



**COMMENT RESPONSE DOCUMENT (CRD)  
TO NOTICE OF PROPOSED AMENDMENT (NPA) 2009-02B**

**for an Agency Opinion on a Commission Regulation establishing the  
Implementing Rules for air operations of Community operators**

**and**

**draft Decision of the Executive Director of the European Aviation Safety Agency  
on Acceptable Means of Compliance and Guidance Material related to the  
Implementing Rules for air operations of Community operators**

*“Part-OPS”*

**CRD c.11 – Acronyms used in Part-CAT and Part-SPA**

**- for reference only -**

**ACRONYMS/ABBREVIATIONS USED IN PART-CAT AND PART-SPA****- for reference only -**

AAD	assigned altitude deviation
AAL	above aerodrome level
ACAS	alternating current
ACAS II	airborne collision avoidance system II
ADF	automatic direction finder
ADG	air driven generator
ADS	automatic dependent surveillance
ADS-C	automatic dependent surveillance-contract
AEO	all engines operating
AFCS	automatic flight control system
AFM	aircraft flight manual
AFN	ATS Facilities Notification
AGL	above ground level
AHRS	attitude heading reference system
AIS	aeronautical information service
ALS	approach lighting system
ALSF	approach lighting system with sequenced flashing lights
AMSL	above mean sea level
ANP	actual navigation performance
AOC	air operator certificate
APCH	approach
APU	auxiliary power unit
APV	approach procedure with vertical guidance
AR	ATS route

*Acronyms used in Part-CAT and Part-SPA*

AR	Authority Requirements
ARA	airborne radar approach
ASDA	accelerate-stop distance available
ATC	air traffic control
ATS	air traffic services
ATSC	air traffic service communication
AVGAS	aviation gasoline
AVTAG	wide-cut fuel
BALS	basic approach lighting system
B-RNAV	basic area navigation
CAP	controller access parameters
CDFA	continuous descent final approach
CDL	configuration deviation list
CFIT	controlled flight into terrain
CG	centre of gravity
cm	centimetres
CM	context management
CMV	converted meteorological visibility
CPA	closest point of approach
CPDLC	controller pilot data link communications
CRM	crew resource management
CRT	comment response tool
CVR	cockpit voice recorder
DA/MDA	decision altitude/minimum descent altitude
D-ATIS	Data Link - Automatic Terminal Information Service
DC	direct current
DCL	departure clearance

*Acronyms used in Part-CAT and Part-SPA*

DDM	difference in depth of modulation
D-FIS	Data Link - Flight Information System
DGOR	dangerous goods occurrence report
DH	decision height
DME	distance measuring equipment
D-OTIS	Data Link - Operational Terminal Information Service
DR	decision range
DSTRK	desired track
EFB	electronic flight bag
EFIS	electronic flight instrument system
EGPWS	enhanced ground proximity warning system
EGT	exhaust gas temperature
ELT(AD)	emergency locator transmitter (automatically deployable)
ELT(AF)	emergency locator transmitter (automatic fixed)
ELT(AP)	emergency locator transmitter (automatic portable)
ELT(S)	survival emergency locator transmitter
EPE	estimate of position error
EPR	engine pressure ratio
EPU	estimate of position uncertainty
ERA	en-route alternate (aerodrome)
ETOPS	extended range operations with two-engined aeroplanes
ETSO	European technical standards order
EUROCAE	European Organisation for Civil Aviation Equipment
EVS	enhanced vision system
FAA	Federal Aviation Administration
FAF	final approach fix
FAK	first-aid kit

*Acronyms used in Part-CAT and Part-SPA*

FALS	full approach light system
FANS	future air navigation system
FAP	final approach point
FATO	final approach and take-off area
FDR	flight data recorder
FI	flight instructor
FM	frequency modulator
FMS	flight management system
FOR	field of regard
FOV	field of view
fpm	feet per minute
FSTD	flight simulation training device
ft	feet
g	gravity
GBAS	ground-based augmentation system
GCAS	ground collision avoidance system
GIDS	ground ice detection system
GLS	GBAS landing system
GNSS	global navigation satellite system
GPS	global positioning system
GPWS	ground proximity warning system
HEMS	helicopter emergency medical service
HF	high frequency
HI/MI	high intensity / medium intensity
HIALS	high intensity approach light system
HLL	helideck limitations list
HoT	hold-over time

*Acronyms used in Part-CAT and Part-SPA*

hPa	hectopascal
HUD	head-up display
HUDLS	head-up display landing system
IAF	initial approach fix
IALS	intermediate approach light system
ICAO	International Civil Aviation Organisation
IF	intermediate fix
IFR	instrument flight rules
IGE	in ground effect
ILS	instrument landing system
IMC	instrument meteorological conditions
inHg	inches of mercury
INS	inertial navigation system
IP	intermediate point
IRNAV/IAN	integrated area navigation
IRS	inertial reference system
ISA	international standard atmosphere
IV	intra-venous
JET 1 / A1	kerosene
JET B	wide-cut fuel
JP-4	wide-cut fuel
km	kilometres
kN	kilonewton
KSS	KSS formula
kt	knot
LAT/LONG	latitude/longitude
LIFUS	line flying under supervision

*Acronyms used in Part-CAT and Part-SPA*

LNAV	lateral navigation
LoA	letter of agreement
LOC	localiser
LOS	limited obstacle surface
LOUT	lowest operational use temperature
LP	localiser performance
LPV	lateral precision with vertical guidance approach
LRNS	long range navigation system
LVO	low visibility operations
LVP	low visibility procedures
LVTO	low visibility take-off
m	metres
MALS	medium intensity approach lighting system
MALSF	medium intensity approach lighting system with sequenced flashing lights
MALSR	medium intensity approach lighting system with runway alignment indicator lights
MAPt	missed approach point
MCTOM	maximum certificated take-off mass
MDA	minimum descent altitude
MDA/H	minimum descent altitude/height
MDH	minimum descent height
MEA	minimum safe en-route altitude
MEL	minimum equipment list
METAR	meteorological aerodrome report
MGA	minimum safe grid altitude
MHz	Megahertz
MIALS	medium intensity approach light system
MID	midpoint

*Acronyms used in Part-CAT and Part-SPA*

ml	millilitres
MLS	microwave landing system
MMEL	master minimum equipment list
MNPS	minimum navigation performance specifications
MOC	minimum obstacle clearance
MOCA	minimum obstacle clearance altitude
MOPS	minimum operational performance specifications
MORA	minimum off-route altitude
MPSC	maximum passenger seating configuration
mSv	millisievert
NADP	noise abatement departure procedure 1 and 2
NALS	no approach lighting system
NAV	navigation
NDB	non directional beacon
N <sub>F</sub>	free power turbine speed
NM	nautical miles
NOTAM	Notice to Airmen
NPA	non-precision approach
NVED	night vision enhancement device
NVG	night vision goggles
OAT	outside air temperature
OCH	obstacle clearance height
OCL	oceanic clearance
ODALS	omnidirectional approach lighting system
OEI	one-engine-inoperative
OFS	obstacle-free surface
OGE	out of ground effect

*Acronyms used in Part-CAT and Part-SPA*

OIP	offset initiation point
ONC	operational navigation chart
PAPI	precision path approach indicator
PAR	precision approach radar
PBE	protective breathing equipment
PBN	performance-based navigation
PDP	predetermined point
PiC	pilot-in-command
PNR	point of no return
POH	pilot's operating handbook
PRM	person with reduced mobility
QFE	atmospheric pressure at aerodrome elevation (or at runway threshold)
QNH	question nil height
R/T	radio/telephony
RA	resolution advisory
RAT	ram air turbine
RCC	rescue coordination centre
RCF	reduced contingency fuel
RCLL	runway centreline lights
RFC	route facility chart
RNAV	area navigation
RNAV 5	B-RNAV, basic area navigation
RNP	required navigation performance
RNPX	required navigation performance X
ROD	rate of descent
RTCA	Radio Technical Commission for Aeronautics
RTZL	runway touchdown zone lights

*Acronyms used in Part-CAT and Part-SPA*

RVR	runway visual range
RVSM	reduced vertical separation minima
SAE ARP	Society of Automotive Engineers Aerospace Recommended Practice
SALS	simple approach lighting system
SALSF	short approach lighting system with sequenced flashing lights
SAP	stabilised approach
SAP	system access parameters
SBAS	satellite-based augmentation system
SCP	special categories of passenger
SID	standard instrument departure
SPECI	aviation selected SPECIAL aviation report
SRA	surveillance radar approach
SSALF	simplified short approach lighting system with sequenced flashing lights
SSALR	simplified short approach lighting system with runway alignment indicator lights
SSALS	simplified short approach lighting system
SSR	secondary surveillance radar (pressure-altitude-reporting)
STC	supplemental type certificate
TA	traffic advisory
TAC	terminal approach chart
TAFS	aerodrome forecasts
TAS	true airspeed
TAWS	terrain awareness warning system
TCAS	traffic alert and collision avoidance system
TCCA	Transport Canada Civil Aviation
TDP	take-off decision point
TDZ	touchdown zone
THR	threshold

*Acronyms used in Part-CAT and Part-SPA*

TODA	take-off distance available
TORA	take-off run available
TRI	type rating instructor
TSE	total system error
TVE	total vertical error
TWIP	terminal weather information for pilots
UMS	usage monitoring system
UTC	coordinated universal time
VASI	visual approach slope indicator
V <sub>AT</sub>	indicated airspeed at threshold
VDF	VHF direction finder
VFR	visual flight rules
VHF	very high frequency
VIS	visibility
VMC	visual meteorological conditions
V <sub>MO</sub>	maximum operating speed
VNAV	vertical navigation
VOR	VHF omnidirectional radio range
V <sub>S1G</sub>	1 g stall speed
V <sub>SO</sub>	stalling speed
V <sub>Y</sub>	best rate of climb speed
WAC	world aeronautical chart
WXR	weather radar
ZFTT	zero flight-time training