

Title in Table of Contents			Relevance to UAVs	Action needed	Notes / conclusion
JAR-OPS	A 1.001	Applicability	I	Adapt text	
JAR-OPS	B 1.005	General	A	Adapt text	
JAR-OPS	B 1.010	Exemptions	A	None	
JAR-OPS	B 1.015	Operational Directives	A	None	
JAR-OPS	B 1.020	Laws, Regulations and Procedures – Operator's Responsibilities	A	None	
JAR-OPS	B 1.025	Common Language	A	None	
JAR-OPS	B 1.030	Minimum Equipment Lists – Operator's Responsibilities	A	None	
JAR-OPS	B 1.035	Quality system	A	None	
JAR-OPS	B 1.037	Accident prevention and flight safety programme	A	None	
JAR-OPS	B 1.040	Additional crew members	A	Adapt text	Delete cabin crew members
JAR-OPS	B 1.050	Search and rescue information	A	None	E.g. telephone numbers of authorities to be informed
JAR-OPS	B 1.055	Information on emergency and survival equipment carried	N/A	None	
JAR-OPS	B 1.060	Ditching	N/A	None	
JAR-OPS	B 1.065	Carriage of weapons of war and munitions of war	P/A	Adapt text	Delete passenger items
JAR-OPS	B 1.070	Carriage of sporting weapons and ammunition	N/A	None	UAVs do not carry passengers
JAR-OPS	B 1.075	Method of carriage of persons	N/A	None	
JAR-OPS	B 1.080	Offering dangerous goods for transport by air	A	None	
JAR-OPS	B 1.085	Crew responsibilities	P/A	Adapt text	Delete paragraphs about passengers and deep water diving
JAR-OPS	B 1.090	Authority of the commander	N/A	None	No passengers on board
JAR-OPS	B 1.100	Admission to flight deck	I	Adapt text	Change flight deck to UAV Control Station
JAR-OPS	B 1.105	Unauthorised carriage	A	None	
JAR-OPS	B 1.110	Portable electronic devices	I	Adapt text	No electronic devices in Control Station
JAR-OPS	B 1.115	Alcohol and drugs	I	Adapt text	No drunks in Control Station
JAR-OPS	B 1.120	Endangering safety	I	Adapt text	No endangering safety in Control Station
JAR-OPS	B 1.125	Documents to be carried	P/A	Adapt text	
JAR-OPS	B 1.130	Manuals to be carried	P/A	Adapt text	Control Station in stead of flight deck
JAR-OPS	B 1.135	Additional information and forms to be carried	P/A	Adapt text	Documents applicable for UAVs
JAR-OPS	B 1.140	Information retained on the ground	N/A	None	
JAR-OPS	B 1.145	Power to inspect	P/A	Adapt text	
JAR-OPS	B 1.150	Production of documentation and records	P/A	Adapt text	Change on board to control station
JAR-OPS	B 1.155	Preservation of documentation	A	None	
JAR-OPS	B 1.160	Preservation, production and use of flight recorder recordings	A	see Recorders	
JAR-OPS	B 1.165	Leasing	A	None	
JAR-OPS	C 1.175	General rules for Air Operator Certification	I	see Operator Certification	
JAR-OPS	C 1.180	Issue, variation and continued validity of an AOC	A	None	
JAR-OPS	C 1.185	Administrative requirements	A	None	

Title in Table of Contents			Relevance to UAVs	Action needed	Notes / conclusion
JAR-OPS	D 1.195	Operational Control and Supervision	A	None	
JAR-OPS	D 1.200	Operations manual	A	None	
JAR-OPS	D 1.205	Competence of operations personnel	A	None	
JAR-OPS	D 1.210	Establishment of procedures	A	None	
JAR-OPS	D 1.215	Use of Air Traffic Services	A	None	
JAR-OPS	D 1.220	Authorisation of Aerodromes by the Operator	A	None	
JAR-OPS	D 1.225	Aerodrome Operating Minima	A	None	
JAR-OPS	D 1.230	Instrument departure and approach procedures	A	None	
JAR-OPS	D 1.235	Noise abatement procedures	A	None	
JAR-OPS	D 1.240	Routes and areas of operation	A	None	
JAR-OPS	D 1.241	Operation in defined airspace with Reduced Vertical Separation Minima (RVSM)	A	None	
JAR-OPS	D 1.243	Operations in areas with specific navigation performance requirements	A	see Equipment	
JAR-OPS	D 1.245	Maximum distance from an adequate aerodrome for two-engined aeroplanes without an ETOPS Approval	N/A	see Alternates	ETOPS needs not to be addressed, only Alternates.
JAR-OPS	D 1.246	Extended range operations with two-engined aeroplanes (ETOPS)	N/A	None	ETOPS needs not to be addressed, only Handover.
JAR-OPS	D 1.250	Establishment of minimum flight altitudes	A	None	
JAR-OPS	D 1.255	Fuel policy	A	None	
JAR-OPS	D 1.260	Carriage of Persons with Reduced Mobility	N/A	None	
JAR-OPS	D 1.265	Carriage of inadmissible passengers, deportees or persons in custody	N/A	None	
JAR-OPS	D 1.270	Stowage of baggage and cargo	N/A	None	
JAR-OPS	D 1.280	Passenger Seating	N/A	None	
JAR-OPS	D 1.285	Passenger briefing	N/A	None	
JAR-OPS	D 1.290	Flight preparation	P/A	Adapt text	Delete oxygen requirements
JAR-OPS	D 1.295	Selection of aerodromes	I	see Alternates	
JAR-OPS	D 1.297	Planning minima for IFR flights	I	see Low Visibility Operations	
JAR-OPS	D 1.300	Submission of ATS Flight Plan	A	None	
JAR-OPS	D 1.305	Refuelling/defuelling with passengers embarking, on board or disembarking	N/A	None	
JAR-OPS	D 1.307	Refuelling/Defuelling with wide-cut fuel	A	None	
JAR-OPS	D 1.310	Crew Members at stations	P/A	Adapt text	
JAR-OPS	D 1.315	Assisting means for emergency evacuation	N/A	None	
JAR-OPS	D 1.320	Seats, safety belts and harnesses	N/A	None	
JAR-OPS	D 1.325	Securing of passenger cabin and galley(s)	N/A	None	
JAR-OPS	D 1.330	Accessibility of emergency equipment	A	None	
JAR-OPS	D 1.335	Smoking on board	N/A	None	
JAR-OPS	D 1.340	Meteorological Conditions	A	None	
JAR-OPS	D 1.345	Ice and other contaminants	A	None	
JAR-OPS	D 1.346	[Ice and other contaminants – flight procedures	A	None	

Title in Table of Contents			Identification of Subjects		Notes / conclusion
			Relevance to UAVs	Action needed	
JAR-OPS	D 1.350	Fuel and oil supply	A	None	Article is only valid with passengers on board
JAR-OPS	D 1.355	Take-off conditions	A	None	
JAR-OPS	D 1.360	Application of take-off minima	A		
JAR-OPS	D 1.365	Minimum flight altitudes	A	None	
JAR-OPS	D 1.370	Simulated abnormal situations in flight	N/A	None	
JAR-OPS	D 1.375	In-flight fuel management	A	None	No persons on board
JAR-OPS	D 1.385	Use of supplemental oxygen	N/A	None	
JAR-OPS	D 1.390	Cosmic radiation	N/A	None	
JAR-OPS	D 1.395	Ground proximity detection	A	see Collision Avoidance	
JAR-OPS	D 1.398	[Use of Airborne Collision Avoidance System (ACAS)	A	see Collision Avoidance	
JAR-OPS	D 1.400	Approach and landing conditions	A	None	
JAR-OPS	D 1.405	Commencement and continuation of approach	A	None	
JAR-OPS	D 1.410	Operating procedures – Threshold crossing height	A	None	
JAR-OPS	D 1.415	Journey log	A	None	
JAR-OPS	D 1.420	Occurrence reporting	P/A	Adapt text	
JAR-OPS	E 1.430	Aerodrome Operating Minima – General	A	None	
JAR-OPS	E 1.435	Terminology	A	None	
JAR-OPS	E 1.440	Low visibility operations – General operating rules	I	see Low Visibility Operations	
JAR-OPS	E 1.445	Low visibility operations – Aerodrome considerations	I	see Low Visibility Operations	
JAR-OPS	E 1.450	Low visibility operations – Training and Qualifications	I	see Low Visibility Operations	
JAR-OPS	E 1.455	Low visibility operations – Operating Procedures	I	see Low Visibility Operations	
JAR-OPS	E 1.460	Low visibility operations – Minimum equipment	I	see Low Visibility Operations	
JAR-OPS	E 1.465	VFR Operating minima	I	Adapt text	
JAR-OPS	F 1.470	Applicability	I	see Performance	
JAR-OPS	F 1.475	General	I	see Performance	
JAR-OPS	F 1.480	Terminology	I	see Performance	
JAR-OPS	G 1.485	General	I	see Performance	
JAR-OPS	G 1.490	Take-off	I	see Performance	
JAR-OPS	G 1.495	Take-off obstacle clearance	I	see Performance	
JAR-OPS	G 1.500	En-route – One Engine Inoperative	I	see Performance	
JAR-OPS	G 1.505	En-route – Aeroplanes With Three Or More Engines, Two Engines Inoperative	I	see Performance	
JAR-OPS	G 1.510	Landing – Destination And Alternate Aerodromes	I	see Performance	
JAR-OPS	G 1.515	Landing – Dry Runways	I	see Performance	
JAR-OPS	G 1.520	Landing – Wet and contaminated runways	I	see Performance	
JAR-OPS	H 1.525	General	I	see Performance	
JAR-OPS	H 1.530	Take-off	I	see Performance	
JAR-OPS	H 1.535	Take-off Obstacle Clearance – Multi-Engined Aeroplanes	I	see Performance	
JAR-OPS	H 1.540	En-Route – Multi-engined aeroplanes	I	see Performance	
JAR-OPS	H 1.542	En-Route – Single-engine aeroplanes	I	see Performance	

Title in Table of Contents			Relevance to UAVs	Action needed	Notes / conclusion
JAR-OPS	H 1.545	Landing – Destination and Alternate Aerodromes	I	see Performance	
JAR-OPS	H 1.550	Landing – Dry runway	I	see Performance	
JAR-OPS	H 1.555	Landing – Wet and Contaminated Runways	I	see Performance	
JAR-OPS	I 1.560	General	I	see Performance	
JAR-OPS	I 1.565	Take-off	I	see Performance	
JAR-OPS	I 1.570	Take-off Obstacle Clearance	I	see Performance	
JAR-OPS	I 1.575	En-Route – All Engines Operating	I	see Performance	
JAR-OPS	I 1.580	En-Route – One Engine Inoperative	I	see Performance	
JAR-OPS	I 1.585	En-Route – Aeroplanes With Three Or More Engines, Two Engines Inoperative	I	see Performance	
JAR-OPS	I 1.590	Landing – Destination and Alternate Aerodromes	I	see Performance	
JAR-OPS	I 1.595	Landing – Dry Runways	I	see Performance	
JAR-OPS	I 1.600	Landing – Wet and Contaminated Runways	I	see Performance	
JAR-OPS	J 1.605	General	P/A	Adapt text	No passengers
JAR-OPS	J 1.607	Terminology	A	None	
JAR-OPS	J 1.610	Loading, mass and balance	A	None	
JAR-OPS	J 1.615	Mass values for crew	N/A	None	
JAR-OPS	J 1.620	Mass values for passengers and baggage	N/A	None	
JAR-OPS	J 1.625	Mass and balance documentation	A	None	
JAR-OPS	K 1.630	General introduction	P/A	Adapt text	Delete passenger related equipment
JAR-OPS	K 1.635	Circuit protection devices	I	see Circuit Protection	
JAR-OPS	K 1.640	Aeroplane operating lights	P/A	Adapt text	No need for crew or passenger lights, adapt a2 for control station
JAR-OPS	K 1.645	Windshield wipers	I	see Windshield Wipers	
JAR-OPS	K 1.650	Day VFR operations – Flight and navigational instruments and associated equipment	I	see Equipment	
JAR-OPS	K 1.652	IFR or night operations – Flight and navigational instruments and associated equipment	I	see Equipment	
JAR-OPS	K 1.655	Additional equipment for single pilot operation under IFR	I	see Equipment	Is dependent upon required skills and experience for an UAV pilot
JAR-OPS	K 1.660	Altitude alerting system	I	see Collision Avoidance	
JAR-OPS	K 1.665	Ground proximity warning system	I	see Collision Avoidance	
JAR-OPS	K 1.668	Airborne Collision Avoidance System	I	see Collision Avoidance	
JAR-OPS	K 1.670	Airborne weather radar equipment	I	see Equipment	
JAR-OPS	K 1.675	Equipment for operations in icing conditions	A	None	
JAR-OPS	K 1.680	Cosmic radiation detection equipment	N/A	None	
JAR-OPS	K 1.685	Flight crew interphone system	N/A	None	
JAR-OPS	K 1.690	Crew member interphone system	N/A	None	
JAR-OPS	K 1.695	Public address system	N/A	None	
JAR-OPS	K 1.700	Cockpit voice recorders–1	I	see Recorders	
JAR-OPS	K 1.705	Cockpit voice recorders–2	I	see Recorders	
JAR-OPS	K 1.710	Cockpit voice recorders–3	I	see Recorders	

Title in Table of Contents			Relevance to UAVs	Action needed	Notes / conclusion
JAR-OPS	K 1.715	Flight data recorders–1	I	see Recorders	
JAR-OPS	K 1.720	Flight data recorders–2	I	see Recorders	
JAR-OPS	K 1.725	Flight data recorders–3	I	see Recorders	
JAR-OPS	K 1.727	Combination Recorder	I	see Recorders	
JAR-OPS	K 1.730	Seats, seat safety belts, harnesses and child restraint devices	N/A	None	
JAR-OPS	K 1.731	Fasten Seat belt and No Smoking signs	N/A	None	
JAR-OPS	K 1.735	Internal doors and curtains	N/A	None	
JAR-OPS	K 1.745	First-Aid Kits	N/A	see First Aid Equipment	To be regulated in normal ARBO regulations
JAR-OPS	K 1.755	Emergency Medical Kit	N/A	see First Aid Equipment	Regulated in ARBO
JAR-OPS	K 1.760	First-aid oxygen	N/A	None	
JAR-OPS	K 1.770	Supplemental oxygen – pressurised aeroplanes	N/A	None	
JAR-OPS	K 1.775	Supplemental oxygen – Non-pressurised aeroplanes	N/A	None	
JAR-OPS	K 1.780	Crew Protective Breathing Equipment	N/A	None	
JAR-OPS	K 1.790	Hand fire extinguishers	N/A	None	A/W certification should address control station fires
JAR-OPS	K 1.795	Crash axes and crowbars	N/A	None	
JAR-OPS	K 1.800	Marking of break-in points	N/A	None	
JAR-OPS	K 1.805	Means for emergency evacuation	N/A	None	
JAR-OPS	K 1.810	Megaphones	N/A	None	
JAR-OPS	K 1.815	Emergency lighting	N/A	None	
JAR-OPS	K 1.820	Emergency Locator Transmitter	N/A	None	
JAR-OPS	K 1.825	Life Jackets	N/A	None	
JAR-OPS	K 1.830	Life-rafts and survival ELTs for extended overwater flights	N/A	None	
JAR-OPS	K 1.835	Survival equipment	N/A	None	
JAR-OPS	K 1.840	Seaplanes and amphibians – Miscellaneous equipment	A	None	
JAR-OPS	L 1.845	General introduction	A	None	
JAR-OPS	L 1.850	Radio Equipment	A	see Equipment	
JAR-OPS	L 1.855	Audio Selector Panel	A	None	
JAR-OPS	L 1.860	Radio equipment for operations under VFR over routes navigated by reference to visual landmarks	A	None	
JAR-OPS	L 1.865	Communication and Navigation equipment for operations under IFR, or under VFR over routes not navigated by reference to visual landmarks	I	see Equipment	
JAR-OPS	L 1.866	[Transponder equipment]	I	see Equipment	
JAR-OPS	L 1.870	Additional navigation equipment for operations in MNPS airspace	A	None	

Title in Table of Contents			Relevance to UAVs	Action needed	Notes / conclusion
JAR-OPS	L 1.872	Equipment for operation in defined airspace with Reduced Vertical Separation Minima (RVSM)	A	None	
JAR-OPS	M 1.875	General	A	None	
JAR-OPS	M 1.880	Terminology	A	None	
JAR-OPS	M 1.885	Application for and approval of the operator's maintenance system	A	None	
JAR-OPS	M 1.890	Maintenance responsibility	A	None	
JAR-OPS	M 1.895	Maintenance Management	A	None	
JAR-OPS	M 1.900	Quality System	A	None	
JAR-OPS	M 1.905	Operator's Maintenance Management Exposition	A	None	
JAR-OPS	M 1.910	Operator's Aeroplane Maintenance Programme	A	None	
JAR-OPS	M 1.915	Operator's Aeroplane Technical Log	A	None	
JAR-OPS	M 1.920	Maintenance Records	A	None	
JAR-OPS	M 1.930	Continued Validity of the Air Operator Certificate in Respect of the Maintenance System	A	None	
JAR-OPS	M 1.935	Equivalent Safety Case	A	None	
JAR-OPS	N 1.940	Composition of Flight Crew	I	see Crew Composition	
JAR-OPS	N 1.943	Initial Operator's Crew Resource Management (CRM) training]	I	see Training	
JAR-OPS	N 1.945	Conversion training and checking	I	see Training	
JAR-OPS	N 1.950	Differences training and Familiarisation training	I	see Training	
JAR-OPS	N 1.955	Nomination as commander	I	see Responsibilities and handover	
JAR-OPS	N 1.960	Commanders holding a Commercial Pilot Licence	I	see Responsibilities and handover	
JAR-OPS	N 1.965	Recurrent training and checking	I	see Training	
JAR-OPS	N 1.968	Pilot qualification to operate in either pilot's seat	I	see Training	
JAR-OPS	N 1.970	Recent experience	I	see Experience	
JAR-OPS	N 1.975	Route and Aerodrome Competence qualification]	I	see Training	
JAR-OPS	N 1.978	Advanced Qualification Programme	I	see Training	
JAR-OPS	N 1.980	Operation on more than one type or variant	I	see Multiple Type Ratings	
JAR-OPS	N 1.981	Operation of helicopters and aeroplanes	I	see Multiple Type Ratings	
JAR-OPS	N 1.985	Training records	I	see Training	
JAR-OPS	O 1.988	Applicability	N/A	None	
JAR-OPS	O 1.990	Number and composition of cabin crew	N/A	None	No passengers
JAR-OPS	O 1.995	Minimum requirements	N/A	None	
JAR-OPS	O 1.1000	Senior cabin crew members	N/A	None	
JAR-OPS	O 1.1005	Initial training	N/A	None	
JAR-OPS	O 1.1010	Conversion and Differences training	N/A	None	
JAR-OPS	O 1.1012	Familiarisation flights	N/A	None	
JAR-OPS	O 1.1015	Recurrent training	N/A	None	
JAR-OPS	O 1.1020	Refresher training	N/A	None	

Title in Table of Contents			Relevance to UAVs	Action needed	Notes / conclusion
JAR-OPS	O 1.1025	Checking	N/A	None	
JAR-OPS	O 1.1030	Operation on more than one type or variant	N/A	None	
JAR-OPS	O 1.1035	Training records	N/A	None	
JAR-OPS	P 1.1040	General Rules for Operations Manuals	A	None	
JAR-OPS	P 1.1045	Operations Manual – structure and contents	A	None	
JAR-OPS	P 1.1050	Aeroplane Flight Manual	A	None	
JAR-OPS	P 1.1055	Journey log	A	None	
JAR-OPS	P 1.1060	Operational flight plan	A	None	
JAR-OPS	P 1.1065	Document storage periods	A	None	
JAR-OPS	P 1.1070	Operator's maintenance management exposition	A	None	
JAR-OPS	P 1.1071	Aeroplane Technical Log	A	None	
JAR-OPS	R 1.1150	Terminology	A	None	
JAR-OPS	R 1.1155	Approval to Transport Dangerous Goods	A	None	
JAR-OPS	R 1.1160	Scope	A	None	
JAR-OPS	R 1.1165	Limitations on the Transport of Dangerous Goods	A	None	
JAR-OPS	R 1.1170	Classification	A	None	
JAR-OPS	R 1.1175	Packing	A	None	
JAR-OPS	R 1.1180	Labelling and Marking	A	None	
JAR-OPS	R 1.1185	Dangerous Goods Transport Document	A	None	
JAR-OPS	R 1.1200	Inspection for Damage, Leakage or Contamination	A	None	
JAR-OPS	R 1.1205	Removal of Contamination	A	None	
JAR-OPS	R 1.1210	Loading Restrictions	A	None	
JAR-OPS	R 1.1215	Provision of Information	A	None	
JAR-OPS	R 1.1200	Training programmes	A	None	
JAR-OPS	R 1.1225	Dangerous Goods Incident and Accident Reports	A	None	
JAR-OPS	S 1.1235	Security requirements	A	None	
JAR-OPS	S 1.1240	Training programmes	A	None	
JAR-OPS	S 1.1245	Reporting acts of unlawful interference	A	None	
JAR-OPS	S 1.1250	Aeroplane search procedure checklist	A	None	
JAR-OPS	S 1.1255	Flight crew compartment security	I	Adapt text	Control station capable of being locked
JAR-FCL	A 1.001	Definitions and Abbreviations	A	None	
JAR-FCL	A 1.005	Applicability	A	Adapt text	
JAR-FCL	A 1.010	Basic authority to act as a flight crew member	I	see Licenses and ratings	
JAR-FCL	A 1.015	Acceptance of licences, ratings, authorisations, approvals or certificates	A	None	
JAR-FCL	A 1.016	Credit given to a holder of a licence issued by a non-JAA State	N/A	None	
JAR-FCL	A 1.017	Authorisations/Ratings for special purposes	I	see Licenses and ratings	
JAR-FCL	A 1.020	Credit for military service	A	None	
JAR-FCL	A 1.025	Validity of licences and ratings	I	see Licenses and ratings	
JAR-FCL	A 1.026	Recent experience for pilots not operating in accordance with JAR-OPS 1	I	see Experience	

Title in Table of Contents			Identification of Subjects	Relevance to UAVs	Action needed	Notes / conclusion
JAR-FCL	A 1.030	Arrangements for testing	I		see Theoretical knowledge, skill and examination	
JAR-FCL	A 1.035	Medical fitness	I		see Medical Fitness	
JAR-FCL	A 1.040	Decrease in medical fitness	I		see Medical Fitness	
JAR-FCL	A 1.045	Special circumstances	A		None	
JAR-FCL	A 1.050	Crediting of flight time and theoretical knowledge	I		see Theoretical knowledge, skill and examination	
JAR-FCL	A 1.055	Training organisations and registered facilities	A		Adapt text	
JAR-FCL	A 1.060	Curtailment of privileges of licence holders aged 60 years or more	I		see Age	
JAR-FCL	A 1.065	State of licence issue	A		None	
JAR-FCL	A 1.070	Normal residency	A		None	
JAR-FCL	A 1.075	Format and specifications for flight crew licences	A		None	
JAR-FCL	A 1.080	Recording of flight time	A		None	
JAR-FCL	B 1.085	Requirements	A		None	
JAR-FCL	B 1.090	Minimum age	I		see Age	
JAR-FCL	B 1.095	Medical fitness	I		see Medical Fitness	
JAR-FCL	C 1.100	Minimum age	I		see Age	
JAR-FCL	C 1.105	Medical fitness	I		see Medical Fitness	
JAR-FCL	C 1.110	Privileges and conditions	I		see Licenses and ratings	
JAR-FCL	C 1.120	Experience and crediting	I		see Experience	
JAR-FCL	C 1.125	Training course	I		see Training	
JAR-FCL	C 1.130	Theoretical knowledge examination	I		see Theoretical knowledge, skill and examination	
JAR-FCL	C 1.135	Skill	I		see Theoretical knowledge, skill and examination	
JAR-FCL	D 1.140	Minimum age	I		see Age	
JAR-FCL	D 1.145	Medical fitness	I		see Medical Fitness	
JAR-FCL	D 1.150	Privileges and conditions	I		see Licenses and ratings	
JAR-FCL	D 1.155	Experience and crediting	I		see Experience	
JAR-FCL	D 1.160	Theoretical knowledge	I		see Theoretical knowledge, skill and examination	
JAR-FCL	D 1.165	Flight instruction	I		see Training	
JAR-FCL	D 1.170	Skill	I		see Theoretical knowledge, skill and examination	
JAR-FCL	E 1.174	[Medical Fitness]	I		see Medical Fitness	
JAR-FCL	E 1.175	Circumstances in which an IR(A) is required	A		None	
JAR-FCL	E 1.180	Privileges and conditions	I		see Licenses and ratings	
JAR-FCL	E 1.185	Validity, revalidation and renewal	I		see Licenses and ratings	
JAR-FCL	E 1.190	Experience	I		see Experience	
JAR-FCL	E 1.195	Theoretical knowledge	I		see Theoretical knowledge, skill and examination	

Title in Table of Contents			Relevance to UAVs	Action needed	Notes / conclusion
JAR-FCL	E 1.200	Use of English language	I	see Theoretical knowledge, skill and examination	
JAR-FCL	E 1.205	Flight instruction	I	see Training	
JAR-FCL	E 1.210	Skill	I	see Theoretical knowledge, skill and examination	
JAR-FCL	F 1.215	Class ratings (A)	I	see Licenses and ratings	
JAR-FCL	F 1.220	Type ratings (A)	I	see Licenses and ratings	
JAR-FCL	F 1.225	Circumstances in which type or class ratings are required	I	see Licenses and ratings	
JAR-FCL	F 1.230	Special authorisation of type or class ratings	I	see Licenses and ratings	
JAR-FCL	F 1.235	Type and class ratings – Privileges, number and variants	I	see Licenses and ratings	
JAR-FCL	F 1.240	Type and class ratings – Requirements	I	see Licenses and ratings	
JAR-FCL	F 1.245	Type and class ratings – Validity, revalidation and renewal	I	see Licenses and ratings	
JAR-FCL	F 1.250	Type rating, multi-pilot – Conditions	I	see Experience	
JAR-FCL	F 1.255	Type rating, single-pilot – Conditions	I	see Experience	
JAR-FCL	F 1.260	Class rating – Conditions	I	see Experience	
JAR-FCL	F 1.261	Type and class ratings – Knowledge and flight instruction	I	see Training	
JAR-FCL	F 1.261	Type and class ratings – Knowledge and flight instruction	I	see Theoretical knowledge, skill and examination	
JAR-FCL	F 1.262	Type and class ratings – Skill	I	see Theoretical knowledge, skill and examination	
JAR-FCL	G 1.265	Minimum age	I	see Age	
JAR-FCL	G 1.270	Medical fitness	I	see Medical Fitness	
JAR-FCL	G 1.275	Privileges and conditions	I	see Licenses and ratings	
JAR-FCL	G 1.280	Experience and crediting	I	see Experience	
JAR-FCL	G 1.285	Theoretical knowledge	I	see Theoretical knowledge, skill and examination	
JAR-FCL	G 1.290	Flight instruction	I	see Training	
JAR-FCL	G 1.295	Skill	I	see Theoretical knowledge, skill and examination	
JAR-FCL	H 1.300	Instruction – General	I	see Licenses and ratings	
JAR-FCL	H 1.305	Instructor ratings and authorisation – Purposes	I	see Licenses and ratings	
JAR-FCL	H 1.310	Instructor ratings – General	I	see Licenses and ratings	
JAR-FCL	H 1.315	Instructor ratings and authorisations – Period of validity	I	see Licenses and ratings	
JAR-FCL	H 1.320	Flight Instructor rating (aeroplane) (FI(A)) – Minimum age	I	see Age	
JAR-FCL	H 1.325	FI(A) – Restricted privileges	I	see Licenses and ratings	
JAR-FCL	H 1.330	FI(A) – Privileges and requirements	I	see Licenses and ratings	

Title in Table of Contents			Identification of Subjects	Action needed	Notes / conclusion
			Relevance to UAVs		
JAR-FCL	H 1.335	FI(A) – Pre-requisite requirements	I	see Experience	
JAR-FCL	H 1.340	FI(A) – Course	I	see Training	
JAR-FCL	H 1.345	FI(A) – Skill	I	see Theoretical knowledge, skill and examination	
JAR-FCL	H 1.350	FI(A) – Rating issue	A	None	
JAR-FCL	H 1.355	FI(A) – Revalidation and renewal	I	see Licenses and ratings	
JAR-FCL	H 1.360	Type rating instructor rating (multi-pilot aeroplane) (TRI(MPA)) – Privileges	I	see Licenses and ratings	
JAR-FCL	H 1.365	TRI(MPA) – Requirements	I	see Licenses and ratings	
JAR-FCL	H 1.370	TRI(MPA) – Revalidation and renewal	I	see Licenses and ratings	
JAR-FCL	H 1.375	Class rating instructor rating (single-pilot aeroplane) (CRI(SPA)) – Privileges	I	see Licenses and ratings	
JAR-FCL	H 1.380	CRI(SPA) – Requirements	I	see Licenses and ratings	
JAR-FCL	H 1.385	CRI(SPA) – Revalidation and renewal	I	see Licenses and ratings	
JAR-FCL	H 1.390	Instrument rating instructor rating (aeroplane) (IRI(A)) – Privileges	I	see Licenses and ratings	
JAR-FCL	H 1.395	IRI(A) – Requirements	I	see Licenses and ratings	
JAR-FCL	H 1.400	IRI(A) – Revalidation and renewal	I	see Licenses and ratings	
JAR-FCL	H 1.405	Synthetic flight instructor authorisation (aeroplane) (SFI(A)) – Privileges	I	see Licenses and ratings	
JAR-FCL	H 1.405	Synthetic flight instructor authorisation (aeroplane) (SFI(A)) – Privileges	I	see Synthetic Flight Instruction	
JAR-FCL	H 1.410	SFI(A) – Requirements	I	see Synthetic Flight Instruction	
JAR-FCL	H 1.415	SFI(A) – Revalidation and renewal	I	see Licenses and ratings	
JAR-FCL	I 1.420	Examiners – Purposes	I	see Theoretical knowledge, skill and examination	
JAR-FCL	I 1.425	Examiners – General	I	see Theoretical knowledge, skill and examination	
JAR-FCL	I 1.430	Examiners – Period of validity	I	see Licenses and ratings	
JAR-FCL	I 1.435	Flight examiner (aeroplane) (FE(A)) – Privileges/Requirements	I	see Licenses and ratings	
JAR-FCL	I 1.440	Type rating examiner (aeroplane) (TRE(A)) – Privileges/Requirements	I	see Licenses and ratings	
JAR-FCL	I 1.440	Type rating examiner (aeroplane) (TRE(A)) – Privileges/Requirements	I	see Licenses and ratings	
JAR-FCL	I 1.445	Class rating examiner (aeroplane) (CRE(A)) – Privileges/Requirements	I	see Licenses and ratings	
JAR-FCL	I 1.445	Class rating examiner (aeroplane) (CRE(A)) – Privileges/Requirements	I	see Licenses and ratings	
JAR-FCL	I 1.450	Instrument rating examiner (aeroplane) (IRE(A)) – Privileges/ Requirements	I	see Licenses and ratings	

Title in Table of Contents				Relevance to UAVs	Action needed	Notes / conclusion
JAR-FCL	I	1.450	Instrument rating examiner (aeroplane) (IRE(A)) – Privileges/ Requirements	I	see Licenses and ratings	
JAR-FCL	I	1.455	Synthetic flight examiner (aeroplane) (SFE(A)) – Privileges/ Requirements	I	see Licenses and ratings	
JAR-FCL	I	1.455	Synthetic flight examiner (aeroplane) (SFE(A)) – Privileges/ Requirements	I	see Licenses and ratings	
JAR-FCL	I	1.455	Synthetic flight examiner (aeroplane) (SFE(A)) – Privileges/ Requirements	I	see Synthetic Flight Instruction	
JAR-FCL	I	1.455	Synthetic flight examiner (aeroplane) (SFE(A)) – Privileges/ Requirements	I	see Licenses and ratings	
JAR-FCL	I	1.460	Flight instructor examiner (aeroplane) (FIE(A)) – Privileges/ Requirements	I	see Licenses and ratings	
JAR-FCL	I	1.460	Flight instructor examiner (aeroplane) (FIE(A)) – Privileges/ Requirements	I	see Licenses and ratings	
JAR-FCL	J	1.465	Requirements	I	see Theoretical knowledge, skill and examination	
JAR-FCL	J	1.470	Contents of theoretical knowledge examinations	I	see Theoretical knowledge, skill and examination	
JAR-FCL	J	1.475	Questions	I	see Theoretical knowledge, skill and examination	
JAR-FCL	J	1.480	Examination procedure	I	see Theoretical knowledge, skill and examination	
JAR-FCL	J	1.485	Responsibilities of the applicant	I	see Theoretical knowledge, skill and examination	
JAR-FCL	J	1.490	Pass standards	I	see Theoretical knowledge, skill and examination	
JAR-FCL	J	1.495	Acceptance period	I	see Theoretical knowledge, skill and examination	
Annex 1	1.		Definitions and General Rules Concerning Licences	-	None	covered by JAR-FCL
Annex 1	1.1		Definitions	A	see Responsibilities and handover	see "Commander"
Annex 1	1.2		General rules concerning licences	A	None	also defines personnel beyond JAR-FCL
Annex 1	2.		Licences and Ratings for Pilots	-	None	covered by JAR-FCL
Annex 1	2.1		General rules concerning pilot licences and ratings	-	None	covered by JAR-FCL
Annex 1	2.2		Student pilot	-	None	covered by JAR-FCL
Annex 1	2.3		Private pilot licence — Aeroplane	-	None	covered by JAR-FCL
Annex 1	2.4		Commercial pilot licence — Aeroplane	-	None	covered by JAR-FCL
Annex 1	2.5		Airline transport pilot licence — Aeroplane	-	None	covered by JAR-FCL
Annex 1	2.6		Instrument rating — Aeroplane	-	None	covered by JAR-FCL
Annex 1	2.7		Private pilot licence — Helicopter	-	None	covered by JAR-FCL
Annex 1	2.8		Commercial pilot licence — Helicopter	-	None	covered by JAR-FCL
Annex 1	2.9		Airline transport pilot licence — Helicopter	-	None	covered by JAR-FCL

Title in Table of Contents			Identification of Subjects		Notes / conclusion
			Relevance to UAVs	Action needed	
Annex 1	2.10	Instrument rating — Helicopter	-	None	covered by JAR-FCL
Annex 1	2.11	Flight instructor rating appropriate to aeroplanes and helicopters	-	None	covered by JAR-FCL
Annex 1	2.12	Glider pilot licence	N/A	None	
Annex 1	2.13	Free balloon pilot licence	N/A	None	
Annex 1	3.	Licences for Flight Crew Members other than Licences for Pilots	I	see Licenses and ratings	
Annex 1	3.1	General rules concerning flight navigator and flight engineer licences	I	see Licenses and ratings	
Annex 1	3.2	Flight navigator licence	I	see Licenses and ratings	
Annex 1	3.3	Flight engineer licence	I	see Licenses and ratings	
Annex 1	3.4	Flight radiotelephone operator	I	see Licenses and ratings	
Annex 1	4.	Licences and Ratings for Personnel other than Flight Crew Members	I	see Licenses and ratings	
Annex 1	4.1	General rules concerning licences and ratings for personnel other than flight crew members	I	see Licenses and ratings	
Annex 1	4.2	Aircraft maintenance (technician/engineer/mechanic)	I	By WG II	
Annex 1	4.3	Air traffic controller licence	N/A	None	
Annex 1	4.4	Air traffic controller ratings	N/A	None	
Annex 1	4.5	Flight operations officer/flight dispatcher licence	N/A	None	
Annex 1	4.6	Aeronautical station operator licence	N/A	None	
Annex 1	5.	Specifications for Personnel Licences	-	None	covered by JAR-FCL
Annex 1	6.	Medical Provisions for Licensing	-	None	covered by JAR-FCL
Annex 1	6.1	Medical Assessments — General	-	None	covered by JAR-FCL
Annex 1	6.2	Requirements for Medical Assessments	-	None	covered by JAR-FCL
Annex 1	6.3	Class 1 Medical Assessment	-	None	covered by JAR-FCL
Annex 1	6.4	Class 2 Medical Assessment	-	None	covered by JAR-FCL
Annex 1	6.5	Class 3 Medical Assessment	-	None	covered by JAR-FCL
Annex 2	1.	Definitions	A	None	
Annex 2	2.	Applicability of the rules of the air	A	see Flight Rules	
Annex 2	2.1	Territorial application of the rules of the air	A	None	
Annex 2	2.2	Compliance with the rules of the air	A	see Flight Rules	
Annex 2	2.3	Responsibility for compliance with the rules of the air	A	see Responsibilities and handover	
Annex 2	2.4	Authority of pilot-in-command of an aircraft	A	see Responsibilities and handover	
Annex 2	2.5	Problematic use of psychoactive substances	A	None	
Annex 2	3.	General rules	A	see Flight Rules	
Annex 2	3.1	Protection of persons and property.	A	see Collision avoidance	
Annex 2	3.2	Avoidance of collisions.	A	see Collision avoidance	
Annex 2	3.3	Flight plans	A	None	
Annex 2	3.4	Signals	A	see Signals	
Annex 2	3.5	Time	A	None	

Title in Table of Contents			Identification of Subjects		Notes / conclusion
			Relevance to UAVs	Action needed	
Annex 2	3.6	Air traffic control service	A	None	May need attention!
Annex 2	3.7	Unlawful interference	A	see Unlawful Interference	
Annex 2	3.8	Interception	A	see Interception	
Annex 2	3.9	VMC visibility and distance from cloud minima.	A	see Flight Rules	
Annex 2	4.	Visual flight rules	A	see Flight Rules	
Annex 2	5.	Instrument flight rules.	A	see Flight Rules	
Annex 2	5.1	Rules applicable to all IFR flights	A	see Flight Rules	
Annex 2	5.2	Rules applicable to IFR flights within controlled airspace	A	see Flight Rules	
Annex 2	5.3	Rules applicable to IFR flights outside controlled airspace	A	see Flight Rules	
Annex 2	App 1.	Signals.	A	see Signals	
Annex 2	App 2.	Interception of civil aircraft	A	see Interception	
Annex 2	App 3.	Tables of cruising levels	A	None	
Annex 2	App 4.	Unmanned free balloons	A	see Termination and tracking	
Annex 2	Att. A.	Interception of civil aircraft.	A	see Interception	
Annex 2	Att. B.	Unlawful interference	A	see Unlawful Interference	
Annex 6	1.	Definitions	A	None	
Annex 6	2.	Applicability	A	None	
Annex 6	3.	General	A	None	Reference to passengers N/A
Annex 6	3.1	Compliance with laws, regulations and procedures	A	None	
Annex 6	3.2	Accident prevention and flight safety programme	A	None	
Annex 6	3.3	Dangerous goods	A	None	
Annex 6	3.4	Use of psychoactive substances	A	None	
Annex 6	4.	Flight operations	A	None	
Annex 6	4.1	Operating facilities	I	Adapt text	
Annex 6	4.2	Operational certification and supervision	I		
Annex 6	4.3	Flight preparation	A	None	Reference to passengers and crew onboard N/A
Annex 6	4.4	In-flight procedures	A	Adapt text	
Annex 6	4.5	Duties of pilot-in-command	A	see Responsibilities and handover	
Annex 6	4.6	Duties of flight operations officer/flight dispatcher	A	see Responsibilities and handover	
Annex 6	4.7	Additional requirements for extended range operations by aeroplanes with two turbine power-units (ETOPS)	N/A	None	title
Annex 6	4.8	Carry-on baggage	N/A	None	
Annex 6	5.	Aeroplane performance operating limitations	-	None	
Annex 6	5.1	General	A	None	
Annex 6	5.2	Applicable to aeroplanes certificated in accordance with Parts IIIA and IIIB of Annex8	N/A	None	title
Annex 6	5.3	Obstacle data	A	None	
Annex 6	6.	Aeroplane instruments, equipment and flight documents	-	None	
Annex 6	6.1	General	I	Adapt text	Documents in RCS instead onboard aircraft

Title in Table of Contents			Identification of Subjects		Notes / conclusion
			Relevance to UAVs	Action needed	
Annex 6	6.2	All aeroplanes on all flights	P/A	Adapt text	No people onboard
Annex 6	6.3	Flight recorders	A	see Recorders	
Annex 6	6.4	All aeroplanes operated as VFR flights	A	None	
Annex 6	6.5	All aeroplanes on flights over water	N/A	None	No people onboard
Annex 6	6.6	All aeroplanes on flights over designated land areas	N/A	None	No people onboard
Annex 6	6.7	All aeroplanes on high altitude flights	N/A	None	No people onboard
Annex 6	6.8	All aeroplanes in icing conditions	A	None	
Annex 6	6.9	All aeroplanes operated in accordance with instrument flight rules	A	None	
Annex 6	6.10	All aeroplanes when operated at night	A	None	
Annex 6	6.11	Pressurized aeroplanes when carrying passengers - weather radar	N/A	None	No people onboard
Annex 6	6.12	All aeroplanes operated above 15 000 m (49 000 ft) - radiation indicator	N/A	None	No people onboard
Annex 6	6.13	All aeroplanes complying with the noise certification Standards in Annex 16, Volume I	A	None	
Annex 6	6.14	Mach number indicator	A	None	
Annex 6	6.15	Aeroplanes required to be equipped with ground proximity warning systems (GPWS)	N/A	None	No people onboard
Annex 6	6.16	Aeroplanes carrying passengers - cabin crew seats	N/A	None	No people onboard
Annex 6	6.17	Emergency locator (ELT)	N/A	None	No people onboard
Annex 6	6.18	Aeroplanes required to be equipped with an airborne collision avoidance system (ACASII)	N/A	None	No people onboard
Annex 6	6.19	Aeroplanes required to be equipped with a pressure-altitude reporting transponder	A	None	
Annex 6	6.20	Microphones	N/A	None	No people onboard
Annex 6	6.21	Turbo-jet aeroplanes - forward-looking wind shear warning system	N/A	None	No people onboard
Annex 6	7.	Aeroplane communication and navigation equipment	A	see Equipment	
Annex 6	7.1	Communication equipment	A	see Equipment	
Annex 6	7.2	Navigation equipment	A	see Equipment	
Annex 6	7.3	Installation	A	see Equipment	
Annex 6	8.	Aeroplane maintenance	A	By WG II	
Annex 6	8.1	Operator's maintenance responsibilities	A	By WG II	
Annex 6	8.2	Operator's maintenance control manual	A	By WG II	
Annex 6	8.3	Maintenance programme	A	By WG II	
Annex 6	8.4	Maintenance records	A	By WG II	
Annex 6	8.5	Continuing airworthiness information	A	By WG II	
Annex 6	8.6	Modifications and repairs	A	By WG II	
Annex 6	8.7	Approved maintenance organization	A	By WG II	
Annex 6	8.8	Maintenance release	A	By WG II	
Annex 6	9.	Aeroplane flight crew	-	None	covered by JAR-OPS
Annex 6	9.1	Composition of the flight crew	-	None	covered by JAR-OPS

Title in Table of Contents			Identification of Subjects		Appendix 4-1 to Enclosure 4
			Relevance to UAVs	Action needed	Notes / conclusion
Annex 6	9.2	Flight crew member emergency duties	-	None	covered by JAR-OPS
Annex 6	9.3	Flight crew member training programmes	-	None	covered by JAR-OPS
Annex 6	9.4	Qualifications	-	None	covered by JAR-OPS
Annex 6	9.5	Flight crew equipment	-	None	covered by JAR-OPS
Annex 6	9.6	Flight time, flight duty periods and rest periods	-	None	covered by JAR-OPS
Annex 6	10.	Flight operations officer/flight dispatcher	-	None	covered by JAR-OPS
Annex 6	11.	Manuals, logs and records	-	None	covered by JAR-OPS
Annex 6	11.1	Flight manual	-	None	covered by JAR-OPS
Annex 6	11.2	Operator's maintenance control manual	-	None	covered by JAR-OPS
Annex 6	11.3	Maintenance programme	-	None	covered by JAR-OPS
Annex 6	11.4	Journey log book	-	None	covered by JAR-OPS
Annex 6	11.5	Records of emergency and survival equipment carried	-	None	covered by JAR-OPS
Annex 6	11.6	Flight recorder records	-	None	covered by JAR-OPS
Annex 6	12.	Cabin crew	-	None	covered by JAR-OPS
Annex 6	12.1	Assignment of emergency duties	-	None	covered by JAR-OPS
Annex 6	12.2	Cabin crew at emergency evacuation stations	-	None	covered by JAR-OPS
Annex 6	12.3	Protection of cabin crew during flight	-	None	covered by JAR-OPS
Annex 6	12.4	Training	-	None	covered by JAR-OPS
Annex 6	12.5	Flight time, flight duty periods and rest periods	-	None	covered by JAR-OPS
Annex 6	13.	Security	-	None	covered by JAR-OPS
Annex 6	13.1	Domestic commercial operations	-	None	covered by JAR-OPS
Annex 6	13.2	Security of the flight crew compartment	-	None	covered by JAR-OPS
Annex 6	13.3	Aeroplane search procedure checklist	-	None	covered by JAR-OPS
Annex 6	13.4	Training programmes	-	None	covered by JAR-OPS
Annex 6	13.5	Reporting acts of unlawful interference	-	None	covered by JAR-OPS
Annex 6	13.6	Miscellaneous	-	None	covered by JAR-OPS
Annex 6	App.1.	Lights to be displayed by aeroplanes	A	None	
Annex 6	App. 2.	Contents of an operations manual	A	None	
Annex 6	Att. A.	Flight time and flight duty period limitations	I		
Annex 6	Att. B.	First-aid medical supplies	N/A	None	
Annex 6	Att. C.	Aeroplane performance operating limitations	A	None	
Annex 6	Att. D.	Flight recorders	A	see Recorders	
Annex 6	Att. E.	Extended range operations by aeroplanes with two turbine power-units	N/A	None	
Annex 6	Att. F.	Air operator certificate or equivalent document	A	None	
Annex 6	Att. G.	Minimum equipment list (MEL)	A	None	
Annex 10-V1	1.	Definitions	-	None	Annex provides specifications for equipment
Annex 10-V1	2.	General provisions for radio navigation aids	-	None	Annex provides specifications for equipment
Annex 10-V1	2.1	Aids to approach, landing and departure	-	None	Annex provides specifications for equipment
Annex 10-V1	2.2	Short-distance aids	-	None	Annex provides specifications for equipment
Annex 10-V1	2.3	Radio beacons	-	None	Annex provides specifications for equipment
Annex 10-V1	2.4	Global navigation satellite system (GNSS)	-	None	Annex provides specifications for equipment
Annex 10-V1	2.5	[Reserved]	-	None	Annex provides specifications for equipment

Title in Table of Contents			Identification of Subjects		Relevance to UAVs	Action needed	Notes / conclusion
Annex 10-V1	2.6	Distance measuring aids	-	None			Annex provides specifications for equipment
Annex 10-V1	2.7	Ground and flight testing	-	None			Annex provides specifications for equipment
Annex 10-V1	2.8	Provision of information on the operational status of radio navigation aids	-	None			Annex provides specifications for equipment
Annex 10-V1	2.9	Secondary power supply for radio navigation aids and communication systems	-	None			Annex provides specifications for equipment
Annex 10-V1	2.10	Human Factors considerations	-	None			Annex provides specifications for equipment
Annex 10-V1	3.	Specifications for radio navigation aids	-	None			Annex provides specifications for equipment
Annex 10-V1	3.1	Specification for ILS	-	None			Annex provides specifications for equipment
Annex 10-V1	3.2	Specification for precision approach radar system	-	None			Annex provides specifications for equipment
Annex 10-V1	3.3	Specification for VHF omnidirectional radio range (VOR)	-	None			Annex provides specifications for equipment
Annex 10-V1	3.4	Specification for non-directional radio beacon (NDB)	-	None			Annex provides specifications for equipment
Annex 10-V1	3.5	Specification for UHF distance measuring equipment (DME)	-	None			Annex provides specifications for equipment
Annex 10-V1	3.6	Specification for en-route VHF marker beacons (75 MHz)	-	None			Annex provides specifications for equipment
Annex 10-V1	3.7	Requirements for the global navigation satellite system (GNSS)	-	None			Annex provides specifications for equipment
Annex 10-V1	3.9	System characteristics of airborne ADF receiving systems	-	None			Annex provides specifications for equipment
Annex 10-V1	3.11	Microwave landing system (MLS) characteristics	-	None			Annex provides specifications for equipment
Annex 10-V1	App. A.	Microwave landing system (MLS) characteristics	-	None			Annex provides specifications for equipment
Annex 10-V1	App. B.	Detailed technical specifications for the global navigation satellite system (GNSS)	-	None			Annex provides specifications for equipment
Annex 10-V1	1.	Definitions	-	None			Annex provides specifications for equipment
Annex 10-V1	2.	General	-	None			Annex provides specifications for equipment
Annex 10-V1	3.	GNSS elements	-	None			Annex provides specifications for equipment
Annex 10-V1	Att. A.	Determination of integrity and continuity of service objectives using the risk tree method	-	None			Annex provides specifications for equipment
Annex 10-V1	Att. B.	Strategy for introduction and application of non-visual aids to approach and landing	-	None			Annex provides specifications for equipment
Annex 10-V1	Att. C.	Information and material for guidance in the application of the Standards and Recommended Practices for ILS, VOR, PAR, 75 MHz marker beacons (en-route), NDB and DME	-	None			Annex provides specifications for equipment
Annex 10-V1	Att. D.	Information and material for guidance in the application of the GNSS Standards and Recommended Practices	-	None			Annex provides specifications for equipment
Annex 10-V1	Att. E	Guidance material on the pre-flight checking of VOR airborne equipment.	-	None			Annex provides specifications for equipment
Annex 10-V1	Att. F	Guidance material concerning reliability and availability of radiocommunications and navigation aids	-	None			Annex provides specifications for equipment
Annex 10-V1	Att. G	Information and material for guidance in the application of the MLS Standards and Recommended Practices	-	None			Annex provides specifications for equipment
Annex 10-V2	1.	Definitions	-	None			Annex provides specifications for equipment
Annex 10-V2	1.1	Services	-	None			Annex provides specifications for equipment
Annex 10-V2	1.2	Stations	-	None			Annex provides specifications for equipment

Title in Table of Contents			Identification of Subjects		APPENDIX 4-1 to Enclosure 4
			Relevance to UAVs	Action needed	Notes / conclusion
Annex 10-V2	1.3	Communication methods	-	None	Annex provides specifications for equipment
Annex 10-V2	1.4	Direction finding	-	None	Annex provides specifications for equipment
Annex 10-V2	1.5	Teletypewriter systems	-	None	Annex provides specifications for equipment
Annex 10-V2	1.6	Agencies	-	None	Annex provides specifications for equipment
Annex 10-V2	1.7	Frequencies	-	None	Annex provides specifications for equipment
Annex 10-V2	1.8	Data link communications	-	None	Annex provides specifications for equipment
Annex 10-V2	1.9	Miscellaneous	-	None	Annex provides specifications for equipment
Annex 10-V2	2.	Administrative Provisions Relating to the International Aeronautical Telecommunication Service	-	None	Annex provides specifications for equipment
Annex 10-V2	2.1	Division of service	-	None	Annex provides specifications for equipment
Annex 10-V2	2.2	Telecommunication — Access	-	None	Annex provides specifications for equipment
Annex 10-V2	2.3	Hours of service	-	None	Annex provides specifications for equipment
Annex 10-V2	2.4	Supervision	-	None	Annex provides specifications for equipment
Annex 10-V2	2.5	Superfluous transmissions	-	None	Annex provides specifications for equipment
Annex 10-V2	2.6	Interference	-	None	Annex provides specifications for equipment
Annex 10-V2	3.	General Procedures for the International Aeronautical Telecommunication Service	-	None	Annex provides specifications for equipment
Annex 10-V2	3.1	General	-	None	Annex provides specifications for equipment
Annex 10-V2	3.2	Extensions of service and closing down of stations	-	None	Annex provides specifications for equipment
Annex 10-V2	3.3	Acceptance, transmission and delivery of messages	-	None	Annex provides specifications for equipment
Annex 10-V2	3.4	Time system	-	None	Annex provides specifications for equipment
Annex 10-V2	3.5	Record of communications	-	None	Annex provides specifications for equipment
Annex 10-V2	3.6	Establishment of radiocommunication	-	None	Annex provides specifications for equipment
Annex 10-V2	3.7	Use of abbreviations and codes	-	None	Annex provides specifications for equipment
Annex 10-V2	3.8	Cancellation of messages	-	None	Annex provides specifications for equipment
Annex 10-V2	4.	Aeronautical Fixed Service (AFS)	-	None	Annex provides specifications for equipment
Annex 10-V2	4.1	General	-	None	Annex provides specifications for equipment
Annex 10-V2	4.2	ATS direct speech circuits	-	None	Annex provides specifications for equipment
Annex 10-V2	4.3	Meteorological operational channels and meteorological operational telecommunication networks	-	None	Annex provides specifications for equipment
Annex 10-V2	4.4	Aeronautical fixed telecommunication network (AFTN)	-	None	Annex provides specifications for equipment
Annex 10-V2	4.4.1	General	-	None	Annex provides specifications for equipment
Annex 10-V2	4.4.2	Message format — ITA-2	-	None	Annex provides specifications for equipment
Annex 10-V2	4.4.3	Address	-	None	Annex provides specifications for equipment
Annex 10-V2	4.4.4	Origin	-	None	Annex provides specifications for equipment
Annex 10-V2	4.4.5	Text	-	None	Annex provides specifications for equipment
Annex 10-V2	4.4.6	Ending	-	None	Annex provides specifications for equipment
Annex 10-V2	4.4.7	Tape feed	-	None	Annex provides specifications for equipment
Annex 10-V2	4.4.8	Stripped address	-	None	Annex provides specifications for equipment
Annex 10-V2	4.4.9	Teletypewriter operating procedure	-	None	Annex provides specifications for equipment
Annex 10-V2	4.4.10	Normal teletypewriter transmission procedures	-	None	Annex provides specifications for equipment
Annex 10-V2	4.4.11	Action on mutilated or improperly formatted messages detected in teletypewriter relay stations	-	None	Annex provides specifications for equipment

Title in Table of Contents			Identification of Subjects		Relevance to UAVs	Action needed	Notes / conclusion
Annex 10-V2	4.4.12	Correction of errors during tape preparation	-	None			Annex provides specifications for equipment
Annex 10-V2	4.4.13	Correction of errors during message origination in cases where the message is flowing into the AFTN during preparation	-	None			Annex provides specifications for equipment
Annex 10-V2	4.4.14	Predetermined distribution system for AFTN messages	-	None			Annex provides specifications for equipment
Annex 10-V2	4.4.15	Message format	-	None			Annex provides specifications for equipment
Annex 10-V2	4.4.16	Action taken on mutilated messages in IA-5 detected in computerized AFTN relay stations	-	None			Annex provides specifications for equipment
Annex 10-V2	4.4.17	Transfer of AFTN messages over code and byte independent circuits and networks	-	None			Annex provides specifications for equipment
Annex 10-V2	4.5	Common ICAO Data Interchange Network (CIDIN)	-	None			Annex provides specifications for equipment
Annex 10-V2	4.6	ATS message handling services (ATSMHS)	-	None			Annex provides specifications for equipment
Annex 10-V2	4.7	Inter-centre communications (ICC)	-	None			Annex provides specifications for equipment
Annex 10-V2	5.	Aeronautical Mobile Service — Voice Communications	-	None			Annex provides specifications for equipment
Annex 10-V2	5.1	General	-	None			Annex provides specifications for equipment
Annex 10-V2	5.2	Radiotelephony procedures	-	None			Annex provides specifications for equipment
Annex 10-V2	5.2.1	General	-	None			Annex provides specifications for equipment
Annex 10-V2	5.2.2	Establishment and assurance of communications	-	None			Annex provides specifications for equipment
Annex 10-V2	5.2.3	HF message handling.	-	None			Annex provides specifications for equipment
Annex 10-V2	5.2.4	SELCAL procedures	-	None			Annex provides specifications for equipment
Annex 10-V2	5.3	Distress and urgency radiotelephony communication procedures	-	None			Annex provides specifications for equipment
Annex 10-V2	5.3.1	General	-	None			Annex provides specifications for equipment
Annex 10-V2	5.3.2	Radiotelephony distress communications	-	None			Annex provides specifications for equipment
Annex 10-V2	5.3.3	Radiotelephony urgency communications	-	None			Annex provides specifications for equipment
Annex 10-V2	5.4	Communications related to acts of unlawful interference	-	None			Annex provides specifications for equipment
Annex 10-V2	6.	Aeronautical Radio Navigation Service	-	None			Annex provides specifications for equipment
Annex 10-V2	6.1	General	-	None			Annex provides specifications for equipment
Annex 10-V2	6.2	Direction finding	-	None			Annex provides specifications for equipment
Annex 10-V2	7.	Aeronautical Broadcasting Service	-	None			Annex provides specifications for equipment
Annex 10-V2	7.1	General	-	None			Annex provides specifications for equipment
Annex 10-V2	7.1.1	Broadcast material	-	None			Annex provides specifications for equipment
Annex 10-V2	7.1.2	Frequencies and schedules	-	None			Annex provides specifications for equipment
Annex 10-V2	7.1.3	Interruption of service	-	None			Annex provides specifications for equipment
Annex 10-V2	7.2	Radiotelephone broadcast procedures	-	None			Annex provides specifications for equipment
Annex 10-V2	7.2.1	Broadcast technique	-	None			Annex provides specifications for equipment
Annex 10-V2	7.2.2	Preamble of the general call	-	None			Annex provides specifications for equipment
Annex 10-V2	8.	Aeronautical Mobile Service — Data Link Communications	-	None			Annex provides specifications for equipment
Annex 10-V2	8.1	General	-	None			Annex provides specifications for equipment
Annex 10-V2	8.1.1	Composition of data link messages	-	None			Annex provides specifications for equipment
Annex 10-V2	8.1.2	Display of data link messages	-	None			Annex provides specifications for equipment
Annex 10-V2	8.2	CPDLC procedures	-	None			Annex provides specifications for equipment

Title in Table of Contents			Identification of Subjects		Action needed	Notes / conclusion
			Relevance to UAVs			
Annex 10-V3.1	1.	Definitions	-	None		Annex provides specifications for equipment
Annex 10-V3.1	2.	General (to be developed)	-	None		Annex provides specifications for equipment
Annex 10-V3.1	3.	Aeronautical Telecommunication Network	-	None		Annex provides specifications for equipment
Annex 10-V3.1	3.1	Definitions	-	None		Annex provides specifications for equipment
Annex 10-V3.1	3.2	Introduction	-	None		Annex provides specifications for equipment
Annex 10-V3.1	3.3	General	-	None		Annex provides specifications for equipment
Annex 10-V3.1	3.4	System level requirements	-	None		Annex provides specifications for equipment
Annex 10-V3.1	3.5	ATN applications requirements	-	None		Annex provides specifications for equipment
Annex 10-V3.1	3.6	ATN communication service requirements	-	None		Annex provides specifications for equipment
Annex 10-V3.1	3.7	ATN naming and addressing requirements	-	None		Annex provides specifications for equipment
Annex 10-V3.1	3.8	ATN systems management requirements	-	None		Annex provides specifications for equipment
Annex 10-V3.1	3.9	ATN security requirements	-	None		Annex provides specifications for equipment
Annex 10-V3.1	4.	Aeronautical Mobile-Satellite Service	-	None		Annex provides specifications for equipment
Annex 10-V3.1	4.1	Definitions and descriptions of channel types; general; system capabilities	-	None		Annex provides specifications for equipment
Annex 10-V3.1	4.2	Broadband RF characteristics	-	None		Annex provides specifications for equipment
Annex 10-V3.1	4.3	RF channel characteristics	-	None		Annex provides specifications for equipment
Annex 10-V3.1	4.4	Channel format types and rates	-	None		Annex provides specifications for equipment
Annex 10-V3.1	4.5	Link layer P channel and R channel protocols	-	None		Annex provides specifications for equipment
Annex 10-V3.1	4.6	Link layer T channel and sub-band C channel protocols	-	None		Annex provides specifications for equipment
Annex 10-V3.1	4.7	Satellite subnetwork layer	-	None		Annex provides specifications for equipment
Annex 10-V3.1	4.8	Circuit-mode services	-	None		Annex provides specifications for equipment
Annex 10-V3.1	4.9	Aircraft earth station (AES) management	-	None		Annex provides specifications for equipment
Annex 10-V3.1	4.10	Ground earth station (CES) management	-	None		Annex provides specifications for equipment
Annex 10-V3.1	App. 1 to Ch. 4	Response masks of A-BPSK and A-QPSK filters	-	None		Annex provides specifications for equipment
Annex 10-V3.1	App. 2 to Ch. 4	Signal unit formats	-	None		Annex provides specifications for equipment
Annex 10-V3.1	App. 3 to Ch. 4	Signal unit field coding and designation	-	None		Annex provides specifications for equipment
Annex 10-V3.1	App. 4 to Ch. 4	Time-out values	-	None		Annex provides specifications for equipment
Annex 10-V3.1	App. 5 to Ch. 4	Interworking telephony event mapping	-	None		Annex provides specifications for equipment
Annex 10-V3.1	App. 6 to Ch. 4	AMS(R)S configuration parameters	-	None		Annex provides specifications for equipment
Annex 10-V3.1	App. 7 to Ch. 4	Voice encoding algorithm definition	-	None		Annex provides specifications for equipment
Annex 10-V3.1	5.	SSR Mode S Air-ground Data Link	-	None		Annex provides specifications for equipment
Annex 10-V3.1	5.1	Definitions relating to the Mode S subnetwork	-	None		Annex provides specifications for equipment
Annex 10-V3.1	5.2	Mode S subnetwork characteristics	-	None		Annex provides specifications for equipment
Annex 10-V3.1	5.3	DCE and XDCE state tables	-	None		Annex provides specifications for equipment
Annex 10-V3.1	5.4	Mode S packet formats	-	None		Annex provides specifications for equipment

Title in Table of Contents			Identification of Subjects		APPENDIX 4-1 to Enclosure 4
			Relevance to UAVs	Action needed	Notes / conclusion
Annex 10-V3.1	App. to Ch. 5	Data formats and control parameters for communications via Mode S specific services	-	None	Annex provides specifications for equipment
Annex 10-V3.1	6.	VHF Air-ground Digital Link (VDL)	-	None	Annex provides specifications for equipment
Annex 10-V3.1	6.1	Definitions and system capabilities	-	None	Annex provides specifications for equipment
Annex 10-V3.1	6.2	System characteristics of the ground installation	-	None	Annex provides specifications for equipment
Annex 10-V3.1	6.3	System characteristics of the aircraft installation	-	None	Annex provides specifications for equipment
Annex 10-V3.1	6.4	Physical layer protocols and services	-	None	Annex provides specifications for equipment
Annex 10-V3.1	6.5	Link layer protocols and services	-	None	Annex provides specifications for equipment
Annex 10-V3.1	6.6	Subnetwork layer protocols and services	-	None	Annex provides specifications for equipment
Annex 10-V3.1	6.7	The VBL mobile subnetwork dependent convergence function (SND CF)	-	None	Annex provides specifications for equipment
Annex 10-V3.1	6.8	Voice unit for Mode 3	-	None	Annex provides specifications for equipment
Annex 10-V3.1	6.9	VDL Mode 4	-	None	Annex provides specifications for equipment
Annex 10-V3.1	App. to Ch. 6	References	-	None	Annex provides specifications for equipment
Annex 10-V3.1	7.	Subnetwork Interconnection (to be developed)	-	None	Annex provides specifications for equipment
Annex 10-V3.1	8.	AFTN Network	-	None	Annex provides specifications for equipment
Annex 10-V3.1	8.1	Definitions	-	None	Annex provides specifications for equipment
Annex 10-V3.1	8.2	Technical provisions relating to teletypewriter apparatus and circuits used in the AFTN	-	None	Annex provides specifications for equipment
Annex 10-V3.1	8.3	Terminal equipment associated with aeronautical radioteletypewriter channels operating in the band 2.5 - 30 MHz	-	None	Annex provides specifications for equipment
Annex 10-V3.1	8.4	Characteristics of interregional AFS circuits	-	None	Annex provides specifications for equipment
Annex 10-V3.1	8.5	Technical provisions relating to ATS message transmission	-	None	Annex provides specifications for equipment
Annex 10-V3.1	8.6	Technical provisions relating to international ground-ground data interchange at medium and higher signalling rates	-	None	Annex provides specifications for equipment
Annex 10-V3.1	9.	Aircraft Addressing System	-	None	Annex provides specifications for equipment
Annex 10-V3.1	App. to Ch. 9	A World-wide Scheme for the Allocation, Assignment and Application of Aircraft Addresses	-	None	Annex provides specifications for equipment
Annex 10-V3.1	10.	Point-to-Multipoint Communications	-	None	Annex provides specifications for equipment
Annex 10-V3.1	10.1	Service via satellite for the dissemination of aeronautical information	-	None	Annex provides specifications for equipment
Annex 10-V3.1	10.2	Service via satellite for the dissemination of WAFS products	-	None	Annex provides specifications for equipment
Annex 10-V3.1	11.	HF Data Link	-	None	Annex provides specifications for equipment
Annex 10-V3.1	11.1	Definitions and system capabilities	-	None	Annex provides specifications for equipment
Annex 10-V3.1	11.2	HF data link system	-	None	Annex provides specifications for equipment
Annex 10-V3.1	11.3	HF data link protocol	-	None	Annex provides specifications for equipment
Annex 10-V3.1	11.4	Ground management sub-system	-	None	Annex provides specifications for equipment
Annex 10-V3.2	1.	Definitions	-	None	Annex provides specifications for equipment
Annex 10-V3.2	2.	Aeronautical Mobile Service	-	None	Annex provides specifications for equipment

Title in Table of Contents			Identification of Subjects		Action needed	Notes / conclusion	APPENDIX 4-1 to Enclosure 4
			Relevance to UAVs				
Annex 10-V3.2	2.1	Air-ground VHF communication system characteristics	-	None		Annex provides specifications for equipment	
Annex 10-V3.2	2.2	System characteristics of the ground installation	-	None		Annex provides specifications for equipment	
Annex 10-V3.2	2.3	System characteristics of the airborne installation	-	None		Annex provides specifications for equipment	
Annex 10-V3.2	2.4	Single sideband (SSB) HF communication system characteristics for use in the aeronautical mobile service	-	None		Annex provides specifications for equipment	
Annex 10-V3.2	3.	SELCAL System	-	None		Annex provides specifications for equipment	
Annex 10-V3.2	4.	Aeronautical Speech Circuits	-	None		Annex provides specifications for equipment	
Annex 10-V3.2	4.1	Technical provisions relating to international aeronautical speech circuit switching and signalling for ground-ground applications	-	None		Annex provides specifications for equipment	
Annex 10-V3.2	5.	Emergency Locator Transmitter (ELT) for Search and Rescue	-	None		Annex provides specifications for equipment	
Annex 10-V3.2	5.1	General	-	None		Annex provides specifications for equipment	
Annex 10-V3.2	5.2	Specification for the 121.5 MHz component of emergency locator transmitters (ELT) for search and rescue	-	None		Annex provides specifications for equipment	
Annex 10-V3.2	5.3	Specification for the 406 MHz component of emergency locator transmitters (ELT) for search and rescue	-	None		Annex provides specifications for equipment	
Annex 10-V3.2	App. 1 to Ch. 5	Emergency Locator Transmitter Coding	-	None		Annex provides specifications for equipment	
Annex 10-V3.2	Att. A to Part I	Guidance material for aeronautical mobile-satellite service	-	None		Annex provides specifications for equipment	
Annex 10-V3.2	Att. B to Part I	Guidance material for the VHF Digital Link (VDL)	-	None		Annex provides specifications for equipment	
Annex 10-V3.2	Att. A to Part II	Guidance material for communication systems	-	None		Annex provides specifications for equipment	
Annex 10-V4	1.	Definitions	-	None		Annex provides specifications for equipment	
Annex 10-V4	2.	Distress frequencies	-	None		Annex provides specifications for equipment	
Annex 10-V4	2.1	Frequencies for emergency locator transmitters (ELTs) for search and rescue	-	None		Annex provides specifications for equipment	
Annex 10-V4	2.2	Search and rescue frequencies	-	None		Annex provides specifications for equipment	
Annex 10-V4	3.	Utilization of frequencies below 30 MHz	-	None		Annex provides specifications for equipment	
Annex 10-V4	3.1	Method of operations	-	None		Annex provides specifications for equipment	
Annex 10-V4	3.2	NDB frequency management	-	None		Annex provides specifications for equipment	
Annex 10-V4	4.	Utilization of frequencies above 30 MHz	-	None		Annex provides specifications for equipment	
Annex 10-V4	4.1	Utilization in the band 117.975 – 137 MHz	-	None		Annex provides specifications for equipment	
Annex 10-V4	4.2	Utilization in the band 108 – 117.975 MHz	-	None		Annex provides specifications for equipment	
Annex 10-V4	4.3	Utilization in the band 960 – 1 215 MHz for DME	-	None		Annex provides specifications for equipment	
Annex 10-V4	4.4	Utilization in the band 5 030.4 – 5 150.0 MHz	-	None		Annex provides specifications for equipment	
Annex 10-V4	App. to Ch. 4	List of assignable frequencies	-	None		Annex provides specifications for equipment	
Annex 10-V4	Att. A	Considerations affecting the deployment of VHF communication frequencies	-	None		Annex provides specifications for equipment	
Annex 10-V4	Att. B	Considerations affecting the deployment of LF/MF frequencies and the avoidance of harmful interference	-	None		Annex provides specifications for equipment	

Title in Table of Contents			Identification of Subjects		APPENDIX 4-1 to Enclosure 4
			Relevance to UAVs	Action needed	Notes / conclusion
Annex 10-V4	Att. C	Guiding principles for long distance operational control communications	-	None	Annex provides specifications for equipment
Annex 11	1.	Definitions	A	Remark	A definition of a UAV should be add. As should Air Vehicle Control Station and possibly flight termination system
Annex 11	2.	General.	A	None	-
Annex 11	2.1	Establishment of authority	A	Important - need to fiscal context for UAV operations .	This section need to deal with cross-border operation of UAVs - the fact that the Aircraft Commander is in another State does not diminish his responsibility for compliance with the regulations of that State in which the UAV is operating.
Annex 11	2.2	Objectives of the air traffic services	A	None	No changes required.
Annex 11	2.3	Divisions of the air traffic services	A	None	No changes required.
Annex 11	2.4	Determination of the need for air traffic services.	A	None	No changes required.
Annex 11	2.5	Designation of the portions of the airspace and controlled aerodromes where air traffic services will be provided	A	None	No changes required.
Annex 11	2.6	Classification of airspaces	A	None	No changes required.
Annex 11	2.7	Required navigation performance (RNP) for en-route operations	A	None	No changes required.
Annex 11	2.8	Establishment and designation of the units providing air traffic services	A	Remark	In order to operated in Categories E,F and G should/could UAVs have a dedicated ATS - rather than rely on 'detect and avoid' alone? Other classes must take the service from the assigned controlling agency.
Annex 11	2.9	Specifications for flight information regions, control areas and control zones	A	None	No changes required.
Annex 11	2.10	Identification of air traffic services units and airspaces.	A	None	No changes required.
Annex 11	2.11	Establishment and identification of ATS routes	A	None	No changes required.
Annex 11	2.12	Establishment of change-over points	A	None	No changes required.
Annex 11	2.13	Establishment and identification of significant points.	A	None	No changes required.
Annex 11	2.14	Establishment and identification of standard routes for taxiing aircraft.	A	None	No changes required.
Annex 11	2.15	Co-ordination between the operator and air traffic services	A	None	No changes required.
Annex 11	2.16	Co-ordination between military authorities and air traffic services	A	None	No changes required.
Annex 11	2.17	Co-ordination of activities potentially hazardous to civil aircraft.	A	None	No changes required.
Annex 11	2.18	Aeronautical data	A	None	No changes required.
Annex 11	2.19	Co-ordination between meteorological and air traffic services authorities	A	None	No changes required.
Annex 11	2.20	Co-ordination between aeronautical information services and air traffic services authorities	A	None	No changes required.

Title in Table of Contents			Identification of Subjects		Appendix 4-1 to Enclosure 4
			Relevance to UAVs	Action needed	Notes / conclusion
Annex 11	2.21	Minimum flight altitudes	A	None	No changes required.
Annex 11	2.22	Service to aircraft in the event of an emergency	A	Top ten	Needs specific reference. 1) No immediate risk to life; 2) co-ord should be made direct with AVCS; 3) Procedures for flight termination need to be specifically addressed - i.e. transit to a safe recovery area?
Annex 11	2.23	In-flight contingencies	A	None	Needs specific reference - co-ord should be made direct with AVCS(s).
Annex 11	2.24	Time in air traffic services	A	None	No changes required.
Annex 11	2.25	Establishment of requirements for carriage and operation of pressure-altitude reporting transponders	A	None	No changes required.
Annex 11	2.26	ATS safety management	A	None	No changes required.
Annex 11	3.	Air traffic control service	A	None	-
Annex 11	3.1	Application	A	None	No changes required.
Annex 11	3.2	Provision of air traffic control service	A	None	No changes required.
Annex 11	3.3	Operation of air traffic control service.	A	None	No changes required.
Annex 11	3.4	Separation minima.	A	Top ten.	Prudent in early days of UAV to have increased separation minima. Also if UAVs unable to operate at performance levels consistent with manned aircraft.
Annex 11	3.5	Responsibility for control	A	None	No changes required.
Annex 11	3.6	Transfer of responsibility for control	A	None	No changes required.
Annex 11	3.7	Air traffic control clearances	A	Remark	Possibly UAVs should have 'priority handling'? E.g. continuous descent - avoid the stack?
Annex 11	3.8	Control of persons and vehicles at aerodromes.	A	None	No changes required.
Annex 11	3.9	Provision of radar	A	None	No changes required.
Annex 11	3.10	Use of surface movement radar (SMR)	A	None	No changes required.
Annex 11	4.	Flight information service	A	None	-
Annex 11	4.1	Application	A	None	No changes required.
Annex 11	4.2	Scope of flight information service	A	None	No changes required.
Annex 11	4.3	Operational flight information service broadcasts	A	None	No changes required.
Annex 11	4.4	VOLMET broadcasts and D-VOLMET service	A	None	No changes required.
Annex 11	5.	Alerting service	A	None	-
Annex 11	5.1	Application	A	Remark	Specific reference is required to handling of UAV emergencies
Annex 11	5.2	Notification of rescue co-ordination centres	A	None	No changes required.
Annex 11	5.3	Use of communication facilities	A	None	No changes required.
Annex 11	5.4	Plotting aircraft in a state of emergency	A	None	No changes required.
Annex 11	5.5	Information to the operator	A	Remark	Need a specific reference to co-ord of UAV emergencies. What can be expected if the aircraft is still under control+ autonomous behaviour?
Annex 11	5.6	Information to aircraft operating in the vicinity of an aircraft in a state of emergency	A	None	No changes required.

Title in Table of Contents			Identification of Subjects		APPENDIX 4-1 to Enclosure 4
			Relevance to UAVs	Action needed	Notes / conclusion
Annex 11	6.	Air traffic services requirements for communications	A	None	-
Annex 11	6.1	Aeronautical mobile service (air-ground communications)	A	Remark	Need to outline the concepts for comms with UAV/Flight Commander/AVCS.VHF relay/data-link/direct voice/data comms to AVCS?
Annex 11	6.2	Aeronautical fixed service (ground-ground communications).	A	None	No changes required.
Annex 11	6.3	Surface movement control service	A	None	No changes required.
Annex 11	6.4	Aeronautical radio navigation service	A	None	No changes required.
Annex 11	7.	Air traffic services requirements for information.	A	None	-
Annex 11	7.1	Meteorological information	A	None	No changes required.
Annex 11	7.2	Information on aerodrome conditions and the operational status of associated facilities.	A	None	No changes required.
Annex 11	7.3	Information on the operational status of navigation aids	A	None	No changes required.
Annex 11	7.4	Information on unmanned free balloons	A	None	No changes required.
Annex 11	7.5	Information concerning volcanic activity	A	None	No changes required.
Annex 11	7.6	Information concerning radioactive materials and toxic chemical "clouds"	A	None	No changes required.
Annex 11	App. 1.	Principles governing the identification of RNP types and the identification of ATS routes other than standard departure and arrival routes	A	None	No changes required.
Annex 11	App. 2.	Principles governing the establishment and identification of significant points	A	None	No changes required.
Annex 11	App. 3.	Principles governing the identification of standard departure and arrival routes and associated procedures	A	Top ten	Specific UAV SIDs/STARS may be required for UAV and they will need specific designation.
Annex 11	App. 4.	ATS airspace classes - services provided and flight requirements	A	Remark	A footnote/additional column could indicate how the types of airspace available to UAVs (All?) and the type of ATS to be provided - see remark under para 2.8
Annex 11	App. 5.	Aeronautical data quality requirements	A	None	No changes required.
Annex 11	Att. A.	Material relating to a method of establishing ATS routes defined by VOR.	A	None	No changes required.
Annex 11	Att. B.	Method of establishing ATS routes for use by RNAV-equipped aircraft	A	None	No changes required.
Annex 11	Att. C.	Traffic information broadcasts by aircraft (TIBA) and related operating procedures.	A	None	-
Annex 11	1.	Introduction and applicability of broadcasts	A	None	No changes required.
Annex 11	2.	Details of broadcasts	A	None	No changes required.
Annex 11	3.	Related operating procedures	A	None	No changes required.
Annex 18	1.	Definitions	A	None	
Annex 18	2.	Applicability	A	None	
Annex 18	2.1	General applicability.	A	None	
Annex 18	2.2	Dangerous Goods Technical Instructions	A	None	
Annex 18	2.3	Domestic civil aircraft operations	A	None	

Title in Table of Contents			Identification of Subjects		APPENDIX 4-1 to Enclosure 4
			Relevance to UAVs	Action needed	Notes / conclusion
Annex 18	2.4	Exceptions.	A	Adapt text	Delete reference to passengers and crewmembers
Annex 18	2.5	Notification of variations from the Technical Instructions.	A	None	
Annex 18	2.6	Surface transport	A	None	
Annex 18	3.	Classification	A	None	
Annex 18	4.	Limitation on the transport of dangerous goods by air	A	None	
Annex 18	4.1	Dangerous goods permitted for transport by air	A	None	
Annex 18	4.2	Dangerous goods forbidden for transport by air unless exempted.	A	None	
Annex 18	4.3	Dangerous goods forbidden for transport by air under any circumstances	A	None	
Annex 18	5.	Packing	A	None	
Annex 18	5.1	General requirements	A	None	
Annex 18	5.2	Packagings	A	None	
Annex 18	6.	Labelling and marking	A	None	
Annex 18	6.1	Labels	A	None	
Annex 18	6.2	Markings	A	None	
Annex 18	6.3	Languages to be used for markings	A	None	
Annex 18	7.	Shipper's responsibilities	A	None	
Annex 18	7.1	General requirements	A	None	
Annex 18	7.2	Dangerous goods transport document.	A	None	
Annex 18	7.3	Languages to be used	A	None	
Annex 18	8.	Operator's responsibilities	A	None	
Annex 18	8.1	Acceptance for transport	A	None	
Annex 18	8.2	Acceptance checklist	A	None	
Annex 18	8.3	Loading and stowage	A	None	
Annex 18	8.4	Inspection for damage or leakage.	A	None	
Annex 18	8.5	Loading restrictions in passenger cabin or on flight deck	N/A	None	
Annex 18	8.6	Removal of contamination	A	None	
Annex 18	8.7	Separation and segregation	A	None	
Annex 18	8.8	Securing of dangerous goods cargo loads	A	None	
Annex 18	8.9	Loading on cargo aircraft	A	None	
Annex 18	9.	Provision of information	A	None	
Annex 18	9.1	Information to pilot-in-command	A	None	
Annex 18	9.2	Information and instructions to flight crew members	A	None	
Annex 18	9.3	Information to passengers	N/A	None	
Annex 18	9.4	Information to other persons.	A	None	
Annex 18	9.5	Information from pilot-in-command to aerodrome authorities	A	None	
Annex 18	9.6	Information in the event of an aircraft accident or incident	A	None	
Annex 18	10.	Establishment of training programmes	A	None	
Annex 18	11.	Compliance.	A	None	
Annex 18	11.1	Inspection systems.	A	None	

Title in Table of Contents			Relevance to UAVs	Action needed	Notes / conclusion
Annex 18	11.2	Co-operation between States	A	None	
Annex 18	11.3	Penalties	A	None	
Annex 18	11.4	Dangerous goods by mail	A	None	
Annex 18	12.	Dangerous goods accident and incident reporting.	A	None	