

### **GUIDANCE**

# Mapping of Civil Aviation Orders to CASR Parts 91 & 131

Flight Operations Regulations commenced on 2 December 2021

Part 131 MOS commencing on 12 November 2024



### **Acknowledgement of Country**

The Civil Aviation Safety Authority (CASA) respectfully acknowledges the Traditional Custodians of the lands on which our offices are located and their continuing connection to land, water and community, and pays respect to Elders past, present and emerging.

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This document contains guidance material intended to assist CASA officers, delegates and the aviation industry in understanding the operation of the aviation legislation. However, you should not rely on this document as a legal reference. Refer to the civil aviation legislation including the *Civil Aviation Act 1988* (Cth), its related regulations and any other legislative instruments—to ascertain the requirements of, and the obligations imposed by or under, the law.

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# References

# **Acronyms**

The acronyms and abbreviations used in this document are listed in the table below.

Table 1. **Acronyms** 

| Acronym and abbreviation | Description  |
|--------------------------|--|
| AIP                      | Aeronautical Information Publication                 |
| AMC/GM                   | Acceptable Means of Compliance and Guidance Material |
| AOC                      | Air Operator's Certificate                           |
| CAO                      | Civil Aviation Order                                 |
| CAR                      | Civil Aviation Regulations 1988                      |
| CASA                     | Civil Aviation Safety Authority                      |
| CASR                     | Civil Aviation Safety Regulations 1998               |
| FOR                      | flight operations regulations                        |
| GNSS                     | Global Navigation Satellite System                   |
| HF                       | Human factors  |
| ICAO                     | International Civil Aviation Organisation            |
| MOS                      | Manual of Standards                                  |
| MTOW                     | maximum take-off weight                              |
| NTS                      | non-technical skills                                 |
| SMS                      | safety management system                             |

## Reference material

The reference material used in this document are listed in the table below.

Table 2. Reference material

| Document type            | Title  |
|--------------------------|--|
| AC 131-01                | Manned free balloons - Airworthiness                                 |
| AC 131-02                | Manned free balloons - Operations                                    |
| AC 131-03                | Transitioning to Part 131 – A guide for commercial balloon operators |
| AC 131-04                | Management of change for balloon transport AOC holders               |
| Part 91 AMC/GM document  | Part 91—General operating and flight rules                           |
| Part 131 AMC/GM document | Part 131—Balloons and hot air airships                               |

| Document type                        | Title                                  |
|--------------------------------------|--|
| Civil Aviation<br>Regulations        | Civil Aviation Regulations 1988        |
| Civil Aviation Safety<br>Regulations | Civil Aviation Safety Regulations 1998 |
| Part 91 of CASR                      | General operating and flight rules     |
| Part 131 of CASR                     | Balloons and hot air airships          |
| Part 91 MOS                          | Part 91 Manual of Standards            |
| Part 131 MOS                         | Part 131 Manual of Standards           |

# **Revision history**

Revisions to this document are recorded below in order of most recent first.

Table 3. Revision history

| Version<br>number | Date          | Parts and sections | Details                                 |
|-------------------|---------------|--------------------|---|
| 2.0               | August 2024   | All                | Amended to incorporate the Part 131 MOS |
| 1.1               | November 2021 | All                | Amended to insert application section   |
| 1.0               | August 2021   | All                | First issue                             |

# **Application**

This document has been developed to support balloon and hot-air airship operations in accordance with Part 131 of CASR and the Part 131 MOS.

The Part 131 MOS was made on 8 January 2024 and will commence on 12 November 2024. This document is intended to support Part 131 aircraft operations.

# Introduction

This document has been developed to assist pilots and operators transition to the new Flight Operations Regulations (FOR) that commenced on 2 December 2021 and the Part 131 MOS that commences on 12 November 2024.

It provides a guide to where provisions of the Civil Aviation Orders, as they would relate to Part 131 aircraft operations have been incorporated into Parts 91 and 131 of the Civil Aviation Safety Regulations 1998 (CASR).

Part 131 of CASR prescribes the rules for the certification and management of balloon transport operators. Together with Part 91, Part 131 also prescribes general operational rules for all balloon and hot air airship flight activities.

This document lists regulations from Parts 91 and 131 of CASR against CAO subsections, together with the location of requirements (if any) in the Manuals of Standards (MOS) for Parts 91 and 131. If a similar provision is not contained in the CASR Parts, this is indicated by a '—'.

The comments provide a brief outline of some key differences between the existing and the new rules, as well as other explanatory material and related provisions. Refer to the orders and associated MOS sections for full requirements.

Several of the new regulations do not include the prescriptive requirements of the CAOs and are outcomebased allowing the operator to develop their own procedures for compliance which must be included in their exposition.

This document does not contain every regulation that applies to a balloon or hot air airship operation, and it should be read in conjunction with the relevant CASR Parts. Guidance material is provided in the Guide for Balloons and Hot Air Airships, AMC/GM documents and advisory circulars, available on the CASA website.

The CAOs, the CASR Parts and MOS are available via the CASA website and on the Federal Register of Legislation website as follows:

- Civil Aviation Orders
- Part 91 of CASR and the Part 91 Manual of Standards
- Part 131 of CASR and the Part 131 Manual of Standards.

The AMC/GM documents for Parts 91 and 131 are available on the CASA website.

Definitions are provided in the CASR Dictionary, the applicable CASR Part or it's MOS.

**Note:** Some CAOs are not relevant to Part 131 operations and the fields are left blank in the table.

## Subpart 131.Z of CASR – tethered gas balloons

Subpart 131.Z of CASR contains regulations which apply to the operation of a tethered gas balloon. These aircraft are permanently fixed in position, are not equipped for free flight, and ascend on restraining cables.

They are operated by a trained operator who does not need to hold a Part 131 pilot authorisation.

# Mapping of Civil Aviation Orders to CASR Parts 91 & 131

| CAOs          |  | Part 131 of      | CASR                          | Part 131 MOS Part 91 of CASR |        | Part 91 MOS                                   | Comments |  |
|---------------|--|------------------|-------------------------------|------------------------------|--------|---|----------|--|
| 20.2 Air serv | ice operations — safety p  | recautions b     | efore flight                  | •                            |        |   | •        |  |
| 20.2.2        | Removal of locking and safety devices  | _                |                               |                              | _      |   |          | Other provisions 91.095 Compliance with flight manual etc. 91.215 Authority and responsibilities of the pilot in command   |
| 20.2.3        | Security of doors and hatches  | _                |                               |                              | _      |   |          | 131.255 Compliance with flight manual 131.350 Matters to be checked before take-off Part 131 MOS Chapter 14 Matters to be checked before take-off Note: Some balloon baskets have locking doors. |
| 20.2.4        | Precautions before solo flight in aircraft fitted with dual controls               | _                |                               |                              | _      |   |          | - Note. Some balloon baskets have locking doors.   |
| 20.2.5        | Fuel system inspection   | _                |                               |                              | 91.465 | Contaminated, degraded or inappropriate fuels |          |  |
| 20.2.6        | Fuel quantity measurement  | 131.385          | Fuel and ballast requirements | Chapter 21                   | _      |   |          |  |
|               |  | 131.380          | Fuel and ballast procedures   | Chapter 21                   | _      |   |          |  |
| 20.3 Air serv | ice operations — Marshal   | ling and park    | king of aircraft              |                              |        |   |          |  |
| 20.3.1        | Application  | _                |                               |                              | _      |   |          |  |
| 20.3.2        | Responsibility for marshalling and parking aircraft                                | _                |                               |                              |        |   |          |  |
| 20.3.3        | Parking areas  | _                |                               |                              | _      |   |          |  |
| 20.3.4        | Standard hand signals  | _                |                               |                              | 91.670 | Standard visual signals                       |          | Standard visual signal is defined in the CASR Dictionary. Details of signals are shown in Division 2.3 of the Part 91 MOS.   |
| Appendix 1    | Standard hand signals to<br>be used by ground<br>personnel marshalling<br>aircraft | _                |                               |                              | _      |   |          |  |
| 20.4 Provisio | on and use of oxygen and   | protective b     | reathing equipment            | •                            | -      |   |          |  |
| 20.4.1        | Application  |                  |                               |                              | _      |   |          |  |
| 20.4.2        | Interpretation   | _                |                               |                              | _      |   |          |  |
| 20.4.3        | Equipment standards  | Subpart<br>131.K | Equipment                     | Chapter 26                   | _      |   |          | Refer to CAO 108.26 for equipment standards.   |

| CAOs          |  | Part 131 of      | CASR   | Part 131 MOS                              | Part 91 of CAS | SR | Part 91 MOS | Comments   |
|---------------|--|------------------|--|---|----------------|----|-------------|--|
| 20.4.4        | Duties of crew members in relation to oxygen and protective breathing equipment              | 131.410          | Passengers - Safety briefings and instructions | Chapter 23                                | -              |    |             |  |
|               |  | 131.350          | Matters to be checked before take-off          | Chapter 14                                |                |    |             |  |
| 20.4.5        | Information to be included in operations manual and flight manual                            | 131.195          | Content of exposition                          |   | _              |    |             | Paragraph 131.195 (1) (h) of CASR requires that an exposition include details about how the operator safely conducts and manages their operations in compliance with the civil aviation legislation. |
| 20.4.6        | Supplemental oxygen requirements for unpressurised aircraft                                  | Subpart<br>131.K | Equipment                                      | Chapter 10<br>Chapter 26<br>Division 26.6 | _              |    |             | Chapter 10 of the Part 131 MOS prescribes the use of supplemental oxygen above 10 000 ft. Chapter 26 of the Part 131 MOS prescribes the supplemental oxygen equipment supply requirements.           |
| 20.4.7        | Supplemental oxygen requirements for pressurised aircraft engaged in flights not above FL250 | _                |  |   |                |    |             |  |
| 20.4.8        | Supplemental oxygen requirements for pressurised aircraft engaged in flights above FL250     | _                |  |   | _              |    |             |  |
| 20.4.9        | First aid oxygen   | _                |  |   | _              |    |             |  |
| 20.4.10       | Protective breathing equipment   | _                |  |   | _              |    |             |  |
| 20.7.0 Aerop  | lane weight limitations - g  | eneral           | ,  |   |                |    |             |  |
| 20.7.0.2      | Application  | <u> </u>         |  |   | _              |    |             | Declared density altitude charts have not been included in the CASR.   |
| 20.7.0.3      | Definitions  | _                |  |   | _              |    |             | I  |
| 20.7.0.4      | Declared density altitude charts (and Appendices 1-3)  | _                |  |   | _              |    |             |  |
| 20.9 Air serv | rice operations - precautio  | ns in refuell    | ing, engine and ground ra                      | dar operations                            |                |    |             |  |
| 20.9.2        | Application  | -                |  |   | -              |    |             |  |

| CAOs         |   | Part 131 of CASR  |                         | Part 131 MOS | Part 91 of 0     | CASR  | Part 91 MOS | Comments  |
|--------------|---|-------------------|-------------------------|--------------|------------------|---|-------------|---|
| 20.9.3       | Fuel and oils   | _                 |                         |              | 91.465           | Contaminated, degraded or inappropriate fuels           |             | The responsibility for ensuring an aircraft is not fuelled with contaminated, degraded or inappropriate fuel does not extend to the fuel supplier of a Part 131 aircraft.  Other provisions 91.095 Compliance with flight manual etc. 131.255 Compliance with flight manual |
| 20.9.4       | Fuelling of aircraft  | _                 |                         |              | 91.470<br>91.480 | Fire hazards  Fuelling aircraft— electrical bonding     |             |   |
|              |   |                   |                         |              | 91.485           | Equipment or electronic devices operating near aircraft |             |   |
|              |   |                   |                         |              | 91.475           | Fuelling aircraft—fire fighting equipment               |             |   |
| 20.9.5       | Starting and ground operations of engines   | _                 |                         |              | _                |   |             | These provisions have not been included in Part 91 or 131 of CASR.  |
| 20.9.6       | Ground operation of aircraft radar equipment  | _                 |                         |              |                  |   |             | Refer to the following regulations for requirements relating to fire hazards and the operation of equipment during fuelling: 91.470 Fire hazards 91.485 Equipment or electronic devices operating near aircraft.  |
| Appendix 1   | Fire safety requirements<br>to be met by mechanical<br>and electrical equipment<br>within 15 metres etc | _                 |                         |              | _                |   |             | Other provisions 91.055 Aircraft not to be operated in a manner that creates a hazard   |
| 20.11 Emerge | l<br>ency and life saving equip   | I<br>oment and pa | ssenger control in emer | gencies      |                  | I   |             |   |
|              |   |                   |                         |              |                  |   |             | The Part 131 MOS prescribes the carriage of the following portable emergency equipment: first-aid kits (7.01 and 26.17) hand-held fire extinguishers (26.16). equipment for flights over water (Division 26.9) remote area survival equipment (26.12).                      |
| 20.11.1      | Application   | _                 |                         |              | _                |   |             |   |
| 20.11.2      | Definitions   | _                 |                         |              | _                |   |             |   |

| CAOs     | CAOs   |                  | Part 131 of CASR  |                         | Part 91 of C | ASR | Part 91 MOS | Comments  |
|----------|--|------------------|---|-------------------------|--------------|-----|-------------|---|
| 20.11.3  | Maintenance of emergency and lifesaving equipment                | -                |   |                         | -            |     |             | Other provisions 131.350 Matters to be checked before take-off Part 131 MOS Chapter 14 Matters to be checked before take-off  |
| 20.11.5  | Flotation equipment for overwater flights                        | Subpart<br>131.K | Equipment   | Chapter 26 Div.<br>26.9 | _            |     |             |   |
| 20.11.6  | Emergency signalling equipment                                   | Subpart<br>131.K | Equipment   | Chapter 26 Div.<br>26.7 | _            |     |             |   |
| 20.11.6A | Portable megaphones  | _                |   |                         | _            |     |             |   |
| 20.11.7  | Survival equipment   | Subpart<br>131.K | Equipment   | Chapter 26              | _            |     |             | Other provisions 131.290 Information about search and rescue services 131.295 Information about emergency and survival equipment  |
| 20.11.8  | Accessories for water operations                                 | _                |   |                         | _            |     |             |   |
| 20.11.9  | Illumination of emergency exits                                  | _                |   |                         | _            |     |             |   |
| 20.11.10 | Emergency procedures   | 131.195          | Content of exposition                                   |                         | _            |     |             | Paragraph 131.195 (1) (h) of CASR requires that an exposition include details of each plan, process, procedure, program and system implemented by the operator to safely conduct and manage their balloon transport operations. |
| 20.11.11 | Assignment of emergency duties                                   | _                |   |                         | _            |     |             | Other provisions 131.300 Competence of ground support personnel 131.565 Qualification and training for pilots 131.570 Qualification and training for ground support personnel 131.195 Content of exposition                     |
| 20.11.12 | Crew member proficiency in the execution of emergency procedures | 131.565          | Qualifications and training for pilots                  | Chapter 27              | _            |     |             | Other provisions 131.215 Personnel training and checking records—making records 131.220 Personnel training and checking records availability of records 131.230 Retention periods for personnel records                         |
|          |  | 131.570          | Qualification and training for ground support personnel | Chapter 28              |              |     |             | 131.300 Competence of ground support personnel  |
| 20.11.13 | Cabin attendants   | _                |   |                         | _            |     |             |   |
| 20.11.14 | Briefing of passengers   | 131.405          | Carriage of persons requiring assistance                | Chapter 22              |              |     |             | Other provisions 131.420 Passengers—compliance with safety directions   |
|          |  | 131.410          | Passengers safety briefings and instructions            | Chapter 23              |              |     |             | Part 131 MOS Chapter 25 Carriage of passengers  |

| CAOs           |   | Part 131 of ( | CASR   | Part 131 MOS             | Part 91 of C | ASR | Part 91 MOS | Comments   |
|----------------|---|---------------|--|--------------------------|--------------|-----|-------------|--|
|                | l   | 131.415       | Safety briefing in the event of an emergency |                          |              |     |             |  |
| 20.11.15       | Demonstration of emergency evacuation procedures        | _             |  |                          | _            |     |             |  |
| Appendix II    | Criteria for ditching demonstration                     | _             |  |                          | _            |     |             |  |
| Appendix III   | Designated remote areas                                 | _             |  |                          | _            |     |             | Remote area has the meaning given in Division 26.15 of the Part 91 MOS.                                |
| Appendix IV    | Crew member<br>emergency procedures<br>proficiency test | _             |  | Chapter 27<br>Chapter 28 | _            |     |             | Part 131 MOS Chapter 27 Flight crew – Qualifications and training. Chapter 28 Ground support personnel |
| 20.13 Air serv | vice operations - cockpit                               | check systen  | ns   |                          |              |     |             |  |
|                |   | _             |  |                          | _            |     |             | CASA approval of cockpit check systems is not required under the CASR.                                 |
| 20.16.1 Air se | ervice operations - loading                             | g - general   |  |                          |              |     |             |  |
| 20.16.1.1      | Application   | _             |  |                          | _            |     |             |  |
| 20.16.1.2      | Definitions   | _             |  |                          | _            |     |             |  |
| 20.16.1.3      | Loading system  | 131.455       | Loading weights                              | Chapter 24               | _            |     |             | Chapter 24 Loading weights. Refer to Multi-Part AC 121-05 for operator derived passenger weights.      |
|                |   | 131.450       | Loading procedures                           |                          |              |     |             |  |
|                |   |               |  |                          |              |     |             | Other provisions 91.095 Compliance with flight manual etc. 131.255 Compliance with flight manual       |
| 20.16.1.5      | Load sheets   | _             |  |                          | _            |     |             | Other provisions Part 131 MOS Chapter 6 Reporting and recording information.                           |

| CAOs           |                                      | Part 131 of   | CASR  | Part 131 MOS                 | Part 91 of C     | ASR                                  | Part 91 MOS | Comments  |
|----------------|--------------------------------------|---------------|---|------------------------------|------------------|--------------------------------------|-------------|---|
| 20.16.1.7      | Passenger lists                      | 131.285       | Reporting and recording information                         | Chapter 6 s6.02              | _                |                                      |             | Other provisions 131.275 Carriage of documents  |
|                |                                      |               | Keeping documents with a person on the ground during flight | Chapter 5 s5.04              |                  |                                      |             |   |
| 20.16.2 Air se | ervice operations - loading          | g - general   |   |                              |                  |                                      |             |   |
| 20.16.2.1      | Application                          | _             |   |                              | _                |                                      |             |   |
| 20.16.2.2      | Definitions                          | _             |   |                              | _                |                                      |             |   |
| 20.16.2.3      | Restraint                            | 131.425       | Restraint of cargo  |                              |                  |                                      |             |   |
| 20.16.2.4      | Stowage                              | _             |   |                              | 91.600           | Carriage of cargo—<br>general        |             |   |
| 20.16.5        | Cargo on a passenger seat            | _             |   |                              | 91.610           | Carriage of cargo – unoccupied seats |             |   |
| 20.16.2.6      | Cargo in a pilot compartment         | _             |   |                              | 91.600           | Carriage of cargo—<br>general        |             |   |
| 20.16.2.7      | Placarding                           | _             |   |                              | _                |                                      |             | Other provisions 91.060 Unauthorised travel or placing of cargo on aircraft.                        |
| 20.16.3 Air se | rvice operations—carriaç             | ge of persons | 3   |                              |                  |                                      |             |   |
| 20.16.3.1      | Application                          | _             |   |                              | _                |                                      |             |   |
| 20.16.3.2      | Definitions                          | _             |   |                              | _                |                                      |             |   |
| 20.16.3.3      | Seats                                | _             |   |                              | 91.550<br>91.555 |                                      |             |   |
| 20.16.3.4      | Seat belts and safety harnesses      | 131.455       | Carriage of passengers                                      | Chapter 25 s25.07            |                  |                                      |             |   |
| 20.16.3.5      | Adjustment of seats                  | _             |   |                              |                  |                                      |             |   |
| 20.16.3.6      | Cabin attendants                     | _             |   |                              | _                |                                      |             |   |
| 20.16.3.6A     | Manned balloons and hot air airships | 131.455       | Carriage of passengers                                      | Chapter 25 and<br>Chapter 28 | _                |                                      |             | S28.07 prescribes the number of ground support personnel required for a balloon transport operation |

| CAOs       | CAOs   |         | CASR  | Part 131 MOS | Part 91 of CASR |   | Part 91 MOS | Comments   |
|------------|--|---------|---|--------------|-----------------|---|-------------|--|
|            |  | 131.400 | Carriage of infants   |              |                 |   |             |  |
| 20.16.3.7  | Aisles   | _       |   |              | _               |   |             |  |
| 20.16.3.8  | Smoking  |         | Smoking not permitted<br>during flight or within 15<br>metres of Part 131<br>aircraft |              |                 |   |             | Smoking is now taken to include electronic cigarettes.  Other provisions 131.410 Passengers - safety briefings and instructions  |
|            |  |         | Certain Part 131 aircraft<br>to have signage about<br>smoking                         |              |                 |   |             |  |
| 20.16.3.9  | Stowage of loose articles                              | _       |   |              | 91.590          | Restraint and stowage of carry-on baggage |             | Other provisions 91.170 Operation of portable electronic devices (prescribes that the pilot in command may permit the use of portable electronic devices during flight (rather than requiring them to be stowed at prescribed times) if the use will not affect the safety of the aircraft). |
|            |  |         |   |              | 91.600          | Carriage of cargo—<br>general             |             | Cargo is defined as things other than persons carried, or to be carried, on an aircraft.   |
| 20.16.3.12 | Passenger capacity                                     |         |   |              | _               |   |             | The provisions in CAO 20.16.3 subsection 12 for the carriage of excess passengers have not been included in CASR.  Other provisions 91.095 Compliance with flight manual etc. 131.255 Compliance with flight manual 131.455 Loading weights Part 131 MOS Chapter 25 Carriage of passengers   |
| 20.16.3.13 | Carriage of infants and children                       | 131.400 | Carriage of infants   |              | _               |   |             | Other provisions 131.410 Passengers - safety briefings and instructions  |
|            |  | 131.455 | Carriage of passengers  | Chapter 25   |                 |   |             |  |
| 20.16.3.14 | Persons or passengers<br>who require assistance<br>due | 131.405 | Carriage of persons requiring assistance  | Chapter 22   | _               |   |             |  |
|            | to sickness, injury or disability                      |         | Passengers - safety<br>briefings and instructions                                     | Chapter 23   |                 |   |             |  |
| 20.16.3.15 | Carriage of parachutists                               |         | Dropping things from aircraft   | Chapter 9    | _               |   |             | Other provisions Part 105 of CASR Parachuting from aircraft  |
|            |  | 131.455 | Loading weights   | Chapter 24   |                 |   |             |  |

| CAOs          |  | Part 131 of   | art 131 of CASR Part 131 MOS  |  | Part 91 of CASR |                               | Part 91 MOS | Comments  |  |  |  |  |
|---------------|--|---------------|-------------------------------|--|-----------------|-------------------------------|-------------|---|--|--|--|--|
| 20.17 Air ser | 20.17 Air service operations - use of military aerodromes by civil aircraft            |               |                               |  |                 |                               |             |   |  |  |  |  |
|               |  |               |                               |  | _               |                               |             | Regulation 91.410 of CASR authorises the use of certain places as aerodromes. An aerodrome for which an arrangement under section 20 of the Civil Aviation Act 1988 is in force (subparagraph 91.410 (2) (a) (iii)) means a Defence aerodrome that is available for civilian use.  Prior permission must be obtained from the appropriate military authority before landing at any military aerodrome (except joint-user aerodromes). Refer to AIP Australia. |  |  |  |  |
| 20.18 Aircraf | t equipment - basic opera  | tional requir | ements                        |  |                 |                               |             |   |  |  |  |  |
| 20.18.2       | Definitions  | _             |                               |  | _               |                               |             |   |  |  |  |  |
| 20.18.3       | Instrumentation for flight<br>under the Visual Flight<br>Rules (the V.F.R.)            | 131.255       | Compliance with flight manual |  | 91.095          | Compliance with flight manual |             |   |  |  |  |  |
| 20.18.3A      | Operations to which flight<br>and navigation<br>equipment requirements<br>do not apply | _             |                               |  | _               |                               |             |   |  |  |  |  |
| 20.18.4       | Equipment for flight under the Instrument  | _             |                               |  | _               |                               |             |   |  |  |  |  |
|               | Flight Rules (the I.F.R.)  | _             |                               |  | _               |                               |             |   |  |  |  |  |
| 20.18.5       | Windshield clear vision equipment  | _             |                               |  | _               |                               |             |   |  |  |  |  |
| 20.18.6       | Recording equipment  | _             |                               |  | _               |                               |             |   |  |  |  |  |
| 20.18.7       | Assigned altitude indicator and altitude alerting system                               | _             |                               |  | _               |                               |             |   |  |  |  |  |
| 20.18.8       | Radiation indicator  | _             |                               |  | _               |                               |             |   |  |  |  |  |
| 20.18.9       | Ground proximity warning system  | _             |                               |  | _               |                               |             |   |  |  |  |  |

| CAOs          | CAOs  |                  | Part 131 of CASR                       |            | Part 91 of CASR |  | Part 91 MOS | Comments   |
|---------------|---|------------------|--|------------|-----------------|--|-------------|--|
| 20.18.9B      | Directions relating to<br>carriage and use of<br>automatic dependent<br>surveillance - broadcast<br>equipment | Subpart<br>131.K | Equipment                              | Chapter 26 | _               |  |             |  |
| 20.18.9BA     | Instructions—SSR transponder equipment  | Subpart<br>131.K | Equipment                              | Chapter 26 | _               |  |             |  |
| 20.18.9C      | Standards for Mode S transponder equipment  | Subpart<br>131.K | Equipment                              | Chapter 26 | _               |  |             |  |
| 20.18.9D      | Directions for mandatory<br>GNSS equipment for<br>I.F.R. flight   | _                |  |            | _               |  |             |  |
| 20.18.9E      | Carriage of Mode S transponder equipment  | Subpart<br>131.K | Equipment                              | Chapter 26 | _               |  |             |  |
| 20.18.10      | Serviceability  | Subpart<br>131.K | Equipment                              | Chapter 26 | 91.150          | Operating aircraft with inoperative equipment—placarding |             |  |
| 40.2.2 Balloo | on grade of night VFR ratir   | ng               |  |            | •               |  |             |  |
| 40.2.2        |   | 131.565          | Qualifications and training for pilots | Chapter 27 | _               |  |             | CAO 40.2.2 remains in force.   |
| 40.7 Aircraft | endorsements (balloons)   | and flight in    | structor (balloons) rating             | S          | •               |  | •           |  |
| 40.7          |   |                  | Qualifications and training for pilots | Chapter 27 | _               |  |             | CAO 40.7 remains in force.   |
| 48.1 Civil Av | iation Order 48.1 Instrume  | ent 2019         |  | •          |                 |  |             |  |
| 48.1          |   | _                |  |            | _               |  |             | These rules will be incorporated into the CASR in due course.  |
|               |   |                  |  |            |                 |  |             | Other provisions 131.190 Fatigue management system Part 131 MOS Chapter 4 Personnel fatigue management (reserved for future use) 91.520 Crew members to be fit for duty (requirements that apply for all crew members) |
| 82.0 Civil Av | iation Order 82.0 Instrume  | ent 2014         |  |            |                 |  |             |  |
| 82.0.1        | Application   | _                |  |            | _               |  |             |  |
| 82.0.2        | Definitions   | _                |  |            | _               |  |             |  |

| CAOs     |   | Part 131 of CASR |  | Part 131 MOS | Part 91 of CASR |  | Part 91 MOS | Comments |
|----------|---|------------------|--|--------------|-----------------|--|-------------|----------|
|          |   |                  |  |              |                 |  |             |          |
| 82.0.3   | Conditions relating to borrowed certificates                                | 131.235          | Dealings in relation to cancelled, suspended, varied, pending or refused civil aviation authorisations |              | _               |  |             |          |
| 82.0.3A  | Conditions on all passenger-carrying aeroplane operations to remote islands | _                |  |              | _               |  |             |          |
| 82.0.3B  | En route performance for 3 or 4 turbine- engine aeroplanes                  | _                |  |              | _               |  |             |          |
| 82.0.3BA | Distance limitations—<br>piston-engine aeroplanes                           | _                |  |              | _               |  |             |          |
| 82.0.3BB | Distance limitations— 19 passengers or less and exceeding 5,700kg MTOW      | _                |  |              | _               |  |             |          |
| 82.0.3BC | Distance limitations—<br>more than 19<br>passengers or 3,410 kg<br>payload  | _                |  |              | _               |  |             |          |
| 82.0.3BD | Polar operations  | _                |  |              | -               |  |             |          |
| 82.0.3C  | Conditions relating to charter substitutions                                | _                |  |              |                 |  |             |          |
| 82.0.3D  | Condition for use of NVD by an AOC holder                                   | _                |  |              | _               |  |             |          |
| 82.0.3E  | Condition for use of flight crew MP(A)L                                     | _                |  |              | _               |  |             |          |
| 82.0.4   | General AOC conditions—safety operational specifications                    | _                |  |              |                 |  |             |          |

| CAOs           | CAOs   |               | Part 131 of CASR                                |                 | Part 91 of CASR |  | Part 91 MOS | Comments   |
|----------------|--|---------------|---|-----------------|-----------------|--|-------------|--|
| 82.0.5         | Chief Pilot  |               |   |                 | _               |  |             | In CASR Part 131 the position previously titled 'chief pilot' is referred to as the 'head of flying operations'. Part 131 of CASR prescribes the qualifications and experience of the head of flying operations and the responsibilities of the position. Refer to the following regulations:  • 131.145 Head of flying operations—qualifications and experience  • 131.150 Head of flying operations—responsibilities  • 131.175 Key personnel—additional qualification and experience requirements.  Subregulation 131.145 (4) prescribes that CASA may direct the head of flying operations, or the proposed head of flying operations, to undertake an assessment.  Other provisions  Subsection 28 (3) of the Civil Aviation Act 1998 |
| 82.0.6         | Variation of conditions or obligations                         | 131.B         | Changes relating to balloon transport operators |                 | _               |  |             | Other provisions 131.030 Definition of significant change  |
| 82.1 Condition | ons on air operators' certi                                    | ficates autho | rising charter and aerial v                     | vork operations | •               |  |             |  |
| 82.1.1         | Application of conditions                                      | _             |   |                 | _               |  |             |  |
| 82.1.2         | Obligations in relation to organisation and facilities         | _             |   |                 | _               |  |             |  |
| 82.1.3         | Obligations in relation to training and checking               | _             |   |                 | _               |  |             |  |
| 82.1.4         | Obligations in relation to flight crew requirements            | _             |   |                 | _               |  |             |  |
| 82.1.5         | Obligations in relation to foreign registered aircraft         | _             |   |                 | _               |  |             |  |
| 82.1.6         | Obligations in relation to operating different aircraft models | _             |   |                 | _               |  |             |  |
| 82.1.7         | Obligations in relation to AOC Holder's Safety Questionnaire   | _             |   |                 | _               |  |             |  |

| CAOs          | CAOs  |                              | Part 131 of CASR                                  |                         | Part 91 of C | ASR | Part 91 MOS | Comments  |
|---------------|---|------------------------------|---|-------------------------|--------------|-----|-------------|---|
| Appendix 1    | Facilities and documentation  | _                            |   |                         | _            |     |             | Other provisions Section 28 of the Civil Aviation Act 1998 131.080 Conditions for issue   |
| Appendix 2    | Training and checking organisation  | _                            |   |                         | _            |     |             |   |
| Appendix 3    | Directions relating to carriage and use of automatic dependent surveillance – broadcast equipment | _                            |   | Chapter 26 Div<br>26.10 | _            |     |             |   |
|               | Standards for Mode S transponder equipment  | _                            |   | Chapter 26 Div<br>26.10 | _            |     |             |   |
| Appendix 4    | ADS-B   | _                            |   |                         | _            |     |             |   |
| 82.7 Air Oper | ator's Certificates authori   | sing aerial w                | ork operations and chart                          | er operations in ba     | lloons       |     | •           |   |
| 82.7.1        | Application   | _                            |   |                         | _            |     |             |   |
| 82.7.2        | Interpretation  | _                            |   |                         | _            |     |             |   |
| 82.7.4        | Conditions  | _                            |   |                         | _            |     |             | Other provisions 131.065 Compliance with balloon transport AOC 131.070 Compliance with conditions of balloon transport AO   |
|               | organisation and facilities   | Subpart<br>131.B<br>Division | Organisation and personnel  Records and Documents |                         |              |     |             | Section 28 of the Civil Aviation Act 1998 prescribes matters in relation to organisation and facilities.  The position previously titled 'chief pilot' is referred to as the 'head of flying operations'. Part 131 of CASR prescribes the qualifications and experience of the head of flying operations and the responsibilities of the position. Refer to the following regulations:  • 131.145 Head of flying operations—qualifications and experience  • 131.150 Head of flying operations—responsibilities  • 131.175 Key personnel—additional qualification and experience requirements.  Other provisions  131.080 Conditions for issue of balloon transport AOC 131.140 Chief executive officer—responsibilities and accountabilities |
|               |   | 131.B.7                      |   |                         |              |     |             |   |

| CAOs                        |   | Part 131 of CASR                        |  | Part 131 MOS | Part 91 of CASR |  | Part 91 MOS | Comments   |  |  |
|-----------------------------|---|---|--|--------------|-----------------|--|-------------|--|--|--|
|                             |   | 131.195                                 | Content of exposition                                      |              |                 |  |             |  |  |  |
| 82.7.6                      | Chief pilot   |   |  |              |                 |  |             | The position previously titled 'chief pilot' is referred to as the 'head of flying operations'. Part 131 of CASR prescribes the qualifications and experience of the head of flying operations and the responsibilities of the position. Refer to the following regulations:  • 131.145 Head of flying operations—qualifications and experience • 131.150 Head of flying operations—responsibilities • 131.175 Key personnel—additional qualification and experience requirements.  Subregulation 131.145 (4) prescribes that CASA may direct the head of flying operations, or the proposed head of flying operations, to undertake an assessment.  Other provisions  Subsection 28 (3) of the Civil Aviation Act 199 |  |  |
| 82.7.7                      | Obligations in relation to AOC Holder's Safety questionnaire  | _                                       |  |              | _               |  |             |  |  |  |
| Appendix 1                  | Facilities and documentation  |   | Required material reference library  Content of exposition |              | _               |  |             | Other provisions Section 28 of the Civil Aviation Act 1998 131.080 Conditions for issue of balloon transport AOC   |  |  |
|                             |   | 131.205                                 | Providing personnel with exposition                        |              |                 |  |             |  |  |  |
|                             |   | Subpart<br>131.B<br>Division<br>131.B.7 | Records and documents                                      |              |                 |  |             |  |  |  |
| Appendix 2                  | Approval of Chief Pilot by CASA   | _                                       |  |              | _               |  |             | Refer to entries for subsection 82.7.6.  |  |  |
| Civil Aviation (as amended) | Sivil Aviation Order 82.7 – Air Operators' Certificates authorising commercial balloon licence or rating training as amended) |   |  |              |                 |  |             |  |  |  |

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| CAOs         | CAOs   |               | Part 131 of CASR                      |                    | Part 91 of CASR |  | Part 91 MOS | Comments  |  |
|--------------|--|---------------|---------------------------------------|--------------------|-----------------|--|-------------|---|--|
| 82.7         |  | 131.565       | Qualification and training for pilots |                    |                 |  |             | CAO 82.7 is in force The term chief pilot is retained in this CAO. The position of chief pilot may be filled by the same person who is the HOFO of an associated balloon transport AOC. Part 5 of CAR Balloon flight crew licensing is in force |  |
| CAO 95.53 (C | commercial Balloon Flying  | ງ Training an | d Balloon Transport Ope               | rations) Instrumen | t 2021          |  | •           |   |  |
| 95.53        |  |               |                                       |                    | _               |  |             | CAO 95.53 will be repealed. Operational requirements are set out in Part 91 and Part 131 of CASR and their MOS.  Other provisions Regulations 259 and 260 of CAR will be repealed   |  |
| CAO 95.54 (P | CAO 95.54 (Part 131 Recreational Activity and Specialised Balloon Operations) Instrument 2021 (as amended) |               |                                       |                    |                 |  |             |   |  |
| All          | All  |               |                                       |                    |                 |  |             | CAO 95.54 will omit the general operational conditions in section 11 and refer to the Part 131 MOS instead. It will maintain CASA's power to administer Part 131 recreational activities.   |  |