, accompanied by a pilot who is qualified for the aerodrome or heliport, as a member of the flight crew or as an observer on the flight deck, unless: the approach to the aerodrome is not			1	made an actual approach into each aerodrome of landing on the route, accompanied by a pilot who is qualified for the aerodrome, as a member of the flight crew or as an observer on the flight deck, unless: the approach to the aerodrome is not

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			T						fourther and a month and the the
					familiar, and a margin approved by the Director is added to the normal operating				familiar, and a margin approved by the Director is added to the normal operating
					minima, or there is reasonable certainty				minima, or there is reasonable certainty
				1	that approach and landing can be made in				that approach and landing can be made in
					visual meteorological conditions; or				visual meteorological conditions; or
				2	the descent from the initial approach			2	the descent from the initial approach
					altitude can be made by day in visual				altitude can be made by day in visual
					meteorological conditions; or			-	meteorological conditions; or
				3	the operator qualifies the pilot-in- command to land at the			3	the operator qualifies the pilot-in- command to land at the aerodrome
					aerodrome/heliport concerned by means				concerned by means of an adequate
					of an adequate pictorial presentation.				pictorial presentation.
			d		RAEC shall include knowledge of the		d		RAEC shall include knowledge of the
					following elements:				following elements:
				1	terrain and minimum safe altitudes; and			1	terrain and minimum safe altitudes; and
				2	seasonal meteorological conditions that			2	seasonal meteorological conditions that
					may apply; and				may apply; and
				3	meteorological, communication and air			3	meteorological, communication and air
					traffic facilities, services and procedures; and				traffic facilities, services and procedures; and
				4	search and rescue procedures; and			4	search and rescue procedures; and
				5	navigational facilities and procedures,			5	navigational facilities and procedures,
				0	including any long-range navigation			0	including any long-range navigation
					procedures, associated with the route				procedures, associated with the route
					along which the flight is to take place; and				along which the flight is to take place; and
				6	procedures applicable to flight paths over			6	procedures applicable to flight paths over
					heavily populated areas and areas of high				heavily populated areas and areas of high
	+			_	air traffic density; and			_	air traffic density; and
				7	aerodrome/heliport obstructions, physical			7	aerodrome obstructions, physical layout
┣───┼	+			8	layout and lighting_and approach aids associated with arrival,			8	and lighting; and approach aids associated with arrival,
				0	departure, holding and approach			0	departure, holding and approach
					procedures and applicable operating				procedures and applicable operating
					minima.				minima.
			e		Revalidation of route and aerodrome		е		Revalidation of route and aerodrome
				1	competence shall be carried out by				competence shall be carried out by
				1	operating on the route or to the				operating on the route or to the
				1	aerodrome within the period of validity				aerodrome within the period of validity
				1	described in (a). The operator shall not				described in (a). The operator shall not
					continue to utilise a pilot as a pilot-in- command on a route unless, within the				continue to utilise a pilot as a pilot-in- command on a route unless, within the
					preceding 12 months, the pilot has made				preceding 12 months, the pilot has made
					at least one trip between the terminal				at least one trip between the terminal
					points of that route as a pilot member of				points of that route as a pilot member of
					the flight crew, or as a check pilot, or as an				the flight crew, or as a check pilot, or as an
					observer on the flight deck. In the event				observer on the flight deck. In the event
					that more than I2 months elapse in which				that more than I2 months elapse in which
					a pilot has not made such a trip on a route				a pilot has not made such a trip on a route
					in close proximity and over similar terrain, prior to again serving as a pilot-in-				in close proximity and over similar terrain, prior to again serving as a pilot-in-
					command on that route, that pilot shall				command on that route, that pilot shall
					re-qualify by means of an assessment				re-qualify by means of an assessment
				1	provided by a flight examiner.				provided by a flight examiner.
		135.1135			Right hand seat / left hand seat checks	121.1135			Right hand seat / left hand seat checks
			а		The competency assessment programme		а		The competency assessment programme
					shall specify those pilots that may be				shall specify those pilots that may be
				1	required to operate in an alternate pilot				required to operate in an alternate pilot
				1	seating position and will require left hand/right hand seat competency checks.				seating position and will require left hand/right hand seat competency checks.
			b		Competency checks for alternate pilot		b		Competency checks for alternate pilot
					seating positions (left hand or right hand				seating positions (left hand or right hand
				1	seat checks) shall include at least the				seat checks) shall include at least the
					following elements:				following elements:
┣───┼	+		\vdash	1	An engine failure during take off; and			1	An engine failure during take off; and
	+		\vdash	1 2					
				2	An approach and go-around flown with			2	An approach and go-around flown with
•			+	2	one engine inoperative; and			2	one engine inoperative; and
┠───┼─		1	-	3	A landing with one engine inoperative. When engine-out manoeuvres are carried			3	A landing with one engine inoperative.
							1	1	When engine-out manoeuvres are carried
									Out in an aircraft the engine tailure must
					out in an aircraft, the engine failure must be simulated.				out in an aircraft, the engine failure must be simulated.
			c		out in an aircraft, the engine failure must		с		
			C		out in an aircraft, the engine failure must be simulated.		с		be simulated.
			C		out in an aircraft, the engine failure must be simulated. In addition to the elements specified in (b), each pilot shall also demonstrate knowledge of any procedures that would		с		be simulated. In addition to the elements specified in (b), each pilot shall also demonstrate knowledge of any procedures that would
			С		out in an aircraft, the engine failure must be simulated. In addition to the elements specified in (b), each pilot shall also demonstrate knowledge of any procedures that would normally be assigned only to the left		С		be simulated. In addition to the elements specified in (b), each pilot shall also demonstrate knowledge of any procedures that would normally be assigned only to the left
					out in an aircraft, the engine failure must be simulated. In addition to the elements specified in (b), each pilot shall also demonstrate knowledge of any procedures that would normally be assigned only to the left hand/right hand seat holder.				be simulated. In addition to the elements specified in (b), each pilot shall also demonstrate knowledge of any procedures that would normally be assigned only to the left hand/right hand seat holder.
			c d		out in an aircraft, the engine failure must be simulated. In addition to the elements specified in (b), each pilot shall also demonstrate knowledge of any procedures that would normally be assigned only to the left hand/right hand seat holder. When operating in an alternate pilot		c d		be simulated. In addition to the elements specified in (b), each pilot shall also demonstrate knowledge of any procedures that would normally be assigned only to the left hand/right hand seat holder. When operating in an alternate pilot
					out in an aircraft, the engine failure must be simulated. In addition to the elements specified in (b), each pilot shall also demonstrate knowledge of any procedures that would normally be assigned only to the left hand/right hand seat holder. When operating in an alternate pilot seating position those checks required for				be simulated. In addition to the elements specified in (b), each pilot shall also demonstrate knowledge of any procedures that would normally be assigned only to the left hand/right hand seat holder. When operating in an alternate pilot seating position those checks required for
					out in an aircraft, the engine failure must be simulated. In addition to the elements specified in (b), each pilot shall also demonstrate knowledge of any procedures that would normally be assigned only to the left hand/right hand seat holder. When operating in an alternate pilot seating position those checks required for piloting in the normal seating position				be simulated. In addition to the elements specified in (b), each pilot shall also demonstrate knowledge of any procedures that would normally be assigned only to the left hand/right hand seat holder. When operating in an alternate pilot seating position those checks required for piloting in the normal seating position
		135.1140			out in an aircraft, the engine failure must be simulated. In addition to the elements specified in (b), each pilot shall also demonstrate knowledge of any procedures that would normally be assigned only to the left hand/right hand seat holder. When operating in an alternate pilot seating position those checks required for piloting in the normal seating position must be current.	121.1140			be simulated. In addition to the elements specified in (b), each pilot shall also demonstrate knowledge of any procedures that would normally be assigned only to the left hand/right hand seat holder. When operating in an alternate pilot seating position those checks required for
		135.1140			out in an aircraft, the engine failure must be simulated. In addition to the elements specified in (b), each pilot shall also demonstrate knowledge of any procedures that would normally be assigned only to the left hand/right hand seat holder. When operating in an alternate pilot seating position those checks required for piloting in the normal seating position	121.1140			be simulated. In addition to the elements specified in (b), each pilot shall also demonstrate knowledge of any procedures that would normally be assigned only to the left hand/right hand seat holder. When operating in an alternate pilot seating position those checks required for piloting in the normal seating position must be current.
		135.1140			out in an aircraft, the engine failure must be simulated. In addition to the elements specified in (b), each pilot shall also demonstrate knowledge of any procedures that would normally be assigned only to the left hand/right hand seat holder. When operating in an alternate pilot seating position those checks required for piloting in the normal seating position must be current. Competency checks for pilots operating more than one type or variant Pilots operating more than one type or	121.1140			be simulated. In addition to the elements specified in (b), each pilot shall also demonstrate knowledge of any procedures that would normally be assigned only to the left hand/right hand seat holder. When operating in an alternate pilot seating position those checks required for piloting in the normal seating position must be current. Competency checks for pilots operating more than one type or variant Pilots operating more than one type or
		135.1140	d		out in an aircraft, the engine failure must be simulated. In addition to the elements specified in (b), each pilot shall also demonstrate knowledge of any procedures that would normally be assigned only to the left hand/right hand seat holder. When operating in an alternate pilot seating position those checks required for piloting in the normal seating position must be current. Competency checks for pilots operating more than one type or variant	121.1140	d		be simulated. In addition to the elements specified in (b), each pilot shall also demonstrate knowledge of any procedures that would normally be assigned only to the left hand/right hand seat holder. When operating in an alternate pilot seating position those checks required for piloting in the normal seating position must be current. Competency checks for pilots operating more than one type or variant

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	1	- T		-		1			
					the requirements prescribed for each type				the requirements prescribed for each type
1					or variant, unless credits related to the				or variant, unless credits related to the
					training, checking, and recent experience		 		training, checking, and recent experience
					requirements are approved				requirements are approved
			b		Any reduction in checking because of		b		Any reduction in checking because of
					similarities between variants or types				similarities between variants or types
					must be approved by the Director.		 		must be approved by the Director.
			с		SEP checks must cover all SEP		с		SEP checks must cover all SEP
					requirements for each type and variant				requirements for each type and variant
					operated.				operated.
		135.1145	┢		Flight examiner qualifications	121.1145	 		Flight examiner qualifications
			а		The operator shall ensure that, except as		а		The operator shall ensure that, except as
					provided in paragraph (d), each person				provided in paragraph (d), each person
					performing the functions of a flight				performing the functions of a flight
					examiner in its competency assessment				examiner in its competency assessment
					programme established under this Part:		 		programme established under this Part:
				1	is type rated or class rated, as			1	is type rated or class rated, as
					appropriate, in the aircraft used to				appropriate, in the aircraft used to
					conduct the operation; and				conduct the operation; and
				2	is familiar with the types of operations			2	is familiar with the types of operations
					conducted by the operator; and				conducted by the operator; and
	T			3	is currently qualified to the level of testing			3	is currently qualified to the level of testing
					being undertaken; and		 		being undertaken; and
+				4	completes initial and recurrent training		 	4	completes initial and recurrent training
					requirements applicable to the testing		 		requirements applicable to the testing
					carried out.		 		carried out.
 			b		Flight examiners conducting operator		b		Flight examiners conducting operator
					proficiency checks (OPC) shall be qualified				proficiency checks (OPC) shall be qualified
					as a Type Rating Examiner (TRE) or as a		 		as a Type Rating Examiner (TRE) or as a
					Class Rating Examiner (CRE),		 		Class Rating Examiner (CRE),
					as_appropriate.		 		as appropriate.
 	_		-						
			С		Flight examiners conducting operator line		С		Flight examiners conducting operator line
_			\vdash		checks (OLC) shall be:			1	checks (OLC) shall be:
				1	nominated by the: operator in accordance		 	1	nominated by the operator in accordance
					with the approved competency				with the approved competency
			\vdash	<u> </u>	assessment programme; and			-	assessment programme; and
				2	provided with suitable training, as		 	2	provided with suitable training, as
					specified within the approved training				specified within the approved training
			\vdash	1	programme; and				programme; and
				3	acceptable to the Director.		 	3	acceptable to the Director.
	Τ		d		Where the competency assessment		d		Where the competency assessment
					referred to in paragraph (a) above is				referred to in paragraph (a) above is
					carried out in a flight simulator, the				carried out in a flight simulator, the
					person who is performing the functions of				person who is performing the functions of
					a flight examiner shall:				a flight examiner shall:
				1	have satisfactorily completed a			1	have satisfactorily completed a
					competency check as pilot-in-command in				competency check as pilot-in-command in
					a type of operation to which this GAR Part				a type of operation to which this GAR Part
					applies; and				applies; and
				2	have an appropriate flight examiner rating			2	have an appropriate flight examiner rating
					(TRE or CRE); and				(TRE or CRE); and
			+	3	complete initial and recurrent training		 	3	complete initial and recurrent training
			1				. '		requirements applicable to the testing
					requirements annlicable to the testing		1	5	requirements applicable to the testing
					requirements applicable to the testing carried out			5	carried out
		125 1150			carried out.	121 1150		5	carried out.
		135.1150	-		carried out. Flight instructor and flight examiner	121.1150	 	,	Flight instructor and flight examiner
		135.1150	-		carried out. Flight instructor and flight examiner competency checks	121.1150		5	Flight instructor and flight examiner competency checks
		135.1150	-		carried out. Flight instructor and flight examiner competency checks The operator shall ensure that each	121.1150		· · · · ·	Flight instructor and flight examiner competency checks The operator shall ensure that each
		135.1150	-		carried out. Flight instructor and flight examiner competency checks The operator shall ensure that each supervisory flight instructor or flight	121.1150		,	Flight instructor and flight examiner competency checks The operator shall ensure that each supervisory flight instructor or flight
		135.1150			carried out. Flight instructor and flight examiner competency checks The operator shall ensure that each supervisory flight instructor or flight examiner receives instruction and	121.1150		,	Flight instructor and flight examiner competency checks The operator shall ensure that each supervisory flight instructor or flight examiner receives instruction and
		135.1150			carried out. Flight instructor and flight examiner competency checks The operator shall ensure that each supervisory flight instructor or flight examiner receives instruction and maintains proficiency as appropriate in:	121.1150		· · · · · · · · · · · · · · · · · · ·	Flight instructor and flight examiner competency checks The operator shall ensure that each supervisory flight instructor or flight examiner receives instruction and maintains proficiency as appropriate in:
		135.1150	a		carried out. Flight instructor and flight examiner competency checks The operator shall ensure that each supervisory flight instructor or flight examiner receives instruction and maintains proficiency as appropriate in: the methods of imparting instruction on	121.1150	а		Flight instructor and flight examiner competency checks The operator shall ensure that each supervisory flight instructor or flight examiner receives instruction and maintains proficiency as appropriate in: the methods of imparting instruction on
		135.1150			carried out. Flight instructor and flight examiner competency checks The operator shall ensure that each supervisory flight instructor or flight examiner receives instruction and maintains proficiency as appropriate in: the methods of imparting instruction on how to operate, and how to ensure the	121.1150	а		Flight instructor and flight examiner competency checks The operator shall ensure that each supervisory flight instructor or flight examiner receives instruction and maintains proficiency as appropriate in: the methods of imparting instruction on how to operate, and how to ensure the
		135.1150	a		carried out. Flight instructor and flight examiner competency checks The operator shall ensure that each supervisory flight instructor or flight examiner receives instruction and maintains proficiency as appropriate in: the methods of imparting instruction on how to operate, and how to ensure the safe operation of, a particular make and	121.1150	a		Flight instructor and flight examiner competency checks The operator shall ensure that each supervisory flight instructor or flight examiner receives instruction and maintains proficiency as appropriate in: the methods of imparting instruction on how to operate, and how to ensure the safe operation of, a particular make and
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Issue 2

Guernsey Aviatio Requirements

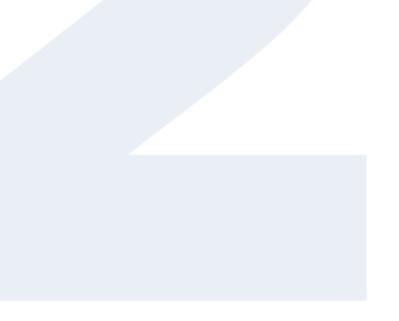
		T						fallen de anne an en de antender de terreter
				following areas as may be relevant to their duties:				following areas as may be relevant to thei duties:
 		-	<u> </u>			-		
		a b		authority of the pilot-in-command; and passenger handling, including procedures		a b		authority of the pilot-in-command; and passenger handling, including procedures
				to be followed in handling persons whose		U		to be followed in handling persons whose
				conduct might jeopardise safety; and		1		conduct might jeopardise safety; and
		С		crew member assignments, functions, and		с		crew member assignments, functions, and
				responsibilities during emergencies,				responsibilities during emergencies,
				including evacuation of persons who may				including evacuation of persons who may
		+ .		need assistance; and				need assistance; and
		d		seating of persons who may need assistance; and		d		seating of persons who may need assistance; and
		e		briefing of passengers; and		e		briefing of passengers; and
		r		use of cabin equipment and controls; and		r		use of cabin equipment and controls; and
		g		location of emergency and life saving		g		location of emergency and life saving
		0		equipment, including lifejackets, life rafts		0		equipment, including lifejackets, life rafts
				and fire extinguishers; and				and fire extinguishers; and
		h		location and operation of oxygen		h		location and operation of oxygen
				equipment; and				equipment; and
		i		knowledge of the effects of lack of oxygen		i		knowledge of the effects of lack of oxygen
				and the physiological phenomena associated with a loss of pressurisation;				and the physiological phenomena associated with a loss of pressurisation;
				and				and
		i		location and operation of all normal and		i		location and operation of all normal and
				emergency exits, including exits located		1		emergency exits, including exits located
				on the flight deck		1		on the flight deck
		k		use of all safety and emergency		k		use of all safety and emergency
		-		equipment carried; and		<u> </u>		equipment carried; and
		1		first aid equipment and practice; and		1		first aid equipment and practice; and
		m	۱	awareness of dangerous goods; and		m		awareness of dangerous goods; and
		n		for senior cabin crew and their deputies,		n		for senior cabin crew and their deputies,
				ability to supervise other cabin crew carrying out their duties.				ability to supervise other cabin crew carrying out their duties.
	135.1160	\vdash	1	Cabin crew examiners	121.1160	+		Cabin crew examiners
				The operator shall ensure that each				The operator shall ensure that each
				person performing the functions of a				person performing the functions of a
				cabin crew examiner in its competency				cabin crew examiner in its competency
				assessment programme established under				assessment programme established under
				this Part:				this Part:
		а		has operational experience on the aircraft		а		has operational experience on the aircraft
		b		used to conduct the operation; and is familiar with the types of operations		b		used to conduct the operation; and is familiar with the types of operations
				conducted by the operator; and		0		conducted by the operator; and
		С		has operated to the level of testing being		с		has operated to the level of testing being
				undertaken; and				undertaken; and
		d		is acceptable to the Director.		d		is acceptable to the Director.
	135.1165	d		is acceptable to the Director. Competency checks of other crew	121.1165	d		is acceptable to the Director. Competency checks of other crew
	135.1165			is acceptable to the Director. Competency checks of other crew members	121.1165			is acceptable to the Director. Competency checks of other crew members
	135.1165	d a		is acceptable to the Director. Competency checks of other crew members The operator shall establish the	121.1165	d a		is acceptable to the Director. Competency checks of other crew members The operator shall establish the
	135.1165			is acceptable to the Director. Competency checks of other crew members The operator shall establish the proficiency level required by other crew	121.1165			is acceptable to the Director. Competency checks of other crew members The operator shall establish the proficiency level required by other crew
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	135.1165			is acceptable to the Director. Competency checks of other crew members The operator shall establish the proficiency level required by other crew members and ensure that the competency assessment programme includes checks appropriate to ensuring the continued	121.1165			is acceptable to the Director. Competency checks of other crew members The operator shall establish the proficiency level required by other crew members and ensure that the competence assessment programme includes checks appropriate to ensuring the continued
	135.1165	a		is acceptable to the Director. Competency checks of other crew members The operator shall establish the proficiency level required by other crew members and ensure that the competency assessment programme includes checks appropriate to ensuring the continued competency of the crew member.	121.1165	a		is acceptable to the Director. Competency checks of other crew members The operator shall establish the proficiency level required by other crew members and ensure that the competence assessment programme includes checks appropriate to ensuring the continued competency of the crew member.
	135.1165			is acceptable to the Director. Competency checks of other crew members The operator shall establish the proficiency level required by other crew members and ensure that the competency assessment programme includes checks appropriate to ensuring the continued competency of the crew member. Competency assessment checks	121.1165			is acceptable to the Director. Competency checks of other crew members The operator shall establish the proficiency level required by other crew members and ensure that the competence assessment programme includes checks appropriate to ensuring the continued competency of the crew member. Competency assessment checks
	135.1165	a		is acceptable to the Director. Competency checks of other crew members The operator shall establish the proficiency level required by other crew members and ensure that the competency assessment programme includes checks appropriate to ensuring the continued competency of the crew member. Competency assessment checks conducted for other crew members shall	121.1165	a		is acceptable to the Director. Competency checks of other crew members The operator shall establish the proficiency level required by other crew members and ensure that the competence assessment programme includes checks appropriate to ensuring the continued competency of the crew member. Competency assessment checks conducted for other crew members shall
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Issue 2

Guernsey Aviatio Requirements

	135.1170			Competency and testing records	121.1170			Competency and testing records
		а		The operator shall maintain accurate records of all competency assessments and testing of its crew members.		а		The operator shall maintain accurate records of all competency assessments and testing of its crew members.
		b		The records shall include at least the following:		b		The records shall include at least the following:
			1	the date that the competency test or assessment was carried out; and			1	the date that the competency test or assessment was carried out; and
			2	details of the test or assessment, including the result; and			2	details of the test or assessment, including the result; and
			3	the name and qualifications of the examiner responsible for carrying out the test or assessment; and			3	the name and qualifications of the examiner responsible for carrying out the test or assessment; and
			4	the date and particulars of any decision to require the crew member to undertake further training, to retake a test or assessment or to cease acting as a crew member until such training, testing or assessment has been completed; and			4	the date and particulars of any decision to require the crew member to undertake further training, to retake a test or assessment or to cease acting as a crew member until such training, testing or assessment has been completed; and
			5	the date that the crew member last operated in the role for which the test or assessment is necessary; and			5	the date that the crew member last operated in the role for which the test or assessment is necessary; and
			6	a statement that the operator is satisfied that the crew member is competent to perform their duties.			6	a statement that the operator is satisfied that the crew member is competent to perform their duties.







Issue 2

Guernsey Aviatio Requirements

Part 91	Requirement	Part 135			Requirement	Part 121			Requirement
				Sub	part K - Fatigue Management				
		135.1200			Fatigue management scheme	121.1200			Fatigue management scheme
			а		The operator shall establish and implement a fatigue management scheme to ensure that all personnel involved in		а		The operator shall establish and implement a fatigue management scheme to ensure that all personnel involved in
			b		the operation of aircraft do not carry out their duties when fatigued. The fatigue management scheme shall		b		the operation of aircraft do not carry out their duties when fatigued. The fatigue management scheme shall
					establish flight time, flight duty period, duty period and rest period limitations for aircraft crew members.				establish flight time, flight duty period, duty period and rest period limitations for aircraft crew members.
			С		Details of the fatigue management scheme shall be recorded in the operations manual.		С		Details of the fatigue management scheme shall be recorded in the operations manual.
					Note 1: acceptable prescriptive regulations to manage fatigue, which are based upon scientific pinciples, knowledge and operational experience with the aim of ensuring that flight and cabin crew are performing at an adequate level of				Note 1: acceptable prescriptive regulations to manage fatigue, which are based upon scientific pinciples, knowledge and operational experience with the aim of ensuring that flight and cabin crew are performing at an adequate level of
					alertness, have been developed by such jurisdictions as EASA, FAA, UK CAA and Transport Canada. Schemes based on these regulation are acceptable for use. Note 2: As an alternative to a prescriptive				alertness, have been developed by such jurisdictions as EASA, FAA, UK CAA and Transport Canada. Schemes based on these regulation are acceptable for use. Note 2: As an alternative to a prescriptive
					fatigue management scheme, an operator may establish a fatigue resource management system (FRMS), which then shall be integrated with the operator's SMS. GAR 135.1212 and Attachment F				fatigue management scheme, an operator may establish a fatigue resource management system (FRMS), which then shall be integrated with the operator's SMS. GAR 121.1212 and Attachment F
					contain requirements for an FRMS. Note 3: Guidance on the development and implementation of fatigue management regulations is contained in ICAO Doc 9966 – Manual for the oversight of Fatigue				contain requirements for an FRMS. Note 3: Guidance on the development and implementation of fatigue management regulations is contained in ICAO Doc 9966 – Manual for the oversight of Fatigue
		135.1205			Management Approaches. Fatigue management scheme — Variations	121.1205			Management Approaches. Fatigue management scheme — Variations
			а		Variations to the scheme shall be subject to the approval of the Director, on the basis of a risk assessment provided by the operator.		а		Variations to the scheme shall be subject to the approval of the Director, on the basis of a risk assessment provided by the operator.
		135.1210	b		Approved variations shall include measures to provide an equivalent level of safety.	121.1210	b		Approved variations shall include measures to provide an equivalent level of safety.
		135.1210	а		Fatigue — Operator responsibilitiesThe operator shall not cause or permit any	121.1210	а		Fatigue — Operator responsibilities The operator shall not cause or permit ar
					person to fly in an aircraft as a crew member if the operator knows or has reason to believe that the person is suffering from, or, having regard to the circumstances of the flight to be undertaken, is likely to suffer from, such fatigue while they are so flying as may endanger the safety of the aircraft or its occupants.				person to fly in an aircraft as a crew member if the operator knows or has reason to believe that the person is suffering from, or, having regard to the circumstances of the flight to be undertaken, is likely to suffer from, such fatigue while they are so flying as may endanger the safety of the aircraft or its occupants.
			b		The operator shall not cause or permit an aircraft to be operated on commercial air transport operations unless:		b		The operator shall not cause or permit ar aircraft to be operated on commercial air transport operations unless:
				1 2	a scheme approved by the Director has been established for the regulation of flight and duty times for every person flying in that aircraft as a flight crew member or cabin crew member; and the scheme addresses the following factors where appropriate to the operator's type of operation:			1 2	a scheme approved by the Director has been established for the regulation of flight and duty times for every person flying in that aircraft as a flight crew member or cabin crew member; and the scheme addresses the following factors where appropriate to the operator's type of operation:
				i	rest periods prior to flight;			i	rest periods prior to flight;
				ii iii	acclimatisation; time zones;				acclimatisation; time zones;
				iv	night operations;			iv	night operations;
			\square	v vi	maximum number of sectors; single pilot operations;			v	maximum number of sectors;
				vii viii	two pilot operations; two pilots plus additional flight crew members;			vi	two pilots plus additional flight crew members;
				1		1	1		Laterala askin avalu anavatiana.
								viii	single cabin crew operations; multiple cabin crew operations;

Issue 2

Guernsey Aviatio Requirements

				T	v	mixed duties;		T	xi	mixed duties;
					x xi	dead-head transportation;			xii	dead-head transportation;
					xii	reserve or standby periods;			xiii	reserve or standby periods;
					xiii	duty periods;			xiv	duty periods;
					xiv	flight duty period;			XV	flight duty period;
					xv	in-flight relief;			xvi	in-flight relief;
					xvi	type of operation;			xvii	type of operation;
					xvii	cumulative duty time;			xviii	cumulative duty time;
					xviii	cumulative flight time;			xix	cumulative flight time;
					xix	discretionary increases in flight time			ХХ	discretionary increases in flight time
						periods or flight duty periods or both;				periods or flight duty periods or both;
					ХХ	circadian rhythm;			xxi	circadian rhythm;
					xxi	days off; and			xxii	days off; and
					xxii	record-keeping.			xxiii	record-keeping.
				с		Where the scheme in (b) allows		С		Where the scheme in (b) allows
						discretionary increases of the specified				discretionary increases of the specified
						flight and duty time limitations and/or				flight and duty time limitations and/or
						reductions of rest periods, the operator shall establish the conditions under which				reductions of rest periods, the operator shall establish the conditions under which
						such exceedances may take place and the				such exceedances may take place and the
						procedures used to report these				procedures used to report these
						instances.				instances.
	\uparrow			d		The operator shall:		d		The operator shall:
	+			-	1	keep an accurate record of the flight		Ť	1	keep an accurate record of the flight
						times, flight duty periods, duty periods				times, flight duty periods, duty periods
						and rest periods of each crew member;				and rest period times of each crew
						and				member; and
					2	retain the record for the period specified in 91.1265.			2	retain the record for the period specified in 91.1265.
			135.1212			Fatigue Risk Managament System (FRMS)	121.1212			Fatigue Risk Managament System (FRMS)
				а		Where an operator implements an FRMS to manage fatigue-related safety risk, the		а		Where an operator implements an FRMS to manage fatigue-related safety risk, the
					1	operator shall, as a minimum: incorporate scientific principles and			1	operator shall, as a minimum: incorporate scientific principles and
					2	knowledge within the FRMS; identify fatigue-related safety hazards and the resulting risks on an on-going basis;			2	knowledge within the FRMS; identify fatigue-related safety hazards and the resulting risks on an on-going basis;
					3	ensure that remedial actions, necessary to			3	ensure that remedial actions, necessary to
						effectively mitigate the risks associated				effectively mitigate the risks associated
						with the hazards, are implemented				with the hazards, are implemented
						promptly;				promptly;
					4	provide for continuous monitoring and			4	provide for continuous monitoring and
						regular assessment of the mitigation of fatigue risks achieved by such actions; and				regular assessment of the mitigation of fatigue risks achieved by such actions; and
					5	provide for continuous improvement to the overall performance of the FRMS.			5	provide for continuous improvement to the overall performance of the FRMS.
						Note: detailed requirements for an FRMS				Note: detailed requirements for an FRMS
	+					are in Appendix F.				are in Appendix F.
91.1215		Fatigue — Crew member responsibilities	135.1215			Fatigue — Crew member responsibilities	121.1215			Fatigue — Crew member responsibilities
		A person shall not act as a flight		а		A person shall not act as a member of the		а		A person shall not act as a member of the
		crew member of an aircraft				crew of an aircraft if he knows or suspects				crew of an aircraft if he knows or suspects
		registered in Guernsey if at the				that he is suffering from, or, having regard to the circumstances of the flight to be				that he is suffering from, or, having regard to the circumstances of the flight to be
		beginning of the flight the aggregate of all his previous flight				undertaken, is likely to suffer from, such				undertaken, is likely to suffer from, such
		times:				fatigue as may endanger the safety of the				fatigue as may endanger the safety of the
						aircraft or of its occupants.				aircraft or of its occupants.
	а	during the period of 28 consecutive		b		A person shall not act as a member of the		b		A person shall not act as a member of the
		days expiring at the end of the day				flight crew of an aircraft unless he has				flight crew of an aircraft unless he has
		on which the flight begins exceeds				ensured that the operator of the aircraft is				ensured that the operator of the aircraft is
	1 1	100 hours; or				aware of all his flight times during the				aware of all his flight times during the
			1		<u> </u>	period of 28 days preceding the flight.		-		period of 28 days preceding the flight.
	L	during the period of tweet					1			
	b	during the period of twelve months expiring at the end of the previous								
	b	expiring at the end of the previous month exceeds 900 hours.								
	b	expiring at the end of the previous month exceeds 900 hours. Note: For private and non-								
	b	expiring at the end of the previous month exceeds 900 hours. Note: For private and non- commercial air transport flights								
	b	 expiring at the end of the previous month exceeds 900 hours. Note: For private and non- commercial air transport flights some exceptions to this 								
	b	expiring at the end of the previous month exceeds 900 hours. Note: For private and non- commercial air transport flights								

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Part 91			Requirement	Part 135			Requirement	Part 121			Requirement
				S	ubr	bart	L - Manuals Logs and Records				
,				135.1250			Operations manual	121.1250			Operations manual
							The operator shall:				The operator shall:
					а		ensure that the operations manual is		а		ensure that the operations manual is
							designed to observe human factor				designed to observe human factor
							principles and provides all material specified in GAR Part 119.71 and listed				principles and provides all material specified in GAR Part 119.71 and listed
							at Appendix 1 to 135.1250.				at Appendix 1 to 121.1250.
							Note: The operations manual may				Note: The operations manual may
							consist of one or more volumes.				consist of one or more volumes.
					b		ensure that the operations manual shall		b		ensure that the operations manual
							be organised into parts, with the following structure:				shall be organised into parts, with the following structure:
						1	Part A General/Basic;			1	Part A General/Basic;
						2	Part B Aircraft Operating Matters - type			2	Part B Aircraft Operating Matters -
							related;				type related;
						3	Part C Routes and Aerodrome			3	Part C Routes and Aerodrome
	-					4	Instructions and Information; and			1	Instructions and Information; and
	-				с	4	Part D Training. be responsible for establishing		с	4	Part D Training. be responsible for establishing
					C		procedures to ensure that the		C		procedures to ensure that the
							operations manual contains current				operations manual contains current
							information; and				information; and
					d		incorporate into the operations manual		d		incorporate into the operations
							standard operating procedures and such other mandatory material as is required				manual standard operating procedures and such other mandatory
							by the Director to be incorporated;				material as is required by the Director
											to be incorporated;
					е		ensure that the operations manual is		е		ensure that the operations manual is
							kept up to date in a timely manner; and				kept up to date in a timely manner;
	-				r		provide a copy of the operations manual		r		and provide a copy of the operations
					1		and any amendments to the Director for	-			manual and any amendments to the
							review and acceptance.				Director for review and acceptance.
91.1255			Journey log book or equivalent								
	_		record								
	а		The owner or lessee of an aircraft shall keep accurate journey log book								
			or equivalent records that contain								
			for each flight or series of flights:								
		1	aircraft nationality and registration;								
		2	date;		_						
		3	names of crew members; duty assignments of crew members;								
		5	place of departure;								
		6	place of arrival;								
		7	time of departure;								
		8	time of arrival;								
	-	9	hours of flight;		_						
		10	nature of flight (private, aerial work, scheduled or non-scheduled								
			commercial air transport);								
		11	incidents and observations (if any);								
			and								
		12	signature of person in charge.		-	<u> </u>					
	b		An aircraft journey log, or parts thereof, may not be required if the								
			relevant information is available in								
			other documentation.								
	С		All entries shall be made								
	1		concurrently and be permanent in								
			nature.				Operational flight plan	121.1260			Operational flight plan
				135 1260		1			1		
				135.1260	а		Subject to paragraph (b), the operator		а		Subject to paragraph (b), the operator
				135.1260	а		Subject to paragraph (b), the operator shall ensure that the operational flight		а		shall ensure that the operational flight
				135.1260	а		shall ensure that the operational flight plan used, and the entries made during		а		shall ensure that the operational flight plan used, and the entries made
				135.1260	а		shall ensure that the operational flight		а		shall ensure that the operational flight plan used, and the entries made during flight, contain the following
				135.1260	a	1	shall ensure that the operational flight plan used, and the entries made during flight, contain the following items:		а	1	shall ensure that the operational flight plan used, and the entries made during flight, contain the following items:
				135.1260	a	1 2	shall ensure that the operational flight plan used, and the entries made during		a	1 2	shall ensure that the operational flight plan used, and the entries made during flight, contain the following
				135.1260	a		shall ensure that the operational flight plan used, and the entries made during flight, contain the following items: Aircraft registration;		a	1 2 3	shall ensure that the operational flight plan used, and the entries made during flight, contain the following items: Aircraft registration;
				135.1260	a	2	shall ensure that the operational flight plan used, and the entries made during flight, contain the following items: Aircraft registration; Aircraft type and variant;		a		shall ensure that the operational flight plan used, and the entries made during flight, contain the following items: Aircraft registration; Aircraft type and variant;
				135.1260	a	2 3	shall ensure that the operational flight plan used, and the entries made during flight, contain the following items: Aircraft registration; Aircraft type and variant; Date of flight;		a	3	shall ensure that the operational flight plan used, and the entries made during flight, contain the following items: Aircraft registration; Aircraft type and variant; Date of flight;
				135.1260	a	2 3 4	shall ensure that the operational flight plan used, and the entries made during flight, contain the following items: Aircraft registration; Aircraft type and variant; Date of flight; Flight identification; Names of flight crew members; Duty assignment of flight crew		a 	3 4	shall ensure that the operational flight plan used, and the entries made during flight, contain the following items: Aircraft registration; Aircraft type and variant; Date of flight; Flight identification; Names of flight crew members; Duty assignment of flight crew
				135.1260	a	2 3 4 5 6	shall ensure that the operational flight plan used, and the entries made during flight, contain the following items: Aircraft registration; Aircraft type and variant; Date of flight; Flight identification; Names of flight crew members; Duty assignment of flight crew members;		a	3 4 5	shall ensure that the operational flight plan used, and the entries made during flight, contain the following items: Aircraft registration; Aircraft type and variant; Date of flight; Flight identification; Names of flight crew members; Duty assignment of flight crew members;
					a	2 3 4 5 6 7	shall ensure that the operational flight plan used, and the entries made during flight, contain the following items: Aircraft registration; Aircraft type and variant; Date of flight; Flight identification; Names of flight crew members; Duty assignment of flight crew members; Place of departure;		a	3 4 5 6 7	shall ensure that the operational flight plan used, and the entries made during flight, contain the following items: Aircraft registration; Aircraft type and variant; Date of flight; Flight identification; Names of flight crew members; Duty assignment of flight crew members; Place of departure;
					a	2 3 4 5 6	shall ensure that the operational flight plan used, and the entries made during flight, contain the following items: Aircraft registration; Aircraft type and variant; Date of flight; Flight identification; Names of flight crew members; Duty assignment of flight crew members;		a	3 4 5	during flight, contain the following items: Aircraft registration; Aircraft type and variant; Date of flight; Flight identification; Names of flight crew members; Duty assignment of flight crew members;

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				11	Type of operation (EDTO, VFR, etc.);		11	Type of operation (EDTO, VFR, etc.);
				12	Route and route segments with checkpoints/waypoints, distances, time		12	Route and route segments with checkpoints/waypoints, distances,
				13	and tracks; Planned cruising speed and flying times between check-points/way-points.		13	time and tracks; Planned cruising speed and flying times between check-points/way-
					Estimated and actual times overhead;			points. Estimated and actual times overhead;
				14	Safe altitudes and minimum levels;		14	Safe altitudes and minimum levels;
				15	Planned altitudes and flight levels;		15	Planned altitudes and flight levels;
				16	Fuel calculations (records of inflight fuel checks);		16	Fuel calculations (records of inflight fuel checks);
				17	Fuel on board when starting engines;		17	Fuel on board when starting engines;
				18	Alternate(s) for destination and, where applicable, take-off and en-route, including information required in subparagraphs (12), (13), (14), and (15) above;		18	Alternate(s) for destination and, where applicable, take-off and en- route, including information required in subparagraphs (12), (13), (14), and (15) above;
				19	Initial ATS Flight Plan clearance and subsequent reclearance;		19	Initial ATS Flight Plan clearance and subsequent reclearance;
				20	In-flight re-planning calculations; and		20	In-flight re-planning calculations; and
				21	Relevant meteorological information.		21	Relevant meteorological information.
			b		Items which are readily available in other documentation or from an acceptable source or are irrelevant to the type of operation may be omitted from the operational flight plan.		b	Items which are readily available in other documentation or from an acceptable source or are irrelevant to the type of operation may be omitted from the operational flight plan.
			С		The operator must ensure that the operational flight plan and its use is described in the operations manual.		с	The operator must ensure that the operational flight plan and its use is described in the operations manual.
			d		The operator shall ensure that all entries		d	The operator shall ensure that all
					on the operational flight plan are made concurrently and that they are			entries on the operational flight plan are made concurrently and that they
04.4965					permanent in nature.			are permanent in nature.
91.1265	Document retention period When required for an aircraft		_					
	for the preparation and execution of a flight; reports; flight crew records; cabin crew records; records for other operational personnel; and, other specifed records, shall be stored for the periods prescribed in Appendix 1 to 91.1265.							
91.1275	Aircraft flight manual							
	The owner or lessee (where applicable) of an aircraft shall ensure that the aircraft flight manual is updated and amended to implement any change mandated by the State of Registry							
		135.1280			Cosmic radiation records	121.1280		Cosmic radiation records
			а		Where the operator assesses individual exposure to cosmic radiation, the records shall include:		а	Where the operator assesses individual exposure to cosmic radiation, the records shall include:
				1	the names of the crew member; and		1	the names of the crew member; and
					the detail of each assessment of exposure to cosmic radiation (mSv per year); and		2	the detail of each assessment of exposure to cosmic radiation (mSv per year); and
				3	exposure to cosmic radiation (mSv per year); and the date of the assessment.		3	exposure to cosmic radiation (mSv per year); and the date of the assessment.
			b		exposure to cosmic radiation (mSv per year); and the date of the assessment. Where the operator does not assess individual exposure to cosmic radiation but instead assesses the exposure of groups of crew members, the records			 exposure to cosmic radiation (mSv per year); and the date of the assessment. Where the operator does not assess individual exposure to cosmic radiation but instead assesses the exposure of groups of crew members,
			b		exposure to cosmic radiation (mSv per year); and the date of the assessment. Where the operator does not assess individual exposure to cosmic radiation but instead assesses the exposure of groups of crew members, the records shall include: the names of all crew members covered		3	 exposure to cosmic radiation (mSv per year); and the date of the assessment. Where the operator does not assess individual exposure to cosmic radiation but instead assesses the exposure of groups of crew members, the records shall include: the names of all crew members
			b	3	exposure to cosmic radiation (mSv per year); and the date of the assessment. Where the operator does not assess individual exposure to cosmic radiation but instead assesses the exposure of groups of crew members, the records shall include: the names of all crew members covered by the assessment; and the maximum dose of cosmic radiation (mSv per year) to which those crew		3 b	 exposure to cosmic radiation (mSv per year); and the date of the assessment. Where the operator does not assess individual exposure to cosmic radiation but instead assesses the exposure of groups of crew members, the records shall include: the names of all crew members covered by the assessment; and the maximum dose of cosmic radiation (mSv per year) to which
			b	3	exposure to cosmic radiation (mSv per year); and the date of the assessment. Where the operator does not assess individual exposure to cosmic radiation but instead assesses the exposure of groups of crew members, the records shall include: the names of all crew members covered by the assessment; and the maximum dose of cosmic radiation		3 b 1	 exposure to cosmic radiation (mSv per year); and the date of the assessment. Where the operator does not assess individual exposure to cosmic radiation but instead assesses the exposure of groups of crew members, the records shall include: the names of all crew members covered by the assessment; and the maximum dose of cosmic radiation (mSv per year) to which those crew members are likely to be exposed; and how the dose has been calculated;
			b	3	exposure to cosmic radiation (mSv per year); and the date of the assessment. Where the operator does not assess individual exposure to cosmic radiation but instead assesses the exposure of groups of crew members, the records shall include: the names of all crew members covered by the assessment; and the maximum dose of cosmic radiation (mSv per year) to which those crew members are likely to be exposed; and		3 b 1 2	 exposure to cosmic radiation (mSv per year); and the date of the assessment. Where the operator does not assess individual exposure to cosmic radiation but instead assesses the exposure of groups of crew members, the records shall include: the names of all crew members covered by the assessment; and the maximum dose of cosmic radiation (mSv per year) to which those crew members are likely to be exposed; and

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Appendix 1 to 121.1250 / 135.1250

a Peckins of the genorphy responsible for the issuance and insertion of anerothemis and revisions. b b Account of amendments and revisions with insertion datases under elective datas. c Activation of the system for the amontanion of pages and their effective dates. e A list of effective pages. f Antiol of fifting pages. f Amontation of danges (on text page and, as for a practicable, on charts and diagram). f Amontation of danges (on text page and, as for a practicable, on charts and diagram). f Amontation of danges (on text page and, as for a practicable, on charts and diagram). 1 Adscription of the distribution system for the manuals, amendments and revisions. 1.1 Organisational structure. A description of the organisational structure in diversions barrent and the vitro begarines to system. In particular, the system for the manuals, amendments and the vitro begarines to the included, including the generations. How particular, the system for the antional system for the antional system for the antional system. The organisational structure. A description of the distribution system for the includin and responsibilities of use to system. The organisation and text particular, the system for particular, the system for particular, the system for the antional system for the antional system for particular, the system for particular, the system for particular, the system for particular system for particular system for particular system for parononant. 1.1			
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a A decoplation of the system for the manufactor gapses and use for a particular, the interfactor and the interinteristor and the intering the interfactor and the int		b	A record of amendments and revisions with insertion dates and effective dates.
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f The designation of the pilot-in-command; the procedures for the relief of the pilot-in-command or other members of the flight crew; and g The designation of the senior cabin crew member. 4.2 Designation of the senior cabin crew member. 4.2 Designation of the senior cabin crew member. 4.2 Designation of the pilot-in-command. The rules applicable to the designation of the pilot-incommand. 4.4 Operation on more: than one type. A statement indicating which aircraft are considered as one type for the purpose of: a Flight crew scheduling; and b Cabin crew scheduling; and b Cabin crew scheduling; and c QUALIFICATION REQUIREMENTS 5.1 A description of the required licence, rating(s), qualification/competency (e.g. for routes and aerodromes), experience, training, checking and recency for operations personnel to conduct their duties. Consideration must be given to the aircraft type, kind of operation and composition of the crew. 5.2 I Flight crew: 5.4 Pilot-in-command. b Pilot releving the Pilot-in-command c Co-pilot d Pilot releving the Pilot-in-command c So-pilot d Pilot releving the Pilot-in-command. c <td></td> <td>-</td> <td></td>		-	
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Guernsey Aircraft Registry

Issue 2

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5.4		Training, checking and supervisory personnel:
	a	For flight crew
	b	For cabin crew
5.5		Other operations personnel
6		CREW HEALTH PRECAUTIONS
6.1		Crew health precautions. The relevant regulations and guidance to crew members concerning health including psychoactive substances including but not limited to:
	а	Alcohol and other intoxicating liquor
	b	Narcotics
	С	Drugs
ľ	d	Sleeping tablets
1	е	Pharmaceutical preparations
	r	Immunisation
	g	Diving, involving underwater pressure breathing devices
1	h	Blood/bone marrow donation
1	i	Meal precautions prior to and during flight
	i	Sleep and rest
	k	Surgical operations
	N I	
		Incapacity due to injury or illness
	m	Pregnancy
7		FLIGHT TIME LIMITATIONS
7.1		Flight and Duty Time Limitations and Rest Requirements. The scheme developed by the operator in accordance with applicable requirements.
7.2		Exceedances of flight and duty time limitations and/or reductions of rest periods. Conditions under which flight and duty time may be exceeded or rest periods may be
		reduced and the procedures used to report these instances.
7.3	├ -	Management of fatigue in other operational staff.
8		OPERATING PROCEDURES
8.1		Flight Preparation Instructions. As applicable to the operation:
8.1.1		Minimum Flight Altitudes. A description of the method of determination and application of minimum altitudes including
	а	A procedure to establish the minimum altitudes/flight levels for VFR flights; and
	b	A procedure to establish the minimum altitudes/flight levels forIFR flights.
8.1.2		Criteria for determining the usability of aerodromes
8.1.3	а	Methods for the determination of aerodrome operating minima. The method for establishing aerodrome operating minima for IFR flights. Reference must be made to
ľ		procedures for the determination of the visibility and/or runway visual range and for the applicability of the actual visibility observed by the pilots, the reported visibility and
		the reported runway visual range.
	b	The margin of time established for planning the estimated time of use of an aerodrome.
	С	Instructions for determining aerodrome operating minima for instrument approaches using head-up displays (HUD) and enhanced vision systems (EVS).
8.1.4		En-route Operating Minima for VFR Flights or VFR portions of a flight and, where single engined aircraft are used, instructions for route selection with respect to the
		availability of surfaces which permit a safe forcedknding.
8.1.5		Presentation and Application of Aerodrome and En-route Operating Minima
8.1.6		Interpretation of meteorological information. Explanatory material on the decoding of MET forecasts and MET reports relevant to the area of operations, including the
		interpretation of conditional expressions.
8.1.7		Determination of the quantities of fuel, oil and water methanol carried. The methods by which the quantities of fuel, oil and water methanol to be carried are determined and monitored in flight. This section must also include instructions on the measurement and distribution of the fluid carried on board. Such instructions must take account of all circumstances likely to be encountered on the flight, including the possibility of in-flight replanning and of failure of one or more of the engines or systems. The system for maintaining fuel and oil records must also be described.
8.1.8		Mass and Centre of Gravity. The general principles of mass and centre of gravity including:
	а	Definitions;
1	b	Methods, procedures and responsibilities for preparation and acceptance of mass and centre of gravity calculations;
	с	The policy for using either standard and/or actual masses;
	d	The method for determining the applicable passenger, baggage and cargo mass;
	е	The applicable passenger and baggage masses for various types of operations and aircraft type;
	f	General instruction and information necessary for verification of the various types of mass and balance documentation in use;
	g	Last Minute Changes (LMC) procedures;
	h	Specific gravity of fuel, oil and water methanol;
	i	Seating policy/procedures; and
	i	Standard load plans.
8.1.9		ATS Flight Plan. Procedures and responsibilities for the preparation and submission of the air traffic services flight plan. Factors to be considered include the means of
ł		submission for both individual and repetitive flight plans.
8.1.10	1	Operational Flight Plan. Procedures and responsibilities for the preparation and acceptance of the operational flight plan. The use of the operational flight plan must be
		described including samples of the operational flight plan formats in use.
		Operator's Technical Log. The responsibilities and the use of the operator's Technical Log must be described, including samples of the format used.
8.1.11		operator o reclimical 2061 me responsional cost and the operator o reclimical 206 mast be described) including sumples of the format used
		List of documents, forms and additional information to be carried
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		Convisions of singulations of a
	J k	Servicing of aircraft and Documents and forms for aircraft handling;
	1 I	Multiple occupancy of aircraft seats.
8.2.3		Procedures for the refusal of embarkation. Procedures to ensure that persons who appear to be intoxicated or who demonstrate by manner or physical indications that they
		are under the influence of drugs, except medical patients under proper care, are refused embarkation.
8.2.4		De-icing and Anti-icing on the ground. A description of the de-icing and anti-icing policy and procedures for aircraft on the ground. These shall include descriptions of the
		types and effects of icing and other contaminants on aircraft whilst stationary, during ground movements and during take-off. In addition, a description of the fluid types
	а	used must be given including: Proprietary or commercial names;
	b	Characteristics;
	c	Effects on aircraft performance;
	d	Hold-over times;
	e	Precautions during usage; and
	f	Recording details in the technical log.
8.3		Flight Procedures
8.3.1		VFR/IFR Policy. A description of the policy for allowing flights to be made under VFR, or of requiring flights to be made under IFR, or of changing from one to the other.
8.3.2		Navigation Procedures. A description of all navigation procedures relevant to the type(s) and area(s) of operation. Consideration must be given to:
	а	Standard navigational procedures including policy for carrying out independent cross-checks of keyboard entries where these affect the flight path to be followed by the
		aircraft;
	b	MNPS and POLAR navigation and navigation in other designated areas;
	С	PBN. A description of the relevant PBN procedures specified in Part C;
	d	In-flight replanning;
	e	Procedures in the event of system degradation; and
	f	RVSM
3.3.3	-	Altimeter setting procedures including use, where appropriate, of
	a h	metric altimetry and conversion table; and
8.3.4	b	QFE operating procedures. Altitude alerting system procedures
8.3.4		Ground proximity warning system/terrain avoidance warning system. Procedures and instructions required for the avoidance of controlled flight into terrain, including
		limitations on high rate of descent near the surface and a Policy for the use of GPWS (the related training requirements are covered in D.2.1).
8.3.6		Policy and procedures for the use of TCAS/ACAS
8.3.7		Policy and procedures for in-flight fuel management
8.3.8		Adverse and potentially hazardous atmospheric conditions. Procedures for operating in, and/or avoiding, potentially hazardous atmospheric conditionsjjncludiing:
	b	Icing conditions;
	с	Turbulence;
	d	Windshear;
	е	Jet stream;
	f	Volcanic ash clouds;
	g	Heavy precipitation;
	h	Sand storms;
	i	Mountain waves; and
	j	Significant temperature inversions.
8.3.9		Wake Turbulence and Rotor Downwash. Wake turbulence and rotor downwash separation, taking into account aircraft types, wind conditions and runway location.
8.3.10		Crew members at their stations. The requirements for crew members to occupy their assigned stations or seats during the different phases of flight or whenever deemed necessary in the interest of safety.
8.3.11		Use of safety belts for crew and passengers. The requirements for crew members and passengers to use safety belts and/or harnesses during the different phases of flight or
0.5.11		whenever deemed necessary in the interest of safety.
8.3.12		Admission to flight compartment. The conditions for the admission to the flight compartment of persons other than the flight crew. The policy regarding the admission of
		Inspectors from the Director must also be included.
8.3.13		Use of vacant crew seats. The conditions and procedures for the use of vacant crew seats.
8.3.14		Incapacitation of crew members. Procedures to be followed in the event of incapacitation of crew members in flight. Examples of the types of incapacitation and the means
• •	<u> </u>	for recognising them must be included.
8.3.15		Cabin Safety Requirements. Procedures covering:
	a h	Cabin preparation for flight, in-flight requirements and preparation for landing including procedures for securing cabin and galleys; Procedures to ensure that passengers are seated where, in the event that an emergency evacuation is required, they may best assist and not hinder evacuation from the
	b	Procedures to ensure that passengers are seated where, in the event that an emergency evacuation is required, they may best assist and not hinder evacuation from the aircraft;
	с	Procedures to be followed during passenger embarkation and disembarkation;
	d	Procedures in the event of fuelling with passengers on board or embarking and disembarking; and
	е	Smoking on board.
8.3.16		Passenger briefing procedures. The contents, means and timing of passenger briefing in accordance with 135.130.
8.3.17		Procedures for aeroplanes operated whenever required cosmic or solar radiation detection equipment is carried. Procedures for the use of cosmic or solar radiation
		detection equipment and for recording its readings including actions to be taken in the event that limit values specified in the operations manual are exceeded. In addition,
8.3.18		the procedures, including ATS procedures, to be followed in the event that a decision to descend or re-route is taken. Policy on the use of autopilot and auto throttle.
8.3.18 8.4		All Weather Operations (AWO)
<i>∪</i> 1	а	A description of the operational procedures associated with all weather operations.
	b	Instructions for the use of head-up displays (HUD) and enhanced vision systems (EVS) equipment as applicable.
8.5	1~	EDTO. A description of the EDTO operational procedures.
8.6	1	Use of the Minimum Equipment and Configuration Deviation List(s)
8.7	1	Non revenue flights. Procedures and limitations for:
	а	Training flights;
	b	Test flights;
	c	Delivery flights;
	d	Ferry flights;
	е	Demonstration flights; and
	e f	Positioning flights, including the kind of persons who may be carried on such flights;
	e f g	-

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0.0.1		
8.8.1		An explanation of the conditions under which oxygen must be provided and used.
8.8.2	-	The oxygen requirements specified for:
	a	Flight crew;
	b	Cabin crew; and
_	С	Passengers.
9		DANGEROUS GOODS AND WEAPONS
9.1		Information, instructions and general guidance on the transport of dangerous goods including:
	a	Operator's policy on the transport of dangerous goods;
	b	Guidance on the requirements for acceptance, labelling, handling, stowage and segregation of dangerous goods;
	С	Special notification requirements in the event of an accident or occurrence when dangerous goods are being carried;
	d	Procedures for responding to emergency situations involving dangerous goods;
	e	Duties of all personnel involved; and
0.2	t	Instructions on the carriage of the operator's employees.
9.2	-	The conditions under which weapons, munitions of war and sporting weapons may be carried.
10	-	SECURITY
10.1		Security instructions and guidance of a nonconfidential nature which must include the authority and responsibilities of operations personnel. Policies and procedures for handling and reporting crime on board such as unlawful interference, sabotage, bomb threats, and hijacking must also be included.
10.2		A description of preventive security measures and training, including search procedures and guidance on least-risk bomb locations where practicable. NOTE: Parts of the
10.2		security instructions and guidance may be kept confidential.
11		HANDLING, NOTIFYING AND REPORTING OCCURRENCES
		Procedures for the handling, notifying and reporting occurrences. This section must include:
	а	Definitions of occurrences and of the relevant responsibilities of all persons involved;
	b	Emergency Response Plan;
	С	In the event of an accident, descriptions of which company departments, Authorities and other organizations that have to be notified, how this will be done and in what
		sequence;
	d	Procedures for verbal notification to air traffic service units of incidents involving ACAS RAs, bird hazards, dangerous goods and hazardous conditions;
	e	Procedures for submitting written reports on air traffic incidents, ACAS RAs, bird strikes, dangerous goods incidents or accidents, and unlawful interference;
	f	Reporting procedures. These procedures must include internal safety related reporting procedures to be followed by crew members, designed to ensure that the
		commander is informed immediately of any incident that has endangered, or may have endangered, safety during flight and that he is provided with all relevant information;
	g	Illustrations of forms used for reporting all types of occurrences (or copies of the forms themselves), instructions on how they are to be completed, the addresses to which they should be sent and the time allowed for this to be done.
12	-	RULES OF THE AIR
12		Rules of the Air including:
	а	Visual and instrument flight rules;
	b	Territorial application of the Rules of the Air;
	c	Communication procedures including COM-failure procedures;
	d	Information and instructions relating to the interception of civil aircraft;
	e	The circumstances in which a radio listening watch is to be maintained;
	f	Signals;
	g	Time system used in operation;
	h	ATC clearances, adherence to flight plan and position reports;
	i	Visual signals used to warn an unauthorised aircraft flying in or about to enter a restricted, prohibited or danger area;
	i	Procedures for pilots observing an accident or receiving a distress transmission;
	k	The ground/air visual codes for use by survivors, description and use of signal aids; and
	1	Distress and urgency signals.
13	† •	LEASING.
10		A description of the operational arrangements for leasing, associated procedures and management responsibilities.
В		AIRCRAFT OPERATING MATTERS - TYPE RELATED
		Taking account of the differences between types, and variants of types, under the following headings:
0		GENERAL INFORMATION AND UNITS OF MEASUREMENT
0.1		General Information (e.g. aircraft dimensions), including a description of the units of measurement used for the operation of the aircraft type concerned and conversion
		tables.
1		LIMITATIONS
1.1		A description of the certified limitations and the applicable operational limitations including:
	а	Certification status (eg. JAR-23, JAR-25, FAR 23; FAR 25; EASA CS-23, EASA CS-25, etc);
	b	Maximum Approved Passenger Seating Configuration (MAPSC) for each aircraft type including a pictorial presentation;
	с	Types of operation that are approved (e.g. IFR/VFR, CAT II/III, flights in known icing conditions etc.);
	d	Crew composition;
	e	Mass and centre of gravity;
	f	Speed limitations;
	g	Flight envelope(s);
	h	Wind limits;
	i	Performance limitations for applicable configurations;
	j	Runway slope;
	k	Limitations on wet or contaminated runways;
		Airframe contamination;
	m	System limitations.
2		NORMAL PROCEDURES
2.1		The normal procedures and duties assigned to the crew, the appropriate check-lists, the system for use of the check-lists and a statement covering the necessary
		coordination procedures between flight and cabin crew. The following normal procedures and duties must be included:
	а	Pre-flight;
	b	Pre-departure;
	с	Altimeter setting and checking;
	d	Taxy, take-off and climb;
	e	Noise abatement;
	1.0	Cruise and descent;
	t	
	f g	Approach, landing preparation and briefing;
	f g h	

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	i	Visual approach and circling;
	k	Missed approach;
		Normal landing;
	m	Post landing;
	n	Operation on wet and contaminated runways.
}		ABNORMAL AND EMERGENCY PROCEDURES
3.1		The emergency procedures and duties assigned to the crew, the appropriate checklists, the system for use of the checklists and a statement covering the necessary co-
		ordination procedures between flight and other crew members (the design and utilisation of which shall observe human factors and CRM principles). The following
		emergency procedures and duties must be included:
	a	Crew incapacitation;
	b	Fire and smoke drills;
	c d	Unpressurised and partially pressurised flight; Exceeding structural limits such as overweight landing;
	e e	Exceeding cosmic radiation limits;
	f	Lightning strikes;
	g	Distress communications and alerting ATC to emergencies;
	ь h	Engine failure;
	i	System failures;
	i	Guidance for diversion in case of serious technical failure;
	k	Ground proximity warning (GPWS/TAWS);
	Ι	TCAS alerts and advisories;
	m	Windshear;
	n	Emergency landing/ditching;
	0	Departure contingency procedures (one-engine inoperative procedures).
4		PERFORMANCE
4.1	<u> </u>	Performance data must be provided in a form in which it can be used without difficulty.
4.2		Performance data. Performance material which provides the necessary data for compliance with the performance requirements must be included to allow the determination of
	а	of: Take-off climb limits -mass, altitude, temperature;
	a b	Take-off field length (dry, wet, contaminated);
	c	Net flight path data for obstacle clearance calculation or, where applicable, take-off flight path;
	d	The gradient losses for banked climb outs;
	е	En-route climb limits;
	f	Approach climb limits;
	g	Landing climb limits;
	h	Landing field length (dry, wet, contaminated) including the effects of an in-flight failure of a system or device, if it affects the landing distance;
	i	Brake energy limits; and
	j	Speeds applicable for the various flight stages (also considering wet or contaminated runways).
4.2.1		Supplementary data covering flights in icing conditions. Any certificated performance related to an allowable configuration, or configuration deviation, such as anti-skid
		inoperative, must be included.
4.2.2		If performance data, as required for the appropriate performance class, is not available in the aircraft flight manual, then other data acceptable to the Director must be included. Alternatively, the operations manual may contain cross-reference to the approved data contained in the aircraft flight manual where such data is not likely to be
		used often or in an emergency.
4.3		Additional performance data. Additional performance data where applicable including:
	а	All engine climb gradients;
	b	Drift-down data;
	С	Effect of de-icing/anti-icing fluids;
	d	Flight with landing gear down;
	е	For aeroplanes with three or more engines, one engine inoperative ferry flights.and
_	f	Flights conducted under the provisions of the CDL.
5		FLIGHT PLANNING
5.1		Data and instructions necessary for pre-flight and inflight planning including factors such as speed schedules and power settings. Where applicable, procedures for engine(s)
		out operations, EDTO (particularly the one-engine inoperative cruise speed / all-engine operating cruising speed and maximum diversion time) and flights to isolated
F 2		aerodromes must be included.
5.2		The method for calculating fuel needed for the various stages of flight, in accordance with Part 135.280.
5.3		Performance Data for EDTO critical fuel and area of operation including sufficient data to support the critical fuel reserve and area of operation calculation based on
	а	Approved Aeroplane Performance Data. The following data^srequired; Detailed engine(s) inoperative performance data including fuel flow for standard and non-standard atmospheric conditions and as a function of airspeed and power setting,
	a	where appropriate, covering:
	i	drift down (includes net performance) - where applicable;
	ii	cruise altitude coverage including 10,000 feet;
	iii	holding;
	iv	altitude capability (includes net performance); and
	v	missed approach.
	b	Detailed all-engine-operating performance data, including nominal fuel flow data, for standard and non-standard atmospheric conditions and as a function of airspeed and
		power setting, where appropriate^covenng; cruise (altitude coverage including 10,000 feet); and
		cruise (altitude coverage including 10,000 feet); and
	ii	holding.
	с	Details of any other conditions relevant to EDTO operations which can cause significant deterioration of performance, such as ice accumulation on the unprotected surfaces of the aeroplane, ram air turbine (PAT) deployment, thrust-reverser deployment, etc.
	d	of the aeroplane, ram air turbine (RAT) deployment, thrust-reverser deployment, etc. The altitudes, airspeeds, thrust settings, and fuel flow used in establishing the EDTO area of operation for each airframe-engine combination must be used in showing the
	u	corresponding terrain and obstruction clearances in accordance with this regulation.
6		MASS AND BALANCE
-	-	Instructions and data for the calculation of the mass and balancejncludmg
	ļ,	
	а	Calculation system (e.g. Index system);
	b	Information and instructions for completion of mass and balance documentation, including manual and computer generated types;
	b c	Information and instructions for completion of mass and balance documentation, including manual and computer generated types; Limiting masses and centre of gravity for the types, variants or individual aircraft used by the operator; and

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7		LOADING
		Procedures and provisions for loading and securing the load in the aircraft.
8		CONFIGURATION DEVIATION LIST
-		The Configuration Deviation List(s) (CDL), if provided by the manufacturer, taking account of the aircraft types and variants operated including procedures to be followed
		when a aircraft is being dispatched under the terms of its CDL.
9		MINIMUM EQUIPMENT LIST
		The Minimum Equipment List (MEL) taking account of the aircraft types and variants operated and the type(s)/area(s) of operation. The MEL must include the navigational equipment and take into account the required navigation specification for the route and area of operation.
10		SURVIVAL AND EMERGENCY EQUIPMENT INCLUDING OXYGEN
10.1		A list of the survival equipment to be carried for the routes to be flown and the procedures for checking the serviceability of this equipment prior to take-off. Instructions regarding the location, accessibility and use of survival and emergency equipment and its associated check list(s) must also be included.
10.2		The procedure for determining the amount of oxygen required and the quantity that is available. The flight profile, number of occupants and possible cabin decompression must be considered. The information provided must be in a form in which it can be used without difficulty.
11		EMERGENCY EVACUATION PROCEDURES
11.1		Instructions for preparation for emergency evacuation including crew coordination and emergency station assignment.
11.2		Emergency evacuation procedures. A description of the duties of all members of the crew for the rapid evacuation of a aircraft and the handling of the passengers in the
		event of a forced landing, ditching or other emergency.
12		AIRCRAFT SYSTEMS
		A description of the aircraft systems, related controls and indications and operating instructions.
С		ROUTE AND AERODROME INSTRUCTIONS AND INFORMATION
1		Instructions and information relating to communications, navigation and aerodrome including minimum flight levels and altitudes for each route to be flown and operating
		minima for each aerodrome planned to be used, including:
	а	Minimum flight level/altitude;
	b	Operating minima for departure, destination and alternate aerodromes;
	С	Communication facilities and navigation aids;
	d	Runway data and aerodrome facilities;
	e	Approach, missed approach and departure procedures including noise abatement procedures;
	Ť	COM-failure procedures; Search and rescue facilities in the area over which the aircraft is to be flown;
	g h	A description of the aeronautical charts that must be carried on board in relation to the type of flight and the route to be flown, including the method to check their validity;
	i	Availability of aeronautical information and MET services;
	i	En-route COM/NAV procedures.
	k	Aerodrome categorisation for flight crew competence qualification;
	Ι	Special aerodrome limitations (performance operating, etc.).
D		TRAINING
1		Training syllabi and checking programmes for all operations personnel assigned to operational duties in connection with the preparation and/or conduct of a flight.
2		Training syllabi and checking programmes must include:
2.1		For flight crew. All relevant items prescribed in Subparts H, I and J;
2.2		For cabin crew. All relevant items prescribed in Subparts H, I and J;
2.3		For operations personnel concerned, including crew members:
	а	All relevant items prescribed in Part 92 (Transport of Dangerous Goods by Air); and
	b	All other relevant items prescribed in GARs pertaining to their duties.
2.4	-	For operations personnel other than crew members (e.g. dispatcher, handling personnel etc.). All other relevant items prescribed in GARs pertaining to their duties.
	+	
3.1		Procedures Procedures for training and competency checking.
	+	
3.2		Procedures to be applied in the event that personnel do not achieve or maintain the required standards.
3.3		Procedures to ensure that abnormal or emergency situations requiring the application of part or all of abnormal or emergency procedures and simulation of IMC by artificial means are not simulated during commercial air transportation flights.
3.4		Description of documentation to be stored and storage periods (see Appendix 1 to 91.1265).

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Appendix 1 to 91.1265
Document storage periods
When any of the following information/documentation is required, it shall be stored in an acceptable form, accessible to the Director, for the periods shown in Tables 1
to 6 below.
Note: Additional information relating to the retention of maintenance records is prescribed in GAR 39.

Table 1

Information used for the preparation and execution of the flight					
Operational flight plan 3 months					
Aircraft Technical Log 36 months after the date of the last entry					
Route specific NOTAM/AIS briefing documentation if edited by the operator 3 months					
Mass and Balance documentation 3 months					
Notification of special loads including written information to the pilot-in-command about dangerous goods 3 months					

Table 2

Reports						
Journey log		6 months				
Flight report(s) for recording details of any occurrence, as prescribed in GAR 91.350, or any event which the pilot-in- 3 months						
command deems necessary to report/record						
Reports on exceedance of duty and/or reducing rest periods 3 months						

Table 3

Flight Crev	w Records		
Flight, Duty and Rest time	15 months		
Licence	As long as the flight crew member is exercising the privileges of the licence		
	for the operator		
Conversion training and checking	3 years		
Command course (including checking)	3 years		
Recurrent training and checking	3 years		
Training and checking to operate in either pilot's seat	3 years		
Recent experience	15 months		
Route and aerodrome competence	3 years		
Training and qualification for specific operations (e.g. CAT II/III operations etc.)	3 years		
Dangerous Goods training as appropriate	3 years		

Table 4

Cabin Crew Records				
Flight, Duty and Rest time	15 months			
Initial training, conversion and differences training (including checking)	As long as the cabin crew member is employed by the operator			
Recurrent training and refresher (including checking)	Until 12 months after the cabin crew member has left the employ of the			
	operator			
Dangerous Goods training as appropriate	3 years			

Table 5

Records for other Operational Personnel	
Training/qualification records of other personnel for whom an approved training programme is required by	Last two training records
GARs	

Table 6

	Other Records					
Records on cosmic and solar radiation dosage	Until at least 12 months after the crew member has left the employ of the operator; and where a crew member has been exposed to more than 6 millisieverts (mSv) in any 12 month period, until the individual has or would have attained the age of 75 years, but in any case not less than 30 years from the termination of the work involving exposure.					
RVSM monitoring data	3 years					
Quality system records	3 years					
Dangerous goods transport document	3 months after completion of the flight					
Dangerous goods acceptance checklist	3 months after completion of the flight					
Application for approvals under Subpart SPA	12 months					

Guernsey Aircraft Registry

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			Subpart SPA - Specific Approvals
			Section I - General requirements
SPA.005. GEN			Scope
			This Subpart establishes the requirements to be met by an operator to qualify for the issue or continuation of specific operational approvals.
SPA.020. GEN			Application for a specific approval
	а		Applicants for the initial issue of a specific approval shall provide the Director with the documentation required by the applicable subpart and the following information:
		1	The official name and business name, address and mailing address of the applicant; and
		2	A description of the intended operation.
	b		Applicants for a specific approval shall demonstrate to the Director that:
		1	they comply with the requirements of the applicable section;
		2	the aircraft and required equipment comply with the applicable airworthiness requirements/approvals;
		3	a training programme has been established for flight crew and, as applicable, personnel involved in these operations; and
		4	operating procedures in accordance with the applicable subpart have been specified in the operations manual.
	С		Records relating to the requirements of (a) and (b) above shall be retained by the operator in accordance with 91.1265.
SPA.025. GEN			Privileges of an operator holding a specific approval
			The scope of the activity that the operator is approved to conduct shall be specified in the operations manual and approval certificate or, for commercial operators, in the operations specifications to the air operator's certificate.
SPA.030. GEN			Changes to operations subject to a specific approval
	а		The operator shall notify the Director of any change on the items listed in SPA.020.GEN (a) and (b) and any of the requirements in the applicable section before such change takes place.
	b		The Director may prescribe the conditions under which the organisation may operate during such changes, unless the Director determines that the specific approval shall be suspended or revoked.
	С		In the case of a change to a specific approval, operators shall provide the Director with the relevant parts of the operations manual and all other relevant documentation.
SPA.035. GEN			Continued validity of a specific approval
			Specific approvals shall be issued for an unlimited duration. They shall remain valid subject to the operator remaining in compliance with this subpart.

	Section II - Operations in areas with specifed navigational performance		
SPA.001. SPN			Operations in areas with specified performance based navigation
	а		An aircraft shall only be operated in designated airspace, on routes or in accordance with procedures where authorization required (AR) navigation specifications are established, if the operator has been approved by the Director.
	b		An aircraft shall only be operated in designated airspace, based on ICAO Regional Air Navigation Agreement, where minimum navigation performance specifications are established, if the operator has been approved by the Director.
	С		To obtain such approval, the operator shall:
		1	demonstrate that the navigation equipment meets the required performance in terms of navigation functionality, accuracy, integrity, availability and continuity;
		2	establish and document flight crew qualification requirements in accordance with the appropriate navigation specifications;
		3	establish and maintain a training programme for relevant personnel consistent with the intended operations;
		4	establish operating procedures specifying:
		i	the equipment to be carried, including its operating limitations and appropriate entries in the Minimum Equipment List (MEL);
		ii	flight crew composition and experience requirements;
		iii	normal and abnormal procedures;
		iv	contingency procedures;
		v	incident reporting;
		vi	specific regional operating procedures, in case of MNPS; and
		vii	navigation database integrity, in case of PBN; and
		5	Establish and document appropriate maintenance procedures to ensure continuing airworthiness in accordance with the appropriate navigation specifications.
SPA.010. SPN			Equipment requirements for operations in MNPS areas
	а		An aircraft conducting MNPS operations shall be equipped with navigation equipment that complies with the ICAO Regional Air Navigation
			Agreement.
	b		Navigation equipment shall be visible and operable by either pilot seated at his/her duty station.
SPA.030. SPN			Flight crew requirements for operations in PBN or MNPS areas
			For commercial air transport operations the minimum flight crew shall consist of at least two pilots.

			Section III - Operations in airspace with reduced vertical separation minima
SPA.001. RVSM			Operations in airspace with reduced vertical separation minima (RVSM)
	а		An aircraft shall only be operated in designated airspace where a reduced vertical separation minimum of 300 m (1 000 ft) applies above flight level (FL) 290, if:
		1	the aircraft has been issued with an RVSM airworthiness approval in accordance with GAR Part 21; and
		2	the operator has been approved by the Director.
	b		To obtain an approval under (a)(2), the operator shall:
		1	establish and maintain a training programme for the flight crew involved in these operations; and
		2	establish operating procedures specifying:
		i	the equipment to be carried, including its operating limitations and appropriate entries in the Minimum Equipment List (MEL);
		ii	flight crew composition and experience requirements;
		iii	flight planning;
		iv	pre-flight procedures;
		v	procedures prior to RVSM airspace entry;

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		vi	in-flight procedures;
		vii	post flight procedures;
		viii	maintenance programme;
		ix	incident reporting; and
		х	specific regional operating procedures.
	С		The operator shall ensure that:
		1	a minimum of two aeroplanes of each aircraft type grouping of the operator shall have their height-keeping performance monitored, at least once every two years or within intervals of 1,000 flight hours per aeroplane, whichever period is longer. If an operator aircraft type grouping consists of a single aeroplane, monitoring of that aeroplane shall be accomplished within the specified period; and
		2	records relating to the requirements of (1) above shall be retained by the operator in accordance with 91.1265.
			Note: Monitoring data from any regional monitoring programme established in accordance with ICAO Annex 11, Chapter 3, may be used to
			satisfy the requirement.
SPA.010.			Equipment requirements for operations in RVSM airspace
RVSM			
	а		In addition to the equipment required by Subpart F, aircraft used for operations in RVSM airspace shall be 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 control.
SPA.030. RVSM			Flight crew requirements for operations in RVSM airspace
			For commercial air transport operations the minimum flight crew shall consist of at least two pilots.

			Section IV - Low visibility operations
SPA.005. LVO			Low visibility operations — General operating rules
	а		The operator shall not conduct Category II, other than Standard Category II or III operations unless:
		1	each aircraft concerned is certificated for operations with decision heights below 200 feet, or no decision height, and equipped in accordance with EASA CS-AWO on all weather operations or an equivalent accepted by the Director;
		2	a suitable system for recording approach and/or automatic landing success and failure is established and maintained to monitor the overall safety of the operation;
		3	the operations are approved by the Director;
		4	the flight crew consists of at least two pilots; and
		5	decision height is determined by means of a radio altimeter.
	b		The operator shall not conduct low visibility takeoffs in less than 150 m RVR (Category A, B, C aeroplanes, and helicopters) or 200 m RVR (Category D aeroplanes) unless approved by the Director.
	С		The operator shall not conduct lower than Standard Category I operations unless approved by the Director.
SPA.010. LVO			Low visibility operations — Aerodrome considerations
	а		The operator shall not use an aerodrome for Category II or III operations unless the aerodrome is approved for such operations by the State in which the aerodrome is located.
	b		The operator shall verify that low visibility procedures (LVP) have been established, and will be enforced, at those aerodromes where low visibility operations are to be conducted.
SPA.015. LVO			Low visibility operations — Training and qualifications
	а		The operator shall ensure that, prior to conducting low visibility take-off, lower than Standard Category I, other than Standard Category II, Category II and III operations or approaches utilising EVS:
		1	Each flight crew member:
		i	Completes the training and checking requirements prescribed in Appendix 1 including Flight simulator training in operating to the limiting values of RVR/CMV and Decision Height appropriate to the operator's approval; and
		ii	Is qualified in accordance with Appendix 1 to SPA.015.LVO;
		2	The training and checking is conducted in accordance with a detailed syllabus approved by the Director and included in the operations manual; and
		3	The flight crew qualification is specific to the operation and the aircraft type.
SPA.020. LVO			Low visibility operations — Operating procedures
	а		The operator shall establish procedures and instructions to be used for low visibility take-off, approaches utilising EVS, Lower than Standard Category I, other than Standard Category II, Category II and III operations. These procedures shall be included in the operations manual and contain the duties of flight crew members during taxiing, takeoff, approach, flare, landing, roll-out and missed approach as appropriate.
	b		The pilot in command shall be satisfied that:
		1	The status of the visual and non-visual facilities is sufficient prior to commencing a low visibility takeoff, an approach utilising EVS, a lower than Standard Category II, or a Category II or III approach;
		2	Appropriate LVPs are in force according to information received from Air Traffic Services, before commencing a low visibility take-off, a lower than Standard Category I, an other than Standard Category II, or a Category II or III approach; and
		3	The flight crew members are properly qualified prior to commencing a low visibility take-off in an RVR of less than 150 m (Category A, B, C aeroplanes, and helicopters) or 200 m (Cat D aeroplanes), an approach utilising EVS, a lower than Standard Category I, an other than Standard Category II or III approach.
SPA.025. LVO			Low visibility operations — Minimum equipment
	а		The operator shall include in the operations manual the minimum equipment that has to be serviceable at the commencement of a low visibility take-off, a lower than Standard Category I approach, an Other than Standard Category II approach, an approach utilising EVS, or a Category II or III approach in accordance with the aircraft flight manual or other approved document.
	b		The pilot in command shall be satisfied that the status of the aircraft and of the relevant airborne systems is appropriate for the specific operation to be conducted.

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	1	Appendix I to SPA.005.LVO
		Low visibility operations — General operating rules
а		General. The following procedures apply to the introduction and approval of low visibility operations.
 b	1	Operational demonstration. The purpose of the operational demonstration is to determine or validate the use and effectiveness of the applicable aircraft flight guidance systems, including HUDLS if appropriate, training, flight crew procedures, maintenance programme, and manuals applicable to the Category II/III programme being approved. At least 30 approaches and landings must be accomplished in operations using the Category II/III systems installed in each aircraft type if the requested DH is 50 ft or higher. If the DH is less than 50 ft, at least 100 approaches and landings will need to be accomplished unless otherwise
	2	approved by the Director. If an operator has different variants of the same type of aircraft utilising the same basic flight control and display systems, or different basic
		flight control and display systems on the same type of aircraft, the operator must show that the various variants have satisfactory performance but the operator need not conduct a full operational demonstration for each variant. The Director may also accept a reduction of the number of approach and landings based on credit given for the experience gained by another operator using the same aircraft type or variant and procedures.
	3	If the number of unsuccessful approaches exceeds 5 % of the total (e.g. unsatisfactory landings, system disconnects) the evaluation programme must be extended in steps of at least 10 approaches and landings until the overall failure rate does not exceed 5 %. Data collection for operational demonstrations. Each applicant must develop a data collection method (e.g. a form to be used by the flight
C		crew) to record approach and landing performance. The resulting data and a summary of the demonstration data shall be made available to the Director for evaluation.
d		Data analysis. Unsatisfactory approaches and/or automatic landings shall be documented and analysed.
e	1	Continuous monitoring After obtaining the initial authorisation, the operations must be continuously monitored by the operator to detect any undesirable trends
	2	before they become hazardous. Flight crew reports may be used to achieve this. The following information must be retained for a period of 12 months:
	i	the total number of approaches, by aircraft type, where the airborne Category II or III equipment was utilised to make satisfactory, actual or practice, approaches to the applicable Category II or III minima; and
	ii	reports of unsatisfactory approaches and/or automatic landings, by aerodrome and aircraft registration, in the following categories:
	A	airborne equipment faults;
	B C	ground facility difficulties; missed approaches because of ATC instructions; or
		other reasons.
	3	The operator must establish a procedure to monitor the performance of the automatic landing system or HUDLS to touchdown performance, as appropriate, of each aeroplane.
f		Transitional periods
	1	Operators with no previous Category II or III experience
	i	The operator without previous Category II or III operational experience may be approved for Category II or IIIA operations, having gained a
	ii	minimum experience of six months of Category I operations on the aircraft type. On completing six months of Category II or IIIA operations on the aircraft type the operator may be approved for Category IIIB operations.
		When granting such an approval, the Director may impose higher minima than the lowest applicable for an additional period. The increase in minima will normally only refer to RVR and/or a restriction against operations with no decision height and must be selected such that they will not require any change of the operational procedures.
	2	Operators with previous Category II or III experience.
	i	The operator with previous Category II or III experience may obtain authorisation for a reduced transition period by application to the Director
	ii	The operator authorised for Category II or III operations using auto-coupled approach procedures, with or without auto-land, and subsequentl introducing manually flown Category II or III operations using a HUDLS shall be considered to be a "New Category II/III operator" for the purposes of the demonstration period provisions.
g		Maintenance of Category II, Category III and LVTO equipment. Maintenance instructions for the onboard guidance systems must be establishe by the operator, in liaison with the manufacturer, and included in the operator's aircraft maintenance programme prescribed in GAR Part 39.
<u>h</u>	1	Eligible aerodromes and runways Each aircraft type/runway combination must be verified by the successful completion of at least one approach and landing in Category II or better conditions, prior to commencing Category III operations.
	2	For runways with irregular pre-threshold terrain or other foreseeable or known deficiencies, each aircraft type/runway combination must be verified by operations in standard Category I or better conditions, prior to commencing Lower than Standard Category I, Category II, or other
	3	than Standard Category II or Category III operations. If an operator has different variants of the same type of aircraft in accordance with subparagraph 4 below, utilising the same basic flight contro and display systems, or different basic flight control and display systems on the same type of aircraft in accordance with subparagraph 4 below
		the operator must show that the variants have satisfactory operational performance, but the operator need not conduct a full operational demonstration for each variant/runway combination.
	4 i	For the purpose of paragraph (h), an aircraft type or variant of an aircraft type is deemed to be the same type/variant of aircraft if that type/variant has the same or similar: level of technology, including the:
	A	FGS and associated displays and controls;
	В	the FMS and level of integration with the FGS;
	C	use of HUDLS.
	ii A	Operational procedures, including:
	A B	alert height; manual landing/automatic landing;
	C	no decision height operations;
	D	use of HUD/HUDLS in hybrid operations.
	iii	Handling characteristics, including:
	A	manual landing from automatic or HUDLS guided approach;
	B	manual go-around from automatic approach;
	C 5	automatic/manual roll out. Operators using the same aircraft type/class or variant of a type in accordance with subparagraph 4 above may take credit from each others'
		experience and records in complying with this paragraph.

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		Appendix I to SPA.015.LVO
		Low visibility operations — Training and qualifications
а	3	General: The operator must ensure that flight crew member training programmes for low visibility operations include structured courses of ground, flight simulator and/or flight training. The operator may abbreviate the course content as prescribed by subparagraphs 2 and 3 below provided the content of the abbreviated course is acceptable to the Director.
	1	Flight crew members with no Category II or Category III experience must complete the full training programme prescribed in subparagraphs (I (c) and (d) below.
	2	Flight crew members with Category II or Category III experience with a similar type of operation (autocoupled/ auto-land, HUDLS/hybrid HUD or EVS) or Category II with manual land if appropriate with another operator may undertake an:
	i	abbreviated ground training course if operating a different type/class from that on which the previous Category II or Category III experience w gained;
	ii	abbreviated ground, flight simulator and/or flight training course if operating the same type/class and variant of the same type or class on wh the previous Category II or Category III experience was gained. The abbreviated course is to include at least the requirements of subparagrap (d)1, (d)2(i) or (d)2(ii) as appropriate and (d)3(i). With the approval of the Director, the operator may reduce the number of approaches/landir required by subparagraph (d)2(i) if the type/class or the variant of the type or class has the same or similar:
	A	level of technology — flight control/guidance system (FGS); and
	В	operational procedures;
	C	handling characteristics (See paragraph 4 below);
		as the previously operated type or class, otherwise the requirement of (d)2(i) has to be met in full;
	D	use of HUDLS/hybrid HUDLS;
	E	use of EVS.
	3	Flight crew members with Category II or Category III experience with the operator may undertake an abbreviated ground, Flight simulator and/or flight training course when changing:
	i	aircraft type/class is to include at least the requirements of subparagraphs (d)1, (d)2(i) or (d)2(ii) as appropriate and (d)3(i);
	ii	to a different variant of aircraft within the same type or class rating that has the same or similar:
	A	level of technology — flight control/guidance system (FGS); and
	B	operational procedures — integrity;
	C	handling characteristics (See paragraph 4 below);
	D	use of HUDLS/hybrid HUDLS;
	E	use of EVS
	C	
		as the previously operated type or class, then a difference course or familiarisation appropriate to the change of variant fulfils the abbreviate
		course requirements;
	iii	to a different variant of aircraft within the same type or class rating that has a significantly different:
	A	level of technology — flight control/guidance system (FGS); and
	В	operational procedures — integrity;
	C	handling characteristics (See paragraph 4 below);
	D	use of HUDLS/hybrid HUDLS;
	E	use of EVS
		then the requirements of subparagraphs (d)1, (d)2(i) or (d)2(ii) as appropriate and (d)3(i) shall be fulfilled. With the approval of the Director operator may reduce the number of approaches/ landings required by subparagraph (d)2(i).
	4	The operator must ensure when undertaking Category II or Category III operations with different variant(s) of aircraft within the same type of class rating that the differences and/or similarities of the aircraft concerned justify such operations, taking account at least the following:
	i	the level of technology, including the:
	A	FGS and associated displays and controls;
	В	the Flight Management System and its integration or not with the FGS;
	C	use of HUD/HUDLS with hybrid systems and/or EVS;
	ii	operational procedures, including:
	A	fail-passive/fail-operational, alert height;
	В	manual landing/automatic landing;
	C	no decision height operations;
	D	use of HUD/HUDLS with hybrid systems;
	iii	handling characteristics, including:
	Α	manual landing from automatic HUDLS and/or EVS guided approach;
	В	manual go-around from automatic approach;
	C	automatic/manual roll out.
b	_	Ground training. The operator must ensure that the initial ground training course for low visibility operations covers at least:
U	-	
	1	the characteristics and limitations of the ILS and/or MLS; the characteristics of the visual aids;
	2	
	3	the characteristics of fog;
	4	the operational capabilities and limitations of the particular airborne system to include HUD symbology and EVS characteristics if appropriate
	5	the effects of precipitation, ice accretion, low level wind shear and turbulence;

	6	the effect of specific aircraft/system malfunctions;
	7	the use and limitations of RVR assessment systems;
	8	the principles of obstacle clearance requirements;
	9	recognition of and action to be taken in the event of failure of ground equipment;
	10	the procedures and precautions to be followed with regard to surface movement during operations when the RVR is 400 m or less and any
		additional procedures required for take-off in conditions below 150 m (200 m for Category D aeroplanes);
	11	the significance of decision heights based upon radio altimeters and the effect of terrain profile in the approach area on radio altimeter
		readings and on the automatic approach/landing systems;
	12	the importance and significance of alert height if applicable and the action in the event of any failure above and below the alert height;
	13	the qualification requirements for pilots to obtain and retain approval to conduct low visibility take-offs and Category II or III operations; and
	14	the importance of correct seating and eye position.
С		Flight simulator training and/or flight training
	1	The operator must ensure that flight simulator and/or flight training for low visibility operations includes:
	i	checks of satisfactory functioning of equipment, both on the ground and in flight;
	ii	effect on minima caused by changes in the status of ground installations;
	iii	monitoring of:
	C	7 8 9 10 11 12 13 14

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	A	automatic flight control systems and auto land status annunciators with emphasis on the action to be taken in the event of failures of such systems; and
	B	HUD/HUDLS/EVS guidance status and annunciators as appropriate, to include head down displays; actions to be taken in the event of failures such as engines, electrical systems, hydraulics or flight control systems;
	V	the effect of known unserviceabilities and use of minimum equipment lists; operating limitations resulting from airworthiness certification;
	vi	guidance on the visual cues required at decision height together with information on maximum deviation allowed from glide path or localiser and
	viii	the importance and significance of alert height if applicable and the action in the event of any failure above and below the alert height.
	2	The operator must ensure that each flight crew member is trained to carry out his/her duties and instructed on the coordination required with other crew members. Maximum use should be made of flight simulators.
	3	Training must be divided into phases covering normal operation with no aircraft or equipment failures but including all weather conditions which may be encountered and detailed scenarios of aircraft and equipment failure which could affect Category II or III operations. If the aircraft system involves the use of hybrid or other special systems (such as HUD/HUDLS or enhanced vision equipment) then flight crew members must practise the use of these systems in normal and abnormal modes during the flight simulator phase of training.
	4 5	Incapacitation procedures appropriate to low visibility take-offs and Category II and III operations shall be practised. For aircraft with no flight simulator available to represent that specific aircraft operators must ensure that the flight training phase specific to the visual scenarios of Category II operations is conducted in a specifically approved flight simulator. Such training must include a minimum of four approaches. The training and procedures that are type specific shall be practised in the aircraft.
	6	Initial Category II and III training shall include at least the following exercises:
	i	approach using the appropriate flight guidance, autopilots and control systems installed in the aircraft, to the appropriate decision height and to include transition to visual flight and landing;
	ii	approach with all engines operating using the appropriate flight guidance systems, autopilots, HUDLS and/or EVS and control systems installe in the aircraft down to the appropriate decision height followed by missed approach; all without external visual reference;
	iii	where appropriate, approaches utilising automatic flight systems to provide automatic flare, landing and rollout; and
	iv 7	normal operation of the applicable system both with and without acquisition of visual cues at decision height. Subsequent phases of training must include at least:
	i ii	approaches with engine failure at various stages on the approach; approaches with critical equipment failures (e.g. electrical systems, auto flight systems, ground and/or airborne ILS/MLS systems and status
	iii	monitors); approaches where failures of auto flight equipment and/or HUD/HUDLS/EVS at low level require either;
	A B	reversion to manual flight to control flare, landing and roll out or missed approach; or reversion to manual flight or a downgraded automatic mode to control missed approaches from, at or below decision height including those which may result is a tauchdown on the runnau
	iv	which may result in a touchdown on the runway; failures of the systems which will result in excessive localiser and/or glide slope deviation, both above and below decision height, in the minimum visual conditions authorised for the operation. In addition, a continuation to a manual landing must be practised if a head-up displa
	v	forms a downgraded mode of the automatic system or the head-up display forms the only flare mode; and failures and procedures specific to aircraft type or variant.
	8	The training programme must provide practice in handling faults which require a reversion to higher minima.
	9	The training programme must include the handling of the aircraft when, during a fail passive Category III approach, the fault causes the
	10	autopilot to disconnect at or below decision height when the last reported RVR is 300 m or less. Where take-offs are conducted in RVRs of 400 m and below, training must be established to cover systems failures and engine failure resulting the stablished to cover systems failures and engine failure resulting must be established to cover systems failures and engine failure resulting must be established to cover systems failures and engine failure resulting must be established to cover systems failures and engine failure resulting must be established to cover systems failures and engine failure resulting must be established to cover systems failures and engine failure resulting must be established to cover systems failures and engine failure resulting must be established to cover systems failures and engine failure resulting must be established to cover systems failures and engine failure resulting must be established to cover systems failures and engine failure resulting must be established to cover systems failures and engine failure resulting must be established to cover systems failures and engine failure resulting must be established to cover systems failures and engine failure resulting must be established to cover systems failures and engine failure resulting must be established to cover systems failures and engine failure resulting must be established to cover systems failures and engine failure resulting must be established to cover systems failures and engine failure resulting must be established to cover systems failures and engine
	11	in continued as well as rejected take-offs. The training programme must include, where appropriate, approaches where failures of the HUDLS and/or EVS equipment at low level requi either:
	i	reversion to head down displays to control missed approach; or
	ii	reversion to flight with no, or downgraded, HUDLS Guidance to control missed approaches from decision height or below, including those which may result in a touchdown on the runway.
	12	The operator shall ensure that when undertaking low visibility take-off, lower than Standard Category I, other than Standard Category II, and Category II and III Operations utilising a HUD/HUDLS or hybrid HUD/HUDLS or an EVS, that the training and checking programme includes, where appropriate, the use of the HUD/HUDLS in normal operations during all phases of flight.
d		Conversion training requirements to conduct low visibility take-off, lower than Standard Category I, other than Standard Category II, approace utilising EVS and Category II and III Operations. The operator shall ensure that each flight crew member completes the following low visibility procedures training if converting to a new type/class or variant of aircraft in which low visibility take-off, lower than Standard Category I, Other than Standard Category II, Approach utilising EVS with an RVR of 800m or less and Category II and III Operations will be conducted. The flight crew member experience requirements to undertake an abbreviated course are prescribed in subparagraphs (a)2, (a)3 and (a)4, above:
	1	Ground Training. The appropriate requirements prescribed in subparagraph (b) above, taking into account the flight crew member's Categoriand Category III training and experience.
	2 i	Flight simulator training and/or flight training. A minimum of six (eight for HUDLS with or without EVS) approaches and/or landings in a flight simulator. The requirements for eight HUDLS
	ii	approaches may be reduced to six when conducting hybrid HUDLS operations. See subparagraph 4.(i) below. Where no Flight simulator is available to represent that specific aircraft, a minimum of three (five for HUDLS and/or EVS) approaches includir at least one go-around is required on the aircraft. For hybrid HUDLS operations a minimum of three approaches are required, including at leas one go-around.
	ii	Appropriate additional training if any special equipment is required such as head-up displays or enhanced vision equipment. When approach operations utilising EVS are conducted with an RVR of less than 800m, a minimum of five approaches, including at least one go-around are required on the aircraft.
	3	Flight crew qualification. The flight crew qualification requirements are specific to the operator and the type of aircraft operated.
	i	The operator must ensure that each flight crew member completes a check before conducting Category II or III operations. The check prescribed in subparagraph (i) above may be replaced by successful completion of the flight simulator and/or flight training prescribed in subparagraph (d)2. above.
	4	Line flying under supervision. The operator must ensure that each flight crew member undergoes the following line flying under supervision (LIFUS):
	i	for Category II when a manual landing or a HUDLS approach to touchdown is required, a minimum of:
	A B	three landings from autopilot disconnect; four landings with HUDLS used to touchdown;
	В	except that only one manual landing (two using HUDLS to touchdown) is required when the training required in subparagraph (d)2 above has been carried out in a flight simulator qualified for zero flight time conversion.
	ii	For Category III, a minimum of two auto lands except that:

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e	B C iii 1 iii iii A B	for zero flight time (ZFT) conversion and the flight crew member successfully completed the ZFT type rating conversion course; the flight crew member, trained and qualified in accordance with paragraph (B) above, is qualified to operate during the conduct of LIFUS to the lowest approved DA(H) and RVR as stipulated in the operations manual. For Category III approaches using HUDLS to touchdown a minimum of four approaches. Type and command experience. Before commencing Category II operations, the following additional requirements are applicable to pilot in command, or pilots to whom conduct of the flight may be delegated, who are new to the aircraft type/class: 50 hours or 20 sectors on the type, including line flying under supervision; and
e	1 1 ii ii A	 the lowest approved DA(H) and RVR as stipulated in the operations manual. For Category III approaches using HUDLS to touchdown a minimum of four approaches. Type and command experience. Before commencing Category II operations, the following additional requirements are applicable to pilot in command, or pilots to whom conduct of the flight may be delegated, who are new to the aircraft type/class: 50 hours or 20 sectors on the type, including line flying under supervision; and 100 m must be added to the applicable Category II RVR minima when the operation requires a Category II manual landing or use of HUDLS to
e	1 i ii A	Type and command experience. Before commencing Category II operations, the following additional requirements are applicable to pilot in command, or pilots to whom conduct of the flight may be delegated, who are new to the aircraft type/class: 50 hours or 20 sectors on the type, including line flying under supervision; and 100 m must be added to the applicable Category II RVR minima when the operation requires a Category II manual landing or use of HUDLS to
	1 ii A	 Before commencing Category II operations, the following additional requirements are applicable to pilot in command, or pilots to whom conduct of the flight may be delegated, who are new to the aircraft type/class: 50 hours or 20 sectors on the type, including line flying under supervision; and 100 m must be added to the applicable Category II RVR minima when the operation requires a Category II manual landing or use of HUDLS to
	A	50 hours or 20 sectors on the type, including line flying under supervision; and 100 m must be added to the applicable Category II RVR minima when the operation requires a Category II manual landing or use of HUDLS to
	A	
		touchdown until:
		a total of 100 hours or 40 sectors, including LIFUS has been achieved on the type; or
		a total of 50 hours or 20 sectors, including LIFUS has been achieved on the type where the flight crew member has been previously qualified fo
	C	Category II manual landing operations with another operator; for HUDLS operations the sector requirements in paragraphs (e) 1. and (e) 2. (i) shall always be applicable, the hours on type/class does not
		fulfil the requirement.
	2	Before commencing Category III operations, the following additional requirements are applicable to pilots in command, or pilots to whom conduct of the flight may be delegated, who are new to the aircraft type:
	i	50 hours or 20 sectors on the type, including line flying under supervision; and
	ii	100 m must be added to the applicable Category II or Category III RVR minima unless he has previously qualified for Category II or III operations with another operator, until a total of 100 hours or 40 sectors, including line flying under supervision, has been achieved on the type.
	3	The Director may authorise a reduction in the above command experience requirements for flight crew members who have Category II or Category III command experience.
f		Low visibility take-off with RVR less than 150/200 m
	1	The operator must ensure that prior to authorisa-tion to conduct take-offs in RVRs below 150 m (below 200 m for Category D aeroplanes) the following training is carried out:
	i	normal take-off in minimum authorised RVR conditions;
	ii	take-off in minimum authorised RVR conditions with an engine failure between V1 and V2, or as soon as safety considerations permit; and
	2	take-off in minimum authorised RVR conditions with an engine failure before V1 resulting in a rejected take-off. The operator must ensure that the training required by subparagraph 1 above is carried out in a flight simulator. This training must include the
		use of any special procedures and equipment. Where no flight simulator is available to represent that specific aircraft, the Director may
	3	approve such training in an aircraft without the requirement for minimum RVR conditions.The operator must ensure that a flight crew member has completed a check before conducting low visibility take-offs in RVRs of less than 150
		m (less than 200 m for Category D aeroplanes) if applicable. The check may only be replaced by successful completion of the flight simulator and/or flight training prescribed in subparagraph (f)(1). on conversion to an aeroplane type.
g		Recurrent training and checking — Low visibility operations
	1	The operator must ensure that, in conjunction with the normal recurrent training and operator proficiency checks, a pilot's knowledge and ability to perform the tasks associated with the particular category of operation, for which he/she is authorised is checked. The required number of approaches to be undertaken in the flight simulator within the validity period of the operators proficiency check (as prescribed in 121.1115, 125.1115 and 135.1115) is to be a minimum of two, (four when HUDLS and/or EVS is utilised to touchdown) one of which must be a landing at the lowest approved RVR; in addition one (two for HUDLS and/or operations utilising EVS) of these approaches may be substituted by an approach and landing in the aircraft using approved Category II and III procedures. One missed approach shall be flown during the conduct of the operators proficiency check. If the operator is authorised to conduct take-off with RVR less than 150/200 m at least one LVTO to the lowest applicable minima shall be flown during the conduct of the operators proficiency check.
	2	For Category III operations an operator must use a flight simulator. The operator must ensure that, for CategoryIII op-erations on aircraft with a fail passive flight control system, including HUDLS, a missed
		approach is com-pleted at least once over the period of three con-secutive operator proficiency checks as the result of an autopilot failure at or
	4	below decision height when the last reported RVR was300 m or less. The Director may authorise recurrent training and checking for Category II and LVTO operations in an aircraft type where no flight simulator to
		represent that specific aircraft or an acceptable alternate is available.
		Note: Recency for LVTO and Category II/III based upon automatic approaches and/or auto-lands is maintained by the recurrent training and checking as prescribed in this paragraph.
h		Additional training requirements for operators conducting lower than Standard Category I, approaches utilising EVS and other than Standard
	1	Category II Operations. Operators conducting lower than Standard Category I operations shall comply with the requirements for low visibility operations — training
		and qualifications applicable to Category II operations to include the requirements applicable to HUDLS (if appropriate). The operator may
		combine these additional requirements where appropriate provided that the operational procedures are compatible. During conversion training the total number of approaches required shall not be an addition to the standard requirements provided the training is conducted
		utilising the lowest applicable RVR. During recurrent training and checking the operator may also combine the separate requirements provided
		the above operational procedure requirement is met, provided that at least one approach using lower than Standard Category I minima is conducted at least once every 18 months.
	2	Operators conducting other than Standard Category II operations shall comply with the requirements for low visibility operations — training
		and qualifications applicable to Category II operations to include the requirements applicable to HUDLS (if appropriate). The operator may combine these additional requirements where appropriate provided that the operational procedures are compatible. During conversion training the total number of approaches required shall not be less than that required to complete Category II training utilising a HUD/HUDLS. During recurrent training and checking the operator may also combine the separate requirements provided the above operational procedure requirement is met, provided that at least one approach using other than Standard Category II minima is conducted at least once every 18 months.
	3	Operators conducting approach operations utilising EVS with RVR of 800 m or less shall comply with the requirements for Low Visibility
		Operations — Training and Qualifications applicable to Category II operations to include the requirements applicable to HUD (if appropriate). The operator may combine these additional requirements where appropriate provided that the operational procedures are compatible. During conversion training the total number of approaches required shall not be less than that required to complete Category II training utilising a HUD. During recurrent training and checking the operator may also combine the separate requirements provided the above operational

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		Appendix 1 to SPA.020.LVO
		Low visibility operations — Operating procedures
а		General. Low visibility operations include:
	1	manual take-off (with or without electronic guidance systems or HUDLS/hybrid HUD/HUDLS);
	2	auto-coupled approach to below DH, with manual flare, landing and roll-out;
	3	approach flown with the use of a HUDLS/hybrid HUD/HUDLS and/or EVS);
	4	auto-coupled approach followed by auto-flare, auto landing and manual roll-out; and
	5	auto-coupled approach followed by auto-flare, auto landing and auto-roll-out, when the applicable RVR is less than 400 m.
		Note 1: A hybrid system may be used with any of these modes of operations.
		Note 2: Other forms of guidance systems or displays may be certificated and approved.
b		Procedures and operating instructions
	1	The precise nature and scope of procedures and instructions given depend upon the airborne equipment used and the flight deck procedures followed. The operator must clearly define flight crew member duties during take-off, approach, flare, roll-out and missed approach in the operations manual. Particular emphasis must be placed on flight crew responsibilities during transition from nonvisual conditions to visual conditions, and on the procedures to be used in deteriorating visibility or when failures occur. Special attention must be paid to the distribution of flight deck duties so as to ensure that the workload of the pilot making the decision to land or execute a missed approach enables him/her to devote himself/herself to supervision and the decision making process.
	2	The operator must specify the detailed operating procedures and instructions in the operations manual. The instructions must be compatible with the limitations and mandatory procedures contained in the flight manual and cover the following items in particular:
 	ı ii	checks for the satisfactory functioning of the aircraft equipment, both before departure and in flight; effect on minima caused by changes in the status of the ground installations and airborne equipment;
	iii	procedures for the take-off, approach, flare, landing, roll-out and missed approach;
	iv	procedures to be followed in the event of failures, warnings to include HUD/HUDLS/EVS and other non-normal situations;
	v	the minimum visual reference required;
	vi	the importance of correct seating and eye position;
	vii	action which may be necessary arising from a deterioration of the visual reference;
	viii	allocation of crew duties in the carrying out of the procedures according to subparagraphs (i) to (iv) and (vi) above, to allow the pilot in command to devote himself/herself mainly to supervision and decision making;
	ix	the requirement for all height calls below 200 feet to be based on the radio altimeter and for one pilot to continue to monitor the aircraft instruments until the landing is completed;
	х	the requirement for the Localiser Sensitive Area to be protected;
 -	xi	the use of information relating to wind velocity, wind shear, turbulence, runway contamination and use of multiple RVR assessments;
	xii	procedures to be used for:
	Α	lower than Standard Category I;
	В	other than Standard Category II;
	С	approaches utilising EVS; and
	D	practice approaches and landing on runways at which the full Category II or Category III aerodrome procedures are not in force;
	xiii	operating limitations resulting from airworthiness certification; and
	xiv	information on the maximum deviation allowed from the ILS glide path and/or localiser.

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	Section V – Electronic flight bags (EFBs)		
SPA.001.EFB			EFB equipment
			Where portable EFBs are used on board, the pilot-in-command and/or the operator/owner shall ensure that they do not affect the performance of the aeroplane systems, equipment or the ability to operate the aeroplane
			Note: - Guidance on EFB equipment, functions and establishing criteria for the operational use is contained in ICAO Manual on Electronic Flight Bags (Doc 10020)
SPA.005.EFB			EFB functions
	а		Where EFBs are used on board an aeroplane the pilot-in-command and/or the owner/operator shall:
		1	assess the safety risk(s) associated with each EFB function;
		2	establish the procedures for the use of, and training requirements for, the device and each EFB function; and
		3	ensure that, in the event of an EFB failure, sufficient information is readily available to the flight crew for the flight to be conducted safely.



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Appendix A — [reserved]

			Appendix B — Emergency Equipment
.1			Medical supplies
	а		The following lists provide details of the contents of first-aid, universal precaution and medical kits.
		1	First-aid kit
			List of contents
			Antiseptic swabs (10/pack)
			Bandage: adhesive strips
			Bandage: gauze 7.5 cm x 4.5 m
			Bandage: triangular; safety pins
	+		Dressing: burn 10 cm x 10 cm
	+		Dressing: compress, sterile 7.5 cm x 12 cm
			Dressing: gauze, sterile 10.4 cm x 10.4 cm
			Tape: adhesive 2.5 cm (roll)
			Steri-strips (or equivalent adhesive strip)
			Hand cleanser or cleansing towelettes
			Pad with shield, or tape, for eye
			Scissors: 10 cm (if allowed by local regulations)
			Tape: adhesive, surgical 1.2 cm x 4.6 m
			Tweezers: splinter
	+		Disposable gloves (multiple pairs)
	+	 	Thermometers (non-mercury)
			Mouth-to-mouth resuscitation mask with one-way valve
			First-aid manual, current edition
	-		Incident record form
			The following medications can be included in the first-aid kits where permitted by local regulations:
			Mild to moderate analgesic
			Antiemetic
			Nasal decongestant
			Antacid
			Antihistamine
		2	Universal precaution kü
		_	Dry powder that can convert small liquid spill into a sterile granulated gel
			Germicidal disinfectant for surface cleaning
			Skin wipes
			Face/eye mask (separate or combined)
			Gloves (disposable)
			Protective apron
			Large absorbent towel
			Pick-up scoop with scraper
			Bio-hazard disposal waste bag
			Instructions
		3	Medical kit
		i	Equipment
		<u> </u>	List of contents
	-		Stethoscope
		<u> </u>	
	-		Sphygmomanometer (electronic preferred)
		-	Airways, oropharyngeal (three sizes)
			Syringes (appropriate range of sizes)
			Needles (appropriate range of sizes)
			Intravenous catheters (appropriate range of sizes)
		<u> </u>	Antiseptic wipes
	1		Gloves (disposable)
	1	1	Needle disposal box
			Urinary catheter
	+		System for delivering intravenous fluids
		<u> </u>	
		-	Venous tourniquet
	_		Sponge gauze
			Tape - adhesive
	1	1	Surgical mask
			Emergency tracheal catheter (or large gauge intravenous cannula)

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			Thermometers (non-mercury)
			Basic life support cards Bag-valve mask
			Flashlight and batteries
		ii	Medication
		11	
			Epinephrine 1:1 000
			Antihistamine - injectable
			Dextrose 50 % (or equivalent) - injectable: 50 ml
			Nitroglycerin tablets, or spray
			Major analgesic
			Sedative anticonvulsant - injectable
			Antiemetic - injectable Bronchial dilator - inhaler
			Atropine - injectable
			Adrenocortical steroid - injectable
			Diuretic - injectable
			Medication for postpartum bleeding
			Sodium chloride 0.9 % (minimum 250 ml)
			Acetyl salicylic acid (aspirin) for oral use
			Oral beta blocker
			If a cardiac monitor is available (with or without an AED) add to the above list:
D 7			Epinephrine 1:10 000 (can be a dilution of epinephrine 1:1 000)
B.5		<u> </u>	Life rafts
	a		Life rafts shall be equipped appropriately to the area that the flight covers.
	b	1	Each life raft shall contain the following equipment:
		1	means of maintaining buoyancy; and
		2	a sea anchor; and
		3	lifelines and a means of attaching one life raft to another; and
		4	paddles or other means of propulsion; and
		5	canopy to protect the occupants; and
		6	one radar reflector; and
		7	one life raft repair kit; and
		8	one bailing bucket; and
		9	one inflation pump; and
		10	one magnetic compass; and
		11	one raft knife; and
		12	one liferaft survival pack, equipped in accordance with paragraph 135.B.010.
B.10			Life raft survival pack
	а	-	Each life raft shall carry a survival pack containing the following equipment:
		1	a waterproof flashlight having at least two 'D' cells or equivalent; and
		2	marine type pyrotechnic distress signals; and
	-	3	means of making sea water drinkable; and
		4	for every 4 persons the life raft is designed to carry;
		i	100 gm of glucose toffee tablets; and
		ii	500 ml of fresh water in durable containers, of which a proportion may be provided by means of 135.B.010(a)(3); and
		5	first aid equipment; and
		6	one signalling mirror; and
		7	one whistle; and
		8	one dye marker; and
		9	one fishing kit; and
		10	one book on survival appropriate for the area over which the aircraft is operated.
B.15			Survival beacons
		<u> </u>	Where life rafts are carried, a survival beacon radio shall also be carried in accordance with Table 1 below.
B.20			Survival equipment
	а		Where survival equipment is required to be carried in accordance with paragraph 135.710, the following items shall be included:
		1	Polar conditions:
		i	one survival beacon radio; and
		ii	pyrotechnic distress signals; and
		iii	first aid equipment; and
		iv	one cooking utensil for melting snow; and
		iv v	one cooking utensil for melting snow; and two snow shovels; and
		-	

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1	vii	two sets arctic protective clothing; and
	i	
	ix	one stove for every 75 persons carried; and
	х	for every 4 persons, 100 gm of glucose toffee tablets and 500 ml of fresh water in durable containers.
2	2	Tropical conditions:
	i	one survival beacon radio; and
	ii	pyrotechnic distress signals; and
	iii	first aid equipment; and
	iv	for every 4 persons, 100 gm of glucose toffee tablets and 500 ml of fresh water in durable containers.

Table 1 to B.15

Number of rafts	Number of beacons
1 to 8	2
more than 8	One additional radio for each 4 life rafts or proportion of 4 life rafts





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			Appendix C — Aerial work and specialised operations
C.005			Applicability
			The following requirements apply to applicants for and holders of permissions for the conduct of specialised operations as required under 91.375, 91.380 and 91.390.
C.010			Permissions — General requirements
	а		Every applicant for and holder of a permission shall make available to the Director if requested an operations manual containing such information and instructions as may be necessary to enable employees and persons engaged in the operation to perform their duties.
	b		The operations manual shall include standard operating procedures as described in 91.370.
	С		The permission holder shall make such amendments or additions to the operations manual as the Director may require.
	d		The permission holder shall make the manual available to every employee or person who is engaged or may engage in aerial activities conducted by him.
	e		The permission holder shall ensure that each copy of the operations manual is kept up to date.
	f		The permission holder shall clearly define the duties and accountabilities of those persons responsible for managing the safe operation of aircraft.
	g		The permission holder shall ensure that all employees and persons engaged in the operation are trained and equipped as appropriate to the tasks to be performed.
	h		Notwithstanding 91.155:
		1	the permission holder shall be responsible for operational control; and
		2	operational control shall only be delegated to a flight operations officer/flight dispatcher or the pilot-in-command.

 Appendix D — Rules of the Air

 Rules of the Air are published as Schedule 4 of the Air Navigation (Bailiwick of Guernsey) Law, 2012





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			Appendix E — Performance classes
			The sections of Appendix E contain the technical description of the Performance Classes. The requirement to apply a Performance Class is not contained in the appendix but in the respective GARs.
	1		Appendix E1 Aeroplanes - Performance Class A
E1.005			Take-off
	а		The take-off mass shall not exceed the maximum takeoff mass specified in the aircraft flight manual (AFM) for the pressure altitude and the ambien
	-		temperature at the aerodrome of departure.
	b	1	The following requirements shall be met when determining the maximum permitted take-off mass:
		1	the accelerate-stop distance shall not exceed the accelerate-stop distance available (ASDA);
		2	the take-off distance shall not exceed the take-off distance available, with a clearway distance not exceeding half of the take-off run available (TORA);
		3	the take-off run shall not exceed the TORA;
		4	a single value of Vi shall be used for the rejected and continued take-off; and
		5	on a wet or contaminated runway, the take-off mass shall not exceed that permitted for a take-off on a dry runway under the same conditions.
	с		When showing compliance with (b), the following shall be taken into account:
		1	the pressure altitude at the aerodrome;
		2	the ambient temperature at the aerodrome;
		3	the runway surface condition and the type of runway surface;
		4	the runway slope in the direction of take-off;
		5	not more than 50 % of the reported headwind component or not less than 150 % of the reported tailwind component; and
		6	the loss, if any, of runway length due to alignment of the aeroplane prior to take-off.
E1.010			Take-off obstacle clearance
	a		The net take-off flight path shall be determined in such a way that the aeroplane clears all obstacles by a vertical distance of at least 35 ft or by a horizontal distance of at least 90 m plus 0.125 x D, where D is the horizontal distance the aeroplane has travelled from the end of the take-off distance available (TODA) or the end of the take-off distance if a turn is scheduled before the end of the TODA. For aeroplanes with a wingspan of less than 60 m, a horizontal obstacle clearance of half the aeroplane wingspan plus 60 m, plus 0.125 x D may be used. When showing compliance with (a):
	~	1	The following items shall be taken into account:
		i	the mass of the aeroplane at the commencement of the take-off run;
		ii	
		 iii	the ambient temperature at the aerodrome; and
		iv	not more than 50 % of the reported headwind component or not less than 150 % of the reported tailwind component;
		2	Track changes shall not be allowed up to the point at which the net take-off flight path has achieved a height equal to one half the wingspan but no
		2	less than 50 ft above the elevation of the end of the TORA. Thereafter, up to a height of 400 ft it is assumed that the aeroplane is banked by no more than 15°. Above 400 ft height bank angles greater than 15°, but not more than 25° may be scheduled.
		3	Any part of the net take-off flight path in which the aeroplane is banked by more than 15° shall clear all obstacles within the horizontal distances specified in (a), (b)(6) and (b)(7) by a vertical distance of at least 50 ft.
		4	Operations that apply increased bank angles of not more than 20° between 200 ft and 400 ft, or not more than 30° above 400 ft, shall be carried o in accordance with E1.040.
		5	Adequate allowance shall be made for the effect of bank angle on operating speeds and flight path including the distance increments resulting from increased operating speeds. For cases where the intended flight path does not require track changes of more than 15°, the operator does not need to consider those obstacles
		Ŭ	that have a lateral distance greater than:
		i	300 m, if the pilot is able to maintain the required navigational accuracy through the obstacle accountability area; or
		ii	600 m, for flights under all other conditions.
		7	For cases where the intended flight path requires track changes of more than 15°, the operator does not need to consider those obstacles that hav a lateral distance greater than:
		i	600 m, if the pilot is able to maintain the required navigational accuracy through the obstacle accountability area; or
		ii	900 m, for flights under all other conditions.
	С		The operator shall establish contingency procedures to satisfy the requirements in (a) and (b) and to provide a safe route, avoiding obstacles, to enable the aeroplane to either comply with the en-route requirements of E1.015, or land at either the aerodrome of departure or at a takeoff alternate aerodrome.
1.015			En-route — one-engine-inoperative (OEI)
	а		The OEI en-route net flight path data shown in the AFM, appropriate to the meteorological conditions expected for the flight, shall allow
			demonstration of compliance with (b) or (c) at all points along the route. The net flight path shall have a positive gradient at 1,500 ft above the aerodrome where the landing is assumed to be made after engine failure. In meteorological conditions requiring the operation of ice protection
	Ŀ		systems, the effect of their use on the net flight path shall be taken into account.
	b		The gradient of the net flight path shall be positive at least 1,000 ft above all terrain and obstructions along the route within 5 NM (9.3 km) on eith side of the intended track.
	с		The net flight path shall permit the aeroplane to continue flight from the cruising altitude to an aerodrome where a landing can be made in accordance with E1.025 or E1.030, as appropriate. The net flight path shall clear vertically, by at least 2,000 ft, all terrain and obstructions along the
			route within 5 NM (9.3 km) on either side of the intended track in accordance with the following:
		1	the engine is assumed to fail at the most critical point along the route;
	ļ	2	account is taken of the effects of winds on the flight path;
		3	fuel jettisoning is permitted to an extent consistent with reaching the aerodrome with the required fuel reserves, if a safe procedure is used; and
		4	the aerodrome where the aeroplane is assumed to land after engine failure shall meet the following criteria:
		i	the performance requirements at the expected landing mass are met; and
		ii	weather reports and/or forecasts and field condition reports indicate that a safe landing can be accomplished at the estimated time of landing.
	d		The operator shall increase the width margins of (b) and (c) to 10 NM (18.5 km) if the navigational accuracy does not meet at least required navigation performance 5 (RNP5).

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		-	
	а		At no point along the intended track shall an aeroplane having three or more engines be more than 90 minutes, at the all-engines long range
			cruising speed at standard temperature in still air, away from an aerodrome at which the performance requirements applicable at the expected landing mass are met, unless it complies with (b) to (f).
	b		The two-engines-inoperative en-route net flight path data shall allow the aeroplane to continue the flight, in the expected meteorological
			conditions, from the point where two engines are assumed to fail simultaneously to an aerodrome at which it is possible to land and come to a
			complete stop when using the prescribed procedure for a landing with two engines inoperative. The net flight path shall clear vertically, by at least $2,000$ ft all targets and obstructions along the route within $5,000$ ft all targets and obstructions along the route within $5,000$ ft all targets and obstructions along the route within $5,000$ ft all targets and obstructions along the route within $5,000$ ft all targets and obstructions along the route within $5,000$ ft all targets and obstructions along the route within $5,000$ ft all targets and be the route within $5,000$ ft all targets and be the route within $5,000$ ft all targets and be the route within $5,000$ ft all targets and be the route within $5,000$ ft all targets and be the route within $5,000$ ft all targets and $5,000$ ft al
			2,000 ft, all terrain and obstructions along the route within 5 NM (9.3 km) on either side of the intended track. At altitudes and in meteorological conditions requiring ice protection systems to be operable, the effect of their use on the net flight path data shall be taken into account. If the
			navigational accuracy does not meet at least RNP5, the operator shall increase the width margin given above to 10 NM (18.5 km).
	С		The two engines shall be assumed to fail at the most critical point of that portion of the route where the aeroplane is more than 90 minutes, at the
			all-engines long range cruising speed at standard temperature in still air, away from an aerodrome at which the performance requirements
	d	-	applicable at the expected landing mass are met. The net flight path shall have a positive gradient at 1,500 ft above the aerodrome where the landing is assumed to be made after the failure of two
	ŭ		engines.
	е		Fuel jettisoning shall be permitted to an extent consistent with reaching the aerodrome with the required fuel reserves, if a safe procedure is used.
	f		The expected mass of the aeroplane at the point where the two engines are assumed to fail shall not be less than that which would include
			sufficient fuel to proceed to an aerodrome where the landing is assumed to be made, and to arrive there at least 1,500 ft directly over the landing
E1.025			area and thereafter to fly level for 15 minutes. Landing — destination and alternate aerodromes
	а	-	The landing mass of the aeroplane determined in accordance with 121/135.560 shall not exceed the maximum landing mass specified for the
	a		altitude and the ambient temperature expected for the estimated time of landing at the destination aerodrome and alternate aerodrome.
E1.030			Landing — dry runways
	а		The landing mass of the aeroplane determined in accordance with 121/135.560 for the estimated time of landing at the destination aerodrome and
		i	at any alternate aerodrome shall allow a full stop landing from 50 ft above the threshold:
		-	for turbo-jet powered aeroplanes, within 60 % of the landing distance available (LDA); and
	-	2	for turbo-propeller powered aeroplanes, within 70 % of the LDA.
	b		For steep approach operations, the operator shall use the landing distance data factored in accordance with (a), based on a screen height of less than 60 ft, but not less than 35 ft, and shall comply with 121/135.555.
	с		For short landing operations, the operator shall use the landing distance data factored in accordance with (a) and shall comply with 121/135.550.
	d		When determining the landing mass, the operator shall take the following into account:
		1	the altitude at the aerodrome;
		2	not more than 50 % of the headwind component or not less than 150 % of the tailwind component; and
		3	the runway slope in the direction of landing if greater than ± 2 %.
	e		For dispatching the aeroplane it shall be assumed that:
		1	the aeroplane will land on the most favourable runway, in still air; and
		2	the aeroplane will land on the runway most likely to be assigned, considering the probable wind speed and direction, the ground handling
			characteristics of the aeroplane and other conditions such as landing aids and terrain.
	f		If the operator is unable to comply with (e)(1) for a destination aerodrome having a single runway where a landing depends upon a specified wind
			component, the aeroplane may be dispatched if two alternate aerodromes are designated that permit full compliance with (a) to (e). Before commencing an approach to land at the destination aerodrome, the commander shall check that a landing can be made in full compliance with (a)
			to (d) and E1.025.
	g		If the operator is unable to comply with (e)(2) for the destination aerodrome, the aeroplane shall be only dispatched if an alternate aerodrome is
E1.035		-	designated that allows full compliance with (a) to (e). Landing — wet and contaminated runways
	а		When the appropriate weather reports and/or forecasts indicate that the runway at the estimated time of arrival may be wet, the LDA shall be at
			least 115 % of the required landing distance, determined in accordance with E1.030.
	b		When the appropriate weather reports and/or forecasts indicate that the runway at the estimated time of arrival may be contaminated, the LDA
			shall be at least the landing distance determined in accordance with (a), or at least 115 % of the landing distance determined in accordance with
			approved contaminated landing distance data or equivalent, whichever is greater. The operator shall specify in the operations manual if equivalent landing distance data are to be applied.
	С		A landing distance on a wet runway shorter than that required by (a), but not less than that required by E1.030(a), may be used if the AFM includes
	-1		specific additional information about landing distances on wet runways.
	d		A landing distance on a specially prepared contaminated runway shorter than that required by (b), but not less than that required by E3.030(a), may be used if the AFM includes specific additional information about landing distances on contaminated runways.
	e		For (b), (c) and (d), the criteria of E1.030 shall be applied accordingly, except that E1.030(a) shall not be applied to (b) above.
E1.040			Approval of operations with increased bank angles
	а		Operations with increased bank angles require prior approval by the competent authority.
	b		To obtain the approval, the operator shall provide evidence that the following conditions are met:
	1	1	the AFM contains approved data for the required increase of operating speed and data to allow the construction of the flight path considering the
			increased bank angles and speeds;
			visual guidance is available for navigation accuracy;
		2	
		3	weather minima and wind limitations are specified for each runway; and
			weather minima and wind limitations are specified for each runway; and the flight crew has obtained adequate knowledge of the route to be flown and of the procedures to be used in accordance with Subpart I and J.
		3	weather minima and wind limitations are specified for each runway; and the flight crew has obtained adequate knowledge of the route to be flown and of the procedures to be used in accordance with Subpart I and J. Appendix E2 Aeroplanes - Performance Class B
E2.005		3	weather minima and wind limitations are specified for each runway; and the flight crew has obtained adequate knowledge of the route to be flown and of the procedures to be used in accordance with Subpart I and J. Appendix E2 Aeroplanes - Performance Class B T ake-off
E2.005	a	3	weather minima and wind limitations are specified for each runway; and the flight crew has obtained adequate knowledge of the route to be flown and of the procedures to be used in accordance with Subpart I and J. Appendix E2 Aeroplanes - Performance Class B T ake-off The take-off mass shall not exceed the maximum takeoff mass specified in the aircraft flight manual (AFM) for the pressure altitude and the ambie
E2.005	a b	3	weather minima and wind limitations are specified for each runway; and the flight crew has obtained adequate knowledge of the route to be flown and of the procedures to be used in accordance with Subpart I and J. Appendix E2 Aeroplanes - Performance Class B T ake-off
E2.005		3	weather minima and wind limitations are specified for each runway; and the flight crew has obtained adequate knowledge of the route to be flown and of the procedures to be used in accordance with Subpart I and J. Appendix E2 Aeroplanes - Performance Class B T ake-off The take-off mass shall not exceed the maximum takeoff mass specified in the aircraft flight manual (AFM) for the pressure altitude and the ambie temperature at the aerodrome of departure. The unfactored take-off distance, specified in the AFM, shall not exceed:
E2.005		3 4	weather minima and wind limitations are specified for each runway; and the flight crew has obtained adequate knowledge of the route to be flown and of the procedures to be used in accordance with Subpart I and J. Appendix E2 Aeroplanes - Performance Class B T ake-off The take-off mass shall not exceed the maximum takeoff mass specified in the aircraft flight manual (AFM) for the pressure altitude and the ambie temperature at the aerodrome of departure. The unfactored take-off distance, specified in the AFM, shall not exceed: when multiplied by a factor of 1.25, the take-off run available (TORA); or
E2.005		3 4	weather minima and wind limitations are specified for each runway; and the flight crew has obtained adequate knowledge of the route to be flown and of the procedures to be used in accordance with Subpart I and J. Appendix E2 Aeroplanes - Performance Class B T ake-off The take-off mass shall not exceed the maximum takeoff mass specified in the aircraft flight manual (AFM) for the pressure altitude and the ambie temperature at the aerodrome of departure. The unfactored take-off distance, specified in the AFM, shall not exceed: when multiplied by a factor of 1.25, the take-off run available (TORA); or when stop way and/or clearway is available, the followmgg
E2.005		3 4 1 2 i	weather minima and wind limitations are specified for each runway; and the flight crew has obtained adequate knowledge of the route to be flown and of the procedures to be used in accordance with Subpart I and J. Appendix E2 Aeroplanes - Performance Class B T ake-off The take-off mass shall not exceed the maximum takeoff mass specified in the aircraft flight manual (AFM) for the pressure altitude and the ambie temperature at the aerodrome of departure. The unfactored take-off distance, specified in the AFM, shall not exceed: when multiplied by a factor of 1.25, the take-off run available (TORA); or when stop way and/or clearway is available, the followmgg the TORA;
E2.005		3 4	weather minima and wind limitations are specified for each runway; and the flight crew has obtained adequate knowledge of the route to be flown and of the procedures to be used in accordance with Subpart I and J. Appendix E2 Aeroplanes - Performance Class B T ake-off The take-off mass shall not exceed the maximum takeoff mass specified in the aircraft flight manual (AFM) for the pressure altitude and the ambie temperature at the aerodrome of departure. The unfactored take-off distance, specified in the AFM, shall not exceed: when multiplied by a factor of 1.25, the take-off run available (TORA); or when stop way and/or clearway is available, the followmgg the TORA; when multiplied by a factor of 1.15, the take-off distance available (TODA); or
E2.005		3 4 1 2 ii	weather minima and wind limitations are specified for each runway; and the flight crew has obtained adequate knowledge of the route to be flown and of the procedures to be used in accordance with Subpart I and J. Appendix E2 Aeroplanes - Performance Class B T ake-off The take-off mass shall not exceed the maximum takeoff mass specified in the aircraft flight manual (AFM) for the pressure altitude and the ambient temperature at the aerodrome of departure. The unfactored take-off distance, specified in the AFM, shall not exceed: when multiplied by a factor of 1.25, the take-off run available (TORA); or when stop way and/or clearway is available, the followmgg the TORA;

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		2	the pressure altitude at the aerodrome;
		3	the ambient temperature at the aerodrome;
		4	the runway surface condition and the type of runway surface;
		5	the runway slope in the direction of take-off; and
		6	not more than 50 % of the reported headwind component or not less than 150 % of the reported tailwind component^
2.010			Take-off obstacle clearance — multi-engined aeroplanes
	а		The take-off flight path of aeroplanes with two or more engines shall be determined in such a way that the aeroplane clears all obstacles by a vertical distance of at least 50 ft, or by a horizontal distance of at least 90 m plus 0.125 x D, where D is the horizontal distance travelled by the aeroplane from the end of the TODA or the end of the take-off distance if a turn is scheduled before the end of the TODA, except as provided in (k and (c). For aeroplanes with a wingspan of less than 60 m, a horizontal obstacle clearance of half the aeroplane wingspan plus 60 m plus 0.125 x D.
		1	may be used. It shall be assumed that: the take-off flight path begins at a height of 50 ft above the surface at the end of the take-off distance required by E4.005(b) and ends at a height 1,500 ft above the surface;
		2	the aeroplane is not banked before the aeroplane has reached a height of 50 ft above the surface, and thereafter the angle of bank does not exce 15°;
		3	failure of the critical engine occurs at the point on the all engine take-off flight path where visual reference for the purpose of avoiding obstacles expected to be lost;
		4 5	the gradient of the take-off flight path from 50 ft to the assumed engine failure height is equal to the average allengines gradient during climb and transition to the en-route configuration, multiplied by a factor of 0.77; and the gradient of the take-off flight path from the height reached in accordance with (a)(4) to the end of the takeoff flight path is equal to the OEI e route climb gradient shown in the AFM.
	b	1	For cases where the intended flight path does not require track changes of more than 15°, the operator does not need to consider those obstacle that have a lateral distance greater than: 300 m, if the flight is conducted under conditions allowing visual course guidance navigation, or if navigational aids are available enabling the pilo
	-	2	to maintain the intended flight path with the same accuracy; or 600 m, for flights under all other conditions.
	с		For cases where the intended flight path requires track changes of more than 15°, the operator does not need to consider those obstacles that has a lateral distance greater than:
		1	600 m, for flights under conditions allowing visual course guidance navigation; or
		2	900 m, for flights under all other conditions.
	d		When showing compliance with (a) to (c), the following shall be taken into account:
		1	the mass of the aeroplane at the commencement of the take-off run;
		2	the pressure altitude at the aerodrome;
		3	the ambient temperature at the aerodrome; and
		4	not more than 50 % of the reported headwind component or not less than 150 % of the reported tailwind component.
2.015			En-route — multi-engined aeroplanes
	а		The aeroplane, in the meteorological conditions expected for the flight and in the event of the failure of one engine, with the remaining engines operating within the maximum continuous power conditions specified, shall be capable of continuing flight at or above the relevant minimum altitudes for safe flight stated in the operations manual to a point of 1,000 ft above an aerodrome at which the performance requirements can be met.
	b	1	It shall be assumed that, at the point of engine failure: the aeroplane is not flying at an altitude exceeding that at which the rate of climb equals 300 ft per minute with all engines operating within the
		2	maximum continuous power conditions specified; and the en-route gradient with OEI shall be the gross gradient of descent or climb, as appropriate, respectively increased by a gradient of 0.5 %, or
			decreased by a gradient of 0.5 %.
2.020			En-route — single-engined aeroplanes
	a		In the meteorological conditions expected for the flight, and in the event of engine failure, the aeroplane shall be capable of reaching a place at which a safe forced landing can be made. For landplanes, a place on land is required unless otherwise approved by the Director.
	b	1	It shall be assumed that, at the point of engine failure:
		1	the aeroplane is not flying at an altitude exceeding that at which the rate of climb equals 300 ft per minute, with the engine operating within the maximum continuous power conditions specified; and
		2	the en-route gradient is the gross gradient of descent increased by a gradient of 0.5 %.
2.025			Landing — destination and alternate aerodromes
			The landing mass of the aeroplane determined in accordance with 121/135.560 shall not exceed the maximum landing mass specified for the altitude and the ambient temperature expected at the estimated time of landing at the destination aerodrome and alternate aerodrome.
2.030			Landing — dry runways
	а		The landing mass of the aeroplane determined in accordance with 121/135.560 for the estimated time of landing at the destination aerodrome a
		1	at any alternate aerodrome shall allow a full stop landing from 50 ft above the threshold within 70 % of the LDA taking into account: the altitude at the aerodrome;
		2	not more than 50 % of the headwind component or not less than 150 % of the tailwind component;
		2	the runway surface condition and the type of runway surface; and
		4	the runway slope in the direction of landing.
	b c		For steep approach operations, the operator shall use landing distance data factored in accordance with (a) based on a screen height of less than ft, but not less than 35 ft, and comply with 121/135.555. For short landing operations, the operator shall use landing distance data factored in accordance with (a) and comply with 121/135.550.
	d		For dispatching the aeroplane in accordance with (a) to (c), it shall be assumed that:
	u	1	the aeroplane will land on the most favourable runway, in still air; and
		1	
		2	the aeroplane will land on the runway most likely to be assigned considering the probable wind speed and direction, the ground handling characteristics of the aeroplane and other conditions such as landing aids and terrain.
	е		If the operator is unable to comply with (d)(2) for the destination aerodrome, the aeroplane shall only be dispatched if an alternate aerodrome is designated that permits full compliance with (a) to (d).
E2.035			Landing — wet and contaminated runways

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	b		When the appropriate weather reports and/or forecasts indicate that the runway at the estimated time of arrival may be contaminated, the landir
			distance shall not exceed the LDA. The operator shall specify in the operations manual the landing distance data to be applied.
	с		A landing distance on a wet runway shorter than that required by (a), but not less than that required by E2.030(a), may be used if the AFM include specific additional information about landing distances on wet runways.
2.040			Take-off and landing climb requirements
			The operator of a two-engined aeroplane shall fulfil the following take-off and landing climb requirements; except that a two-engined aeroplane
	-		that does not meet these climb requirements shall be treated as a single-engined aeroplane.
	а	1	Take-off climb
		1	All engines operating The steady gradient of climb after take-off shall be at least 4 % with:
		A	take-off power on each engine;
		B	the landing gear extended, except that if the landing gear can be retracted in not more than seven seconds, it may be assumed to be retracted;
		D C	the wing flaps in the take-off position(s); and
		D	a climb speed not less than the greater of 1.1 Vmc (minimum control speed on or near ground) and 1.2 VSi (stall speed or minimum steady flight
		U	speed in the landing configuration).
		2	One-engine-inoperative (OEI)
		i	The steady gradient of climb at an altitude of 400 ft above the take-off surface shall be measurably positive with:
		А	the critical engine inoperative and its propeller in the minimum drag position;
		В	the remaining engine at take-off power;
		С	the landing gear retracted;
		D	the wing flaps in the take-off position(s); and
		E	a climb speed equal to that achieved at 50 ft.
		ii	The steady gradient of climb shall be not less than 0.75 % at an altitude of 1,500 ft above the take-off surface with:
		А	the critical engine inoperative and its propeller in the minimum drag position;
		В	the remaining engine at not more than maximum continuous power;
		С	the landing gear retracted;
		D	the wing flaps retracted; and
		Ε	a climb speed not less than 1.2 Vs1.
	b		Landing climb
		1	All engines operating
		i	The steady gradient of climb shall be at least 2.5 % with:
		Α	not more than the power or thrust that is available eight seconds after initiation of movement of the power controls from the minimum flight idle
		В	position; the landing gear extended;
		C	the wing flaps in the landing position; and
		D	a climb speed equal to VREF (reference landing speed).
		2	One-engine-inoperative (OEI)
		- i	The steady gradient of climb shall be not less than 0.75 % at an altitude of 1,500 ft above the landing surface with:
		A	the critical engine inoperative and its propeller in the minimum drag position;
		В	the remaining engine at take-off power;
		С	the landing gear retracted;
		D	the wing flaps in the take-off position(s); and
		E	a climb speed equal to that achieved at 50 ft.
		ii	The steady gradient of climb shall be not less than 0.75 % at an altitude of 1,500 ft above the take-off surface with:
		А	the critical engine inoperative and its propeller in the minimum drag position;
+		В	the remaining engine at not more than maximum continuous power;
-+		C	the landing gear retracted;
		D	the wing flaps retracted; and
		E	a climb speed not less than 1.2 Vs1.
			Appendix E3 Aeroplanes - Performance Class C
3.005			Take-off
	а		The take-off mass shall not exceed the maximum takeoff mass specified in the aircraft flight manual (AFM) for the pressure altitude and the ambi
			temperature at the aerodrome of departure.
	b		For aeroplanes that have take-off field length data contained in their AFM that do not include engine failure accountability, the distance from the start of the take-off roll required by the aeroplane to reach a height of 50 ft above the surface with all engines operating within the maximum tak
			off power conditions specified, when multiplied by a factor of either:
		1	1.33 for aeroplanes having two engines;
		2	1.25 for aeroplanes having three engines; or
		3	1.18 for aeroplanes having four engines,
			shall not exceed the take-off run available (TORA) at the aerodrome at which the take-off is to be made.
	С		For aeroplanes that have take-off field length data contained in their AFM which accounts for engine failure, the following requirements shall be
	C		met in accordance with the specifications in the AFM:
	ŭ	4	
		1	the accelerate-stop distance shall not exceed the ASDA;
	0	2	the take-off distance shall not exceed the take-off distance available (TODA), with a clearway distance not exceeding half of the TORA;
		2 3	the take-off distance shall not exceed the take-off distance available (TODA), with a clearway distance not exceeding half of the TORA; the take-off run shall not exceed the TORA;
		2	the take-off distance shall not exceed the take-off distance available (TODA), with a clearway distance not exceeding half of the TORA;

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	T	1	the pressure altitude at the aerodrome:
		1	the pressure altitude at the aerodrome;
		2	the ambient temperature at the aerodrome;
	<u> </u>	3	the runway surface condition and the type of runway surface; the runway slope in the direction of take-off;
		5	not more that 50 % of the reported headwind component or not less than 150 % of the reported tailwind component; and
53.040		6	the loss, if any, of runway length due to alignment of the aeroplane prior to take-off.
E3.010			Take-off obstacle clearance
	а		The take-off flight path with OEI shall be determined such that the aeroplane clears all obstacles by a vertical distance of at least 50 ft plus 0.01 x D or by a horizontal distance of at least 90 m plus 0.125 x D, where D is the horizontal distance the aeroplane has travelled from the end of the TODA For aeroplanes with a wingspan of less than 60 m, a horizontal obstacle clearance of half the aeroplane wingspan plus 60 m plus 0.125 x D may be used.
	b		The take-off flight path shall begin at a height of 50 ft above the surface at the end of the take-off distance required by E3.005 (b) or (c), as applicable, and end at a height of 1,500 ft above the surface.
	с		When showing compliance with (a), the following shall be taken into account:
	t	1	the mass of the aeroplane at the commencement of the take-off run;
		2	the pressure altitude at the aerodrome;
		3	the ambient temperature at the aerodrome; and
		4	not more than 50 % of the reported headwind component or not less than 150 % of the reported tailwind component.
	d		Track changes shall not be allowed up to that point of the take-off flight path where a height of 50 ft above the surface has been achieved.
	e		Thereafter, up to a height of 400 ft it is assumed that the aeroplane is banked by no more than 15°. Above 400 ft height bank angles greater than 15°, but not more than 25°, may be scheduled. Adequate allowance shall be made for the effect of bank angle on operating speeds and flight path, including the distance increments resulting from increased operating speeds. For cases that do not require track changes of more than 15°, the operator does not need to consider those obstacles that have a lateral distance
	е		greater than:
		1	300 m, if the pilot is able to maintain the required navigational accuracy through the obstacle accountability area; or
	1	2	600 m, for flights under all other conditions.
	f		For cases that do require track changes of more than 15°, the operator does not need to consider those obstacles that have a lateral distance
			greater than:
		1	600 m, if the pilot is able to maintain the required navigational accuracy through the obstacle accountability area; or
		2	900 m, for flights under all other conditions.
	g		The operator shall establish contingency procedures to satisfy (a) to (f) and to provide a safe route, avoiding obstacles, to enable the aeroplane to either comply with the en-route requirements of E3.015, or land at either the aerodrome of departure or at a take-off alternate aerodrome.
E3.015			En-route — all engines operating
	а		In the meteorological conditions expected for the flight, at any point on its route or on any planned diversion therefrom, the aeroplane shall be capable of a rate of climb of at least 300 ft per minute with all engines operating within the maximum continuous power conditions_s£ecifiedat^
		1	the minimum altitudes for safe flight on each stage of the route to be flown, or of any planned diversion therefrom, specified in or calculated from
			the information contained in the operations manual relating to the aeroplane; and
		2	the minimum altitudes necessary for compliance with the conditions prescribed in E3.020 and E3.025, as appropriate.
E3.020			En-route — one-engine-inoperative (OEI)
	а		In the meteorological conditions expected for the flight, in the event of any one engine becoming inoperative at any point on its route or on any planned diversion therefrom and with the other engine(s) operating within the maximum continuous power conditions specified, the aeroplane shall be capable of continuing the flight from the cruising altitude to an aerodrome where a landing can be made in accordance with E3.035 or E3.040, as appropriate. The aeroplane shall clear obstacles within 5 NM (9.3 km) either side of the intended track by a vertical interval of at least:
		1	1,000 ft, when the rate of climb is zero or greater; or
		2	2,000 ft, when the rate of climb is less than zero.
	b		The flight path shall have a positive slope at an altitude of 1,500 ft (450 m) above the aerodrome where the landing is assumed to be made after the failure of one engine.
	С		The available rate of climb of the aeroplane shall be taken to be 150 ft per minute less than the gross rate of climb specified.
	d		The width margins of (a) shall be increased to 10 NM (18.5 km) if the navigational accuracy does not meet at least RNP 5.
	е		Fuel jettisoning is permitted to an extent consistent with reaching the aerodrome with the required fuel reserves, if a safe procedure is used.
E3.025			En-route — aeroplanes with three or more engines, two engines inoperative
	а		At no point along the intended track shall an aeroplane having three or more engines be more than 90 minutes, at the all-engines long range cruising speed at standard temperature in still air, away from an aerodrome at which the performance requirements applicable at the expected landing mass are met, unless it complies with (b) to (e).
	b		The two-engines-inoperative flight path shall permit the aeroplane to continue the flight, in the expected meteorological conditions, clearing all obstacles within 5 NM (9.3 km) either side of the intended track by a vertical interval of at least 2,000 ft, to an aerodrome at which the performance requirements applicable at the expected landing mass are met.
	С		The two engines are assumed to fail at the most critical point of that portion of the route where the aeroplane is more than 90 minutes, at the all- engines long range cruising speed at standard temperature in still air, away from an aerodrome at which the performance requirements applicable at the expected landing mass are met.
	d		The expected mass of the aeroplane at the point where the two engines are assumed to fail shall not be less than that which would include sufficient fuel to proceed to an aerodrome where the landing is assumed to be made, and to arrive there at an altitude of a least 1,500 ft (450 m) directly over the landing area and thereafter to fly level for 15 minutes.
	e		The available rate of climb of the aeroplane shall be taken to be 150 ft per minute less than that specified.
	f		The width margins of (b) shall be increased to 10 NM (18.5 km) if the navigational accuracy does not meet at least RNP 5.
			The width margins of (b) shall be increased to 10 NM (18.5 km) if the navigational accuracy does not meet at least RNP 5. Fuel jettisoning is permitted to an extent consistent with reaching the aerodrome with the required fuel reserves, if a safe procedure is used.
E3.030	f		The width margins of (b) shall be increased to 10 NM (18.5 km) if the navigational accuracy does not meet at least RNP 5. Fuel jettisoning is permitted to an extent consistent with reaching the aerodrome with the required fuel reserves, if a safe procedure is used. Landing — destination and alternate aerodromes
E3.030	f		The width margins of (b) shall be increased to 10 NM (18.5 km) if the navigational accuracy does not meet at least RNP 5. Fuel jettisoning is permitted to an extent consistent with reaching the aerodrome with the required fuel reserves, if a safe procedure is used. Landing — destination and alternate aerodromes The landing mass of the aeroplane determined in accordance with 121/135.560 shall not exceed the maximum landing mass specified in the AFM for the altitude and, if accounted for in the AFM, the ambient temperature expected for the estimated time of landing at the destination aerodrome
	f		The width margins of (b) shall be increased to 10 NM (18.5 km) if the navigational accuracy does not meet at least RNP 5. Fuel jettisoning is permitted to an extent consistent with reaching the aerodrome with the required fuel reserves, if a safe procedure is used. Landing — destination and alternate aerodromes The landing mass of the aeroplane determined in accordance with 121/135.560 shall not exceed the maximum landing mass specified in the AFM for the altitude and, if accounted for in the AFM, the ambient temperature expected for the estimated time of landing at the destination aerodrom and alternate aerodrome.
E3.030 E3.035	f		The width margins of (b) shall be increased to 10 NM (18.5 km) if the navigational accuracy does not meet at least RNP 5. Fuel jettisoning is permitted to an extent consistent with reaching the aerodrome with the required fuel reserves, if a safe procedure is used. Landing — destination and alternate aerodromes The landing mass of the aeroplane determined in accordance with 121/135.560 shall not exceed the maximum landing mass specified in the AFM for the altitude and, if accounted for in the AFM, the ambient temperature expected for the estimated time of landing at the destination aerodrom

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		2	not more than 50 % of the headwind component or not less than 150 % of the tailwind component;
		3	the type of runway surface; and
		4	the slope of the runway in the direction of landing.
	b		For dispatching the aeroplane it shall be assumed that:
		1	the aeroplane will land on the most favourable runway in still air; and
		2	the aeroplane will land on the runway most likely to be assigned considering the probable wind speed and direction, the ground handling
	с		characteristics of the aeroplane and other conditions such as landing aids and terrain. If the operator is unable to comply with (b)(2) for the destination aerodrome, the aeroplane shall only be dispatched if an alternate aerodrome is
	Ũ		designated that permits full compliance with (a) and (b).
E3.040			Landing — wet and contaminated runways
	а		When the appropriate weather reports and/or forecasts indicate that the runway at the estimated time of arrival may be wet, the LDA shall be equal to or exceed the required landing distance, determined in accordance with E3.035, multiplied by a factor of 1.15.
	b		When the appropriate weather reports and/or forecasts indicate that the runway at the estimated time of arrival may be contaminated, the landing distance shall not exceed the LDA. The operator shall specify in the operations manual the landing distance data to be applied.
			Appendix E4 Helicopters - Performance Class General
E4.005			Significant performance factors
			To determine the performance of the helicopter, account should be taken of at least the following factors:
	а		mass of the helicopter;
	b		pressure-altitude and temperature; and
	с		wind:
		1	except as provided in (3), for take-off, take-off flight path and landing requirements, accountability for wind shall be no more than 50 % of any
		2	reported steady headwind component of 5 kt or more; where take-off and landing with a tailwind component is permitted in the aircraft flight manual (AFM), and in all cases for the take-off flight path,
		3	not less than 150 % of any reported tailwind component shall be taken into account; and where precise wind measuring equipment enables accurate measurement of wind velocity over the point of take-off and landing, wind components
			in excess of 50 % may be established by the operator, provided that the operator demonstrates to the competent authority that the proximity to
E4.010			the FATO and accuracy enhancements of the wind measuring equipment provide an equivalent level of safety. Obstacle accountability
24.010	а		For the purpose of obstacle clearance requirements, an obstacle located beyond the FATO, in the take-off flight path, or the missed approach flight
	-	1	path shall be considered if its lateral distance from the nearest point on the surface below the intended flight path is not further than the following: For operations under VFR:
		i	half of the minimum width defined in the AFM - or, when no width is defined, '0.75 x D', where D is the largest dimension of the helicopter when the rotors are turning;
		ii	plus, the greater of '0.25 x D' or '3 m';
		iii	plus:
		Α	0.10 x distance DR for operations under VFR by day; or
		В	0.15 x distance DR for operations under VFR at night.
		2	For operations under IFR:
		i	'1.5 D' or 30 m, whichever is greater, plus:
		Α	0.10 x distance DR, for operations under IFR with accurate course guidance;
		В	0.15 x distance DR, for operations under IFR with standard course guidance; or
		C	0.30 x distance DR for operations under IFR without course guidance.
		ii	When considering the missed approach flight path, the divergence of the obstacle accountability area only applies after the end of the take-off distance available.
		3	For operations with initial take-off conducted visually and converted to IFR/IMC at a transition point, the criteria required in (1) apply up to the transition point, and the criteria required in (2) apply after the transition point. The transition point cannot be located before the end of the take-off distance required for helicopters (TODRH) operating in performance class 1 or before the defined point after take-off (DPATO) for helicopters operating in performance class 1 or before the defined point after take-off (DPATO) for helicopters operating in performance class 2.
	b		For take-off using a back-up or a lateral transition procedure, for the purpose of obstacle clearance requirements, an obstacle located in the back-up or lateral transition area shall be considered if its lateral distance from the nearest point on the surface below the intended flight path is not further than:
	1	1	half of the minimum width defined in the AFM or, when no width is defined, '0.75 x D';
	1	2	plus the greater of '0.25 x D' or '3 m';
		3	plus:
		i	for operations under VFR by day 0.10 x the distance travelled from the back of the FATO, or
		ii	for operations under VFR at night 0.15 x the distance travelled from the back of the FATO.
	с		Obstacles may be disregarded if they are situated beyond:
	1	1	7 x rotor radius (R) for day operations, if it is assured that navigational accuracy can be achieved by reference to suitable visual cues during the climb;
		2	10 x R for night operations, if it is assured that navigational accuracy can be achieved by reference to suitable visual cues during the climb;
		3	300 m if navigational accuracy can be achieved by appropriate navigation aids; or
		4	900 m in all other cases.
			Appendix E5 Helicopters - Performance Class 1
E5.005			Take-off
	a b		The take-off mass shall not exceed the maximum takeoff mass specified in the AFM for the procedure to be used. The take-off mass shall be such that:
		1	it is possible to reject the take-off and land on the FATO in case of the critical engine failure being recognised at or before the take-off decision point (TDP);
	1	2	the rejected take-off distance required (RTODRH) does not exceed the rejected take-off distance available (RTODAH); and
		3	the TODRH does not exceed the take-off distance available (TODAH).
	1	4	Notwithstanding (b)(3), the TODRH may exceed the TODAH if the helicopter, with the critical engine failure recognised at TDP can, when continuing
			the take-off, clear all obstacles to the end of the TODRH by a vertical margin of not less than 35 ft (10.7 m).

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	С		When showing compliance with (a) and (b), account shall be taken of the appropriate parameters of 135.505(a), 135.505(b) and E4.005 at the aerodrome or operating site of departure.
	d		That part of the take-off up to and including TDP shall be conducted with the surface in sight so that a rejected take-off can be carried out.
	е		For take-off using a backup or lateral transition procedure, with the critical engine failure recognition at or before the TDP, all obstacles in the back
			up or lateral transition area shall be cleared by an adequate margin.
5.010			Take-off flight path
	а		From the end of the TODRH with the critical engine failure recognised at the TDP:
		1	The take-off mass shall be such that the take-off flight path provides a vertical clearance, above all obstacles located in the climb path, of not less than 35 ft (10.7 m) for operations under VFR and 35 ft (10.7 m) + 0.01 x distance DR for operations under IFR. Only obstacles as specified in E4.010 have to be considered.
		2	Where a change of direction of more than 15° is made, adequate allowance shall be made for the effect of bank angle on the ability to comply with the obstacle clearance requirements. This turn is not to be initiated before reaching a height of 200 ft (61 m) above the takeoff surface unless it is part of an approved procedure in the AFM.
	b		When showing compliance with (a), account shall be taken of the appropriate parameters of 135.505(a), 135.505(b) and E4.005 at the aerodrome
5.015			operating site of departure. En-route — critical engine inoperative
	а		The mass of the helicopter and flight path at all points along the route, with the critical engine inoperative and the meteorological conditions
	5		expected for the flight, shall permit compliance with (1), (2) or (3):
		1	When it is intended that the flight will be conducted at any time out of sight of the surface, the mass of the helicopter permits a rate of climb of at least 50 ft/minute with the critical engine inoperative at an altitude of at least 1,000 ft (300 m), or 2,000 ft (600 m) in areas of mountainous terrain above all terrain and obstacles along the route within 5 NM (9.3 km) on either side of the intended track.
		2	When it is intended that the flight will be conducted without the surface in sight, the flight path permits the helicopter to continue flight from the cruising altitude to a height of 1,000 ft (300 m) above a landing site where a landing can be made in accordance with E7.020. The flight path clears vertically, by at least 1,000 ft (300 m) or 2,000 ft (600 m) in areas of mountainous terrain, all terrain and obstacles along the route within 5 NM (9.
			km) on either side of the intended track. Drift-down techniques may be used.
		3	When it is intended that the flight will be conducted in VMC with the surface in sight, the flight path permits the helicopter to continue flight from the cruising altitude to a height of 1,000 ft (300 m) above a landing site where a landing can be made in accordance with E5.020, without flying at any time below the appropriate minimum flight altitude. Obstacles within 900 m on either side of the route need to be considered.
5.020			Landing
	а		The landing mass of the helicopter at the estimated time of landing shall not exceed the maximum mass specified in the AFM for the procedure to
	b		be used. In the event of the critical engine failure being recognised at any point at or before the landing decision point (LDP), it is possible either to land an
	-		stop within the FATO, or to perform a balked landing and clear all obstacles in the flight path by a vertical margin of 35 ft (10.7 m). Only obstacles specified in E4.010 have to be considered.
	С		In the event of the critical engine failure being recognised at any point at or after the LDP, it is possible to:
		1	clear all obstacles in the approach path; and
		2	land and stop within the FATO.
	d e		When showing compliance with (a) to (c), account shall be taken of the appropriate parameters of 135.505(a), 135.505(b) and E4.005 for the estimated time of landing at the destination aerodrome or operating site, or any alternate if required. That part of the landing from the LDP to touchdown shall be conducted with the surface in sight.
6.005	e		When showing compliance with (a) to (c), account shall be taken of the appropriate parameters of 135.505(a), 135.505(b) and E4.005 for the estimated time of landing at the destination aerodrome or operating site, or any alternate if required. That part of the landing from the LDP to touchdown shall be conducted with the surface in sight. Appendix E6 Helicopters - Performance Class 2 Operations without an assured safe forced landing capability
6.005			When showing compliance with (a) to (c), account shall be taken of the appropriate parameters of 135.505(a), 135.505(b) and E4.005 for the estimated time of landing at the destination aerodrome or operating site, or any alternate if required. That part of the landing from the LDP to touchdown shall be conducted with the surface in sight. Appendix E6 Helicopters - Performance Class 2
6.005	e	1	When showing compliance with (a) to (c), account shall be taken of the appropriate parameters of 135.505(a), 135.505(b) and E4.005 for the estimated time of landing at the destination aerodrome or operating site, or any alternate if required. That part of the landing from the LDP to touchdown shall be conducted with the surface in sight. Appendix E6 Helicopters - Performance Class 2 Operations without an assured safe forced landing capability To obtain and maintain approval for operations without an assured safe forced landing capability during the takeoff and landing phases the
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6.010	e	i ii 2 ii iii iv v 3	When showing compliance with (a) to (c), account shall be taken of the appropriate parameters of 135.505(a), 135.505(b) and E4.005 for the estimated time of landing from the LOP to touchdown shall be conducted with the surface in sight. Appendix E6 Helicopters - Performance Class 2 Operations without an assured safe forced landing capability Comparison of the surface of the sur
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E6.020			En-route — critical engine inoperative
			The requirement of E5.015 shall be complied with.
E6.025			Landing
	а		The landing mass at the estimated time of landing shall not exceed the maximum mass specified for a rate of climb of 150 ft/min at 1,000 ft (300 m) above the level of the aerodrome or operating site with the critical engine inoperative and the remaining engine(s) operating at an appropriate power rating.
	b		If the critical engine fails at any point in the approach path:
		1	a balked landing can be carried out meeting the requirement of E6.015; or
		2	for operations other than those specified in E6.005, the helicopter can perform a safe forced landing.
	С		For operations in accordance with E6.005, in addition to the requirements of (a):
		1	the landing mass shall not exceed the maximum mass specified in the AFM for an AEO OGE hover in still air with all engines operating at an appropriate power rating.
		2	for operations to a helideck:
		i	with a helicopter that has an MAPSC of more than 19; or
		ii	any helicopter operated to a helideck located in a hostile environment,
			the landing mass shall take into account the procedure and drop down appropriate to the height of the helideck with the critical engine inoperative and the remaining engine(s) operating at an appropriate power rating.
	d		When showing compliance with (a) to (c), account shall be taken of the appropriate parameters of 135.505(a), 135.505(b) and E4.005 at the destination aerodrome or any alternate, if required.
	е		That part of the landing after which the requirement of (b)(1) cannot be met shall be conducted with the surface in sight.
			Appendix E7 Helicopters - Performance Class 3
E7.005			Operations without an assured safe forced landing capability
	а		Provided the operator has conducted and recorded risk assessments as described in E6.005 (a)(1) and (b), operations may be conducted to/from an aerodrome or operating site located outside a congested hostile environment without an assured safe forced landing capability^
		1	during take-off, before reaching Vy (speed for best rate of climb) or 200 ft above the take-off surface; or
		2	during landing, below 200 ft above the landing surface.
E7.010			Take-off
	а		The take-off mass shall be the lower of:
		1	the MTOM; or
		2	the maximum take-off mass specified for a hover in ground effect with all engines operating at take-off power, or if conditions are such that a hover in ground effect is not likely to be established, the take-off mass specified for a hover out of ground effect with all engines operating at take-off power.
	b		Except as provided in E7.005, in the event of an engine failure the helicopter shall be able to perform a safe forced landing.
E7.015			En-route
	а		The helicopter shall be able, with all engines operating within the maximum continuous power conditions, to continue along its intended route or to a planned diversion without flying at any point below the appropriate minimum flight altitude.
	b		In the event of an engine failure the helicopter shall be able to perform a safe forcedknding.
E7.020			Landing
	а		The landing mass of the helicopter at the estimated time of landing shall be the lower of:
		1	the maximum certified landing mass; or
		2	the maximum landing mass specified for a hover in ground effect, with all engines operating at take-off power, or if conditions are such that a hover in ground effect is not likely to be established, the landing mass for a hover out of ground effect with all engines operating at take-off power.
	b		Except as provided in E7.005, in the event of an engine failure, the helicopter shall be able to perform a safe forced landing.

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			Appendix F — Fatigue Risk Management System Requirements The sections of Appendix F contain the requirmeents for a fatigue risk management system as required by GARs.
F.005			FRMS policy and documentation
			FRMS policy
	а		The operator shall define its FRMS policy, with all elements of the FRMS clearly identified.
	b		The policy shall require that the scope of FRMS operations be clearly defined in the operations manual.
	С		The policy shall:
		1	reflect the shared responsibility of management, flight and cabin crews, and other involved personnel;
		2	clearly state the safety objectives of the FRMS
		3	be signed by the accountable executive of the organization;
		4	be communicated, with visible endorsement, to all the relevant areas and levels of the organization;
		5	declare management commitment to effective safety reporting;
		6	declare management commitment to the provision of adequate resources for the FRMS;
		7	declare management commitment to continuous improvement of the FRMS;
		8	require that clear lines of accountability for management, flight and cabin crews, and all other involved personnel are
			identified; and
		9	require periodic reviews to ensure it remains relevant and appropriate
			FRMS documentation
	d		An operator shall develop and keep current FRMS documentation that describes and records:
		1	FRMS policy and objectives;
		2	FRMS processes and procedures;
		3	accountabilities, responsibilities and authorities for these processes and procedures;
		4	mechanisms for ongoing involvement of management, flight and cabin crew members, and all other involved
			personnel;
		5	FRMS training programmes, training requirements and attendance records;
		6	scheduled and actual flight times, duty periods and rest periods with significant deviations and reasons for deviations
		7	noted; and FRMS outputs including findings from collected data, recommendations, and actions taken.
F.010		ŕ	Fatigue risk management processes
010	-		Identification of hazards
	а		An operator shall develop and maintain three fundamental and documented processes for fatigue hazard identification:
		1	Predictive The predictive process shall identify fatigue hazards by examining crew scheduling and taking into account factors known to affect sleep and fatig and their effects on performance. Methods of examination may include but are not limited to: operator or industry operational experience and data collected on similar types of operations;
	-	li	evidence-based scheduling practices; and
		lii	bio-mathematical models.
		2 	Proactive The proactive process shall identify fatigue hazards within current flight operations. Methods of examination may include but are not limited to: self-reporting of fatigue risks;
		li	crew fatigue surveys
		lii	relevant flight and cabin crew performance data;
		lv	available safety databases and scientific studies; and
		v	analysis of planned versus actual time worked.
		3	Reactive
		5	The reactive process shall identify the contribution of fatigue hazards to reports and events associated with potential negative safety consequence
		i	in order to determine how the impact of fatigue could have been minimized. At a minimum, the process may be triggered by any of the following fatigue reports;
		li	confidential reports;
		lii	audit reports
		lv	incidents; and
		v	flight data analysis events.
			Risk assessment
	b		An operator shall develop and implement risk assessment procedures that determine the probability and potential severity of fatigue-related even
	+	1	and identify when the associated risks require mitigation. The risk assessment procedures shall review identified hazards and link them to:
		-	operational processes;
		1	
		li	their probability
		lii	possible consequences; and
		lv	the effectiveness of existing safety barriers and controls
			Risk mitigation
	С		An operator shall develop and implement risk mitigation procedures that:
		1	select the appropriate mitigation strategies;
		2	implement the mitigation strategies; and
	1	3	monitor the strategies' implementation and effectiveness.
	-	ł	
F.015			FRMS safety assurance processes

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		1	provide for continuous FRMS performance monitoring, analysis of trends, and measurement to validate the effectiveness of the fatigue safety risk controls. The sources of data may include, but are not limited to:
		2	hazard reporting and investigations;
		3	audits and surveys; and
		4	reviews and fatigue studies;
	b		provide a formal process for the management of change which shall include but is not limited to:
		1	identification of changes in the operational environment that may affect FRMS;
		2	identification of changes within the organization that may affect FRMS; and
		3	consideration of available tools which could be used to maintain or improve FRMS performance prior to implementing changes; and
	с		provide for the continuous improvement of the FRMS. This shall include but is not limited to:
		1	the elimination and/or modification of risk controls that have had unintended consequences or that are no longer needed due to changes in the operational or organizational environment;
		2	routine evaluations of facilities, equipment, documentation and procedures; and
		3	the determination of the need to introduce new processes and procedures to mitigate emerging fatigue-related risks
F.020			FRMS promotion processes
	а		FRMS promotion processes support the ongoing development of the FRMS, the continuous improvement of its overall performance, and attainment of optimum safety levels. The following shall be established and implemented by the operator as part of its FRMS:
		1	training programmes to ensure competency commensurate with the roles and responsibilities of management, flight and cabin crew, and all other involved personnel under the planned FRMS; and
		2	an effective FRMS communication plan that:
		3	explains FRMS policies, procedures and responsibilities to all relevant stakeholders; and
		4	describes communication channels used to gather and disseminate FRMS-related information.







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