EASA Team Worksharing per CS 25 Paragraphs - Amdt 28

			PANEL																	
			Project Certification Manager	Flight	Human Factors	Structures	Hydromechanical Systems	Electrical Systems/HIRF	Avionics Systems	Powerplant Systems & Fuel Systems	Environmental Control Systems	Noise	Software & Development Assurance	Cabin Safety	Safety Assessment	ICA	Propulsiomn	Flight Crew Data	Cabin Crew	Maintenance Certifying Staff	MMEL
CS 25 Paragraph	Sub-Para	Requirement Title	0	1	1.b	3	4	5	6	7	8	9	10	11	12	14	19	OSD 2	OSD 17	OSD 18	OSD 15
SUBPART A - FLIGHT																					
25.1		APPLICABILITY																			
25.1	(a)	Applicability	p																		
25.2		Special retroactive requirements																			
25.3		Special provisions for ETOPS type design approvals																			
25.5		Incorporations by reference																			
SUBPART B - FLIGHT																					
25.0020		APPLICABILITY																			
25.0020	(a)	Engine Characteristics		p																	
25.0020	(b)	Require Operational Evaluation		p																	
25.0020	(c)	APR Systems		p						s											
25.0021		PROOF OF COMPLIANCE																			
25.0021	(a)	Appropriate Weight		p																	
25.0021	(b)	Reserved																			
25.0021	(c)	Handling at Altitude		p																	
25.0021	(d)	Tolerances		p																	
25.0021	(e)	Stability augmentation		p			s														
25.0021	(f)	Wind measurement		p																	
25.0021	(g)	Icing conditions		p							s										
25.0023		LOAD DISTRIBUTION LIMITS																			
25.0023	(a)	Range of weight and cg		p		s															
25.0023	(b)	Not to exceed		p		s															
25.0025		WEIGHT LIMITS																L			
25.0025	(a)	Maximum weight		p		s						s									
25.0025	(b)	Minimum weight		p		s															
25.0027		CENTRE OF GRAVITY LIMITS																L			
25.0027	(a)	Selected		p		s															
25.0027	(b)	Structural		p		p															
25.0027	(c)	Handling		p		s															
25.0029		EMPTY WEIGHT AND CORRESPONDING CENTER OF GRAVITY																			
25.0029	(a)	Ballast, fuel and fluids		p		s															
25.0029	(b)	Defined condition		p		s															
25.0031		REMOVABLE BALLAST																			
25.0031		REMOVABLE BALLAST		p																	
25.0033		PROPELLER SPEED AND PITCH LIMITS																			
25.0033	(a)	Ensure safe operation								p											

25.0033	(b)	Limit governed engine speed								p											
25.0033	(c)	Low pitch blade stop								p											
25.0101		GENERAL																			
25.0101	(a)	Ambient atmospheric conditions		p																	
25.0101	(b)	Relative humidities		p																	
25.0101	(c)	Available thrust		p																	
25.0101	(d)	Select configurations		p																	
25.0101	(e)	Configuration variation		p																	
25.0101	(f)	Using operating procedures		p														s			
25.0101	(g)	Balked landing procedure		p																	
25.0101	(h)	Operating procedures		p														s			
25.0101	(i)	Accelerate-stop and landing distances		p																	
25.0103		STALL SPEED																			
25.0103	(a)	Definition		p																	
25.0103	(b)	Configuration		p																	
25.0103	(c)	Stall speed entry		p																	
25;0103	(d)	Nose down		p																	
25.0105		TAKE-OFF																			
25.0105	(a)	Conditions and configurations		p																	
25.0105	(b)	Pilot skill		p														s			
25.0105	(c)	Runway condition		p																	
25.0105	(d)	Correction factors		p																	
25.0107		TAKE-OFF SPEEDS																			
25.0107	(a)	V1		p																	
25.0107	(b)	V2 min		p																	
25.0107	(c)	V2		p																	
25.0107	(d)	Vmu		p																	
25.0107	(e)	VR		p																	
25.0107	(f)	VLOF		p																	
25.0107	(g)	VFTO		p																	
25.0107	(h)	Determination of take-off speeds		p																	
25.0109		ACCELERATE-STOP DISTANCE																**L**			
25.0109	(a)	Definition - dry runway		p																	
25.0109	(b)	Definition - wet runway		p																	
25.0109	(c)	Wet runway braking coefficiebt of friction		p																	
25.0109	(d)	Grooved and porous friction course runways		p																	
25.0109	(e)	Means other than wheel brakes		p																	
25.0109	(f)	Reverse thrust		p																	
25.0109	(g)	Landing gear extended		p																	
25.0109	(h)	Stopway characteristics		p																	
25.0109	(i)	Fligth test demonstration		p																	
25.0111		TAKE-OFF PATH																**L**			
25.0111	(a)	Definition		p																	
25.0111	(b)	Landing gear retraction		p																	
25.0111	(c)	Determination		p																	
25.0111	(d)	Segmental method		p																	
25.0111	(e)	Not required for CS-25		p																	
25.0113		TAKE-OFF DISTANCE AND TAKE-OFF RUN																**L**			
25.0113	(a)	Take-off distance - dry runway		p																	
25;0113	(b)	Take-off distance - wet distance		p																	
25.0113	(c)	Take-off run		p																	
25.0115		TAKE-OFF FLIGHT PATH																**L**			
25.0115	(a)	Take-off flight path		p																	

25.0115	(b)	Net flight path		p																	
25.0115	(c)	Acceleration reduction		p																	
25.0117		CLIMB: GENERAL																L			
25.0117		CLIMB: GENERAL		p																	
25.0119		LANDING CLIMB: ALL-ENGINES-OPERATING																L			
25.0119	(a)	Non-icing conditions		p																	
25.0119	(b)	Icing conditions		p							s										
25.0121		CLIMB: ONE-ENGINE-INOPERATIVE																L			
25.0121	(a)	T/O gear extended		p																	
25.0121	(b)	T/O gear retracted		p							s										
25.0121	(c)	Final take-off		p							s										
25.0121	(d)	Discontinued approach		p							s										
25.0123		EN-ROUTE FLIGHT PATHS																L			
25.0123	(a)	Configuration		p																	
25.0123	(b)	One engine inoperative		p							s										
25.0123	(c)	Two engines inoperative		p																	
25.0125		LANDING																L			
25.0125	(a)	Landing distance determination		p							s										
25.0125	(b)	Conditions for distance determination		p							s										
25.0125	(c)	Runway condition and braking		p																	
25.0125	(d)	Not required for CS-25																			
25.0125	(e)	Not required for CS-25																			
25.0125	(f)	Wind correction methods		p																	
25.0125	(g)	Engine inoperative landing		p																	
25.0143		CONTROLLABILITY AND MANOEUVRABILITY - GENERAL																L			
25.0143	(a)	Safely controllable		p																	
25.0143	(b)	Smooth transition		p		s															
25.0143	(c)	Controllability / Manoeuvrability in critical ice		p							s										
25.0143	(d)	Marginal conditions		p																	
25.0143	(e)	Temporary control forces		p																	
25.0143	(f)	Prolonged control forces		p																	
25.0143	(g)	Stick force and gradient		p																	
25.0143	(h)	Manoeuvring capabilities		p																	
25.0143	(i)	Compliance demonstration in icing conditions		p							s										
25.0143	(j)	Requirements before ice protection activation		p							s										
25.0143	(k)	Side stick controllers		p			s														
25.0143	(l)	Electronic flight control systems		p			s														
25.0145		LONGITUDINAL CONTROL																L			
25.0145	(a)	Prompt acceleration		p																	
25.0145	(b)	Manoeuvre control force		p																	
25.0145	(c)	Retraction of high lift devices		p																	
25.0145	(d)	Revoked		p																	
25.0145	(e)	Gated high lift device control position		p																	
25.0145	(f)	Adequate longitudinal and speed control		p																	
25.0147		DIRECTIONAL AND LATERAL CONTROL																L			
25.0147	(a)	Directional control		p																	
25.0147	(b)	Aeroplanes with four or more engines		p																	
25.0147	(c)	Lateral control: one engine inoperative		p																	
25.0147	(d)	Roll capability		p																	
25.0147	(e)	Aeroplanes with four or more engines		p																	
25.0147	(f)	Lateral control all engines operating		p																	
25.0149		MINIMUM CONTROL SPEED																L			
25.0149	(a)	Engine failure simulation		p																	
25.0149	(b)	Definition		p																	

25.0149	(c)	Conditions		p																	
25.0149	(d)	Rudder force		p																	
25.0149	(e)	Vmcg		p																	
25.0149	(f)	Vmcl		p																	
25.0149	(g)	Vmcl-1		p																	
25.0149	(h)	Vmcl-2 : 3 + engines		p																	
25.0161		TRIM																L			
25.0161	(a)	General		p																	
25.0161	(b)	Lateral and directional		p																	
25.0161	(c)	Longitudinal trim		p																	
25.0161	(d)	Longitudinal directional and lateral		p																	
25.0161	(e)	Aeroplanes with 4 or more engines		p																	
25.0171		STABILITY - GENERAL																L			
25.0171		STABILITY - GENERAL		p																	
25.0173		STATIC LONGITUDINAL STABILITY																L			
25.0173	(a)	Stick force at trim speed		p																	
25.0173	(b)	Return to trim speed		p																	
25.0173	(c)	Stick force gradient		p																	
25.0173	(d)	Permissible speed error		p																	
25.0175		DEMONSTRATION OF STATIC LONGITUDINAL STABILITY																			
25.0175	(a)	During climb		p																	
25.0175	(b)	During cruise		p																	
25.0175	(c)	During approach		p																	
25.0175	(d)	Landing		p																	
25.0177		STATIC DIRECTIONAL AND LATERAL STABILITY																L			
25.0177	(a)	Directional stability		p																	
25.0177	(b)	Lateral stability		p																	
25.0177	(c)	Proportional control		p																	
25.0177	(d)	Excessive sideslip angles		p																	
25.0181		DYNAMIC STABILITY																L			
25.0181	(a)	Short period oscillations		p																	
25.0181	(b)	Dutch roll		p																	
25.0201		STALL DEMONSTRATION																			
25.0201	(a)	Power		p																	
25.0201	(b)	Configuration		p																	
25.0201	(c)	Technique		p																	
25.0201	(d)	Stall indications		p																	
25.0203		STALL CHARACTERISTICS																L			
25.0203	(a)	Aileron and rudder authority		p																	
25.0203	(b)	Wing drop		p																	
25.0203	(c)	In turning flight		p																	
25.0207		STALL WARNING																L			
25.0207	(a)	Sufficient margin		p																	
25.0207	(b)	Clearly distinguishable		p						s											
25.0207	(c)	Warning initiation		p						s		s									
25.0207	(d)	Warning initiation with CS 25,103(b)(5) conditions		p						s											
25.0207	(e)	Stall warning margin in icing conditions		p						s		s									
25.0207	(f)	Stall warning margin		p						s		s									
25.0207	(g)	Flight following system failures		p						s											
25.0207	(h)	Requirements before ice protection activation		p						s		s									
25.0207	(i)	Stall warning providing in icing/non icing conditions		p						s											
25.0231		LONGITUDINAL STABILITY AND CONTROL																L			
25.0231	(a)	No uncontrollable tendency		p																	

25.0233		GROUND HANDLING -DIRECTIONAL																			L			
25.0233	(a)	No uncontrollable tendency		p																				
25.0233	(b)	Power-off landings		p																				
25.0233	(c)	Taxying		p																				
25.0235		TAXYING CONDITION																			L			
25.0235		TAXYING CONDITION				p	s																	
250237		WIND VELOCITIES																			L			
25.0237	(a)	Cross wind component		p								s												
25.0251		VIBRATION AND BUFFETING																						
25.0251	(a)	Design to withstand		p		s																		
25.0251	(b)	Free from excessive		p		s																		
25.0251	(c)	No buffeting condition		p		s																		
25.0251	(d)	No perceptible buffeting		p																				
25.0251	(e)	Buffet boundaries		p		s																		
25.0253		HIGH SPEED CHARACTERISTICS																			L			
25.0253	(a)	Speed increase and recovery		p		s																		
25.0253	(b)	Maximum speed for stability		p																				
25.0253	(c)	Maximum speed for stability in icing conditions		p								s												
25.0255		OUT-OF TRIM CHARACTERISTICS																			L			
25.0255	(a)	From initial trimmed condition		p		s																		
25.0255	(b)	Control force		p		s																		
25.0255	(c)	Acceleration range		p		s																		
25.0255	(d)	Marginal conditions		p		s																		
25.0255	(e)	Limitations need not be exceeded		p		s																		
25.0255	(f)	Overspeed recovery		p		s																		
SUBPART C - STRUCTURE																								
25.0301		LOADS																						
25.0301	(a)	Limit loads				p																		
25.0301	(b)	Loads methods				p																		
25.0301	(c)	Distribution under deflection				p																		
25.0302		Interactions of systems and structures				p	s				s	s												
25.0303		FACTOR OF SAFETY																						
25.0303		FACTOR OF SAFETY				p																		
25.0305		STRENGHT AND DEFORMATION																						
25.0305	(a)	Support limit load				p																		
25.0305	(b)	Support ultimate load				p																		
25.0305	(c)	Structural flexibility				p																		
25.0305	(d)	Reserved																						
25.0305	(e)	Vibration and Buffeting				p																		
25.0305	(f)	Forced structural vibration				p	s																	
25.0307		PROOF OF STRUCTURE																						
25.0307	(a)	Analysis or test				p																		
25.0307	(b)	Reserved																						
25.0307	(c)	Reserved																						
25.0307	(d)	Correction factors				p																		
25.0321		FLIGHT LOADS-GENERAL - GENERAL																						
25.0321	(a)	Flight load factors				p																		
25.0321	(b)	Compressibility effects				p																		
25.0321	(c)	Maximum load				p																		
25.0321	(d)	Equilibrium of significant forces				p																		
25.0331		SYMMETRIC MANOEUVRING CONDITIONS																						
25.0331	(a)	Procedure				p																		
25.0331	(b)	Balanced conditions				p																		

25.0331	(c)	Pitching conditions				p															
25.0333		FLIGHT MANOEUVRING ENVELOPE																L			
25.0333	(a)	General				p															
25.0333	(b)	Manoeuvring Envelope				p															
25.0335		DESIGN AIRSPEEDS																			
25.0335	(a)	VC				p															
25.0335	(b)	VD		s		p															
25.0335	(c)	VA				p															
25.0335	(d)	VB				p															
25.0335	(e)	VF				p															
25.0335	(f)	VDD		s		p															
25.0337		LIMIT MANOEUVRING LOAD FACTORS																			
25.0337	(a)	Symmetrical manoeuvres				p															
25.0337	(b)	Positive Load factor				p															
25.0337	(c)	Negative load factor				p															
25.0337	(d)	Lower load factors				p															
25.0341		GUST & TURBULENCE LOADS																			
25.0341	(a)	Discrete Gust				p															
25.0341	(b)	Cont. Turbulence				p															
25.0341	(c)	Supplementary gust				p															
25.0343		DESIGN FUEL AND OIL LOADS																			
25.0343	(a)	Disposable load				p															
25.0343	(b)	Structural reserve fuel				p															
25.0345		HIGH LIFT DEVICES																			
25.0345	(a)	Flaps - gusts and loads				p															
25.0345	(b)	Slipstream effects				p															
25.0345	(c)	En route conditions				p															
25.0345	(d)	Landing configuration				p															
25.0349		ROLLING CONDITIONS																			
25.0349	(a)	Manoeuvring				p															
25.0349	(b)	Unsymmetrical gusts				p															
25.0351		YAW MANOEUVRE CONDITIONS																			
25.0351	(a)	Rudder application				p															
25.0351	(b)	Resulting sideslip				p															
25.0351	(c)	Rudder centred				p															
25.0351	(d)	Rudder neutral				p															
25.0353		RUDDER CONTROL REVERSAL CONDITIONS																			
25.0353	(a)	Initial rudder control application		s		p	s														
26.0353	(b)	First rudder control reversal		s		p	s														
27.0353	(c)	Second rudder control reversal		s		p	s														
28.0353	(d)	Third rudder control reversal		s		p	s														
29.0353	(e)	Rudder control to neutral		s		p	s														
25.0361		ENGINE AND AUXILIARY POWER UNIT TORQUE																			
25.0361	(a)	Torque effects				p				s											
25.0361	(b)	Auxliary power unit acceleration/deceleration				p				s											
25.0362		ENGINE FAILURE LOADS																			
25.0362	(a)	Permanent deformations from ultimate loads conditions		s		p				s											
25.0362	(b)	Ultimate loads		s		p				s											
25.0363		ENGINE AND APU SIDE LOAD																			
25.0363	(a)	Limit load				p															
25.0363	(b)	Assumed independent				p															
25.0365		PRESSURISED CABIN LOADS																			
25.0365	(a)	Combined with flight loads				p															
25.0365	(b)	External pressure distribution				p															

25.0365	(c)	Landing loads				p														
25.0365	(d)	Relief valve setting				p														
25.0365	(e)	Rapid decompression				p														
25.0365	(f)	Fail safe features				p														
25.0365	(g)	Injury to occupants				p							s							
25.0367		UNSYMMETRICAL LOADS DUE TO ENGINE FAILURE																		
25.0367	(a)	Limit and ultimated loads				p														
25.0367	(b)	Pilot action				p														
25.0371		GYROSCOPIC LOADS																		
25.0371		GYROSCOPIC LOADS				p														
25.0373		SPEED CONTROL DEVICES																		
25.0373	(a)	Symmetrical manoeuvres				p														
25.0373	(b)	Load limiting features				p														
25.0391		CONTROL SURFACE LOADS: GENERAL																		
25.0391	(a)	Parallel to hinge line				p														
25.0391	(b)	Pilot effort				p														
25.0391	(c)	Trim tab effects				p														
25.0391	(d)	Usymmetrical loads				p														
25.0391	(e)	Outboard fins				p														
25.0393		LOAD PARALLEL TO HINGE LINE																		
25.0393	(a)	Inertia loads				p														
25.0393	(b)	Assumption				p														
25.0395		CONTROL SYSTEM																		
25.0395	(a)	Computed hinge moments				p														
25.0395	(b)	System limit loads				p														
25.0395	(c)	Minimum loads				p														
25.0397		CONTROL SYSTEM LOADS																		
25.0397	(a)	General				p														
25.0397	(b)	Pilot effort				p														
25.0397	(c)	Limit pilot forces		s		p														
25.0397	(d)	Limit pilot forces with stick control				p	p													
25.0399		DUAL CONTROL SYSTEM																		
25.0399	(a)	Pilots in opposition				p														
25.0399	(b)	Combined pilot effort																		
25.0405		SECONDARY CONTROL SYSTEM																		
25.0405		SECONDARY CONTROL SYSTEM				p														
25.0407		TRIM TAB EFFECTS																		
25.0407	(a)	Elevator				p														
25.0407	(b)	Aileron and rudder				p														
25.0409		TABS																		
25.0409	(a)	Trim tabs				p														
25.0409	(b)	Balancing tabs				p														
25.0409	(c)	Servo tabs				p														
25.0415		GROUND GUST CONDITIONS																		
25.0415	(a)	Control system limit loads				p	s													
25.0415	(b)	Control system, surface loads and hinge moments				p	s													
25.0415	(c)	Hinge moment factor				p														
25.0415	(d)	Limit loads due to ground gusts				p														
25.0415	(e)	Transient stresses				p														
25.0415	(f)	Control locks engaged				p														
25.0415	(g)	Taxying with control locks disengaged				p														
25.0427		UNSYMMETRICAL LOADS																		
25.0427	(a)	Horizontal tail				p														

25.0427	(b)	Assumptions				p															
25.0427	(c)	Empennage arrangements				p															
25.0427	(d)	Buffet conditions				p															
25.0445		OUTBOARD FINS																			
25.0445	(a)	End plate effects				p															
25.0445	(b)	Unsymmetrical loading				p															
25.0457		WING-FLAPS																			
25.0457		WING-FLAPS				p															
25.0459		SPECIAL DEVICES																			
25.0459		SPECIAL DEVICES				p															
25.0471		GROUND LOADS																			
25.0471	(a)	Loads and equilibrium				p															
25.0471	(b)	Critical centres of gravity				p															
25.0471	(c)	Landing gear dimensions				p															
25.0473		GROUND LOAD CONDITIONS AND ASSUMPTIONS																			
25.0473	(a)	Conditions				p															
25.0473	(b)	Descent velocities				p															
25.0473	(c)	Inertia load factors				p															
25.0473	(d)	Without bottoming				p															
25.0473	(e)	Dynaming response				p															
25.0477		LANDING GEAR ARRANGEMENT																			
25.0477		LANDING GEAR ARRANGEMENT				p															
25.0479		LEVEL LANDING CONDITIONS																			
25.0479	(a)	Level attitude				p															
25.0479	(b)	Tail wheel aeroplanes				p															
25.0479	(c)	Nose wheel aeroplanes				p															
25.0479	(d)	Vertical and drag components				p															
25.0481		TAIL-DOWN LANDING CONDITIONS																			
25.0481	(a)	Velocity components				p															
25.0481	(b)	Tail wheel aeroplanes				p															
25.0481	(c)	Attitude				p															
25.0483		ONE-WHEEL LANDING CONDITIONS																			
25.0483	(a)	Ground reactions				p															
25.0483	(b)	Inertial reaction				p															
25.0485		SIDE LOAD CONDITIONS																			
25.0485	(a)	Level attitude				p															
25.0485	(b)	Side loads				p															
25.0487		REBOUND LANDING CONDITIONS																			
25.0487	(a)	Loads during rebound				p															
25.0487	(b)	Unsprung weights				p															
25.0489		GROUND HANDLING CONDITIONS																			
25.0489		GROUND HANDLING CONDITIONS				p															
25.0491		TAKE-OFF RUN																			
25.0491		TAKE-OFF RUN				p															
25.0493		BRAKED ROLL CONDITIONS																			
25.0493	(a)	Tail wheel aeroplane				p															
25.0493	(b)	Nose wheel aeroplane				p															
25.0493	(c)	Drag reaction				p															
25.0493	(d)	Dynamic braking reaction				p															
25.0493	(e)	Nose gear vertical reaction				p															
25.0495		TURNING																			
25.0495		TURNING				p															
25.0497		TAIL-WHEEL YAWING																			
25.0497	(a)	Vertical reaction				p															

25.0497	(b)	Swivelled				p															
25.0497	(c)	Locked				p															
25.0499		NOSE-WHEEL YAWING AND STEERING																			
25.0499	(a)	Load factor				p															
25.0499	(b)	Static equilibrium				p															
25.0499	(c)	Nose gear side load				p															
25.0499	(d)	Vertical load factor				p															
25.0499	(e)	Full steering torque				p															
25.0503		PIVOTING																			
25.0503	(a)	Main wheel locked				p															
25.0503	(b)	Static equilibrium				p															
25.0507		REVERSED BRAKING																			
25.0507	(a)	Static ground attitude				p															
25.0507	(b)	Rotational inertia				p															
25.0507	(c)	Tail wheel aeroplanes				p															
25.0509		TOWING LOADS																			
25.0509	(a)	Considered separately				p														L	
25.0509	(b)	Towing point location				p														L	
25.0509	(c)	Reaction				p														L	
25.0509	(d)	Towing loads				p														L	
25.0511		GROUND LOADS Unsymmetrical on multiple-wheels units																			
25.0511	(a)	General				p															
25.0511	(b)	Load distribution				p															
25.0511	(c)	Deflated tyres				p															
25.0511	(d)	Landing conditions				p															
25.0511	(e)	Taxying and ground handling				p															
25.0511	(f)	Towing conditions				p															
25.0519		STATIC GROUND LOAD CONDITIONS																			
25.0519	(a)	Picketing				p															
25.0519	(b)	Jacking				p															
25.0519	(c)	Tie-down				p															
25.0561		EMERGENCY LANDING - GENERAL																			
25.0561	(a)	Protect each occupant				p								s							
25.0561	(b)	Escape serious injury				p								s							
25.0561	(c)	Items of mass				p	s	s		s				s							
25.0561	(d)	Not impede evacuation				p								p							
25.0562		EMERGENCY LANDING DYNAMIC CONDITIONS																			
25.0562	(a)	Seats and restraint systems				p								p							
25.0562	(b)	Passenger seat tests				p								p							
25.0562	(c)	Performance measures				p								p							
25.0563		STRUCTURAL DITCHING PROVISIONS																			
25.0563		STRUCTURAL DITCHING PROVISIONS				p															
25.0571		DAMAGE TOLERANCE AND FATIGUE EVALUATION OF STRUCTURE																			
25.0571	(a)	General				p										s				L	
25.0571	(b)	Damage tolerance				p														L	
25.0571	(c)	Fatigue evaluation				p															
25.0571	(d)	Sonic fatigue strength				p															
25.0571	(e)	Discrete source damage tolerance evaluation				p														L	
25.0581		LIGHTNING PROTECTION																			
25.0581	(a)	Protect against effects				s		p													
25.0581	(b)	Metallic components				s		p													
25.0581	(c)	Non-metallic components				s		p													
SUBPART D - DESIGN AND CONSTRUCTION																					
25.0601		DESIGN - GENERAL																			

25.0601		DESIGN - GENERAL	p			s	s	s	s	s	s			s									
25.0603		MATERIALS																					
25.0603	(a)	Established suitability				p																**L**	
25.0603	(b)	Conform to specifications				p																**L**	
25.0603	(c)	Environmental conditions				p												s				**L**	
25.0605		FABRICATION METHODS																					
25.0605	(a)	Primary Structure				p																	
25.0605	(b)	New methods				p																	
25.0607		FASTENERS																					
25.0607	(a)	Removable fasteners				s	p																
25.0607	(b)	Environmental conditions				s	p																
25.0607	(c)	Locking device				s	p																
25.0609		PROTECTION OF STRUCTURE																					
25.0609	(a)	Structure protected				p																	
25.0609	(b)	Ventilation and drainage				p																	
25.0611		ACCESSIBILITY PROVISIONS																					
25.0611	(a)	Inspections				s	s	s	s					s		p						**L**	
25.0611	(b)	EWIS						p								s						**L**	
25.0613		MATERIAL STRENGTH PROPERTIES AND DESIGN VALUES																					
25.0613	(a)	Based on tests				p																	
25.0613	(b)	Choice of design values				p																	
25.0613	(c)	Effects of temperature				p																	
25.0613	(d)	Reserved				p																	
25.0613	(e)	Accepted specifications				p																	
25.0613	(f)	Alternative design values				p																	
25.0619		SPECIAL FACTORS																					
25.0619	(a)	Uncertain strength				p																	
25.0619	(b)	Likely to deteriorate				p																	
25.0619	(c)	Subject to variability				p																	
25.0621		CASTING FACTORS																					
25.0621	(a)	General				p																	
25.0621	(b)	Bearing stresses and surfaces				p																	
25.0621	(c)	Critical castings				p																	
25.0621	(d)	Non-critical castings				p																	
25.0623		BEARING FACTORS																					
25.0623	(a)	Effects of relative motion				p																	
25.0623	(b)	Larger special factor				p																	
25.0625		FITTING FACTORS																					
25.0625	(a)	Fittings not proven				p																	
25.0625	(b)	No factor				p																	
25.0625	(c)	Section properties				p																	
25.0625	(d)	Seats, belts and harnesses				p												s					
25.0629		AEROELASTIC STABILITY REQUIREMENTS																					
25.0629	(a)	General				p																	
25.0629	(b)	Aeroelastic stability envelopes				p																	
25.0629	(c)	Balance weights				p																	
25.0629	(d)	Failures, malfunctions, and adverse conditions				p	s			s	s												
25.0629	(e)	Flight flutter testing				p																	
25.0631		BIRD STRIKE DAMAGE																					
25.0631		BIRD STRIKE DAMAGE				p	s	s	s	s	s			s									
25.0651		CONTROL SURFACES - PROOF OF STRENGTH																					
25.0651	(a)	Limit load factors				p																	
25.0651	(b)	Special hinge factors				p																	
25.0655		INSTALLATION																					

25.0655	(a)	No interference					p														
25.0655	(b)	Stops on adjustable stabiliser					p														
25.0657		HINGES																			
25.0657	(a)	Factor of safety				p															
25.0657	(b)	Loads parallel to hinge line				p															
25.0671		CONTROL SYSTEMS - GENERAL																			**L**
25.0671	(a)	Operation		p	s		p														
25.0671	(b)	Minimise possibility of incorrect assembly			s		p														
25.0671	(c)	Safe flight after failure		s	s	s	p	s													
25.0671	(d)	Controllability - all engines inoperative		s			p	s													
25.0671	(e)	Indication - primary control means		s			p		s												
25.0671	(f)	Flight Crew alerting - flight control mode		s			p		s												
25.0672		STAB AUGMENTATION & AUTOMATIC & POWER-OPTD SYS.																			**L**
25.0672	(a)	Warning system		s	s		p		s												
25.0672	(b)	Permit override in case of failure		s	s		p		s												
25.0672	(c)	Controllability after single failure		s		s	p		s												
25.0675		STOPS																			
25.0675	(a)	Limit range of motion					p														
25.0675	(b)	Location					p														
25.0675	(c)	Able to withstand loads				s	p														
25.0677		TRIM SYSTEMS																			
25.0677	(a)	Operation		s	s		p	s													
25.0677	(b)	Indication		s	s		p	s													
25.0677	(c)	Designed to prevent creeping				s	p	s													
25.0677	(d)	Irreversible tabs					p														
25.0679		CONTROL SYSTEM GUST LOCKS																			**L**
25.0679	(a)	Device to prevent damage		s		s	p	s													
25.0679	(b)	Preclude inadvertant engagement		s			p	s													
25.0681		LIMIT LOAD STATIC TESTS																			
25.0681	(a)	Compliance to be by test				s	p														
25.0681	(b)	Joints subject to angular motion				s	p														
25.0683		OPERATION TESTS																			
25.0683	(a)	Operation under load				s	p														
25.0683	(b)	Under limit manoeuvre loads				s	p														
25.0683	(c)	No hazard from interference				s	p														
25.0685		CONTROL SYSTEM DETAILS																			
25.0685	(a)	Design and installation					p														
25.0685	(b)	Means to prevent entry of FO		s			p														
25.0685	(c)	Prevent slapping of cables etc					p														
25.0685	(d)	Applicability					p														
25.0689		CABLE SYSTEMS																			
25.0689	(a)	Approval					p														
25.0689	(b)	Pulleys					p														
25.0689	(c)	Fairleads					p														
25.0689	(d)	Clevis pins					p														
25.0689	(e)	Turnbuckles					p														
25.0689	(f)	Provisions for visual inspection					p													**L**	
25.0693		JOINTS																			
25.0693		JOINTS				s	p														
25.0697		LIFT AND DRAG DEVICES, CONTROLS																			**L**
25.0697	(a)	General		s	s		p	s													
25.0697	(b)	Prevent inadvertant operation		s	s		p														
25.0697	(c)	Satisfactory characteristics		s			p														
25.0697	(d)	Retract at VF +9 kts				s	p														

25.0699		LIFT AND DRAG DEVICE INDICATOR																					**L**
25.0699	(a)	Indicating the position of each device		s	s		p	s															
25.0699	(b)	T/O approach and landing positions		s	s		p	s															
25.0699	(c)	Extension beyond landing position		s	s		p																
25.0701		FLAP AND SLAT INTERCONNECTION																					
25.0701	(a)	Synchronisation		s			p																
25.0701	(b)	Unsymmetrical loads				s	p																
25.0701	(c)	Flaps/slats not subject to slipstream				s	p																
25.0701	(d)	Designed for loads				s	p																
25.0703		TAKE-OFF WARNING SYSTEM																					**L**
25.0703	(a)	Aural configuration warning		p	s		s	s	p														
25.0703	(b)	To continue until		p	s		s	s	p														
25.0703	(c)	Activation means		p	s		s	s	p														
25.0705		RUNWAY OVERRUN AWARENESS AND ALERTING SYSTEMS																					
25.0705	(a)	ROAAS Energy based calculations		P	s				P														
25:0705	(b)	ROAAS Runway conditions		P	s				P														
25.0721		LANDING GEAR																					
25.0721	(a)	Main landing gear failure				p				s													
25.0721	(b)	Landing with gear not extended				p				s													
25.0721	(c)	Analysis or test				p				s													
25.0723		SHOCK ABSORPTION TESTS																					
25.0723	(a)	Limit energy absorption				p																	
25.0723	(b)	Reserve energy absorption				p																	
25.0723	(c)	Changes in weight and design				p	s																
25.0729		RETRACTING MECHANISM																					**L**
25.0729	(a)	General				p	s																
25.0729	(b)	Landing gear lock					p																
25.0729	(c)	Emergency operation		s			p																
25.0729	(d)	Operation test		s			p																
25.0729	(e)	Position indicator and warning device		s	s		p	s															
25.0731		WHEELS																					
25.0731	(a)	Approval					p																
25.0731	(b)	Static load rating				s	p																
25.0731	(c)	Limit load rating				s	p																
25.0731	(d)	Overpressure burst prevention					p																
25.0731	(e)	Braked wheels					p																
25.0733		TYRES																					
25.0733	(a)	Speed and load rating					p																
25.0733	(b)	Nosewheel ground reactions					p																
25.0733	(c)	Multi-wheel axles					p																
25.0733	(d)	Tyre clearance - retractable units					p																
25.0733	(e)	Weight					p																
25.0733	(f)	Minimum serviceable inflation					P																
25.0734		TYRE FAILURES																					
25.0734		TYRE FAILURES				p	p			p													
25.0735		BRAKES AND BRAKING SYSTEMS																					**L**
25.0735	(a)	Approval					p																
25.0735	(b)	Brake system capability		s			p	s															
25.0735	(c)	Brake controls		s			p																
25.0735	(d)	Parking brake		s			p																
25.0735	(e)	Antiskid systems		s			p	s															
25.0735	(f)	Design landing KE					p																
25.0735	(g)	Brake condition after hight kinetic energy dynamometer stop(s)					p																
25.0735	(h)	Stored energy systems					p																

25.0735	(i)	Brake wear indicators		s			p														
25.0735	(j)	Over-temperature burst prevention					p														
25.0735	(k)	Compatibility					p														
25.0735	(l)	Wheel brake temperature					p														
25.0745		NOSE WHEEL STEERING																			
25.0745	(a)	Exceptional skill not required		s			p													**L**	
25.0745	(b)	No interference with gear operation		s			p													**L**	
25.0745	(c)	No single failure to have Hazardous Effect					p													**L**	
25.0745	(d)	Protection from towing damage					p													**L**	
25.0745	(e)	Landing with nose wheel in possible positions					p													**L**	
25.0771		PILOT COMPARTMENT																			
25.0771	(a)	Workload		p	p																
25.0771	(b)	Location relative to propellers		p			s			s											
25.0771	(c)	Control from either pilot seat		p	s																
25.0771	(d)	Weather sealing		p		s															
25.0771	(e)	Vibration and noise		p	s																
25.0772		PILOT COMPARTMENT DOORS																			**L**
25.0772	(a)	Emergency exit provision											p								
25.0772	(b)	Passenger compartment accessibility		s									p								
25.0772	(c)	Fligh crew incapacity		s									p								
25.0773		PILOT COMPARTMENT VIEW																			
25.0773	(a)	Non precipation conditions		p	s																
25.0773	(b)	Precipitation conditions		s	s			s			p										
25.0773	(c)	Internal fogging		s				s			p										
25.0773	(d)	Eye position markers		p	s								p								
25.0775		WINDSHIELDS AND WINDOWS																			
25.0775	(a)	Internal panes				p							s								
25.0775	(b)	Bird impact conditions				p															
25.0775	(c)	Minimise danger to pilots				p															
25.0775	(d)	Pressurisation loads				p															
25.0775	(e)	One or more panels available		p																	
25.0777		COCKPIT CONTROLS																		**L**	
25.0777	(a)	Location		p	s		s						s								
25.0777	(b)	Direction of movement		p	s		s						s								
25.0777	(c)	Full, unrestricted movement		p	s		s						s								
25.0777	(d)	Powerplant controls		p	s					s											
25.0777	(e)	Auxiliary lift device controls		p	s		s														
25.0777	(f)	Landing gear control		p	s		s														
25.0777	(g)	Control knob shape		p	s		s														
25.0777	(h)	Flight engineer station		p	s																
25.0777	(i)	Pitch/roll control forces and displacement sensitivity		p	s		s														
25.0779		MOTION AND EFFECT OF COCKPIT CONTROLS																		**L**	
25.0779	(a)	Aerodynamic controls		p	s		s														
25.0779	(b)	Auxiliary controls		p	s		s			s											
25.0781		COCKPIT CONTROL KNOB SHAPE																		**L**	
25.0781		COCKPIT CONTROL KNOB SHAPE		p			s			s											
25.0783		FUSELAGE DOORS																	**L**		
25.0783	(a)	One easily accessible door					p			s			s								
25.0783	(b)	Locking					p						s								
25.0783	(c)	Free from jamming					p						s								
25.0783	(d)	Location					p						s								
25.0783	(e)	Inspection and warming					p						s								
25.0783	(f)	Prevent pressurisation					p				s										

25.0783	(g)	Cargo and service doors					p			s				s						
25.0783	(h)	Passenger entry doors					p			s				s						
25.0785		SEATS, BERTHS, SAFETY BELTS AND HARNESSESS																**L**		**L**
25.0785	(a)	Provision for												p						
25.0785	(b)	Prevent serious injury				s								p						
25.0785	(c)	Approved												p						
25.0785	(d)	Protection of occupants												p						
25.0785	(e)	Berths				s								p						
25.0785	(f)	Strength				p								s						
25.0785	(g)	Crew member seats		s		s								p						
25.0785	(h)	Flight attendant seats												p						
25.0785	(i)	Seat belt latches												p						
25.0785	(j)	Hand grips												p						
25.0785	(k)	Projections to be padded												p						
25.0785	(l)	Forward observer's seat		p										s						
25.0787		STOWAGE COMPARTMENTS																**L**		
25.0787	(a)	Loads				p								p						
25.0787	(b)	Means to prevent shifting				p								p						
25.0787	(c)	Cargo compartment lamps						s						p						
25.0788		PASSENGER AMENITIES																		
25.0788	(a)	Showers												p						
25.0788	(b)	Large Display Panel				s								p						
25.0789		RETENTION ITEMS OF MASS IN PAX COMPARTMENTS AND GALLEYS																**L**		
25.0789	(a)	Means to prevent shifting				p								s						
25.0789	(b)	Interphone restraint system				p								s						
25.0791		PASSENGER INFORMATION SIGNS																		
25.0791	(a)	No smoking signs		s				s						p						
25.0791	(b)	Seat belt signs		s				s						p						
25.0791	(c)	Placards												p						
25.0791	(d)	Lavatory placards												p						
25.0791	(e)	Symbols use in lieu of letters												p						
25.0793		FLOOR SURFACES																		
25.0793		FLOOR SURFACES												p						
25.0795		SECURITY CONSIDERATIONS																		
25.0795	(a)	Protection of flight deck				s								p						
25.0795	(b)	Explosive or incendiary effects				s					s			p						
25.0795	(c)	Least risk bomb system, survivability of systems				s	s	s	s	s	s			p						
25.0795	(d)	Chemical oxygen generator secure installation									p			s						
25.0801		DITCHING																**L**		
25.0801	(a)	Applicability												p						
25.0801	(b)	Design measures				p								p						
25.0801	(c)	Probable behaviour		p		p								p						
25.0801	(d)	Flotation time				s								p						
25.0801	(e)	External doors and windows				p								s						
25.0803		EMERGENCY EVACUATION																**L**		
25.0803	(a)	Means to allow evacuation												p						
25.0803	(b)	Reserved																		
25.0803	(c)	Evacuation demonstration												p						
25.0805		RESERVED																		
25.0807		EMERGENCY EXITS																**L**		**L**
25.0807	(a)	Type												p						
25.0807	(b)	Step down dist												p						
25.0807	(c)	Over-sized exits												p						
25.0807	(d)	Pax emergency exits												p						

25.0807	(e)	Ditching emergency exits				s								p						
25.0807	(f)	Flight crew emergency exits		s										p						
25.0807	(g)	Type and number required		s										p						
25.0807	(h)	Other exits												p						
25.0807	(i)	Ditching emergency exits												p						
25.0807	(j)	Flight crew emergency exits												p						
25.0809		EMERGENCY EXIT ARRANGEMENTS																	**L**		**L**
25.0809	(a)	Definition of Exit					s							p						
25.0809	(b)	Openable from both sides					s							p						
25.0809	(c)	Means of opening					s							p						
25.0809	(d)	Power operated exits					p							p						
25.0809	(e)	Means of compliance												p						
25.0809	(f)	Location of doors					p							p						
25.0809	(g)	Minimise probability of jamming				s	s							p						
25.0809	(h)	Reserved																		
25.0809	(i)					s	s							p						
25.0810		EMERGENCY EGRESS ASSIST MEANS AND ESCAPE ROUTES																	**L**		**L**
25.0810	(a)	Assist means												p						
25.0810	(b)	Type A exits												p						
25.0810	(c)	Escape routes required												p						
25.0810	(d)	Escape route height												p						
25.0810	(e)	Integral stair												p						
25.0811		EMERGENCY EXIT MARKING																	**L**		**L**
25.0811	(a)	Conspicuously marked												p						
25.0811	(b)	Recognisable from a distance												p						
25.0811	(c)	In conditions of dense smoke						s						p						
25.0811	(d)	Sign visible to occupants approaching						s						p						
25.0811	(e)	Location of operating handle												p						
25.0811	(f)	External marking												p						
25.0811	(g)	Wording												p						
25.0812		EMERGENCY LIGHTING																	**L**		**L**
25.0812	(a)	Independent system						s						P						
25.0812	(b)	Emergency Exit signs						s						P						
25.0812	(c)	General illumination						s						P						
25.0812	(d)	Floor illumination						s						P						
25.0812	(e)	Floor proximity lighting						s						P						
25.0812	(f)	System design						s						P						
25.0812	(g)	Exterior emergency lighting						s						P						
25.0812	(h)	Assist means illumination						s						P						
25.0812	(i)	10 minutes supply						p						s						
25.0812	(j)	Battery charging menas						p												
25.0812	(k)	Inertia forces				s		p												
25.0812	(l)	Transverse vertical separation						p						s						
25.0813		EMERGENCY EXIT ACCESS AND EASE OF OPERATION																	**L**		**L**
25.0813	(a)	Passageways												p						
25.0813	(b)	Assist space												p						
25.0813	(c)	Access to Type III or Type IV exits												p						
25.0813	(d)	Unobstructed passageway												p						
25.0813	(e)	No door to be installed												p						
25.0813	(f)	Doors to be latched open				s								p						
25.0815		WIDTH OF AISLE																			
25.0815		WIDTH OF AISLE												p						
25.0817		MAXIMUM NUMBER OF SEATS ABREAST																			
25.0817		MAXIMUM NUMBER OF SEATS ABREAST												p						

25.0819		LOWER DECK SERVICE COMPARTMENTS (INCLUDING GALLEYS)																	**L**		**L**
25.0819	(a)	Evacuation routes												p							
25.0819	(b)	Voice communication						s						p							
25.0819	(c)	Alarm system						s						p							
25.0819	(d)	Seat belt sign						s						p							
25.0819	(e)	P/A system												p							
25.0819	(f)	Seat for occupants												p							
25.0819	(g)	Lift system												p							
25.0820		LAVATORY DOORS																	**L**		**L**
25.0820		LAVATORY DOORS												p							
25.0831		VENTILATION AND HEATING																	**L**		**L**
25.0831	(a)	Passenger and crew compartment								p											
25.0831	(b)	Free of harmful gases								p											
25.0831	(c)	Reasonably probable failures								p											
25.0831	(d)	Smoke evacuation								p											
25.0831	(e)	Ventilation control								p											
25.0831	(f)	Independent control not required								p											
25.0832		CABIN OZONE CONCENTRATION																			
25.0832	(a)	Not to exceed								p											
25.0832	(b)	sea level equivalent								p											
25.0832	(c)	Analysis and tests								p											
25.0833		COMBUSTION HEATING SYSTEMS																			
25.0833		COMBUSTION HEATING SYSTEMS								p											
25.0841		PRESSURISED CABINS																			**L**
25.0841	(a)	Cabin pressure altitude								p											
25.0841	(b)	Valves, controls and indicators				s				p											
25.0843		TESTS FOR PRESSURISED CABINS																			
25.0843	(a)	Strength test				p				s											
25.0843	(b)	Functional test					s			p											
25.0851		FIRE EXTINGUISHERS																	**L**		**L**
25.0851	(a)	Hand fire extinguishers		s										p							
25.0851	(b)	Built-in fire extinguishers												p							
25.0851	(c)	Fire-extinguishing agents												p							
25.0853		COMPARTMENT INTERIORS																			
25.0853	(a)	Materials												p							
25.0853	(b)	Reserved												p							
25.0853	(c)	seat cushions												p							
25.0853	(d)	Panels												p							
25.0853	(e)	No need to comply												p							
25.0853	(f)	Smoking places												p							
25.0853	(g)	Ashtrays in lavatories												p							
25.0853	(h)	Disposal receptacle												p							
25.0854		LAVATORY FIRE PROTECTION																	**L**		**L**
25.0854	(a)	Smoke detector												p							
25.0854	(b)	Fire extinguisher												p							
25.0855		CARGO OR BAGGAGE COMPARTMENTS																			
25.0855	(a)	Classification												p							
25.0855	(b)	Liners												p							
25.0855	(c)	Liner tests & Cockpit voice and flight data rec sys against fire												p							
25.0855	(d)	Materials												p							
25.0855	(e)	Equipment Protection					s	s	s	s				p							
25.0855	(f)	Cargo restraint												p							
25.0855	(g)	Heat sources												p							
25.0855	(h)	Flight tests												p							

25.0855	(i)	Inadvertenet operation												p						
25.0855	(j)	EWIS						p						s						
25.0856		THERMAL/ACOUSTIC INSULATION MATERIALS																		
25.0856	(a)	Thermal/acoustic insulation materials									s			p						
25.0856	(b)	Thermal/acoustic insulation materials									s			p						
25.0857		CARGO COMPARTMENT CLASSIFICATION																		
25.0857	(a)	Class A												p						
25.0857	(b)	Class B						s						p						
25.0857	(c)	Class C						s						p						
25.0857	(d)	Reserved																		
25.0857	(e)	Class E						s						p						
25.0857	(f)	Class F						s						p						
25.0858		CARGO COMPARTMENT FIRE DETECTION SYSTEMS																**L**		**L**
25.0858	(a)	Visual indication						s						p						
25.0858	(b)	Detection at low temperature				s		s						p						
25.0858	(c)	In-flight functional check						s						p						
25.0858	(d)	Demonstrate effectiveness						s						p						
25.0859		COMBUSTION HEATER FIRE PROTECTION																		
25.0859	(a)	Combustion heater fire zones								p	s									
25.0859	(b)	Ventilating air ducts								p	s									
25.0859	(c)	Combustion air ducts								p	s									
25.0859	(d)	Heater controls								p	s									
25.0859	(e)	Heater safety controls								p	s									
25.0859	(f)	Air intakes								p	s									
25.0859	(g)	Heater exhaust								p	s									
25.0859	(h)	Fuel system								p	s									
25.0859	(i)	Drains								p	s									
25.0863		FLAMMABLE FLUID FIRE PROTECTION																		
25.0863	(a)	Minimise probability of ignition					s	s	s	p	s			p						
25.0863	(b)	Factors to be considered					s	s	s	p	s			p						
25.0863	(c)	Alerting means		s				s	s	p	s			p						
25.0863	(d)	Leakage areas identified					s			p	s			p						
25.0865		FIRE PROT FLT CTRLS ENGINE MOUNTS & OTHER FLT STRCT																		
25.0865		FIRE PROT FLT CTRLS ENGINE MOUNTS & OTHER FLT STRCT				p	s			p										
25.0867		FIRE PROTECTION: OTHER COMPONENTS																		
25.0867	(a)	Surfaces to the rear of nacelles								p										
25.0867	(b)	Applicability								p										
25.0869		FIRE PROTECTION: SYSTEMS																		
25.0869	(a)	Electrical system components					s	p		s	s									
25.0869	(b)	Vacuum systems								s	p									
25.0869	(c)	Oxygen equipment								s	p									
25.0871		LEVELLING MEANS																		
25.0871		Levelling means				p														
25.0875		REINFORCEMENT NEAR PROPELLERS																		
25.0875	(a)	Ice and induced vibration				p				s	s									
25.0875	(b)	Window location				p				s	s									
25.0899		ELEC BONDING AND PROTEC AGAINST LIGHTNING AND STATIC ELEC																		
25.0899	(a)	Protect against static electricity					s	p		s										
25.0899	(b)	Showing of compliance					s	p		s										
SUBPART E - POWERPLANT																				
25.0901		INSTALLATION																		
25.0901	(a)	Definition								p										

25.0901	(b)	General requirements							s		p										**L**	
25.0901	(c)	25.1309 x-ref		s	s	s	s	s		p	s					s						
25.0903		ENGINES																				
25.0903	(a)	Type Certification								p	s											
25.0903	(b)	Isolation						s	s	p	s											
25.0903	(c)	Control of rotation				s	s			p	s											
25.0903	(d)	Rotor burst				s	s	s	s	p	s											
25.0903	(e)	Restart capability		s	s			s		p												
25.0904		AUTOMATIC TAKEOFF THRUST CONTROL SYSTEM (ATTCS)																				
25.0904		AUTOMATIC TAKEOFF THRUST CONTROL SYSTEM (ATTCS)								p												
25.0905		PROPELLERS																				
25.0905	(b)	Limitations								p												
25.0905	(c)	JAR / CS P-420 x-ref								p												
25.0905	(d)	Debris release				s	s	s	s	p												
25.0907		PROPELLER VIBRATION																				
25.0907	(a)	Vibration stress				s				p												
25.0907	(b)	Max vibration stress				s				p												
25.0925		PROPELLER CLEARANCE																				
25.0925	(a)	Ground clearance								p												
25.0925	(b)	Reserved								p												
25.0925	(c)	Structural Clearance								p												
25.0929		PROPELLER DE-ICING																				
25.0929	(a)	Ice protection								p	s											
25.0929	(b)	Combustible fluid								p												
25.0933		REVERSING SYSTEMS																				
25.0933	(a)	For turbojet reversing systems		s		s				p											**L**	
25.0933	(b)	For propeller reversing systems		s		s				p												
25.0934		TURBO-JET ENGINE THRUST REVERSER SYSTEM TESTS																				
25.0934		TURBO-JET ENGINE THRUST REVERSER SYSTEM TESTS				s				p												
25.0937		TURBO-PROPELLER DRAG LIMITING SYSTEMS																				
25.0937		TURBO-PROPELLER DRAG LIMITING SYSTEMS								p												
25.0939		TURBINE ENGINE OPERATING CHARACTERISTICS																				
25.0939	(a)	Operating characteristics investigation		s						p												
25.0939	(b)	Reserved																				
25.0939	(c)	Harmful vibration				s				p												
25.0941		INLET ENGINE AND EXHAUST COMPATIBILITY																				
25.0941	(a)	Function properly		s		s				p												
25.0941	(b)	Dynamic effects		s		s				p												
25.0941	(c)	Pilot strength			s					p												
25.0943		NEGATIVE ACCELERATION																				
25.0943		NEGATIVE ACCELERATION								p												
25.0945		THRUST OR POWER AUGMENTATION SYSTEM																				
25.0945	(a)	Fluid injection system				s				p												
25.0945	(b)	Fluid tanks								p												
25.0945	(c)	System drains								p												
25.0945	(d)	Tank capacity								p												
25.0951		FUEL SYSTEM																				**L**
25.0951	(a)	Fuel system - general								p												
25.0951	(b)	Air in fuel								p												
25.0951	(c)	Water in fuel								p												
25.0952		FUEL SYSTEM ANALYSIS AND TEST																				
25.0952	(a)	Proper functioning								p												
25.0952	(b)	Withstand loads								p												
25.0953		FUEL SYSTEM INDEPENDENCE																				

25.0953	(a)	Supply fuel to each engine								p												
25.0953	(b)	Acceptable method								p												
25.0954		FUEL SYSTEM LIGHTNING PROTECTION																				
25.0954	(a)	Direct strokes						p		s												
25.0954	(b)	Swept strokes						p		s												
25.0954	(c)	Corona and streamering						p		s												
25.0954	(d)	CDCCL						p		s												
25.0955		FUEL FLOW																				
25.0955	(a)	100% of fuel flow		s						p												
25.0955	(b)	From more than one tank								p												
25.0957		FLOW BETWEEN INTERCONNECTED TANKS																				
25.0957		FLOW BETWEEN INTERCONNECTED TANKS		s						p												
25.0959		UNUSABLE FUEL SUPPLY																				
25.0959		UNUSABLE FUEL SUPPLY								p												
25.0961		FUEL SYSTEM HOT WEATHER OPERATION																				
25.0961	(a)	Perform satisfactorily		s						p												
25.0961	(b)	Test conditions		s						p												
25.0963		FUEL TANKS: GENERAL																				
25.0963	(a)	Withstand loads				s				p												
25.0963	(b)	Flexible liners				s				p												
25.0963	(c)	Facility for internal inspection				p				s												
25.0963	(d)	Survivable crash conditions				p				p												
25.0963	(e)	Access covers				p	s			p												
25.0963	(f)	Prevent pressure build-up				s				p												
25.0963	(g)	Reserved																				
25.0965		FUEL TANK TESTS																				
25.0965	(a)	Withstand pressures				s				p												
25.0965	(b)	Unsupported surfaces				s				p												
25.0965	(c)	Non-metallic tanks				s				p												
25.0965	(d)	Pressurised tanks				s				p												
25.0967		FUEL TANK INSTALLATION																				
25.0967	(a)	Fuel tank support								p												
25.0967	(b)	Ventilation								p												
25.0967	(c)	Location								p												
25.0967	(d)	No nacelle skin								p	s											
25.0967	(e)	Isolation								p												
25.0969		FUEL TANK EXPANSION SPACE																				
25.0969		FUEL TANK EXPANSION SPACE								p												
25.0971		FUEL TANK SUMP																				
25.0971	(a)	Capacity								p												
25.0971	(b)	Drainage to sump								p												
25.0971	(c)	Sump drains								p												
25.0973		FUEL TANK FILLER CONNECTION																				
25.0973	(a)	Reserved																				
25.0973	(b)	Recessed connection								p												
25.0973	(c)	Filler cap								p												
25.0973	(d)	Bonding provision						s		p												
25.0975		FUEL TANK VENTS																				
25.0975	(a)	Effective venting								p												
25.0977		FUEL TANK OUTLET																				
25.0977	(a)	Fuel strainer								p												
25.0977	(b)	Reserved								p												
25.0977	(c)	Clear area of strainer								p												
25.0977	(d)	Diameter of strainer								p												

25.0977	(e)	Accessibility of strainer								p												
25.0979		PRESSURE FUELLING SYSTEM																				
25.0979	(a)	Prevent escape of fuel						s		p												
25.0979	(b)	Automatic shut-off						s		p												
25.0979	(c)	Prevent damage to system								p												
25.0979	(d)	Withstand loads								p												
25.0979	(e)	Withstand loads								p												
25.0981		FUEL TANK IGNITION PREVENTION																				
25.0981	(a)	Ignition source						s		p												
25.0981	(b)	Fuel tank flammability								p												
25.0981	(c)	Reserved																				
25.0981	(d)	Prevention						s		p						s					**L**	
25.0991		FUEL PUMPS																				
25.0991	(a)	Main pumps								p												
25.0991	(b)	Emergency pumps								p												
25.0993		FUEL SYSTEM LINES AND FITTINGS																				
25.0993	(a)	Fuel line installation								p												
25.0993	(b)	Connections								p												
25.0993	(c)	Flexible connections								p												
25.0993	(d)	Flexible hose								p												
25.0993	(e)	Resistance to temperature								p												
25.0993	(f)	Deformation and stretching								p												
25.0994		FUEL SYSTEM COMPONENTS																				**L**
25.0994		FUEL SYSTEM COMPONENTS				s				p												
25.0995		FUEL VALVES																				**L**
25.0995	(a)	Reserved								p												
25.0995	(b)	Valves to be supported								p												
25.0997		FUEL SYSTEM OR STRAINER																				
25.0997	(a)	Accessibility								p												
25.0997	(b)	Sediment trap								p												
25.0997	(c)	Mounting								p												
25.0997	(d)	Engine functioning not impaired								p												
25.0999		FUEL SYSTEM DRAINS																				
25.0999	(a)	Drainage required								p												
25.0999	(b)	Detail design				s				p												
25.1001		FUEL JETTISONING SYSTEM																				
25.1001	(a)	Performance		s						p												
25.1001	(b)	System capability		s						p												
25.1001	(c)	Jettisoning demonstration		s						p												
25.1001	(d)	Jettisoning criteria		s						p												
25.1001	(e)	Reserved		s						p												
25.1001	(f)	Prevent jettisoning		s						p												
25.1001	(g)	Allow valve closure		s						p												
25.1001	(h)	Limitations								p												
25.1001	(i)	Single malfunction								p												
25.1011		OIL SYSTEM																				**L**
25.1011	(a)	Independent system								p												
25.1011	(b)	Usable oil capacity								p												
25.1013		OIL TANKS																				
25.1013	(a)	Installation								p												
25.1013	(b)	Expansion space								p												
25.1013	(c)	Filler connection								p												
25.1013	(d)	Vent								p												
25.1013	(e)	Outlet								p												

25.1013	(f)	Flexible oil tank liners								p											
25.1015		OIL TANK TESTS																			
25.1015	(a)	Withstand loads								p											
25.1015	(b)	Pressure tests								p											
25.1017		OIL LINES AND FITTINGS																			
25.1017	(a)	Oil lines								p											
25.1017	(b)	Breather lines								p											
25.1019		OIL STRAINER OR FILTER																			**L**
25.1019	(a)	Strainer required								p											
25.1021		OIL SYSTEM DRAINS																			
25.1021	(a)	Accessibility								p											
25.1021	(b)	Positive locking								p											
25.1023		OIL RADIATORS																			
25.1023	(a)	Withstand loads								p											
25.1023	(b)	Location								p											
25.1025		OIL VALVES																			
25.1025	(a)	Oil shut-off								p											
25.1025	(b)	Not prevent propeller feathering								p											
25.1025	(c)	Positive stops								p											
25.1027		PROPELLER FEATHERING SYSTEM																			
25.1027	(a)	Means to trap oil								p											
25.1027	(b)	Sufficient to feather								p											
25.1027	(c)	Demonstration								p											
25.1027	(d)	Protection from foreign matter								p											
25.1041		GENERAL																			
25.1041		GENERAL								p											
25.1043		COOLING TEST																			
25.1043	(a)	Cooling tests-general		s						p											
25.1043	(b)	Maximum ambient temperature								p											
25.1043	(c)	Correction factor								p											
25.1045		COOLING TEST PROCEDURE																			
25.1045	(a)	Compliance demonstration		s						p											
25.1045	(b)	Temperature stabilisation		s						p											
25.1045	(c)	Tests continued until		s						p											
25.1091		AIR INTAKE																			
25.1091	(a)	Air supply								p											
25.1091	(b)	Reserved																			
25.1091	(c)	Location								p											
25.1091	(d)	Ingestion - fluids		s						p											
25.1091	(e)	Ingestion - foreign objects								p											
25.1093		AIR INTAKE SYSTEM DE-ICING AND ANTI-ICING PROVISIONS																			
25.1093	(a)	Reserved								p											
25.1093	(b)	Icing conditions		s						p	p										
25.1103		AIR INTAKE SYSTEM DUCTS AND AIR DUCT SYSTEM																			
25.1103	(a)	Reserved								p											
25.1103	(b)	Strength & Fire Resistance				s				p											
25.1103	(c)	Means for flexibility								p											
25.1103	(d)	Bleed duct rupture								p	s										
25.1121		EXHAUST SYSTEM - GENERAL																			**L**
25.1121	(a)	Safe disposal of gases								p											
25.1121	(b)	Shielding of hot parts								p											
25.1121	(c)	Fire proof parts								p											
25.1121	(d)	Fire hazards								p											
25.1121	(e)	Not to cause glare								p											

25.1121	(f)	Ventilation								p											
25.1121	(g)	Shroud ventilation								p											
25.1123		EXHAUST PIPING																			
25.1123	(a)	Heat and corrosion resistance				s				p											
25.1123	(b)	Supported to withstand loads								p											
25.1123	(c)	Means for flexibility								p											
25.1141		POWERPLANT CONTROLS: GENERAL																			
25.1141	(a)	Location		s	s					p											
25.1141	(b)	Flexible controls		s						p											
25.1141	(c)	Strength and rigidity		s						p											
25.1141	(d)	Maintain position		s	s					p											
25.1141	(e)	Fire resistance								p											
25.1141	(f)	Powerplant valve controls		s						p											
25.1143		ENGINE CONTROLS																			
25.1143	(a)	Power control								p											
25.1143	(b)	Separated and simultaneous control		s						p											
25.1143	(c)	Positive and responsive control		s						p											
25.1143	(d)	Fluid injection system		s						p											
25.1143	(e)	Shut off balk		s	s					p											
25.1145		IGNITION SWITCHES																			L
25.1145	(a)	Ignition switches						s		p											
25.1145	(b)	Means to shutt-off						s		p											
25.1145	(c)	Prevent inadvertant operation			s			s		p											
25.1149		PROPELLER SPEED AND PITCH CONTROLS																			
25.1149	(a)	Separate controls		s						p											
25.1149	(b)	Separate and simultaneous control		s						p											
25.1149	(c)	Synchronisation		s						p											
25.1149	(d)	Location		s						p											
25.1153		PROPELLER FEATHER CONTROLS																			
25.1153	(a)	Prevent inadvertant operation		s						p											
25.1153	(b)	During normal operation		s						p											
25.1155		REVERSE THRUST AND PROPELLEER PITCH SETTINGS																			
25.1155	(a)	Positive lock or stop		s						p										L	
25.1155	(b)	Inadvertment or intentional reverse thrust		s						p										L	
25.1155	(c)	Reliability		s						p										L	
25.1155	(d)	Caution to the flight crew		s						p										L	
25.1155	(e)	Caution to the flight crew		s						p										L	
25.1161		FUEL JETTISONING SYSTEM CONTROLS																			
25.1161		FUEL HETTISONING SYSTEM CONTROLS		s	s					p											
25.1163		POWERPLANT ACCESSORIES																			
25.1163	(a)	Engine mounted accessories					s	s		p											
25.1163	(b)	Electrical equipment						s		p											
25.1163	(c)	Means to prevent rotation					s	s		p											
25.1165		ENGINE IGNITION SYSTEMS																			L
25.1165	(a)	Battery ignition systems						p		s											
25.1165	(b)	Capacity						p		s											
25.1165	(c)	Failure conditions						p		s											
25.1165	(d)	Reserved																			
25.1165	(e)	Ground wire routing						s		p											
25.1165	(f)	Independence						p		s											
25.1165	(g)	Discharge warning		s				p		s											
25.1165	(h)	Essential load						p		s											
25.1167		ACCESSORY GEARBOXES																			
25.1167	(a)	Engine and Gearbox test								p											

25.1167	(b)	Requirements								p												
25.1167	(c)	Misalignments								p												
25.1181		DESIGNATED FIRE ZONES: REGIONS INCLUDED																				
25.1181	(a)	Definition								p												
25.1181	(b)	Requirements								p												
25.1182		AREAS BEHIND FIREWALLS CONTAINING FLAMMABLE FLUIDS																				
25.1182	(a)	Nacelle areas								p												
25.1182	(b)	Landing gear retracted					s			p												
25.1183		FLAMMABLE FLUID-CARRYING COMPONENTS																				
25.1183	(a)	Fire resistant lines					s			p												
25.1183	(b)	Lines not included					s			p												
25.1183	(c)	Within fire zone					s			p												
25.1185		FLAMMABLE FLUIDS																				
25.1185	(a)	Tank or reservoir					s			p				s								
25.1185	(b)	Clear airspace					s			p				s								
25.1185	(c)	Absorbent materials					s			p	s			s								
25.1187		DRAINAGE AND VENTILATION OF FIRE ZONES																				
25.1187	(a)	Complete drainage		s						p												
25.1187	(b)	Ventilation								p												
25.1187	(c)	Location of openings								p												
25.1187	(d)	No additional hazard								p												
25.1187	(e)	Ventilation shut-off								p												
25.1189		SHUT-OFF MEANS																				
25.1189	(a)	Flammable fluid shut-off					s			p												
25.1189	(b)	Fuel shut-off								p												
25.1189	(c)	Emergency operation								p												
25.1189	(d)	Fireproof shut-off means					s			p												
25.1189	(e)	Drainage after shut-off								p												
25.1189	(f)	Prevent inadvertant operation		s			s			p												
25.1189	(g)	Unaffected by structural					s			p												
25.1189	(h)	Means to relieve pressure					s			p												
25.1191		FIREWALLS																				
25.1191	(a)	Firewall required								p												
25.1191	(b)	Firewall design								p												
25.1193		COWLING AND NACELLE SKINS																				
25.1193	(a)	Withstand loads				s				p												
25.1193	(b)	Drainage and ventilation								p												
25.1193	(c)	Isolating diaphragm								p												
25.1193	(d)	Cowling parts to be fireproof								p												
25.1193	(e)	Design and construction								p												
25.1193	(f)	Retention System openable Cowlings								p												
25.1195		FIRE-EXTINGUISHER SYSTEMS																				
25.1195	(a)	Each designated fire zone								p												
25.1195	(b)	Adequate to extinguish		s						p												
25.1195	(c)	Protect each zone								p												
25.1197		FIRE-EXTINGUISHING AGENTS																				
25.1197	(a)	Capable of extinguishing								p												
25.1197	(b)	Toxic agents								p	s											
25.1199		EXTINGUISHING AGENT CONTAINERS																				
25.1199	(a)	Pressure relief								p												
25.1199	(b)	Nozzle location								p												
25.1199	(c)	Discharge indicator								p												
25.1199	(d)	Maintain temperature								p												

25.1199	(e)	Pyrotechnic capsule								p											
25.1201		FIRE EXTINGUISHING SYSTEM MATERIALS																			
25.1201	(a)	No reactive material								p											
25.1201	(b)	Fireproof components								p											
25.1203		FIRE-DETECTOR SYSTEM																			L
25.1203	(a)	Fire and overheat detectors								p											
25.1203	(b)	Construction and installation						s		p											
25.1203	(c)	Resistance to fluids								p											
25.1203	(d)	In flight check								p											
25.1203	(e)	Fire resistant components						s		p											
25.1203	(f)	System routing								p											
25.1203	(g)	Activation time								p											
25.1203	(h)	EWIS						p		s											
25.1207		COMPLIANCE																			
25.1207	(a)	Similarity								p											
25.1207	(b)	Component test								p											
25.1207	(c)	Service experience								p											
25.1207	(d)	Analysis								p											
SUBPART F - EQUIPMENT																					
25.1301		FUNCTION AND INSTALLATION																			L
25.1301	(a)	Appropriate design/Labelling/Installation		p	s		p	p	p	p	p		s			s				L	
25.1301	(b)	EWIS		s	s		s	p	s	s	s					s				**L**	
25.1302		INSTALLED SYSTEMS AND EQUIPMENT FOR USE BY THE FLIGHT CREW																		**L**	**L**
25.1302	(a)	Flight deck controls installation		p	p		s	s	s	s	s			s							
25.1302	(b)	Flight deck controls information		p	p		s	s	s	s	s			s							
25.1302	(c)	Operational behaviour of equipment		p	p		s	s	s	s	s			s							
25.1302	(d)	Management of errors from flight crew interaction		s	p		s	s	s	s											
25.1303		FLIGHT AND NAVIGATION INSTRUMENTS																		**L**	**L**
25.1303	(a)	Visible by each pilot		s	s				p												
25.1303	(b)	At each pilot station		s					p												
25.1303	(c)	Speed limitation		s					p												
25.1305		POWERPLANT INSTRUMENTS																		**L**	
25.1305	(a)	All aeroplanes		s				s	s	p	s									**L**	
25.1305	(b)	Reserved		s				s	s	p											
25.1305	(c)	Turbine-powered aeroplanes		s				s	s	p	s										
25.1305	(d)	Turbo-jet aeroplanes		s				s	s	p											
25.1305	(e)	Turbo-prop aeroplanes		s				s	s	p											
25.1305	(f)	Thrust augmentation		s				s	s	p											
25.1307		MISCELLANEOUS EQUIPMENT																		**L**	**L**
25.1307	(a)	Reserved																			
25.1307	(b)	Electrical power sources						p													
25.1307	(c)	Protective devices						p													
25.1307	(d)	Radio communication		s	s				p												
25.1307	(e)	Radio navigation		s	s				p												
25.1309		EQUIPMENT, SYSTEMS AND INSTALLATIONS																			**L**
25.1309	(a)	Equipment design and installation		s	s		p	p	p	p	p		p	p						**L**	
25.1309	(b)	Failure conditions		s	s	s	p	p	p	p	p		p	p	p					**L**	
25.1309	(c)	Warning information		s	s		p	p	p	p	p			p	p					**L**	
25.1309	(d)	EWIS					s	p	s	s	s			s						**L**	
25.1309	(e)	Certification Maintenance Requirements						s	s	s	s			s	s	p					
25.1310		POWER SOURCE CAPACITY AND DISTRIBUTION																			
25.1310	(a)	Power loads						p	s	s	s										

25.1310	(b)	Reduced power loads						p	s	s	s													
25.1315		NEGATIVE ACCELERATION																						
25.1315		NEGATIVE ACCELERATION					s	s	s	s	s													
25.1316		SYSTEM LIGHTNING PROTECTION																						
25.1316	(a)	Continued safe flight					s	p	s															
25.1316	(b)	Capability					s	p	s															
25.1317		High-intensity Radiated Fields (HIRF) Proctection																						
25.1317	(a)	Continued safe flight					s	p	s	s	s													
25.1317	(b)	Capability against exposure to equipment HIRF Test level 1-2					s	p	s	s	s													
25.1317	(c)	Capability against exposure to equipment HIRF Test level 3					s	p	s	s	s													
25.1319		EQUIPMENT, SYSTEMS AND NETWORK INFORMATION PROTECTION																						
25.1319	(a)	Protection from intentional unauthorise electronic interaction							p															
25.1319	(b)	ICA for security protection							p															
25.1321		ARRANGEMENT AND VISIBILITY																				**L**		
25.1321	(a)	Plainly visible		p	s				s															
25.1321	(b)	Flight instruments		p	s				s															
25.1321	(c)	Powerplant instruments		p	s				s	s														
25.1321	(d)	Vibration		p	s			s	s															
25.1321	(e)	Visual malfunction indicator		p					s															
25.1322		FLIGHT CREW ALERTING																				**L**		**L**
25.1322	(a)	Flight crew alerts		s	p		s	s	p	s	s			s										
25.1322	(b)	Prioritisation hierarchy		s	p		s	s	p	s	s			s										
25.1322	(c)	Warning and caution alerts		s	p		s	s	p	s	s			s										
25.1322	(d)	False and nuisance alerts		s	p		s	s	p	s	s			s										
25.1322	(e)	Visual alert indications			p		s	s	p	s	s			s										
25.1322	(f)	Other use of the colours			p		s	s	p	s	s			s										
25.1323		AIRSPEED INDICATING SYSTEM																				**L**		
25.1323	(a)	Approved and calibrated							p															
25.1323	(b)	System error							p															
25.1323	(c)	Installation error							p															
25.1323	(d)	IAS - CAS change							p															
25.1323	(e)	IAS - CAS change		s					p															
25.1323	(f)	Undue difficulty for the pilot		s					p															
25.1323	(g)	airspeed indication system lag							p															
25.1323	(h)	Prevent malfunction							p		s													
25.1323	(i)	Blank																						
25.1323	(j)	Duplicate airspeed indicators							p															
25.1324		FLIGHT INSTRUMENT EXTERNAL																				**L**		
25.1324		Prevent malfuntcion due to bad weather							s		p													
25.1325		STATIC PRESSURE SYSTEMS																						**L**
25.1325	(a)	Static vents							p		s			s										
25.1325	(b)	Static port location							p		s													
25.1325	(c)	Design and installation							p															
25.1325	(d)	Approved pressure altimeter							p															
25.1325	(e)	Altimeter error							p															
25.1325	(f)	Correction device							p															
25.1325	(g)	Primary and alternate source							p															
25.1325	(h)	Unpressurised aeroplanes							p															
25.1326		PITOT HEAT INDICATION SYSTEMS																				**L**		
25.1326	(a)	Clearly visible		s				s	p		s			s										
25.1326	(b)	Warning criteria		s				s	p		s			s										
25.1327		DIRECTION INDICATOR																				**L**		**L**
25.1327	(a)	Vibration or magnetic fields effects		s					p															

25.1327	(b)	Maximum deviation		s					p														
25.1327	(c)	Adequate accuracy		s					p														
25.1329		FLIGHT GUIDANCE SYSTEM																		L			L
25.1329	(a)	Quick disengagement		s	s				p	s													
25.1329	(b)	Failures effect		s					p	s													
25.1329	(c)	Engagement transient response		s					p														
25.1329	(d)	Disengamgement transient response		s					p														
25.1329	(e)	Non-normal condition disengagement transients		s					p														
25.1329	(f)	Prevent improper operation		s	s				p														
25.1329	(g)	Unacceptable loads / Flight path deviations		s		s			p														
25.1329	(h)	Excursions avoudance		s		s			p														
25.1329	(i)	Controls indications and alerts		s	s				p														
25.1329	(j)	Warning upon disengagement		s	s				p														
25.1329	(k)	Caution upon autothrust disengagement		s					p	s													
25.1329	(l)	Unsafe conditions upon ovveride		s		s			p														
25.1329	(m)	Thrust levers movement		s					p	s													
25.1331		INSTRUMENTS USING A POWER SUPPLY																					L
25.1331	(a)	Warnings			s			s	p														
25.1331	(b)	Definition							p														
25.1333		INSTRUMENTS SYSTEMS																		L			L
25.1333	(a)	Independent systems		s					p														
25.1333	(b)	After failure		s	s				p														
25.1333	(c)	Additional instruments		s					p														
25.1337		POWERPLANT INSTRUMENTS																		L			
25.1337	(a)	Instruments and lines		s					s	p													
25.1337	(b)	Fuel quantity indicator							s	p													
25.1337	(c)	Fuel flow meter system							s	p													
25.1337	(d)	Oil quantity indicator		s					s	p													
25.1337	(e)	Turbo-propeller blade position indicator								p													
25.1351		ELECTRICAL SYSTEM GENERAL																		L			L
25.1351	(a)	Electrical system capacity		s				p															
25.1351	(b)	Generating system						p															
25.1351	(c)	External power		s				p		s													
25.1351	(d)	Loss of normal power						p		s													
25.1353		ELECTRICAL EQUIPMENT AND INSTALLATIONS																					L
25.1353	(a)	Installation					s	p	s	s	s			s									
25.1353	(b)	EWIS						p															
25.1353	(c)	Storage batteries					s	p	s	s	s			s									
25.1353	(d)	Reserved						p															
25.1353	(e)	Electrical bonding					s	p	s	s	s			s									
25.1355		DISTRIBUTION SYSTEM																					
25.1355	(a)	Definition						p															
25.1355	(b)	Reserved																					
25.1355	(c)	Independent sources						p															
25.1357		CIRCUIT PROTECTIVE DEVICES																					
25.1357	(a)	Minimise distress					s	p	s	s	s			s									
25.1357	(b)	Sufficicient rapidity		s				p															
25.1357	(c)	Resettable device						p															
25.1357	(d)	Location						p															
25.1357	(e)	Essential loads						p															
25.1357	(f)	CB function						p															
25.1357	(g)	Automatic reset						p															
25.1360		PRECAUTIONS AGAINST INJURY																					
25.1360	(a)	Shock					s	p						s									

25.1360	(b)	Burns					s	p							s							
25.1362		ELECTRICAL SUPPLIES FOR EMERGENCY CONDITIONS																				L
25.1362		ELECTRICAL SUPPLIES FOR EMERGENCY CONDITIONS						p														
25.1363		ELECTRICAL SYSTEM TESTS																				
25.1363	(a)	Laboratory tests						p														
25.1363	(b)	Flight test						p							s							
25.1365		ELECTRICAL APPLIANCES, MOTORS AND TRANSFORMERS																				**L**
25.1365	(a)	Domestic appliances						p							s							
25.1365	(b)	Galley and cooking appliances						p							s							
25.1365	(c)	Domestic appliances installation						p							s							
25.1365	(d)	Thermal protection for electrical motors and transformers		s				p														
25.1381		INSTRUMENT LIGHTS																				**L**
25.1381	(a)	Installation		s	s			p														
25.1381	(b)	Intensity control		s				p														
25.1383		LANDING LIGHTS																				**L**
25.1383	(a)	Approval and installation		s	s			p														
25.1383	(b)	Switches						p														
25.1383	(c)	Extension indication						p														
25.1385		POSITION LIGHT SYSTEM INSTALLATION																				
25.1385	(a)	General						p														
25.1385	(b)	Forward position lights						p														
25.1385	(c)	Rear position lights						p														
25.1385	(d)	Covers and filters						p														
25.1387		POSITION LIGHT SYSTEM DIHEDRAL ANGLES																				
25.1387	(a)	Unobstructed coverage						p														
25.1387	(b)	Left						p														
25.1387	(c)	Right						p														
25.1387	(d)	Aft						p														
25.1387	(e)	Allowable obstruction						p														
25.1389		POSITION LIGHT DISTRIBUTION AND INTENSITIES																				
25.1389	(a)	General						p														
25.1389	(b)	Forward and rear lights						p														
25.1391		MIN INTENS IN HORIZ PLANE OF FWD & REAR POS LIGHT																				
25.1391		MIN INTENS IN HORIZ PLANE OF FWD & REAR POS LIGHT						p														
25.1393		MIN INTENS IN ANY VERT PLANE OF FWD & REAR POS LIGHT																				
25.1393		MIN INTENS IN ANY VERT PLANE OF FWD & REAR POS LIGHT						p														
25.1395		MAX INTENS IN OVERLAP BEAMS OF FWD & REAR POS LIGHT																				
25.1395	(a)	Area A						p														
25.1395	(b)	Area B						p														
25.1397		COLOUR SPECIFICATIONS																				
25.1397	(a)	Red						p														
25.1397	(b)	Green						p														
25.1397	(c)	White						p														
25.1399		Riding light																				
25.1401		ANTI-COLLISION LIGHT SYSTEM																				L
25.1401	(a)	General						p														
25.1401	(b)	Field of coverage						p														
25.1401	(c)	Flashing characteristics						p														
25.1401	(d)	Colour						p														
25.1401	(e)	Light intensity						p														
25.1401	(f)	Minimum effective intensities						p														
25.1403		WING ICING DETECTION LIGHTS																				**L**
25.1403		WING ICING DETECTION LIGHTS		s				s			p											

25.1411		SAFETY EQUIPMENT - GENERAL																				**L**		**L**
25.1411	(a)	Accessibility		s				s							p								
25.1411	(b)	Stowage provisions		s											p								
25.1411	(c)	Emergency Exit assist means													p								
25.1411	(d)	Liferafts													p								
25.1411	(e)	Signalling device													p								
25.1411	(f)	Life preserver provisions													p								
25.1411	(g)	Life line provisions													p								
25.1415		DITCHING EQUIPMENT																						**L**
25.1415	(a)	Applicability													p								
25.1415	(b)	Life raft and life preserver													p								
25.1415	(c)	Survival Equipment													p								
25.1415	(d)	ELT								s					p								
25.1415	(e)	Flotation means													p								
25.1419		ICE PROTECTION																						
25.1419	(a)	Analysis		s								p												
25.1419	(b)	Flight tests		s								p												
25.1419	(c)	Caution information							s			p												
25.1419	(d)	Turbine aeroplanes		s								p												
25.1419	(e)	Methods of icing detection		s								p												
25.1419	(f)	Phases of flight		s								p												
25.1419	(g)	Activation of ice protection system		s								p												
25.1419	(h)	Procedures		s								p												
25.1420		SUPERCOOLED LARGE DROP ICING CONDITIONS																						
25.1420	(a)	Safe Operation		s								p												
25.1420	(b)	Analysis & Flight Test		s								p												
25.1420	(c)	Detection, flight phases, system activation and procedure		s								p												
25.1420	(d)	Comparative analysis as alternate to par (b)		s								p												
25.1421		MEGAPHONES																						**L**
25.1421		MEGAPHONES				s									p									
25.1423		PUBLIC ADDRESS SYSTEM																						
25.1423	(a)	Powerable in flight						s	p															
25.1423	(b)	Operational time						s	s						p									
25.1423	(c)	Intelligible						s							p									
25.1423	(d)	System inoperative						s	s						p									
25.1423	(e)	Functioning independently						s	p						s									
25.1423	(f)	Accesibility						s	s						p									
25.1423	(g)	Each floor level passenger emergency exit													p									
25.1431		ELECTRONIC EQUIPMENT																						**L**
25.1431	(a)	Environmental conditions					s	s	p	s	s				s									
25.1431	(b)	Power supply						s	p															
25.1431	(c)	Installation					s	p	s	s	s				s									
25.1431	(d)	Essential loads						p	s															
25.1433		VACUUM SYSTEMS																						**L**
25.1433		VACUUM SYSTEMS					s				p													
25.1435		HYDRAULIC SYSTEMS																						**L**
25.1435	(a)	Element Design		s			p																	
25.1435	(b)	System design		s			p			s														
25.1435	(c)	Tests					p																	
25.1436		PNEUMATIC SYSTEMS-HIGH PRESSURE																						**L**
25.1436	(a)	General					p				s													
25.1436	(b)	Design					p																	
25.1436	(c)	Tests					p				s													

25.1438		PRESSURISATION AND LOW PRESSURE PNEUMATIC SYSTEMS																				**L**
25.1438		PRESSURISATION AND LOW PRESSURE PNEUMATIC SYSTEMS		s							p											
25.1439		PROTECTIVE BREATHING EQUIPMENT																				**L**
25.1439	(a)	Installation		s							p											
25.1439	(b)	Design and construction									p											
25.1441		OXYGEN EQUIPMENT AND SUPPLY																		**L**		**L**
25.1441	(a)	Applicability		s							p											
25.1441	(b)	Free from hazards									p											
25.1441	(c)	Quantity determination									p											
25.1441	(d)	Operation above 40000									p											
25.1443		MINIMUM MASS FLOW OF SUPPLEMENTAL OXYGEN																		**L**		
25.1443	(a)	Continuous flow equipment		s							p											
25.1443	(b)	Demand equipment									p											
25.1443	(c)	Passengers and F/A									p											
25.1443	(d)	First Aid oxygen									p											
25.1443	(e)	Portable oxygen		s							p											
25.1445		EQUIPMENT STANDARDS FOR THE OXYGEN DISTRIBUTING SYSTEM																		**L**		**L**
25.1445	(a)	Ensuring crew supply		s							p											
25.1445	(b)	Portable units		s							p											
25.1447		EQUIPMENT STANDARDS FOR OXYGEN DISPENSING UNITS																		**L**		**L**
25.1447	(a)	For each occupant		s							p											
25.1447	(b)	Up to 25000		s							p											
25.1447	(c)	Above 25000		s							p			s								
25.1449		MEANS FOR DETERMINING USE OF OXYGEN																		**L**		
25.1449		MEANS FOR DETERMINING USE OF OXYGEN									p											
25.1450		CHEMICAL OXYGEN GENERATORS																		**L**		**L**
25.1450	(a)	Definition									p											
25.1450	(b)	Design and installation									p											
25.1450	(c)	Placards									p											
25.1453		PROTECTION OF OXYGEN EQUIPMENT FROM RUPTURE																				**L**
25.1453	(a)	Sufficient strength				s					p											
25.1453	(b)	Location and protection				s					p											
25.1453	(c)	Number of parts									p											
25.1453	(d)	Protective devices									p											
25.1453	(e)	Pressure limiting devices									p											
25.1453	(f)	Discharge of devices									p											
25.1455		DRAINING OF FLUIDS SUBJECT TO FREEZING																				
25.1455		DRAINING OF FLUIDS SUBJECT TO FREEZING					s			s	p											
25.1457		COCKPIT VOICE RECORDERS																				**L**
25.1457	(a)	Approved and installed							p													
25.1457	(b)	Cockpit area mike							p													
25.1457	(c)	Channel allocation							p													
25.1457	(d)	Installation							p													
25.1457	(e)	Recorder location							p													
25.1457	(f)	Bulk erasure device							p													
25.1457	(g)	Conspicuity							p													
25.1459		FLIGHT DATA RECORDERS																				**L**
25.1459	(a)	Installation							p													
25.1459	(b)	Location				s			p													
25.1459	(c)	Correlation established							p													
25.1459	(d)	Conspicuity				s			p													
25.1459	(e)	Novel characteristic							p													
25.1460		DATA LINK RECORDERS																				

25.1460	(a)	Data link recorders							p												
25.1460	(b)	Data link Recorders - installation							p												
25.1460	(c)	Data link recorders - location							p												
25.1460	(d)	Data link recorders - container							p												
25.1461		EQUIPMENT CONTAINING HIGH ENERGY ROTORS																			**L**
25.1461	(a)	Compliance				s	s	s		s	s										
25.1461	(b)	Damage Tolerant				s	s	s		s	s										
25.1461	(c)	Containment				s	s	s		s	s										
25.1461	(d)	Location				s	s	s			s										
SUBPART G - OPERATING LIMITATIONS AND INFORMATION																					
25.1501		OPERATING LIMITATIONS AND INFORMATION - GENERAL																			
25.1501	(a)	Established	p	s		s	s	s	s	s	s										
25.1501	(b)	Made available	p	s		s	s	s	s	s	s										
25.1503		AIRSPEED LIMITATIONS: GENERAL																**L**			
25.1503		AIRSPEED LIMITATIONS: GENERAL		p		s															
25.1505		MAXIMUM OPERATING LIMIT SPEED																**L**			
25.1505		MAXIMUM OPERATING LIMIT SPEED		p		s															
25.1507		MANOUVRING SPEED																**L**			
25.1507		MANOUVRING SPEED		p		s															
25.1511		FLAP EXTENDED SPEED																**L**			
25.1511		FLAP EXTENDED SPEED		p		s															
25.1513		MINIMUM CONTROL SPEED																**L**			
25.1513		Minimum control speed		p																	
25.1515		LANDING GEAR SPEEDS																**L**			
25.1515	(a)	Operating		p		s															
25.1515	(b)	Extended		p		s				s											
25.1516		OTHER SPEED LIMITATIONS																**L**			
25.1516		OTHER SPEED LIMITATIONS		p		s															
25.1517		ROUGH AIR SPEED																			
25.1517	(a)	Definition		p		s															
25.1517	(b)	Use of VRA		p		s															
25.1517	(c)	Use of MRA		p		s															
25.1519		WEIGHT CENTRE OF GRAVITY AND WEIGHT DISTRIBUTION																			
25.1519		WEIGHT CENTRE OF GRAVITY AND WEIGHT DISTRIBUTION				p															
25.1521		POWERPLANT LIMITATIONS																			
25.1521	(a)	Established		s						p											
25.1521	(b)	Reserved								p											
25.1521	(c)	Turbine engines								p											
25.1521	(d)	Ambient temperature								p											
25.1523		MINIMUM FLIGHT CREW																			
25.1523	(a)	Workload		p	p																
25.1523	(b)	Accessibility		p	p																
25.1523	(c)	Kind of operation		p	p																
25.1525		KINDS OF OPERATION																**L**			
25.1525		KINDS OF OPERATION	p	s		s	s	s	s	s	s			s							
25.1527		AMBIENT AIR TEMPERATURE AND OPERATING ALTITUDE																			
25.1527		AMBIENTAIR TEMPERATURE AND OPERATING ALTITUDE	p	s		s	s	s	s	s	s			s		s					
25.1529		INSTRUCTION FOR CONTINUED AIRWORTHINESS																			
25.1529		INSTRUCTION FOR CONTINUED AIRWORTHINESS				s	s	s	s	s	s			s	s	p					
25.1531		MANOEUVRING FLIGHT LOAD FACTORS																			
25.1531		MANOEUVRING FLIGHT LOAD FACTORS		p		p															
25.1533		ADDITIONAL OPERATING LIMITATIONS																**L**			
25.1533	(a)	Performance		p		s															
25.1533	(b)	Variable factors		p		s															

25.1533	(c)	Icing conditions		p							s											
25.1535		ETOPS DESIGN APPROVAL																				
25.1535	(a)	Maximum flight duration		s	s	s	s	s	s	p	s				s					**L**	
25.1535	(b)	Compliance with CS-E 1040								p								s			**L**	
25.1535	(c)	Human needs and workload		s	s		s	s	s	p	s										**L**	
26.1535	(d)	Capability and limitation		s			s	s	s	p	s											
25.1541		MARKINGS AND PLACARDS																				
25.1541	(a)	Required placards		s			s	s	s	s	s			p								
25.1541	(b)	Conspicuity and durability		s			s	s	s	s	s			p								
25.1543		INSTRUMENT MARKINGS: GENERAL																				
25.1543	(a)	Markings on cover glass		p	s				s					s								
25.1543	(b)	Clearly visible		p	s				s													
25.1545		AIRSPEED LIMITATION INFORMATION																				
25.1545		AIRSPEED LIMITATION INFORMATION		p	s				s													
25.1547		MAGNETIC DIRECTION INDICATOR																				
25.1547	(a)	Compass deviation card		p					s													
25.1547	(b)	Calibration conditions		p					s													
25.1547	(c)	Showing date of calibration		p					s													
25.1547	(d)	Resolution		p					s													
25.1549		POWERPLANT INSTRUMENTS																				
25.1549	(a)	Operating limits		s					s	p												
25.1549	(b)	Normal range		s					s	p												
25.1549	(c)	Precautionary range		s					s	p												
25.1549	(d)	Restricted range		s					s	p												
25.1551		OIL QUANTITY INDICATOR																				**L**
25.1551		OIL QUANTITY INDICATOR		s					s	p												
25.1553		FUEL QUANTITY INDICATOR																				**L**
25.1553		FUEL QUANTITY INDICATOR		s					s	p												
25.1555		CONTROL MARKINGS																		**L**		
25.1555	(a)	Cockpit controls		p	s		s	s	s	s	s			s								
25.1555	(b)	Aerodynamic controls		p			s															
25.1555	(c)	Fuel controls		p						s												
25.1555	(d)	Controls, general		p			s	s		s	s											
25.1557		MISCELLANEOUS MARKINGS AND PLACARDS																				**L**
25.1557	(a)	Loading information												p								
25.1557	(b)	P/P fluid filler openings								p												
25.1557	(c)	Emergency exits												p								
25.1557	(d)	Doors												p								
25.1561		SAFETY EQUIPMENT																			**L**	**L**
25.1561	(a)	Controls												p								
25.1561	(b)	Stowage												p								
25.1561	(c)	Stowage												p								
25.1561	(d)	Liferafts		p																		
25.1561	(e)	Survival equipment												p								
25.1563		AIRSPEED PLACARD																				
25.1563		AIRSPEED PLACARD		p																		
25.1581		FLIGHT MANUAL - GENERAL																			**L**	
25.1581	(a)	Required information	p	s		s	s	s	s	s	s	s		s								
25.1581	(b)	Approved information	p	s		s	s	s	s	s	s	s		s								
25.1581	(c)	Reserved																				
25.1581	(d)	Table of contents	p	s		s	s	s	s	s	s			s								
25.1583		OPERATING LIMITATIONS																		**L**		
25.1583	(a)	Airspeed		p		s																
25.1583	(b)	Powerplant		s						p		s										

25.1583	(c)	Weight and Loading		s		p						s									
25.1583	(d)	Flight crew		p										s							
25.1583	(e)	Kinds of Operation		p		s															
25.1583	(f)	Ambient conditions		p		s															
25.1583	(g)	Reserved																			
25.1583	(h)	Additional limitation		p		s				s											
25.1583	(i)	Load factors		p		s				s											
25.1583	(j)	Reserved																			
25.1583	(k)	Runway contaminants		p						s											
25.1585		OPERATING PROCEDURES																	L		
25.1585	(a)	Emergency and peculiar procedures		p			s	s	s	s		s		s							
25.1585	(b)	Not to be included		p																	
25.1585	(c)	Fuel system independence								p											
25.1585	(d)	Buffet boundaries		s		s	s			p											
25.1585	(e)	Zero fuel indication		s						p											
25.1585	(f)	Usable fuel		s						p											
25.1587		PERFORMANCE INFORMATION																			
25.1587	(a)	Free air temperature conversion		p																	
25.1587	(b)	Information required		p																	
25.1587	(c)	Information abnormal landing config		p																	
25.1591		PERFORMANCE INFORMATION FOR OPERATIONS WITH CONTAMINATED RUNWAY SURFACE CONDITIONS																			
25.1591	(a)	Contaminated runways		p																	
25.1591	(b)	Establishement of Performance Information in AFM		p																	
25.1591	(c)	Indication of conditions and applicability		p						s											
25.1592		Performance information for assessing the landing distance																			
25.1592	(a)	Supplementary landing information at dispatch		p																	
25.1592	(b)	Landing distance information at the time of arrival		p																	
25.1592	(c)	Performance information in the AFM		p																	
25.1592	(d)	Data for Landing performance at the time of arrival (LDTA)		p																	
25.1593		EXPOSURE TO VULCANIC CLOUD HAZARD																			
25.1593		Establishment of volcanic cloud hazards		s	s	s	s	s	s	p	s		s			s				L	
SUBPART H - ELECTRICAL WIRING INTERCONNECTION SYSTEM																					
25.1701		EWIS - DEFINITIONS																			
25.1701	(a)	EWIS - definitions						p	s												
25.1701	(b)	EWIS - definitions					s	p	s	s	s			s							
25.1701	(c)	EWIS - definitions					s	p	s	s	s			s							
25.1703		EWIS - FUNCTION AND INSTALLATION																			
25.1703	(a)	EWIS - Function and Installation					s	p	s	s	s			s							
25.1703	(b)	EWIS - Wire Selection					s	p	s	s	s			s							
25.1703	(c)	EWIS - Main Power cable					s	p	s	s	s			s							
25.1703	(d)	EWIS - Area of Moisture						p			s										
25.1703	(e)	EWIS - same standard as original design					s	p													
25.1705		EWIS - SYSTEMS AND FUNCTIONS																			
25.1705	(a)	EWIS - Systems and Functions					s	p	s	s	s			s							
25.1705	(b)	EWIS - Impacted systems					s	p	s	s	s			s							
25.1707		EWIS - SYSTEM SEPARATION																			
25.1707	(a)	EWIS - System Separation					s	p	s	s	s			s		s					
25.1707	(b)	EWIS - Electrical Interference					s	p	s	s	s			s		s					
25.1707	(c)	EWIS - physical separation and isolation					s	p	s	s	s			s		s					
25.1707	(d)	EWIS - Independant power source					s	p	s	s	s			s		s					
25.1707	(e)	EWIS - Connection to Fuel components					s	p	s	s	s			s		s					
25.1707	(f)	EWIS - Separation from Hydraulic lines					s	p		s						s					
25.1707	(g)	EWIS - Separation from Oxygen system						p			s					s					

25.1707	(h)	EWIS - Separation from Water Waste system						p			s			s		s				
25.1707	(i)	EWIS - Separation from Flight Control systems					s	p			s					s				
25.1707	(j)	EWIS - Separation from ECS					s	p			s					s				
25.1707	(k)	EWIS - Redundant systems					s	p			s					s				
25.1707	(l)	EWIS - structure interference					s	p	s	s	s			s		s				
25.1709		EWIS - SYSTEM SAFETY																		
25.1709	(a)	EWIS - System Safety					s	p	s	s	s			s		s				
25.1709	(b)	EWIS - System Safety					s	p	s	s	s			s		s				
25.1711		EWIS - COMPONENT IDENTIFICATION																		
25.1711	(a)	EWIS - Component identification					s	p	s	s	s			s		s				**L**
25.1711	(b)	EWIS - Component identification - redundant systems					s	p	s	s	s			s		s				**L**
25.1711	(c)	EWIS - Component identification - life legibility					s													**L**
25.1711	(d)	EWIS - Component identification - effect on performance					s	p	s	s	s			s		s				**L**
25.1711	(e)	EWIS - Component identification - standard					s	p	s	s	s			s		s				**L**
25.1713		EWIS - FIRE PROTECTION																		
25.1713	(a)	EWIS - fire and smoke requirement					s	p	s	s	s			s						
25.1713	(b)	EWIS component in fire zone					s	p	s	p	s			s						
25.1713	(c)	EWIS - wire and cable insulation - self extingushing					s	p	s	s	s			p						
25.1715		EWIS - ELECTRICAL BONDING AND PROTECTION AGAINST STATIC ELECTRICITY																		
25.1715	(a)	EWIS - bonding					s	p	s	s	s			s						
25.1715	(b)	EWIS - electrical return					s	p	s	s	s			s						
25.1717		EWIS - CIRCUIT PROTECTIVE DEVICES																		
25.1717		EWIS - CIRCUIT PROTECTIVE DEVICES					s	p	s	s	s			s						
25.1719		EWIS - ACCESSIBILITY PROVISIONS																		
25.1719		EWIS - Accessibility provisions					s	p	s	s	s			s		s				**L**
25.1721		EWIS - PROTECTION OF EWIS																		
25.1721	(a)	EWIS - Protection - Cargo or baggage compartment						p						s						
25.1721	(b)	EWIS - Protection - people mouvement						p						s						
25.1721	(c)	EWIS - Protection - item carried by crew or pax						p						s						
25.1723		EWIS - FLAMMABLE FLUID PROTECTION																		
25.1723		EWIS - FLAMMABLE FLUID PROTECTION					s	p		p	s			s						
25.1725		EWIS - POWERPLANTS																		
25.1725	(a)	EWIS - Powerplant						p		p										
25.1725	(b)	EWIS - Powerplant - Rotor burst						p	s	p	s			s						
25.1727		EWIS - FLAMMABLE FLUID SHUTOFF MEANS																		
25.1727		EWIS - FLAMMABLE FLUID SHUTOFF MEANS					s		s	p										
25.1729		EWIS - INSTRUCTION FOR CONTINUED AIRWORTHINESS																		
25.1729		EWIS - INSTRUCTION FOR CONTINUED AIRWORTHINESS					s	p	s	s	s			s		p				
25.1731		EWIS - POWERPLANT AND APU FIRE DETECTOR SYSTEM																		
25.1731	(a)	EWIS - Powerplant and APU fire detector system						p	s	p										
25.1731	(b)	EWIS - Powerplant and APU fire detector system						p	s	p										
SUBPART J - AUXILIARY POWER UNIT INSTALLATION																				
25J901		INSTALLATION																		
25J901	(a)	Items included								p	s									
25J901	(b)	Definitons								p										
25J901	(c)	General requirements								p										
25J901	(d)	X-ref to CS 25.1309								p										
25J903		AUXILIARY POWER UNIT																		
25J903	(a)	Intended fucntions					s	s	s	p	s									
25J903	(b)	Reserved																		
25J903	(c)	APU shut down								p										
25J903	(d)	Design precautions				s	s			p										
25J903	(e)	In-flight start capability			s					p										

25J939		APU OPERATING CHARACTERISTICS																				
25J939	(a)	Operating characteristics		s						p												
25J939	(b)	Reserved																				
25J939	(c)	Vibration caused by air inlet system				s				p												
25J939	(d)	Establishment of conditions for certification								p												
25J943		NEGATIVE ACCELERATION																				
25J943		NEGATIVE ACCELERATION								p												
25J951		GENERAL																				
25J951	(a)	Design criteria								p												
25J951	(b)	Flameout avoidance								p												
25J951	(c)	Sustained operations								p												
25J952		FUEL SYSTEM ANALYSIS AND TEST																				
25J952	(a)	Proper fuel system functioning								p												
25J952	(b)	Failure of heat exchange								p												
25J953		FUEL SYSTEM INDEPENDANCE																				**L**
25J953	(a)	Indipendent fuel supplying								p												
25J953	(b)	Fuel shut off								p												
25J955		FUEL FLOW																				
25J955	(a)	Fuel flow		s						p												
25J955	(b)	Essential APU								p												
25J961		FUEL SYSTEM HOT WEATHER OPERATION																				
25J961	(a)	Essential APU		s						p												
25J961	(b)	Test conditions		s						p												
25J977		FUEL TANK OUTLET																				
25J977	(a)	Fuel strainer								p												
25J977	(b)	Clear area off the strainer								p												
25J977	(c)	Diameter								p												
25J977	(d)	Finger strainer								p												
25J991		FUEL PUMPS																				**L**
25J991	(a)	Main pumps								p												
25J991	(b)	Emergency pumps								p												
25J993		FUEL SYSTEM LINES AND FITTINGS																				
25J993	(a)	Vibration and loads								p												
25J993	(b)	Provisions for flexibility								p												
25J993	(c)	Flexible connections								p												
25J993	(d)	Flexible hoses								p												
25J993	(e)	Limititations to the use of flexible hoses								p												
25J993	(f)	Provisions for deformation and stretching								p												
25J994		FUEL SYSTEM COMPONENTS																				**L**
25J994		FUEL SYSTEM COMPONENTS				s				p												
25J995		FUEL VALVES																				**L**
25J995		FUEL VALVES								p												
25J997		FUEL STRAINER OR FILTER																				**L**
25J997	(a)	Accessibility								p												
25J997	(b)	Sediment trap and drain								p												
25J997	(c)	Installation principles								p												
25J997	(d)	APU finctioning with contaminated fuel								p												
25J1011		OIL SYSTEM GENERAL																				**L**
25J1011	(a)	Indipendent oil system								p												
25J1011	(b)	Usable oil capacity								p												
25J1017		OIL LINES AND FITTINGS																				
25J1017	(a)	X-ref to CS25J993 and CS25J1183								p												
25J1017	(b)	Breather lines								p												
25J1019		OIL FILTER																				

25J1019		OIL FILTER								p											
25J1021		OIL SYSTEM DRAINS																			
25J1021	(a)	Accessibility								p											
25J1021	(b)	Means for positive locking								p											
25J1023		OIL RADIATORS																			**L**
25J1023		OIL RADIATORS								p											
25J1025		OIL VALVES																			**L**
25J1025	(a)	X-ref to CS25J1189								p											
25J1025	(b)	Positive stops or index provisions								p											
25J1041		COOLING GENERAL																			
25J1041		COOLING GENERAL		s						p											
25J1043		COOLING TESTS																			
25J1043	(a)	Test conditions		s						p											
25J1043	(b)	Maximum ambient atmospheric temperature								p											
25J1043	(c)	Correction factor								p											
25J1045		COOLING TEST PROCEDURES																			
25J1045	(a)	Test conditions		s						p											
25J1045	(b)	Test temperatures		s						p											
25J1045	(c)	Criteria for continuing cooling test		s						p											
25J1091		AIR INTAKE																			
25J1091	(a)	Air supply								p											
25J1091	(b)	Dedicated air								p											
25J1091	(c)	Ingestion of components or flammable fluids								p	s										
25J1091	(d)	Ingestion of slush or water								p	s										
25J1091	(e)	Ingestion minimizing								p											
25J1093		AIR INTAKE SYSTEM DE-ICING ANTI-INCING PROVISIONS																			
25J1093	(a)	Non-essential APU intakes								p	s										
25J1093	(b)	Essential APU intakes								p	s										
25J1103		AIR INTAKE SYSTEM DUCTS																			**L**
25J1103	(a)	Drains & Materials								p											
25J1103	(b)	Design criteria								p											
25J1103	(c)	Means for flexibility								p											
25J1106		BLEED AIR DUCT SYSTEMS																			**L**
25J1106	(a)	Duct failures								p	s										
25J1106	(b)	Means for flexibility								p	s										
25J1106	(c)	Reverse airflow								p	s										
25J1121		EXHAUST SYSTEM GENERAL																			**L**
25J1121	(a)	Safe disposal								p											
25J1121	(b)	Hot surfaces								p											
25J1121	(c)	Fireproofing of components								p											
25J1121	(d)	Discharge of exhaust gases								p											
25J1121	(e)	Reserved																			
25J1121	(f)	Ventilation								p											
25J1121	(g)	Exhaust shroud								p											
25J1123		EXHAUST PIPING																			**L**
25J1123	(a)	Characteristics		s						p											
25J1123	(b)	Vibration and loads		s						p											
25J1123	(c)	Means for flexibility		s						p											
25J1141		APU CONTROLS																			
25J1141	(a)	Provision for controls		s						p											
25J1141	(b)	Location		s						p											
25J1141	(c)	Unattended operation								p											
25J1141	(d)	Controls located elsewhere than flight deck								p											
25J1141	(e)	Fire resistance								p											

25J1163		APU ACCESSORIES																					**L**
25J1163	(a)	Mounted accessories								p													
25J1163	(b)	Electrical equipment						s		p													
25J1163	(c)	Means to prevent rotation								p													
25J1165		APU IGNITION SYSTEMS																					**L**
25J1165		APU IGNITION SYSTEMS						s		p													
25J1181		DESIGNATED FIRE ZONE																					
25J1181	(a)	APU compartment								p													
25J1181	(b)	X-ref to CS25J1185 through CS25J1203								p													
25J1183		LINES, FITTINGS AND COMPONENTS																					
25J1183	(a)	Fire resistance																					
25J1183	(b)	Approved parts								p													
25J1183	(c)	Fireproof								p													
25J1185		FLAMMABLE FLUIDS																					
25J1185	(a)	Location of tank or reservoir								p													
25J1185	(b)	Clearances								p													
25J1185	(c)	Absorbent materials								p													
25J1187		DRAINAGE AND VENTILATION OF FIRE ZONES																					
25J1187	(a)	Drainage		1						p													
25J1187	(b)	Ventilation								p													
25J1187	(c)	Vetilation opening								p													
25J1187	(d)	Ventilation arrangement								p													
25J1187	(e)	Means to shutoff								p													
25J1189		SHUT-OFF MEANS																					
25J1189	(a)	Means of shut-off					s			p													
25J1189	(b)	Fuel availability to main engine		s			s			p													
25J1189	(c)	Interferences								p													
25J1189	(d)	Location					s			p													
25J1189	(e)	Draining					s			p													
25J1189	(f)	Inadvertent operations					s			p													
25J1189	(g)	APU mount structural failure					s			p													
25J1189	(h)	Relief of excessive pressure					s			p													
25J1191		FIREWALLS																					
25J1191	(a)	Isolation								p													
25J1191	(b)	Firewalls and shrouds								p													
25J1193		APU COMPARTMENT																					
25J1193	(a)	Construction criteria								p													
25J1193	(b)	X-ref to CS25J1187								p													
25J1193	(c)	Reserved																					
25J1193	(d)	Compartment fireproof								p													
25J1193	(e)	Firezone design								p													
25J1195		FIRE EXTINGUISHER SYSTEMS																					**L**
25J1195	(a)	Need for fire extinguisher								p													
25J1195	(b)	Adequacy								p													
25J1195	(c)	Protection capability								p													
25J1197		FIRE EXTINGUISHING AGENTS																					
25J1197	(a)	Characteristics								p													
25J1197	(b)	Toxic extinguishing agent								p													
25J1199		EXTINGUISHING AGENT CONTAINERS																					
25J1199	(a)	Pressure relief								p													
25J1199	(b)	Discharge								p													
25J1199	(c)	Indications								p													
25J1199	(d)	Temperature monitoring								p													
25J1199	(e)	Pyrotechnic capsule								p													

25J1201		FIRE EXTINGUISHING SYSTEM MATERIALS																			
25J1201	(a)	Chemically reacting material								p											
25J1201	(b)	Fireproof								p											
25J1203		FIRE-DETECTOR SYSTEM																			**L**
25J1203	(a)	Need for fire detector systems								p											
25J1203	(b)	Characteristics of the installation						s		p											
25J1203	(c)	Stability of fire or overheat detector								p											
25J1203	(d)	Means to check functioning						s		p											
25J1203	(e)	Fire resistance of wiring and other components						s		p											
25J1203	(f)	Fire detector location								p											
25J1203	(g)	Construction criteria								p											
25J1207		COMPLIANCE																			
25J1207	(a)	Test of similar installations								p											
25J1207	(b)	Test of components								p											
25J1207	(c)	Service experience								p											
25J1207	(d)	Analysis								p											
25J1305		APU INSTRUMENTS																			**L**
25J1305	(a)	Requirements for all APU								p											
25J1305	(b)	Requirements for essential APU								p											
25J1337		APU INSTRUMENTS																			**L**
25J1337	(a)	Reserved																			
25J1337	(b)	Reserved																			
25J1337	(c)	Reserved																			
25J1337	(d)	Stick gauge								p											
25J1501		OPERATING LIMITATIONS																			
25J1501	(a)	Reserved																			
25J1501	(b)	Operating limitations		s						p											
25J1521		APU LIMITATIONS																			
25J1521		APU LIMITATIONS		s						p											
25J1527		AMBIENT AIR TEMPERATURE AND OPERATING ALTITUDE																			
25J1527		AMBIENT AIR TEMPERATURE AND OPERATING ALTITUDE		s						p											
25J1549		APU INSTRUMENTS																			**L**
25J1549	(a)	Operating limits		s						p											
25J1549	(b)	Normal operating range		s																	
25J1549	(c)	Precautionary operating range		s						p											
25J1549	(d)	APU speed range																			
25J1551		OIL QUANTITY INDICATOR																			**L**
25J1551		OIL QUANTITY INDICATOR								p											
25J1557		MISCELLANEOUS MARKINGS AND PLACARDS																			**L**
25J1557	(a)	Reserved								p											
25J1557	(b)	Oil filter openings								p											
25J1583		OPERATING LIMITATIONS																			
25J1583		OPERATING LIMITATIONS		s						p											
Appendix A		DIFFERENT LOAD CONDITIONS																			
Appendix A		DIFFERENT LOAD CONDITIONS				p															
Appendix C		ATMOSPHERIC ICE CONDITIONS AND AIRFRAME ICE ACCRETIONS																			
Appendix C		ATMOSPHERIC ICE CONDITIONS AND AIRFRAME ICE ACCRETIONS									p										
Appendix D		CRITERIA FOR DETERMINING MIN FLIGHT CREW																	**L**		
Appendix D		CRITERIA FOR DETERMINING MIN FLIGHT CREW		p	p																
Appendix F		TEST CRITERIA AND PROCEDURES FOR SHOWING COMPLIANCE WITH CS 25.853, 25.855 AND 25.869																			
Appendix F		TEST CRITERIA AND PROCEDURES FOR SHOWING COMPLIANCE WITH CS 25.853, 25.855 AND 25.869					s	p	s	s	s			p							
Appendix H		INSTRUCTIONS FOR CONTINUED AIRWORTHINESS																			

Appendix H	25.1	INSTRUCTIONS FOR CONTINUED AIRWORTHINESS						s								p					
Appendix H	25.2	INSTRUCTIONS FOR CONTINUED AIRWORTHINESS						s								p				**L**	
Appendix H	25.3	INSTRUCTIONS FOR CONTINUED AIRWORTHINESS						s								p				**L**	
Appendix H	25.4	INSTRUCTIONS FOR CONTINUED AIRWORTHINESS						s	s	s	s			s	s	p				**L**	
Appendix H	25.5	INSTRUCTIONS FOR CONTINUED AIRWORTHINESS						s								p					
Appendix H	25.6	INFORMATION SYSTEM SECURITY FOR INSTRUCTIONS FOR CONTINUED AIRWORTHINESS							p							s		**L**			
Appendix I		AUTOMATIC TAKE-OFF THRUST CONTROL SYSTEM (ATTCS)																**L**			
Appendix I		AUTOMATIC TAKE-OFF THRUST CONTROL SYSTEM (ATTCS)		P						p											
Appendix J		EMERGENCY DEMONSTRATION																			
Appendix J		EMERGENCY DEMONSTRATION												p							
Appendix K		INTERACTION OF SYSTEM AND STRUCTURE																			
Appendix K		INTERACTION OF SYSTEM AND STRUCTURE				p	s			s	s										
Appendix L		PRESSURISED ITEMS PROOF AND ULTIMATE FACTOR																			
Appendix L		PRESSURISED ITEMS PROOF AND ULTIMATE FACTOR					p				s										
Appendix M		FUEL TANK FLAMMABILITY REDUCTION MEANS (FRM)																			
Appendix M		FUEL TANK FLAMMABILITY REDUCTION MEANS (FRM)								p											
Appendix N		FUEL TANK FLAMMABILITY EXPOSURE																			
Appendix N		FUEL TANK FLAMMABILITY EXPOSURE								p											
Appendix O		SUPERCOOLED LARGE DROP ICING CONDITIONS																			
Appendix O		SUPERCOOLED LARGE DROP ICING CONDITIONS									p										
Appendix P		MIXED PHASE AND ICE CRYSTAL ICING ENVELOPE (DEEP CONVECTIVE CLOUDS)																			
Appendix P		MIXED PHASE AND ICE CRYSTAL ICING ENVELOPE (DEEP CONVECTIVE CLOUDS)									p										
Appendix Q		ADDITIONAL AIRWORTHINESS REQUIREMENTS FOR APPROVAL OF A STEEP APPROACH LANDING (SAL) CAPABILITY																**L**			
Appendix Q		ADDITIONAL AIRWORTHINESS REQUIREMENTS FOR APPROVAL OF A STEEP APPROACH LANDING (SAL) CAPABILITY		p					p													
Appendix R		HIRF ENVIRONMENTS AND EQUIPMENT HIRF TEST LEVELS																			
Appendix R		HIRF ENVIRONMENTS AND EQUIPMENT HIRF TEST LEVELS					s	p	s	s	s										
Appendix S		AIRWORTHINESS REQUIREMENTS FOR NON-COMMERCIALLY OPERATED AEROPLANES AND LOW-OCCUPANCY																			
Appendix S		AIRWORTHINESS REQUIREMENTS FOR NON-COMMERCIALLY OPERATED AEROPLANES AND LOW-OCCUPANCY												p							