



Revision of the European operational rules for balloons

OPINION No 01/2016 — RMT.0674–23.03.2018

EXECUTIVE SUMMARY

These Decisions address a proportionality issue related to balloon operations. Its specific objective is to establish simpler and proportionate acceptable means of compliance (AMC)/guidance material (GM) for air operations with balloons.

For this purpose, with Decision 2018/003/R the AMC/GM for air operations with balloons is deleted from the material supporting Regulation (EU) No 965/2012 (except for the authority provisions specified in the AMC/GM to Annex II (Part-ARO)), while Decision 2018/004/R establishes new AMC/GM related to air operations with balloons.

With the new AMC/GM, EASA proposes provisions for air operations with balloons which are less complex and which are proportionate to the complexity and risks of such operations.

In summary, the proposed changes are expected to maintain safety while reducing the regulatory burden especially for balloon pilots/operators.

Action area:	General aviation		
Affected rules:	Regulation (EU) No 965/2012 on air operations; Regulation (EU) 2018/395 on rules for the operation of balloons Decision 2014/019/R (GM to Regulation (EU) No 965/2012); Decision 2014/025/R (Part-ARO); Decision 2014/015/R (Part-CAT); Decision 2014/016/R (Part-NCO); Decision 2014/018/R (Part-SPO)]		
Affected stakeholders:	Operators, national aviation authorities (NAAs)		
Driver:	Efficiency/proportionality	Rulemaking group:	No
Impact assessment:	Light	Rulemaking Procedure:	Accelerated

EASA special rulemaking procedure milestones

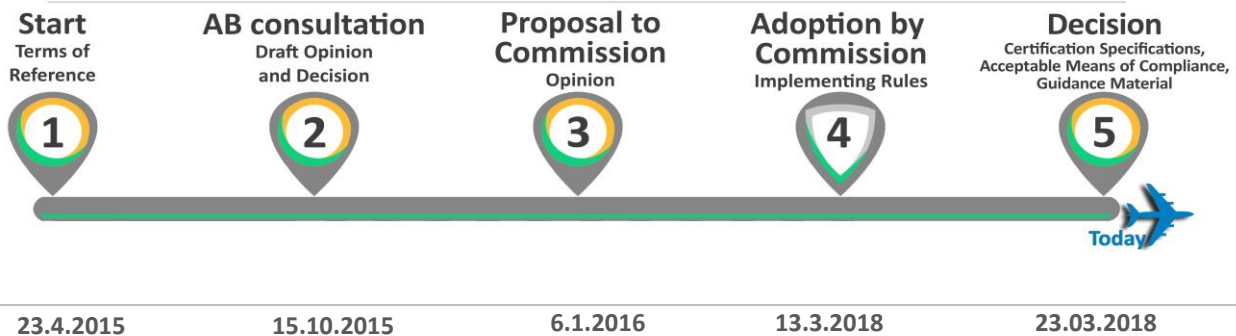


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1. About this Decision

The European Aviation Safety Agency (EASA) developed ED Decisions 2018/003/R and 2018/004/R in line with Regulation (EC) No 216/2008¹ (hereinafter referred to as the 'Basic Regulation') and the Rulemaking Procedure².

This rulemaking activity is included in the EASA 5-year Rulemaking Programme³ under rulemaking task RMT.0674. The scope and timescales of the task were defined in the related Terms of Reference⁴.

The draft text of these Decisions has been developed by EASA, supported by an expert group⁵. All interested parties were consulted through a focused consultation⁶.

EASA reviewed the comments received during the consultation. Based on the comments received, EASA published Opinion No 01/2016⁷ on 7.1.2016, which was addressed to the European Commission. The related EU Regulations 2018/394⁸ and 2018/395⁹ were adopted on 13 March 2018.

The final text of these Decisions with the acceptable means of compliance (AMC)/guidance material (GM) has been developed by EASA with the support of the RMT.0674 expert group and by conducting a focused consultation¹⁰.

The major milestones of this rulemaking activity are presented on the title page.

¹ Regulation (EC) No 216/2008 of the European Parliament and of the Council of 20 February 2008 on common rules in the field of civil aviation and establishing a European Aviation Safety Agency, and repealing Council Directive 91/670/EEC, Regulation (EC) No 1592/2002 and Directive 2004/36/EC (OJ L 79, 19.3.2008, p. 1) <http://eur-lex.europa.eu/legal-content/EN/TXT/?qid=1467719701894&uri=CELEX:32008R0216>.

² EASA is bound to follow a structured rulemaking process as required by Article 52(1) of Regulation (EC) No 216/2008. Such a process has been adopted by the EASA Management Board (MB) and is referred to as the 'Rulemaking Procedure'. See MB Decision No 18-2015 of 15 December 2015 replacing Decision 01/2012 concerning the procedure to be applied by EASA for the issuing of opinions, certification specifications and guidance material (<http://www.easa.europa.eu/the-agency/management-board/decisions/easa-mb-decision-18-2015-rulemaking-procedure>).

³ <http://easa.europa.eu/rulemaking/annual-programme-and-planning.php>

⁴ <http://www.easa.europa.eu/document-library/terms-of-reference-and-group-compositions/tor-rmt0674>

⁵ After publication of the Opinion No 01/2016 on 6.1.2016, mainly dealing with the Implementing Rules on air operations with balloons, two meetings of the expert group (on 13.9.2016 and on 28.11.2017) were dedicated especially to the development of the AMC/GM.

⁶ 1-day public workshop on 15.10.2015.

⁷ <http://www.easa.europa.eu/document-library/opinions/opinion-012016>

⁸ Commission Regulation (EU) 2018/394 of 13 March 2018 amending Commission Regulation (EU) No 965/2012 as regards the deletion of air operations requirements for balloons (OJ L 71, 14.3.2018, p. 1).

⁹ Commission Regulation (EU) 2018/395 of 13 March 2018 laying down detailed rules for the operation of balloons pursuant to Regulation (EC) No 216/2008 of the European Parliament and of the Council (OJ L 71, 14.3.2018, p. 10).

¹⁰ Written consultation of the Member States' Air Operations Technical Body (Air OPS TeB) on 7.12.2017 to 17.1.2018.



2. In summary — why and what

2.1. Why we need to change the AMC/GM

In the past, the European rules for air operations with balloons were laid down in Regulation (EU) No 965/2012. This Regulation did not only contain rules on balloons, but also the technical requirements and administrative procedures regulating air operations with aeroplanes and helicopters. In this respect, stakeholders have continuously raised the following concerns as regards the balloon rules:

- Regulation (EU) No 965/2012 is too complex to handle. For different balloon operations, different parts and different points within the regulation were applicable, sometimes ‘hidden’ and not easily identifiable.
- Many rules for balloons have been ‘translated’, e.g. from the rules for large passenger aeroplanes. This resulted in an overregulation for balloons, which, compared to large passenger aeroplanes for example, are simple aircraft.
- From the way the rules were written, it was not always clear whether they are applicable to balloons, and when they are, to which extent (e.g. rules on the operations manual, on the minimum equipment list (MEL), task specialist, etc.).

In the context of the General Aviation (GA) Road Map¹¹, EASA took into consideration the concerns raised by stakeholders and decided to develop simpler and proportionate rules for air operations with balloons. This included the following major measures:

- establishing a new regulation for balloons; and
- restructuring, amending and simplifying the rules, extracted from Regulation (EU) No 965/2012, to establish a simpler and proportionate regulatory framework for air operations with balloons.

As a result, the following two Commission regulations now have been adopted:

- Regulation (EU) 2018/395 laying down detailed rules for the operation of balloons; and
- Regulation (EU) 2018/394 amending Regulation (EU) No 965/2012 as regards the deletion of air operations requirements for balloons.

Subsequently, simpler and proportionate AMC/GM had to be developed and the existing AMC/GM addressing air operations of balloons have to be deleted from the AMC/GM of Regulation (EU) No 965/2012 and its Annexes.

2.2. What we want to achieve — objectives

The overall objectives of the EASA system are defined in Article 2 of Regulation (EC) No 216/2008. This proposal will contribute to the achievement of the overall objectives by addressing the issues outlined in Chapter 2.

¹¹ <http://www.easa.europa.eu/easa-and-you/general-aviation/general-aviation-road-map> and <http://easa.europa.eu/system/files/dfu/European%20GA%20Safety%20Strategy.pdf>



The specific objective of this proposal is to establish dedicated balloon operations requirements that are better considering the specificities of balloons and are proportionate to the complexity and risks of balloon flying.

2.3. How we want to achieve it — overview of the amendments

The outcome of the consultation of the major items was discussed in Section 2.3 of Opinion 01/2016. Thereby, however, emphasis was put on the implementing rules.

In the present document, **Table A1** in the Appendix provides information on the modifications of the AMC/GM. For Regulation (EU) 2018/395 as well as for the new Annex II (Part-BOP), this table provides a comparison of each new AMC/GM and the previous AMC/GM of Regulation (EU) No 965/2012.

The major technical changes, compared to the previous AMC/GM of Regulation (EU) No 965/2012, are described below:

- **Prescriptive vs performance-based rulemaking:** The majority of the expert group members emphasised that for the balloon community prescriptive rulemaking may, in many cases, be a better solution, since it gives clear ‘instructions’, while performance-based rulemaking to some extent may be more difficult to understand and to implement.
- **Transfer of previous implementing rules to AMC/GM:** In several cases EASA, supported by the expert group members, decided to transfer certain provisions, which were initially laid down as implementing rule in Regulation (EU) No 965/2012, to AMC/GM. The advantages are:
 - The implementing rules are kept short and are focussed on the basic requirements.
 - Addressing the more specific items in the AMC/GM means that EASA can amend these items more easily within its own remit by publishing a new Decision.

The transfer of previous implementing rules to AMC/GM has been carried out for the following points (see also Table A1):

- GM1 BOP.BAS.001 Scope – MIXED BALLOONS;
 - AMC1 BOP.BAS.110 Fuel and ballast supply and planning – GENERAL;
 - AMC1 BOP.BAS.180 Use of supplemental oxygen – GENERAL;
 - AMC3 BOP.BAS.190 Balloon specialised operations — Risk assessment and checklist – CHECKLIST FOR PARACHUTE OPERATIONS;
 - AMC2 BOP.BAS.340 Life-saving and signalling equipment – Flights over water – EQUIPMENT;
 - AMC3 BOP.ADD.200 Operations manual – MORE CONSERVATIVE DATA AND PROCEDURES; and
 - AMC2 BOP.ADD.205 Record-keeping – STORAGE PERIODS AND AVAILABILITY.
- **Task specialist:** The majority of the expert group members agreed with EASA that task specialists do not play an important role for specialised operations with balloons. Consequently, EASA decided not to introduce any implementing rules or any AMC/GM for task specialists.
 - **Minimum equipment list (MEL):** For balloon operations, the importance of the MEL is low, since the manufacturer does not foresee equipment that may be temporarily inoperative. Contrary to large passenger aeroplanes for example, all of the mandatory equipment of balloons has to be

operative at all times. Consequently, EASA decided not to introduce any implementing rules or any AMC/GM on the MEL.

- **Aerial advertising flights** (AMC1 BOP.BAS.001): Following a request of the majority of the expert group members, EASA included AMC as regards aerial advertising flights. These flights are only considered commercial operations, when certain preconditions are fulfilled.
- **Designation of persons as crew members** (GM1 BOP.BAS.040): Lately, GM has been introduced in the AMC/GM to Regulation (EU) No 965/2012 describing the designation of persons as crew members. EASA decided to add this GM also to the AMC/GM for air operations of balloons. The text provides guidance on what needs to be considered, when a person becomes a crew member (e.g. for ground handling).
- **Dangerous goods** (GM1 BOP.BAS.055 and GM2 BOP.BAS.055): Dangerous goods are not 'transported' with balloons. In addition, the expert group members made it clear that in general dangerous goods should not be 'carried' on board. The GM on dangerous goods has been adjusted and simplified accordingly. In addition, EASA has introduced new GM, which gives examples of dangerous goods.
- **Refuelling with persons on board** (GM1 BOP.BAS.170): As regards refuelling, the implementing rule prescribes that balloons shall not be refuelled when persons are on board. On request, EASA included GM to clarify that the replacement of fuel cylinders (which is not refuelling) may be conducted with persons on board.
- **Categorisation of balloon specialised operations** (GM2 BOP.BAS.190): Following the discussions within the expert group, whether or not an operation is a specialised operation, EASA decided to include GM for clarification: The pilot-in-command or the operator determines about the main purpose of an operation.
- **Operating limitations** (GM1 BOP.BAS.200): Following a request from the expert group members, EASA included GM on where to find the operating limitations (namely, in the AFM, and, in certain cases, in the operations manual).
- **Definition of 'permanently installed'** (GM1 BOP.BAS.300(a)(2)): On request of expert group members and for clarification, EASA included a definition of the term 'permanently installed' in the GM.
- **Minimum instruments and equipment for flight** (AMC1 BOP.BAS.305): EASA, in agreement with the expert group members, introduced AMC to further specifying the implementing rule on minimum instruments and equipment for flight.
- **Equipment requirements for restraint system** (GM1 BOP.BAS.320): As regards equipment requirements for restraint systems, EASA, for clarification, included GM containing a reference to the associated certification specifications.



- **Occurrence reporting** (AMC1 BOP.ADD.025(a)): To be more precise as regards the reporting of occurrences, EASA included AMC stating that in addition to reporting pursuant to Regulation (EU) No 376/2014¹², the operator should also report according to Regulation (EU) 2015/1018¹³.
- **Management system – audit and organisational review** (AMC1 BOP.ADD.030(a)(6)): The majority of the expert group members raised serious concerns as regards the rules related to the management system. This especially holds for one-person operators or operators with only few employees. Taking these concerns into consideration, aside of the implementing rules, the provisions of the AMC/GM related to the management system have been substantially simplified, adjusted and rephrased to better address the needs of balloon operators. In this context, two major items as regards the compliance monitoring should be highlighted:
 - The operator determines the frequency of the independent audits of its management system. It is no longer mandatory to have such an audit on a yearly basis.
 - An operator with five or less full-time equivalents (FTEs) may choose to replace the independent audit by an organisational review, which does not contain any provision as regards independence.
- **Personnel requirements:**
 - **Smallest operator** (GM1 BOP.ADD.040): On request of the expert group members, EASA introduced GM to describe that a one-person operator can exist.
 - **Competence of nominated persons** (GM1 BOP.ADD.040(c)): Following a request of the expert group members, EASA modified the GM and thereby adapted the personnel requirements to the specificities and complexity of balloon operations.
- **Lease-in** (GM1 BOP.ADD.115/GM1 BOP.ADD.115(a)): The majority of the expert group members pointed out that in specific cases balloons are leased-in from a third country. Therefore, aside of the implementing rules, EASA established appropriate AMC/GM, which has been kept simple and where it is clarified that the main responsibility rests with the operator.
- **Operations manual**
 - **General provisions and content** (AMC BOP.ADD.200/AMC2 BOP.ADD.200): In agreement with the expert group members, EASA substantially simplified and adjusted the AMC as regards the general provisions and the content.
 - **Reference to a document published by the UK CAA** (GM1 BOP.ADD.200): On request, EASA included information on CAP 611, published by the UK CAA.
- **Additional training for the pilot-in-command** (AMC1 BOP.ADD.310(a)): Following a request of the expert group members, EASA included AMC containing provisions on training in first-aid and in the use of fire extinguishers.

¹² Regulation (EU) No 376/2014 of the European Parliament and of the Council of 3 April 2014 on the reporting, analysis and follow-up of occurrences in civil aviation, amending Regulation (EU) No 996/2010 of the European Parliament and of the Council and repealing Directive 2003/42/EC of the European Parliament and of the Council and Commission Regulations (EC) No 1321/2007 and (EC) No 1330/2007 (OJ L 122, 24.4.2014, p. 18).

¹³ Commission Implementing Regulation (EU) 2015/1018 of 29 June 2015 laying down a list classifying occurrences in civil aviation to be mandatorily reported according to Regulation (EU) No 376/2014 of the European Parliament and of the Council (OJ L 163, 30.6.2015, p. 1).

- **Proficiency check** (AMC1 BOP.ADD.315(b);(c)): To provide clarification as regards the operator proficiency check, EASA added AMC clarifying how the proficiency check should be conducted.
- **Additional balloon crew member** (AMC1 BOP.ADD.410): According to the implementing rule an additional crew member is required when a balloon carries more than 19 passengers. The associated AMC has been expanded as regards his or her training and recency.



3. References

3.1. Related regulations

- Commission Regulation (EU) 2018/395 of 13 March 2018 laying down detailed rules for the operation of balloons pursuant to Regulation (EC) No 216/2008 of the European Parliament and of the Council (OJ L 71, 14.3.2018, p. 10)
- Commission Regulation (EU) No 965/2012 of 5 October 2012 laying down technical requirements and administrative procedures related to air operations pursuant to Regulation (EC) No 216/2008 of the European Parliament and of the Council (OJ L 296, 25.10.2012, p. 1))

3.2. Affected decisions

- Decision 2014/019/R of the Executive Director of the Agency of 24 April 2014 adopting Guidance Material to Regulation (EU) No 965/2012 – ‘GM to Regulation (EU) No 965/2012’
- Decision 2014/015/R of the Executive Director of the Agency of 24 April 2014 adopting Acceptable Means of Compliance and Guidance Material to Part-CAT of Commission Regulation (EU) No 965/2012 and repealing Decision 2012/018/R of the Executive Director of the Agency of 24 October 2012 — ‘AMC and GM to Part-CAT — Issue 2’
- Decision 2014/016/R of the Executive Director of the Agency of 24 April 2014 adopting Acceptable Means of Compliance and Guidance Material to Part-NCO of Commission Regulation (EU) No 965/2012 and repealing Decision 2013/022/R of the Executive Director of the Agency of 23 August 2013 — ‘AMC and GM to Part-NCO — Issue 2’
- Decisions 2014/018/R of the Executive Director of the Agency of 24 April 2014 adopting Acceptable Means of Compliance and Guidance Material to Part-SPO of Commission Regulation (EU) No 965/2012 — ‘AMC and GM to Part-SPO’
- Decision 2014/025/R of the Executive Director of the Agency of 28 July 2014 adopting Acceptable Means of Compliance and Guidance Material to Part-ARO of Commission Regulation (EU) No 965/2012 and repealing Decision 2014/014/R of the Executive Director of the Agency of 24 April 2014 — ‘AMC and GM to Part-ARO — Issue 3’

All Decisions are available at <http://easa.europa.eu/agency-measures/agency-decisions.php>.



4. Appendix

Table A1— Comparison between AMC/GM in the new Regulation (EU) 2018/395 and previous AMC/GM in Regulation (EU) No 965/2012

New AMC/GM	Previous AMC/GM	Comparison
COVER REGULATION		
GM1 Article 3(2)(a);(b) Air operations DIRECT COST	GM2 Article 6.4a(a);(b) Derogations	Text adapted to fit for balloons.
GM2 Article 3(2)(a);(b) Air operations ANNUAL COST	GM3 Article 6.4a(a);(b) Derogations	Text adapted to fit for balloons.
GM1 Article 3(2)(c) Air operations ORGANISATION CREATED FOR THE PURPOSES OF PROMOTING AERIAL SPORT OR LEISURE AVIATION	GM1 Article 6.4a(c) Derogations	Editorial changes.
GM2 Article 3(2)(c) Air operations MARGINAL ACTIVITY	GM2 Article 6.4a(c) Derogations	No change.
ANNEX II – (PART-BOP)		
Subpart BAS – Basic operational requirements		
Section 1 – General requirements		
AMC1 BOP.BAS.001 Scope AERIAL ADVERTISING FLIGHTS	Not applicable	New text.
GM1 BOP.BAS.001 Scope MIXED BALLOONS	NCO.GEN.102(d)	Text transferred from the implementing rules and adapted.
GM1 BOP.BAS.030 Responsibilities of the pilot-in-command GENERAL	GM1 NCO.GEN.105	Editorial changes to the GM related to balloons.
AMC1 BOP.BAS.030(a)(3) Responsibilities of the pilot-in-command CHECKLISTS	AMC1 NCO.GEN.105(c)	In (a) ‘operator’ has been added.
GM1 BOP.BAS.030(a)(7) Responsibilities of the pilot-in-command PROTECTIVE CLOTHING	GM1 NCO.GEN.106(b)	No changes.
GM1 BOP.BAS.030(a)(14) Responsibilities of the pilot-in-command RECORDING UTILISATION DATA	GM1 NCO.GEN.105(a)(8)	Text adapted to fit for balloons.
AMC1 BOP.BAS.030(a)(17) Responsibilities of the pilot-in-command REPORTING OF HAZARDOUS FLIGHT CONDITIONS	GM1 NCO.GEN.105(d)	Text adapted to fit for balloons.
AMC1 BOP.BAS.030(b)(1) & AMC1 BOP.BAS.040(b) Responsibilities of the pilot-in-command & responsibilities of crew members	AMC1 CAT.GEN.NMPA.100(b)(1)	Text adapted to fit for balloons.



New AMC/GM	Previous AMC/GM	Comparison
ALCOHOL CONSUMPTION		
GM1 BOP.BAS.030(b)(1);(2) & GM1 BOP.BAS.040(b) Responsibilities of the pilot-in-command & responsibilities of crew members PART-MED	GM1 CAT.GEN.NMPA.100(b)(2)	Editorial changes.
GM1 BOP.BAS.040 Responsibilities of crew members DESIGNATION OF PERSONS AS CREW MEMBERS	GM1.NCO.OP.180	Editorial changes.
GM1 BOP.BAS.050 Documents, manuals and information to be carried GENERAL	GM1 NCO.GEN.135	Text adapted to fit for balloons.
AMC1 BOP.BAS.050(a)(1) Documents, manuals and information to be carried OPERATING LIMITATIONS, NORMAL, ABNORMAL AND EMERGENCY PROCEDURES	GM1 CAT.GEN.NMPA.140(a)(1)	Text adapted to fit for balloons.
AMC1 BOP.BAS.050(a)(3) Documents, manuals and information to be carried CURRENT AND SUITABLE AERONAUTICAL CHARTS	AMC1 NCO.GEN.135(a)(10)	Text adapted to fit for balloons.
AMC1 BOP.BAS.050(b)(2) Documents, manuals and information to be carried CERTIFICATE OF AIRWORTHINESS	AMC1 NCO.GEN.135(a)(3)	No changes.
GM1 BOP.BAS.050(b)(3) Documents, manuals and information to be carried AFM OR EQUIVALENT DOCUMENT	GM1 NCO.GEN.135(a)(1)	Editorial changes.
GM1 BOP.BAS.050(b)(6) Documents, manuals and information to be carried BALLOON LOGBOOK OR EQUIVALENT DOCUMENT	GM1 NCO.GEN.135(a)(8)	Text adapted to fit for balloons.
GM1 BOP.BAS.050(b)(7) Documents, manuals and information to be carried DOCUMENTS THAT MAY BE PERTINENT TO THE FLIGHT AND STATES CONCERNED WITH THE FLIGHT	GM1 NCO.GEN.135(a)(13)	Editorial changes.
GM1 BOP.BAS.055 Dangerous goods GENERAL	GM1 NCO.GEN.140(a)/ GM1 CAT.GEN.NMPA.150(b)(c)	Text adapted and simplified, to fit for balloons.
GM2 BOP.BAS.055 Dangerous goods EXAMPLES	Not applicable.	New text.
AMC1 BOP.BAS.065 Balloon logbook GENERAL	AMC1 NCO.GEN.150	Text adapted to fit for balloons.
GM1 BOP.BAS.065 Balloon logbook	Not applicable.	New text.



New AMC/GM	Previous AMC/GM	Comparison
SERIES OF FLIGHTS		
Section 2 — Operating procedures		
AMC1 BOP.BAS.110 Fuel and ballast supply and planning GENERAL	NCO.OP.127	Text transferred from the implementing rules and adapted.
AMC1 BOP.BAS.115 Passenger briefing GENERAL	AMC1 NCO.OP.130	Text adapted to fit for balloons.
GM1 BOP.BAS.115 Passenger briefing GENERAL	Not applicable.	New text.
AMC1 BOP.BAS.120 Carriage of special categories of passengers CARRIAGE OF CHILDREN AND PERSONS WITH REDUCED MOBILITY	AMC1 CAT.OP.NMPA.115	Text adapted to fit for balloons.
AMC1 BOP.BAS.125 Submission of the air traffic service flight plan FLIGHTS WITHOUT ATS FLIGHT PLAN	AMC1 CAT.OP.NMPA.130	Editorial changes.
AMC1 BOP.BAS.150 Take-off conditions FACILITIES AT THE TAKE-OFF SITE	AMC1 NCO.OP.176	Editorial changes.
GM1 BOP.BAS.170 Refuelling with persons on board REPLACEMENT OF FUEL CYLINDERS	Not applicable.	New text.
AMC1 BOP.BAS.180 Use of supplemental oxygen GENERAL	NCO.OP.190	Text transferred from the implementing rules and adapted.
GM1 BOP.BAS.185(a);(b) Operational limitations at night AVOIDANCE OF NIGHT LANDING	GM1 NCO.OP.215	Editorial changes.
AMC1 BOP.BAS.190 Balloon specialised operations — Risk assessment and checklist CRITERIA FOR BALLOON SPECIALISED OPERATIONS	AMC1 NCO.SPEC.100	Text adapted to fit for balloons.
AMC2 BOP.BAS.190 Balloon specialised operations — Risk assessment and checklist DEVELOPMENT OF CHECKLIST	GM1 NCO.SPEC.105	Text transferred from GM to AMC and adapted to fit for balloons.
AMC3 BOP.BAS.190 Balloon specialised operations — Risk assessment and checklist CHECKLIST FOR PARACHUTE OPERATIONS	NCO.SPEC.PAR.100	Text transferred from the implementing rules and adapted.
GM1 BOP.BAS.190 Balloon specialised operations — Risk assessment and checklist	GM1 NCO.SPEC.100	Text adapted to fit for balloons.



New AMC/GM	Previous AMC/GM	Comparison
LIST OF OPERATIONS		
GM2 BOP.BAS.190 Balloon specialised operations — Risk assessment and checklist CATEGORISATION OF OPERATIONS	Not applicable.	New text.
Section 3 — Performance and operating limitations		
GM1 BOP.BAS.200 Operating limitations GENERAL	Not applicable.	New text.
GM1 BOP.BAS.205 Weighing GENERAL	GM1 NCO.POL.105	Text adapted to fit for balloons.
Section 4 — Instruments, data and equipment		
GM1 BOP.BAS.300(a) Instruments and equipment — General APPLICABLE AIRWORTHINESS REQUIREMENTS	GM1 NCO.IDE.B.100(a)	More specific reference included and editorial changes.
GM1 BOP.BAS.300(a)(2) Instruments and equipment - General PERMANENTLY INSTALLED	Not applicable.	New text.
GM1 BOP.BAS.300(b) Instruments and equipment — General REQUIRED INSTRUMENTS AND EQUIPMENT THAT DO NOT NEED TO BE APPROVED	GM1 NCO.IDE.B.100(b)	Text adapted to fit for balloons.
GM1 BOP.BAS.300(c) Instruments and equipment — General NOT REQUIRED INSTRUMENTS AND EQUIPMENT THAT DO NOT NEED TO BE APPROVED	GM1 NCO.IDE.B.100(c)	Text adapted to fit for balloons.
AMC1 BOP.BAS.305 Minimum instruments and equipment for flight GENERAL	Not applicable.	New text.
AMC1 BOP.BAS.310 Operating lights ANTI-COLLISION LIGHTS AND ILLUMINATION FOR INSTRUMENTS AND EQUIPMENT	AMC1 NCO.IDE.B.110	Editorial changes.
AMC1 BOP.BAS.315(a) Flight and navigational instruments and associated equipment MEANS OF DISPLAYING DRIFT DIRECTION	AMC1 NCO.IDE.B.115(a)	No change.
AMC1 BOP.BAS.315(b)(1) Flight and navigational instruments and associated equipment MEANS OF MEASURING AND	AMC1 NCO.IDE.B.115(b)(1)	No change.



New AMC/GM	Previous AMC/GM	Comparison
DISPLAYING THE TIME		
GM1 BOP.BAS.315(b)(3) Flight and navigational instruments and associated equipment MEANS OF MEASURING AND DISPLAYING PRESSURE ALTITUDE	GM1 NCO.IDE.B.115(b)(3)	Text adapted to fit for balloons.
GM1 BOP.BAS.320 Restraint system EQUIPMENT REQUIREMENTS	Not applicable.	New text.
AMC1 BOP.BAS.330 First-aid kit CONTENT OF THE FIRST-AID KIT	AMC1 NCO.IDE.B.120	Editorial changes.
AMC2 BOP.BAS.330 First-aid kit MAINTENANCE OF FIRST-AID KIT	AMC2 NCO.IDE.B.120	No change.
GM1 BOP.BAS.330(a) First-aid kit ADDITIONAL FIRST-AID KIT	Not applicable.	New text.
AMC1 BOP.BAS.335 Hand fire extinguishers CERTIFICATION SPECIFICATIONS	AMC1 NCO.IDE.B.125	No change.
GM1 BOP.BAS.335 Hand fire extinguishers ADDITIONAL HAND FIRE EXTINGUISHER	Not applicable.	New text.
AMC1 BOP.BAS.340 Life-saving and signalling equipment – Flights over water RISK ASSESSMENT	AMC1 NCO.IDE.B.130	Editorial changes.
AMC2 BOP.BAS.340 Life-saving and signalling equipment – Flights over water EQUIPMENT	NCO.IDE.B.130	Text transferred from the implementing rules and adapted.
AMC3 BOP.BAS.340 Life-saving and signalling equipment – Flights over water BRIEFING ON PLB USE	AMC4 NCO.IDE.B.130(b)	Editorial changes.
AMC4 BOP.BAS.340 Life-saving and signalling equipment – Flights over water ELT AND PLB REGISTRATION AND OPERATION PROVISION	AMC2 NCO.IDE.B.130(b)/ AMC3 NCO.IDE.B.130(b)	Text simplified.
GM1 BOP.BAS.340 Life-saving and signalling equipment – Flights over water TERMINOLOGY	GM1 NCO.IDE.B.130(b)	Editorial changes.
AMC1 BOP.BAS.345 Life-saving and signalling equipment – Search and rescue difficulties	AMC1 NCO.IDE.B.135	Editorial changes.



New AMC/GM	Previous AMC/GM	Comparison
GENERAL		
AMC2 BOP.BAS.345 Life-saving and signalling equipment – Search and rescue difficulties ADDITIONAL SURVIVAL EQUIPMENT	AMC2 NCO.IDE.B.135	Editorial changes.
GM1 BOP.BAS.345 Life-saving and signalling equipment – Search and rescue difficulties SIGNALS	GM1 NCO.IDE.B.130(d)	Text has been updated to provide reference to Regulation (EU) No 923/2012.
GM2 BOP.BAS.345 Life-saving and signalling equipment – Search and rescue difficulties AREAS IN WHICH SEARCH AND RESCUE WOULD BE ESPECIALLY DIFFICULT	GM1 NCO.IDE.B.135	Editorial changes.
AMC1 BOP.BAS.350(b)(3) Miscellaneous equipment FIRE BLANKET	AMC1 NCO.IDE.B.140(b)(3)	Size has been reduced from 1.5m x 2.0m to 1.5m x 1.8m, since in EN 1869 the maximum dimension is 1.8m; editorial changes.
AMC1 BOP.BAS.350(c)(1) Miscellaneous equipment KNIFE	AMC1 NCO.IDE.B.140(c)(1)	No change.
GM1 BOP.BAS.355 Radio communication equipment APPLICABLE AIRSPACE REQUIREMENTS	GM1 NCO.IDE.B.145	No change.
AMC1 BOP.BAS.360 Transponder GENERAL	AMC1 NCO.IDE.B.150	Editorial changes.
Subpart ADD – Additional requirements for commercial operations		
Section 1 – General organisation requirements		
AMC1 BOP.ADD.010 Notification of alternative means of compliance DEMONSTRATION OF COMPLIANCE	AMC1 ORO.GEN.120(a)	Editorial changes.
AMC1 BOP.ADD.020(b) Findings CORRECTIVE ACTION PLAN	AMC1 ORO.GEN.150(b)	No change.
GM1 BOP.ADD.020(b);(c) Findings CORRECTIVE ACTION	GM1 ORO.GEN.150	Editorial changes.
AMC1 BOP.ADD.025(a) Occurrence reporting GENERAL	Not applicable.	New text.
AMC1 BOP.ADD.030(a)(2) Management system SAFETY POLICY	AMC1 ORO.GEN.200(a)(1);(2);(3);(5)	No change.
AMC1 BOP.ADD.030(a)(3) Management system	AMC1 ORO.GEN.200(a)(1);(2);(3);	Text adapted to fit for balloons.



New AMC/GM	Previous AMC/GM	Comparison
SAFETY RISK MANAGEMENT	(5)	
GM1 BOP.ADD.030(a)(4) Management system TRAINING ON SAFETY	GM1 ORO.GEN.200(a)(4)	No change.
AMC1 BOP.ADD.030(a)(5) Management system MANAGEMENT SYSTEM DOCUMENTATION	AMC1 ORO.GEN.200(a)(5)	Editorial changes and changed references.
AMC1 BOP.ADD.030(a)(6) Management system COMPLIANCE MONITORING — AUDIT AND ORGANISATIONAL REVIEW	Not applicable.	New text.
GM1 BOP.ADD.030(a)(6) Management system COMPLIANCE MONITORING — AUDIT AND ORGANISATIONAL REVIEW	GM4 ORO.GEN.200(a)(6)	Text adapted to fit for balloons.
GM2 BOP.ADD.030(a)(6) Management system COMPLIANCE MONITORING CHECKLIST	GM3 ORO.GEN.200(a)(6)	Text adapted to fit for balloons.
AMC1 BOP.ADD.035 Contracted activities RESPONSIBILITY WHEN CONTRACTING ACTIVITIES	AMC1 ORO.GEN.205	Text adapted to fit for balloons.
GM1 BOP.ADD.035 Contracted activities CONTRACTING – GENERAL	GM1 ORO.GEN.205	Text adapted to fit for balloons.
GM2 BOP.ADD.035 Contracted activities RESPONSIBILITY WHEN CONTRACTING ACTIVITIES	GM2 ORO.GEN.205	Editorial changes and changed references.
GM1 BOP.ADD.040 Personnel requirements SMALLEST OPERATOR	Not applicable.	New text.
AMC1 BOP.ADD.040(c) Personnel requirements NOMINATED PERSONS	AMC1 ORO.AOC.135(a)/ AMC2 ORO.AOC.135(a)	Text adapted to fit for balloons.
GM1 BOP.ADD.040(c) Personnel requirements COMPETENCE OF NOMINATED PERSONS	GM2 ORO.AOC.135(a)	Text adapted to fit for balloons.
Section 2 — Declaration, airworthiness and wet and dry lease		
GM1 BOP.ADD.100 Declaration GENERAL	GM1 ORO.DEC.100	No changes, except for deleting the references.
AMC1 BOP.ADD.105(a) Changes to the declaration and cessation of commercial	AMC1 ORO.DEC.100(d)	No change.



New AMC/GM	Previous AMC/GM	Comparison
operations NOTIFICATION OF CHANGES		
AMC1 BOP.ADD.115 Wet lease and dry lease of a balloon registered in a third country GENERAL	AMC1 ORO.AOC.110	Text adapted to fit for balloons.
GM1 BOP.ADD.115(a) Wet lease and dry lease of a balloon registered in a third country LEASE-IN AGREEMENT BETWEEN OPERATORS REGISTERED IN AN EU MEMBER STATE	GM1 ORO.SPO.100(c)	Text adapted to fit for balloons.
Section 3 – Manuals and records		
AMC1 BOP.ADD.200 Operations manual GENERAL	AMC1 ORO.MLR.100	Text adapted to fit for balloons.
AMC2 BOP.ADD.200 Operations manual CONTENT	AMC2 ORO.MLR.100	Text adapted to fit for balloons.
GM1 BOP.ADD.200 Operations manual MORE CONSERVATIVE DATA AND PROCEDURES	ORO.MLR.100	Text transferred from the implementing rule and adapted.
AMC1 BOP.ADD.205 Record-keeping GENERAL	AMC1 ORO.GEN.220(b)	No changes except for (d), where the text has been simplified.
AMC2 BOP.ADD.205 Record-keeping STORAGE PERIODS AND AVAILABILITY	ORO.MLR.115	Text transferred from the implementing rule and adapted.
Section 4 – Flight crew		
AMC1 BOP.ADD.310(a) Provision of training and checking ADDITIONAL TRAINING FOR THE PILOT-IN-COMMAND	Not applicable.	New text.
AMC1 BOP.ADD.315(b);(c) Recurrent training and checking PROFICIENCY CHECK	Not applicable.	New text.
Section 5 – General operating requirements		
AMC1 BOP.ADD.410 Additional balloon crew member TRAINING AND REGENCY	AMC1 CAT.GEN.NMPA.105(a)	Text adapted to better serve the purpose.
GM1 BOP.ADD.415 Fitness relating to deep water diving and blood donation ELAPSED TIME BEFORE RETURNING TO FLYING DUTY	GM1 CAT.GEN.NMPA.105(b)(2)	Text adapted.
GM1 BOP.ADD.435(a)(2) Documents, manuals and information to be carried	GM1 CAT.GEN.NMPA.140(a)(15)	Editorial changes.



New AMC/GM	Previous AMC/GM	Comparison
SEARCH AND RESCUE INFORMATION		
GM1 BOP.ADD.435(a)(3) Documents, manuals and information to be carried OPERATIONAL FLIGHT PLAN	AMC1 CAT.OP.MPA.175(a)	Text adapted to fit for balloons.
GM1 BOP.ADD.440 Dangerous goods PROCEDURES AND INFORMATION TO CREW MEMBERS AND PASSENGERS	GM1 CAT.GEN.NMPA.150(b)(c)	Text adapted to fit for balloons.
Section 6 – Operating procedures		
AMC1 BOP.ADD.510 Commercial balloon specialised operations – Standard operating procedures DEVELOPMENT OF STANDARD OPERATING PROCEDURES	AMC1 SPO.OP.230	Editorial changes.
AMC2 BOP.ADD.510 Commercial balloon specialised operations – Standard operating procedures TEMPLATE	AMC2 SPO.OP.230	Text adapted to fit for balloons.
Section 7 – Performance and operating limitations		
AMC1 BOP.ADD.600(a)(2) System for determining the mass TRAFFIC LOAD, AND MASS VALUES FOR PASSENGERS AND BAGGAGE	AMC1 CAT.POL.B.110(a)(2)/ AMC2 CAT.POL.B.110(a)(2)	Editorial changes.
AMC1 BOP.ADD.600(a)(6) System for determining the mass DOCUMENTATION	AMC1 CAT.POL.B.110(a)(6)	Editorial changes.
GM1 BOP.ADD.600(a)(6) System for determining the mass LIMITING MASS VALUES	GM1 CAT.POL.B.110(a)(6)	No change.

