European Union Aviation Safety Agency

Guidance Material (GM) to Annex I – Definitions for terms used in Annexes II to VIII

of Commission Regulation (EU) 965/2012 on air operations

Consolidated version including Amendment 101

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For the date of entry into force of amendments 8, 9 and 10, refer to ED Decisions 2019/005/R, 2019/007/R and 2019/008/R in the Official Publication of EASA.

² Date of publication of the consolidated version.

Disclaimer

This consolidated document includes the initial issue of and all subsequent amendments to the GM associated with this Annex.

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Summary of amendments

Chapter	Action	Amdt. no.	Amended by ED Decision (stand-alone or following publication of a certain amending regulation)
GM1	changed	10	EDD 2019/008/R (EFB) – applicable from 09/07/2019
GM16	new	10	
GM1	changed	9	EDD 2019/007/R (ramp simplification) - applicable from 01/09/2019
GM15	changed	8	EDD 2019/005/R (upset prevention and recovery training) (rel. to Reg.(EU) 2018/1974) – applicable from 20/12/2019
GM1 Annex I	changed	7	EDD 2017/023/R (ULD, aircraft tracking) (rel. to Reg. (EU) No 2015/2338)
GM1 Annex I	changed	6	EDD 2017/005/R (update to Ops rules)
GM3 Annex I – HELIDECK	new	5	EDD 2016/022/R (HOFO) – applicable from 1/07/2018
GM3 → GM5	renumbered		
GM5 → GM6	renumbered; changed		
GM6 → GM7	renumbered		
GM8	new		
GM7 → GM9	renumbered; changed		
GM10	new		
GM8 → GM11	renumbered		
GM9 → GM12	renumbered		
GM10 → GM13	renumbered		
GM11 → GM14	renumbered		
GM12 → GM15	renumbered		

GM1 Annex I - DEFINITIONS GM2 Annex I - ABBREVIATIONS AND ACRONYMS	New def. New items	4	Reg. (EU) No 2016/1199 and EDD 2016/016/R (PBN)
GM 12 Annex I	New	3	ED Decision 2015/012/R (UPRT)
GM 11 Annex I	New	2	Reg. (EU) 2015/140 (Sterile flight deck procedures); ED Decision 2015/002/R
Annex I – the title	Amended	1	Reg. (EU) 800/2013 (NCC, NCO); ED Decision 2013/017/R
GM1 Annex I	Amended		
GM2 Annex I	Amended		

GM1 Annex I Definitions

DEFINITIONS FOR TERMS USED IN ACCEPTABLE MEANS OF COMPLIANCE AND GUIDANCE MATERIAL

For the purpose of Acceptable Means of Compliance and Guidance Material to Regulation (EU) No 965/2012, the following definitions should apply:

- (a) 'Abnormal flight behaviour' means, in the context of an aircraft tracking system, an event affecting a flight:
 - (1) which is outside of the parameters defined by the operator for normal operation or which indicates an obvious deviation from normal operation; and
 - (2) for which the operator has determined that it poses a risk for the safe continuation of the flight or for third parties.
- (a) 'Accuracy' means, in the context of PBN operations, the degree of conformance between the estimated, measured or desired position and/or the velocity of a platform at a given time, and its true position or velocity. Navigation performance accuracy is usually presented as a statistical measure of system error and is specified as predictable, repeatable and relative.
- (b) 'Aircraft-based augmentation system (ABAS)' means a system that augments and/or integrates the information obtained from the other GNSS elements with information available on board the aircraft. The most common form of ABAS is receiver autonomous integrity monitoring (RAIM).
- (ba) 'Airport moving map display (AMMD)' means a software application that displays an airport map on a display device and uses data from a navigation source to depict the aircraft current position on this map while the aircraft is on the ground.
- (c) 'Area navigation (RNAV)' means a method of navigation which permits aircraft operation on any desired flight path within the coverage of station-referenced navigation aids or within the limits of the capability of self-contained aids, or a combination of these.
- (d) 'Availability' means, in the context of PBN operations, an indication of the ability of the system to provide usable service within the specified coverage area and is defined as the portion of time during which the system is to be used for navigation during which reliable navigation information is presented to the crew, autopilot or other system managing the flight of the aircraft
- (e) 'Committal point' means the point in the approach at which the pilot flying decides that, in the event of an engine failure being recognised, the safest option is to continue to the elevated final approach and take-off area (elevated FATO).
- (f) 'Continuity of function' means, in the context of PBN operations, the capability of the total system, comprising all elements necessary to maintain aircraft position within the defined airspace, to perform its function without non-scheduled interruptions during the intended operation.
- (fa) 'Controlled portable electronic device (C-PED)' means a PED subject to administrative control by the operator that uses it. This includes, inter alia, tracking the allocation of the devices to specific aircraft or persons and ensuring that no unauthorised changes are made to the hardware, software, or databases. C-PEDs can be assigned to the category of non-intentional transmitters or T-PEDs.

- (fb) 'EFB installed resources' means certified EFB hardware components external to the EFB host platform itself, such as input/output components (installed remote displays, keyboards, pointing devices, switches, etc.) or a docking station.
- (fc) 'EFB mounting device' means an aircraft certified part that secures a portable or installed EFB, or EFB system components.
- (fd) 'EFB system supplier' means the company responsible for developing, or for having developed, the EFB system or part of it.
- (g) 'Emergency locator transmitter' is a generic term describing equipment that broadcasts distinctive signals on designated frequencies and, depending on application, may be activated by impact or may be manually activated.
- (h) 'Exposure time' means the actual period during which the performance of the helicopter with the critical engine inoperative in still air does not guarantee a safe forced landing or the safe continuation of the flight.
- (i) 'Fail-operational flight control system' means a flight control system with which, in the event of a failure below alert height, the approach, flare and landing can be completed automatically. In the event of a failure, the automatic landing system will operate as a fail-passive system.
- (j) 'Fail-operational hybrid landing system' means a system that consists of a primary fail-passive automatic landing system and a secondary independent guidance system enabling the pilot to complete a landing manually after failure of the primary system.
- (k) 'Fail-passive flight control system': a flight control system is fail-passive if, in the event of a failure, there is no significant out-of-trim condition or deviation of flight path or attitude but the landing is not completed automatically. For a fail-passive automatic flight control system the pilot assumes control of the aeroplane after a failure.
- (I) 'Flight control system' in the context of low visibility operations means a system that includes an automatic landing system and/or a hybrid landing system.
- (m) 'HEMS dispatch centre' means a place where, if established, the coordination or control of the helicopter emergency medical service (HEMS) flight takes place. It may be located in a HEMS operating base.
- (n) 'Hybrid head-up display landing system (hybrid HUDLS)' means a system that consists of a primary fail-passive automatic landing system and a secondary independent HUD/HUDLS enabling the pilot to complete a landing manually after failure of the primary system.
- (na) 'Installed EFB' means an EFB host platform installed in an aircraft, capable of hosting type A and/or type B EFB applications. It may also host certified applications. It is an aircraft part, and, is therefore, covered by the aircraft airworthiness approval.
- (o) 'Integrity' means, in the context of PBN operations, the ability of a system to provide timely warnings to users when the system should not be used for navigation.
- (p) 'Landing distance available (LDAH)' means the length of the final approach and take-off area plus any additional area declared available by the State of the aerodrome and suitable for helicopters to complete the landing manoeuvre from a defined height.
- (q) 'Landing distance required (LDRH)', in the case of helicopters, means the horizontal distance required to land and come to a full stop from a point 15 m (50 ft) above the landing surface.
- (r) 'Lateral navigation' means a method of navigation which permits aircraft operation on a horizontal plane using radio navigation signals, other positioning sources, external flight path references, or a combination of these.

- (ra) 'mass' and 'weight': In accordance with ICAO Annex 5 and the International System of Units (SI), both terms are used to indicate the actual and limiting masses of aircraft, the payload and its constituent elements, the fuel load, etc. These are expressed in units of mass (kg), but in most approved flight manuals and other operational documentation, these quantities are published as weights in accordance with the common language. In the ICAO standardised system of units of measurement, a weight is a force rather than a mass. Since the use of the term 'weight' does not cause any problem in the day-to-day handling of aircraft, its continued use in operational applications and publications is acceptable.
- (s) 'Maximum structural landing mass' means the maximum permissible total aeroplane mass upon landing under normal circumstances.
- (t) 'Maximum zero fuel mass' means the maximum permissible mass of an aeroplane with no usable fuel. The mass of the fuel contained in particular tanks should be included in the zero fuel mass when it is explicitly mentioned in the aircraft flight manual.
- (ta) 'Miscellaneous (non-EFB) software applications' means non-EFB applications that support function(s) not directly related to the tasks performed by the flight crew in the aircraft.
- (u) 'Overpack', for the purpose of transporting dangerous goods, means an enclosure used by a single shipper to contain one or more packages and to form one handling unit for convenience of handling and stowage.
- (v) 'Package', for the purpose of transporting dangerous goods, means the complete product of the packing operation consisting of the packaging and its contents prepared for transport.
- (w) 'Packaging', for the purpose of transporting dangerous goods, means receptacles and any other components or materials necessary for the receptacle to perform its containment function.
- (x) 'Personal locator beacon (PLB)' is an emergency beacon other than an ELT that broadcasts distinctive signals on designated frequencies, is standalone, portable and is manually activated by the survivors.
- (xa) 'Ramp inspection tool' means the IT application including a centralised database used by all stakehlders to store and exchange data related to ramp inspections.
- (y) 'Receiver autonomous integrity monitoring (RAIM)' means a technique whereby a GNSS receiver/processor determines the integrity of the GNSS navigation signals using only GNSS signals or GNSS signals augmented with altitude. This determination is achieved by a consistency check among redundant pseudo-range measurements. At least one satellite in addition to those required for navigation has to be in view for the receiver to perform the RAIM function.
- (z) 'Rotation point (RP)' means the point at which a cyclic input is made to initiate a nose-down attitude change during the take-off flight path. It is the last point in the take-off path from which, in the event of an engine failure being recognised, a forced landing on the aerodrome can be achieved.
- (aa) 'Space-based augmentation system (SBAS)' means a wide coverage augmentation system that augments and/or integrates the information obtained from the other GNSS elements with information from a satellite-based transmitter. The most common form of SBAS in Europe is the European Geostationary Navigation Overlay Service (EGNOS).
- (ab) 'Touch down and lift-off area (TLOF)' means a load-bearing area on which a helicopter may touch down or lift off.
- (ac) 'Transmitting PED (T-PED)' means a portable electronic device (PED) that has intentional radio frequency (RF) transmission capabilities.

(ad) 'Vertical navigation' means a method of navigation which permits aircraft operation on a vertical flight profile using altimetry sources, external flight path references, or a combination of these.

(ae) 'Viewable stowage' means a non-certified device that is attached to the flight crew member (e.g. with a kneeboard) or to an existing aircraft part (e.g. using suction cups), and is intended to hold charts or to hold low-mass portable electronic devices that are viewable by the flight crew members at their assigned duty stations.

GM2 Annex I Definitions

ABBREVIATIONS AND ACRONYMS

The following abbreviations and acronyms are used in the Annexes to this Regulation:

A aeroplane

a/c aircraft

AAC aeronautical administrative communications

AAIM aircraft autonomous integrity monitoring

AAL above aerodrome level

ABAS aircraft-based augmentation system

AC advisory circular

AC alternating current

ACAS airborne collision avoidance system

ADF automatic direction finder

ADG air driven generator

ADS automatic dependent surveillance

ADS-B automatic dependent surveillance - broadcast

ADS-C automatic dependent surveillance - contract

AEA Association of European Airlines

AEO all-engines-operative

AFFF aqueous film forming foams

AFM aircraft flight manual

AFN aircraft flight notification
AFN ATS facilities notification

AGL above ground level

AHRS attitude heading reference system

AIS aeronautical information service

ALARP as low as reasonably practicable

ALSF approach lighting system with sequenced flashing lights

AMC Acceptable Means of Compliance

AML aircraft maintenance licence

AMSL above mean sea level

ANP actual navigation performance

AOC aeronautical operational control

AOC air operator certificate

APCH approach

APU auxiliary power unit

APV approach procedure with vertical guidance

AR authorisation required
ARA airborne radar approach

ARA Authority Requirements for Aircrew

A-RNP advanced required navigation performance

ARO Authority Requirements for Air Operations

ARP Aerospace Recommended Practices

ASC Air Safety Committee

ASDA accelerate-stop distance available

ASE altimeter system error

ATA Air Transport Association

ATC air traffic control

ATIS automatic terminal information service

ATN air traffic navigation

ATPL airline transport pilot licence

ATQP alternative training and qualification programme

ATS air traffic services

ATSC air traffic service communication

AVGAS aviation gasoline

AVTAG aviation turbine gasoline (wide-cut fuel)

AWO all weather operations

BALS basic approach lighting system

Baro-VNAV Barometric VNAV

BCAR British civil airworthiness requirements

BITD basic instrument training device

CAP controller access parameters

CAT commercial air transport

CAT I / II / III category I / II / III

CBT computer-based training

CC cabin crew

CDFA continuous descent final approach

CDL configuration deviation list
CFIT controlled flight into terrain

CG centre of gravity

CM context management

CMV converted meteorological visibility

CofA certificate of airworthiness

COP code of practice

CoR certificate of registration

COSPAS- cosmicheskaya sistyema poiska avariynich sudov - search and rescue satellite-

SARSAT aided tracking

CP committal point

CPA closest point of approach

CPDLC controller pilot data link communication

CPL commercial pilot licence

C-PED controlled portable electronic device

CRE class rating examiner
CRI class rating instructor

CRM crew resource management
CS Certification Specifications

CVR cockpit voice recorder

DA decision altitude

DA/H decision altitude/height

DAP downlinked aircraft parameters

D-ATIS digital automatic terminal information service

DC direct current

DCL departure clearance

D-FIS data link flight information service

DG dangerous goods
DH decision height
DI daily inspection

DIFF deck integrated fire fighting system

DLR data link recorder

DME distance measuring equipment

D-METAR data link - meteorological aerodrome report

D-OTIS data link - operational terminal information service

DPATO defined point after take-off
DPBL defined point before landing

DR decision range
DSTRK desired track

EC European Community

ECAC European Civil Aviation Conference

EFB electronic flight bag

EFIS electronic flight instrument system

EGNOS European geostationary navigation overlay service

EGT exhaust gas temperature

ELT emergency locator transmitter

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 estimated position of error

EPR engine pressure ratio

EPU estimated position of uncertainty
ERA en-route alternate (aerodrome)

ERP emergency response plan

ETOPS extended range operations with two-engined aeroplanes

EU European Union

EUROCAE European Organisation for Civil Aviation Equipment

EVS enhanced vision system

FAA Federal Aviation Administration

FAF final approach fix

FALS full approach lighting system
FANS future air navigation systems

FAP final approach point

FAR Federal Aviation Regulation FATO final approach and take-off

FC flight crew

FCL flight crew licensing

FCOM flight crew operating manual

FDM flight data monitoring

FDO flying display operation

FDR flight data recorder
FFS full flight simulator

FGS flight control/guidance system

FI flight instructor

FLIPCY flight plan consistency

FLTA forward-looking terrain avoidance

FMECA failure mode, effects and criticality analysis

FMS flight management system

FNPT flight and navigation procedures trainer

FOD foreign object damage

FOSA flight operational safety assessment

fpm feet per minute

FRT fixed radius transition

FSTD flight simulation training device

ft feet

FTD flight training device
FTE full time equivalent
FTE flight technical error

FTL flight and duty time limitations

g gram

GAGAN GPS aided geo augmented navigation
GBAS ground-based augmentation system
GCAS ground collision avoidance system

GEN general

GIDS ground ice detection system

GLS GBAS landing system
GM Guidance Material

GMP general medical practitioner

GNSS global navigation satellite system

GPS global positioning system

GPWS ground proximity warning system

H helicopter

HEMS helicopter emergency medical service

HF high frequency

Hg mercury

HHO helicopter hoist operation

HIALS high intensity approach lighting system

HIGE hover in ground effect
HLL helideck limitations list

HOGE hover out of ground effect

HoT hold-over time hPa hectopascals

HPL human performance and limitations

HUD head-up display

HUDLS head-up guidance landing system

HUMS health usage monitor system

IAF initial approach fix

IALS intermediate approach lighting system

ICAO International Civil Aviation Organization

IDE instruments, data and equipment

IF intermediate fix

IFR instrument flight rules

IFSD in-flight shutdown

IGE in ground effect

ILS instrument landing system

IMC instrument meteorological conditions

in inches

INS inertial navigation system

IP intermediate point
IR Implementing Rule
IR instrument rating

IRS inertial reference system

ISA international standard atmosphere

ISO International Organization for Standardization

IV intravenous

JAA Joint Aviation Authorities

JAR Joint Aviation Requirements

kg kilograms km kilometres

kt knots

LDA landing distance available

LDP landing decision point
LED light-emitting diode

LHS left hand seat

LIFUS line flying under supervision

LNAV lateral navigation

LoA letter of acceptance

LOC localiser

LOE line-oriented evaluation

LOFT line-oriented flight training

LOQE line-oriented quality evaluation

LOS limited obstacle surface

LP localiser performance

LPV localiser performance with vertical guidance

LRCS long range communication system

LRNS long range navigation system

LVO low visibility operation

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 certified take-off mass

MDA minimum descent altitude

MDH minimum descent height

MEA minimum en-route altitude

MED medical

MEL minimum equipment list

METAR meteorological aerodrome report

MGA minimum grid altitude

MHA minimum holding altitude

MHz megahertz MID midpoint

MLS manuals, logs and records
MLS microwave landing system

MLX millilux mm millimetres MM multi-mode

MMEL master minimum equipment list

MNPS minimum navigation performance specifications

MOC minimum obstacle clearance

MOCA minimum obstacle clearance altitude

MOPSC maximum operational passenger seating configuration

MORA minimum off-route altitude

MPSC maximum passenger seating capacity

MSA minimum sector altitude

MSAS multi-functional satellite augmentation system

MTCA minimum terrain clearance altitude

N North

NADP noise abatement departure procedure

NALS no approach lighting system

NCC non-commercial operations with complex motor-powered aircraft

NCO non-commercial operations with other-than-complex motor-powered aircraft

N_F free power turbine speed N_G engine gas generator speed

NM nautical miles

NOTAM notice to airmen

NOTECHS non-technical skills evaluation

NOTOC notification to captain

NPA non-precision approach

NPA Notice of Proposed Amendment

NSE navigation system error

NVD night vision device NVG night vision goggles

NVIS night vision imaging system

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
OIP offset initiation point
OM operations manual

OML operational multi-pilot limitation

ONC operational navigation chart

OPS operations

ORO Organisation Requirements for Air Operations

OTS CAT II other than standard category II

PAPI precision approach path indicator

PAR precision approach radar

PBE protective breathing equipment
PBN performance-based navigation

PC/PT proficiency check/proficiency training

PCDS personnel carrying device system

PDA premature descent alert
PDP predetermined point

PED portable electronic device

PIC pilot-in-command

PIN personal identification number

PIS public interest site

PLB personal locator beacon

PNR point of no return

POH pilot's operating handbook
PRM person with reduced mobility

QAR quick access recorder

QFE atmospheric pressure at aerodrome elevation / runway threshold

QNH atmospheric pressure at nautical height

RA resolution advisory

RAIM receiver autonomous integrity monitoring

RAT ram air turbine

RCC rescue coordination centre
RCF reduced contingency fuel
RCLL runway centre line lights

RF radius to fix

RF radio frequency
RFC route facility chart
RI ramp inspection

RI rectification interval

RIE rectification interval extension
RMA regional monitoring agency

RNAV area navigation

RNP required navigation performance

RNP APCH RNP approach

RNP AR APCH RNP approach for which authorisation is required

ROD rate of descent

RP rotation point

RTCA Radio Technical Commission for Aeronautics

RTODAH rejected take-off distance available (helicopters)

RTODRH rejected take-off distance required (helicopters)

RTOM reduced take-off mass

RTZL runway touchdown zone lights

RVR runway visual range

RVSM reduced vertical separation minima

S South

SAFA safety assessment of foreign aircraft

SALS simple approach lighting system

SALSF simple approach lighting system with sequenced flashing lights

SAp stabilised approach

SAP system access parameters

SAR search and rescue

SAS stability augmentation system

SBAS satellite-based augmentation system

SCC senior cabin crew

SCP special category of passenger

SDCM system of differential correction and monitoring

SFE synthetic flight examiner
SFI synthetic flight instructor

SID standard instrument departure

SMM safety management manual safety management system

SNAS satellite navigation augmentation system

SOP standard operating procedure

SPA operations requiring specific approvals
SPECI aviation selected special weather report

SPO specialised operations

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

SSEC static source error correction

GM

SSR secondary surveillance radar
STAR standard terminal arrival route
STC supplemental type certificate

TA traffic advisory

TAC terminal approach chart

TAS true airspeed

TAWS terrain awareness warning system

TC technical crew
TC type certificate

TCAS traffic collision avoidance system
TCCA Transport Canada Civil Aviation

TCH type certificate holder
TDP take-off decision point

TDZ touchdown zone

THR threshold

TI Technical Instructions

TIT turbine inlet temperature

TLS target level of safety
TMG touring motor glider

TODA take-off distance available (aeroplanes)

TODAH take-off distance available (helicopters)

TODRH take-off distance required (helicopters)

TOGA take-off/go around
TORA take-off run available

T-PED transmitting portable electronic device

TRE type rating examiner
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

V₂ take-off safety speed

V₅₀ stalling speed

V_{AT} indicated airspeed at threshold

VDF VHF direction finder

VFR visual flight rules

VHF very high frequency

VIS visibility

VMC visual meteorological conditions

V_{MO} maximum operating speed

VNAV vertical navigation

VOR VHF omnidirectional radio range

V_T threshold speed

VTOL vertical take-off and landing

V_{TOSS} take-off safety speed

WAAS wide area augmentation system

WAC world aeronautical chart

WIFI wireless fidelity

ZFTT zero flight-time training

GM3 Annex I Definitions

HELIDECK

The term 'helideck' includes take-off and landing operations on ships and vessels and covers 'shipboard final approach and take off areas (FATOs).

GM4 Annex I Definitions

HEAD-UP GUIDANCE LANDING SYSTEM (HUDLS)

A HUDLS is typically used for primary approach guidance to decision heights of 50 ft.

GM5 Annex I Definitions

HELICOPTER EMERGENCY MEDICAL SERVICES (HEMS) FLIGHT

- (a) A HEMS flight (or more commonly referred to as HEMS mission) normally starts and ends at the HEMS operating base following tasking by the 'HEMS dispatch centre'. Tasking can also occur when airborne, or on the ground at locations other than the HEMS operating base.
- (b) The following elements should be regarded as integral parts of the HEMS mission:
 - (1) flights to and from the HEMS operating site when initiated by the HEMS dispatch centre;
 - (2) flights to and from an aerodrome/operating site for the delivery or pick-up of medical supplies and/or persons required for completion of the HEMS mission; and
 - (3) flights to and from an aerodrome/operating site for refuelling required for completion of the HEMS mission.

GM6 Annex I Definitions

HOSTILE ENVIRONMENT

Those parts of an open-sea area not considered to constitute a hostile environment should be designated by the appropriate authority in the appropriate aeronautical information publication (AIP) or other suitable documentation.

GM7 Annex I Definitions

NIGHT VISION IMAGING SYSTEM (NVIS)

Helicopter components of the NVIS include the radio altimeter, visual warning system and audio warning system.

GM8 Annex I Definitions

OFFSHORE LOCATION

'Offshore location' includes, but is not limited to:

- (a) helidecks;
- (b) shipboard heliports; and
- (c) winching areas on vessels or renewable-energy installations.

GM9 Annex I Definitions

OFFSHORE OPERATIONS

An offshore operation is considered to be a helicopter flight for the purpose of:

- (a) support of offshore oil, gas and mineral exploration, production, storage and transport;
- (b) support to offshore wind turbines and other renewable-energy sources; or
- (c) support to ships including sea pilot transfer.

GM10 Annex I Definitions

COASTLINE

The national definition of coastline should be included by the appropriate authority in the aeronautical information publication (AIP) or other suitable documentation.

GM11 Annex I Definitions

PUBLIC INTEREST SITE

An example of a public interest sites is a landing site based at a hospital located in a hostile environment in a congested area, which due to its size or obstacle environment does not allow the application of performance class 1 requirements that would otherwise be required for operations in a congested hostile environment.

GM12 Annex I Definitions

TECHNICAL INSTRUCTIONS

The ICAO document number for the Technical Instructions is Doc 9284-AN/905.

GM13 Annex I Definitions

 V_1

The first action includes for example: apply brakes, reduce thrust, deploy speed brakes.

GM14 Annex I Definitions

TASK SPECIALISTS

For the purpose of this Regulation, persons that are carried in a specialised operation, e.g. on a parachute flight, sensational flight or scientific research flight, are considered to be task specialists.

Changes apply from 20/12/2019.

GM15 Annex I Definitions

UPSET PREVENTION AND RECOVERY TRAINING (UPRT) DEFINITIONS

'Aeroplane upset prevention and recovery training (UPRT)' refers to training consisting of:

- aeroplane upset prevention training: a combination of theoretical knowledge and flying training with the aim of providing flight crew with the required competencies to prevent aeroplane upsets; and
- aeroplane upset recovery training: a combination of theoretical knowledge and flying training with the aim of providing flight crew with the required competencies to recover from aeroplane upsets.

'Aeroplane upset' refers to an undesired aircraft state characterised by unintentional divergences from parameters normally experienced during operations. An aeroplane upset may involve pitch and/or bank angle divergences as well as inappropriate airspeeds for the conditions.

'Angle of attack (AOA)' means the angle between the oncoming air, or relative wind, and a defined reference line on the aeroplane or wing.

'Approach-to-stall' means flight conditions bordered by the stall warning and stall.

'Competency' means a combination of skills, knowledge, and attitudes required to perform a task to the prescribed standard.

'Developed upset' means a condition meeting the definition of an aeroplane upset.

'Developing upset' means any time the aeroplane begins to unintentionally diverge from the intended flight path or airspeed.

'Energy state' means how much of each kind of energy (kinetic, potential or chemical) the aeroplane has available at any given time.

'Error' means an action or inaction by the flight crew that leads to deviations from organisational or flight crew intentions or expectations.

'Error management' means the process of detecting and responding to errors with countermeasures that reduce or eliminate the consequences of errors, and mitigate the probability of further errors or undesired aircraft states.

'First indication of a stall' means the initial aural, tactile or visual sign of an impending stall, which can be either naturally or synthetically induced.

'Flight crew resilience' means the ability of a flight crew member to recognise, absorb and adapt to disruptions.

'Fidelity level' means the level of realism assigned to each of the defined FSTD features.

'Flight path' means the trajectory or path of the aeroplane travelling through the air over a given space of time.

'Flight path management' means active manipulation, using either the aeroplanes automation or manual handling, to command the aeroplane flight controls to direct the aeroplane along a desired trajectory.

'FSTD Training Envelope' refers to the high and moderate confidence regions of the FSTD validation envelope.

'Load factor' factor means the ratio of a specified load to the weight of the aeroplane, the former being expressed in terms of aerodynamic forces, propulsive forces, or ground reactions.

'Loss of control in flight (LOCI)' means a categorisation of an accident or incident resulting from a deviation from the intended flight path.

'Manoeuvre-based training' means training that focuses on a single event or manoeuvre in isolation.

'Negative training' means training which unintentionally introduces incorrect information or invalid concepts, which could actually decrease rather than increase safety.

'Negative transfer of training' means the application (and 'transfer') of what was learned in a training environment (i.e., a classroom, an FSTD) to normal practice, i.e. it describes the degree to which what was learned in training is applied to actual normal practices. In this context, negative transfer of training refers to the inappropriate generalisation of knowledge and skill to a situation or setting in normal practice that does not equal the training situation or setting.

'Post-stall regime' means flight conditions at an angle of attack greater than the critical angle of attack.

'Scenario-based training' means training that incorporates manoeuvres into real-world experiences to cultivate practical flying skills in an operational environment.

'Stall' means a loss of lift caused by exceeding the aeroplane's critical angle of attack.

Note: A stalled condition can exist at any attitude and airspeed, and may be recognised by continuous stall warning activation accompanied by at least one of the following:

- (a) buffeting, which could be heavy at times;
- (b) lack of pitch authority and/or roll control; and
- (c) inability to arrest the descent rate.

'Stall Event' means an occurrence whereby the aeroplane experiences conditions associated with an approach-to-stall or a stall.

'Stall (event) recovery procedure' means the manufacturer-approved aeroplane-specific stall recovery procedure. If an OEM-approved recovery procedure does not exist, the aeroplane-specific stall recovery procedure developed by the operator, based on the stall recovery template contained in GM5 ORO.FC.220&230, may be used.

'Stall warning' means a natural or synthetic indication provided when approaching a stall that may include one or more of the following indications:

(a) aerodynamic buffeting (some aeroplanes will buffet more than others);

- (b) reduced roll stability and aileron effectiveness;
- (c) visual or aural cues and warnings;
- (d) reduced elevator (pitch) authority;
- (e) inability to maintain altitude or arrest rate of descent; and
- (f) stick shaker activation (if installed).

Note: A stall warning indicates an immediate need to reduce the angle of attack.

'Startle' means the initial short-term, involuntary physiological and cognitive reactions to an unexpected event that commence the normal human stress response.

'Stick pusher' means a device that, automatically applies a nose down movement and pitch force to an aeroplane's control columns, to attempt to decrease the aeroplane's angle of attack. Device activation may occur before or after aerodynamic stall, depending on the aeroplane type.

Note: A stick pusher is not installed on all aeroplane types.

'Stick shaker' means a device that automatically vibrates the control column to warn the pilot of an approaching stall.

Note: A stick shaker is not installed on all aeroplane types.

'Stress (response)' means the response to a threatening event that includes physiological, psychological and cognitive effects. These effects may range from positive to negative and can either enhance or degrade performance.

'Surprise' means the emotionally-based recognition of a difference in what was expected and what is actual.

'Threat' means events or errors that occur beyond the influence of the flight crew, increase operational complexity and must be managed to maintain the margin of safety.

'Threat management' means the process of detecting and responding to threats with countermeasures that reduce or eliminate the consequences of threats and mitigate the probability of errors or undesired aircraft states.

'Train-to-proficiency' means approved training designed to achieve end-state performance objectives, providing sufficient assurances that the trained individual is capable to consistently carry out specific tasks safely and effectively.

Note: In the context of this definition, 'train-to-proficiency' can be replaced by 'training-to-proficiency'.

'Undesired aircraft state' means flight crew-induced aircraft position or speed deviation, misapplication of controls, or incorrect systems configuration, associated with a reduction in margins of safety.

Note: Undesired states can be managed effectively, restoring margins of safety, or flight crew response(s) can induce an additional error, incident, or accident.

Note: All countermeasures are necessary flight crew actions. However, some countermeasures to threats, errors and undesired aircraft states that flight crew employ, build upon 'hard'/systemic-based resources provided by the aviation system.

'Unsafe situation' means a situation, which has led to an unacceptable reduction in safety margin.

GM16 Annex I Definitions

MINOR FAILURE CONDITION

Minor failure conditions may include, for example, a slight reduction in safety margins or functional capabilities, a slight increase in crew workload, such as routine flight plan changes, or some physical discomfort to passengers or cabin crew. Further guidance can be found in AMC 25.1309.

Minor failure conditions are not considered to be unsafe conditions in accordance with AMC 21.A.3B(b).