Audience

This advisory circular (AC) applies to:

- aerodrome owners/operators
- aerodrome consultants
- The Civil Aviation Safety Authority (CASA)

Purpose

This AC provides supplementary guidance to all aerodrome operators on the:

- application of aerodrome certification under Part 139 CASR 1998 and the subsidiary Part 139 MOS 2019
- timeframes and requirements for transitioning to the revised Part 139 MOS
- scalable certification standards based on the complexity of aerodrome operations
- determination and nomination of key aerodrome facilities
- 'grandfathering', upgrade and replacement of aerodrome facilities
- election to 'opt-in' to revised standards
- identification and management of non-compliant facilities
- identification and management of non-preferred elements in the Part 139 MOS

For further information

For additional information, contact CASA (e-mail aerodromes_regs@casa.gov.au or telephone 131 757)

Unless specified otherwise, all subregulations, regulations, divisions, subparts and parts referenced in this AC are references to the Civil Aviation Safety Regulations 1998 (CASR).
Status

This version of the AC is approved by the Manager, Flight Standards Branch.

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<td>v1.0</td>
<td>November 2019</td>
<td>Initial release of this AC.</td>
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Unless specified otherwise, all subregulations, regulations, divisions, subparts and parts referenced in this AC are references to the *Civil Aviation Safety Regulations 1998 (CASR)*.
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1 Reference material

1.1 Acronyms

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

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<td>advisory circular</td>
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<tr>
<td>AIS</td>
<td>aeronautical information service</td>
</tr>
<tr>
<td>AIP</td>
<td>aeronautical information publication</td>
</tr>
<tr>
<td>ARC</td>
<td>aerodrome reference code</td>
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<tr>
<td>ATS provider</td>
<td>air traffic service provider</td>
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<td>CASA</td>
<td>Civil Aviation Safety Authority</td>
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<td>CASR</td>
<td>Civil Aviation Safety Regulations 1998</td>
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<tr>
<td>DPS</td>
<td>data product specification</td>
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<td>ICAO Annex 14</td>
<td>International Civil Aviation Organisation Annex 14</td>
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<td>IFR</td>
<td>instrument flight rules</td>
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<td>IMC</td>
<td>Instrument meteorological conditions</td>
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<tr>
<td>MOS</td>
<td>Part 139 (Aerodromes) Manual of Standards 2019</td>
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<tr>
<td>OLS</td>
<td>obstacle limitation surface</td>
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<tr>
<td>OMGWS</td>
<td>outer main gear wheel span</td>
</tr>
<tr>
<td>RESA</td>
<td>runway end safety area</td>
</tr>
<tr>
<td>RVR</td>
<td>runway visual range</td>
</tr>
<tr>
<td>TIFP</td>
<td>terminal instrument flight procedure</td>
</tr>
<tr>
<td>VFR</td>
<td>visual flight rules</td>
</tr>
<tr>
<td>VMC</td>
<td>visual meteorological conditions</td>
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</table>

1.2 Definitions

Terms that have specific meaning within this AC are defined in the table below.

<table>
<thead>
<tr>
<th>Term</th>
<th>Definition</th>
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</table>
| aerodrome facility       | Means any of the following physical things at an aerodrome:  
                          | a. the physical characteristics of any movement area, including  
                          | runways, taxiways, taxilanes, shoulders, aprons, primary and  
                          | secondary parking positions, runway strips and taxiway strips  
                          | b. infrastructure  
                          | c. structures |

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<table>
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<th>Term</th>
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<tr>
<td>d. equipment</td>
<td></td>
</tr>
<tr>
<td>e. earthing points</td>
<td></td>
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<tr>
<td>f. cables</td>
<td></td>
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<tr>
<td>g. lighting</td>
<td></td>
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<td>h. signage</td>
<td></td>
</tr>
<tr>
<td>i. markings</td>
<td></td>
</tr>
<tr>
<td>j. visual approach slope indicators</td>
<td></td>
</tr>
<tr>
<td>k. any other similar thing that is</td>
<td></td>
</tr>
<tr>
<td></td>
<td>physical matter and is used for the operation of aircraft at the aerodrome.</td>
</tr>
<tr>
<td>aeroplane reference field length</td>
<td>Means the minimum field length required for an aeroplane to take off at maximum certificated take-off mass, at sea level, in standard atmospheric conditions, in still air and with zero runway slope, as shown in:</td>
</tr>
<tr>
<td></td>
<td>a. the aeroplane's aircraft flight manual approved by the national aviation authority which issued the initial type certificate for the aeroplane; or</td>
</tr>
<tr>
<td></td>
<td>b. equivalent data from the aeroplane manufacturer.</td>
</tr>
<tr>
<td>aerodrome technical inspection</td>
<td>Means an inspection of the facilities, equipment and operation of a certified aerodrome, conducted by, or on behalf of, the aerodrome operator to ensure detection of any deterioration that could make any of the facilities, equipment or operations unsafe for aircraft operations.</td>
</tr>
<tr>
<td>air transport passenger</td>
<td>Means a passenger in an air transport operation.</td>
</tr>
<tr>
<td>air transport passenger movement</td>
<td>For an aerodrome, for a financial year, means the numbers, published by the Department, of air transport passenger movements at the aerodrome during the financial year, and any reference to air transport passenger movements is a reference to the movements compiled in these numbers.</td>
</tr>
<tr>
<td>aircraft movement</td>
<td>Means one of the following:</td>
</tr>
<tr>
<td></td>
<td>a. the landing of an aircraft at an aerodrome</td>
</tr>
<tr>
<td></td>
<td>b. the take-off of an aircraft from an aerodrome</td>
</tr>
<tr>
<td>aircraft movements</td>
<td>When referred to numerically for an aerodrome, for a financial year, this means the numbers of aircraft movements at the aerodrome during the financial year, as compiled by the aerodrome operator or the ATS provider.</td>
</tr>
<tr>
<td>Department</td>
<td>Means the Department of State of the Commonwealth that is administered by the Minister who, from time to time, administers CASR. At the date of making, this is the Department of Infrastructure, Regional Development and Cities but may change from time to time in accordance with Administrative Arrangements Orders made by the Governor-General.</td>
</tr>
<tr>
<td>existing aerodrome</td>
<td>Means an aerodrome that was in service as a certified aerodrome, or a registered aerodrome under the document called ‘Manual of Standards (MOS) - Part 139 Aerodromes’ as in force immediately before the commencement of the MOS on 22 August 2020.</td>
</tr>
<tr>
<td>existing aerodrome facility</td>
<td>Means a facility that would have fallen within the definition of an aerodrome facility immediately before the commencement of the MOS had the definition of aerodrome facility then been in force.</td>
</tr>
<tr>
<td>grandfathered facility</td>
<td>Means an existing aerodrome facility and the obstacle limitation surfaces associated with an existing runway that is part of the existing aerodrome.</td>
</tr>
</tbody>
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**GENERAL DISCLAIMER:**

This document is a draft and is provided for informational purposes only. It may not accurately reflect current legislation or regulations. Always consult the latest, official version of any legislation or regulations for the most up-to-date and accurate information.
<table>
<thead>
<tr>
<th>Term</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>facility (the OLS) that, on and after the commencement of this MOS, did not comply with the standards in this MOS, provided that:</td>
<td></td>
</tr>
<tr>
<td>a.</td>
<td>the facility and the OLS complies, and continues to comply, with the standards which applied to the facility and the OLS immediately before the commencement of this MOS; and</td>
</tr>
<tr>
<td>b.</td>
<td>the aerodrome operator's aerodrome manual:</td>
</tr>
<tr>
<td>i</td>
<td>identifies the facility and the OLS; and</td>
</tr>
<tr>
<td>ii</td>
<td>sets out in detail how the facility and/or the OLS do not comply with this MOS.</td>
</tr>
<tr>
<td>grandfathering provision</td>
<td>Means a clause or policy in which a previous rule or standard continues to apply to some existing situations. Those that continue to comply with the previous regulation or standard are said to have grandfathered status or acquired rights, or to have been grandfathered.</td>
</tr>
<tr>
<td>obstacle limitation surfaces</td>
<td>Means a series of planes, associated with each runway at an aerodrome, that defines the desirable limits to which objects or structures may penetrate into the airspace around the aerodrome, so that aircraft operations at the aerodrome may be conducted safely. The obstacle limitation surfaces are as follows:</td>
</tr>
<tr>
<td>a.</td>
<td>the outer horizontal surface</td>
</tr>
<tr>
<td>b.</td>
<td>the conical surface</td>
</tr>
<tr>
<td>c.</td>
<td>the inner horizontal surface</td>
</tr>
<tr>
<td>d.</td>
<td>the approach surface</td>
</tr>
<tr>
<td>e.</td>
<td>the inner approach surface</td>
</tr>
<tr>
<td>f.</td>
<td>the transitional surface</td>
</tr>
<tr>
<td>g.</td>
<td>the inner transitional surface</td>
</tr>
<tr>
<td>h.</td>
<td>the baulked landing surface</td>
</tr>
<tr>
<td>i.</td>
<td>the take-off climb surface.</td>
</tr>
<tr>
<td>opted-in</td>
<td>Means that:</td>
</tr>
<tr>
<td>a.</td>
<td>an aerodrome operator voluntarily tells CASA in writing that, from a specified date after the commencement of this MOS, a specified grandfathered facility will comply with the requirements of this MOS for the facility; and</td>
</tr>
<tr>
<td>b.</td>
<td>the aerodrome operator's aerodrome manual specifies the date and the facility; and</td>
</tr>
<tr>
<td>c.</td>
<td>CASA acknowledges, in writing, that the operator has opted in.</td>
</tr>
<tr>
<td>replacement</td>
<td>For an existing aerodrome facility, this means completion of any activity in relation to the facility which, not being merely maintenance, results in the substitution of a new aerodrome facility for the existing aerodrome facility.</td>
</tr>
<tr>
<td>scheduled international air transport operation</td>
<td>Means an international air transport operation conducted in accordance with a designated International Airport as published by the Department.</td>
</tr>
<tr>
<td>specialised helicopter operation</td>
<td>Means a helicopter operation that involves the carriage of persons or cargo between the coast of Australia and an off-shore installation, or between off-shore installations, or to or from a helipad of a hospital or a State or Territory emergency service.</td>
</tr>
<tr>
<td>upgrade</td>
<td>For an existing aerodrome facility, this means any change to the facility which, for the first time after commencement of this MOS, enables any of the following changes to aircraft operations using the facility, namely, a change:</td>
</tr>
<tr>
<td>Term</td>
<td>Definition</td>
</tr>
<tr>
<td>------</td>
<td>------------</td>
</tr>
<tr>
<td>a.</td>
<td>from day VFR operations, to night VFR operations</td>
</tr>
<tr>
<td>b.</td>
<td>from non-instrument approaches, to non-precision instrument approaches</td>
</tr>
<tr>
<td>c.</td>
<td>from non-precision instrument approaches, to precision instrument approaches</td>
</tr>
<tr>
<td>d.</td>
<td>from precision CAT I approaches to precision CAT II, or CAT III approaches</td>
</tr>
<tr>
<td>e.</td>
<td>which enables aircraft take-offs and aerodrome surface movements in runway visibility, or RVR conditions of less than 550 m</td>
</tr>
<tr>
<td>f.</td>
<td>which enables the aerodrome to accommodate aircraft of a higher category specified in the ARC under section 4.01 of the MOS than was the case before the change</td>
</tr>
<tr>
<td>g.</td>
<td>which enables the aerodrome to accommodate aircraft on scheduled international operations.</td>
</tr>
</tbody>
</table>

**visual meteorological conditions (VMC)**

Means meteorological conditions expressed in terms of visibility, distance from cloud, and ceiling, equal to or better than specified minima.

### 1.3 References

**Regulations**


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<td>Part 175 of CASR 1998</td>
<td>Aeronautical information management</td>
</tr>
<tr>
<td>Part 121 of CASR 1998</td>
<td>Australian air transport operations (larger aeroplanes)</td>
</tr>
<tr>
<td>Part 173 of CASR 1998</td>
<td>Instrument flight procedure design</td>
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**International Civil Aviation Organization documents**

International Civil Aviation Organization (ICAO) documents are available for purchase from [http://store1.icao.int/](http://store1.icao.int/)

<table>
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<tr>
<th>Document</th>
<th>Title</th>
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<tbody>
<tr>
<td>ICAO International Standards and Recommended Practices</td>
<td>Annex 14 to the convention on International Civil Aviation - Aerodromes Volume I</td>
</tr>
<tr>
<td>Doc 9981</td>
<td>Procedures for air navigation services Aerodromes (PANS Aerodromes)</td>
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**Advisory material**


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<td>Applying for aerodrome certification</td>
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<td>AC 139.A-02</td>
<td>Aerodrome facility, nomination and compatibility</td>
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<td>AC 139.A-04</td>
<td>Applying for aerodrome authorisations, exemptions and approvals</td>
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<td>AC 139.C-09</td>
<td>Visual aids, markings, signals and signs</td>
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<td>Aerodrome lighting</td>
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</tr>
<tr>
<td>AC 139.C-16</td>
<td>Wildlife hazard management at aerodromes</td>
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2 Introduction

2.1 Background

2.1.1 In line with Annex 14 to the Convention on International Civil Aviation - Aerodromes Volume I and the International Civil Aviation Organisation (ICAO) Procedures for Air Navigation Services Aerodromes (PANS Aerodromes), the Civil Aviation Safety Regulations 1998 (CASR) sets the regulatory requirements for the certification, maintenance, and operation of an aerodrome.

2.1.2 The Manual of Standards Part 139 - Aerodromes (MOS Part 139) is the current legislative instrument that sets out the standards for certified and registered aerodromes in addition to the standards for radio communication facilities applicable to all aerodromes.

2.1.3 Effective 22 August 2020, a revised standard, the Part 139 (Aerodromes) Manual of Standards 2019 (Part 139 MOS), will come into effect.

2.1.4 The revised Part 139 MOS:

- establishes a single certification framework for regulated aerodromes (certified)
- mandates when an aerodrome must be certified
- sets out the standards for the design, construction, maintenance and operation of certified aerodromes
- defines the requirements for aerodrome radiocommunication services at all aerodromes
- requires the identification and reporting of hazards on aerodromes, and within the prescribed airspace.

2.1.5 Aerodromes that were certified or registered prior to August 2020 will be deemed to be certified on commencement of the new rules. This means that existing certified and existing registered aerodromes will be conditionally accepted by CASA to operate in accordance with the new rules until the end of the respective transition periods.

2.1.6 A deemed aerodrome that meets all the applicable requirements of the Part 139 MOS will be issued a new aerodrome certificate provided they meet the transition timeframes.

2.1.7 Grandfathering provisions will allow an aerodrome facility and the obstacle limitation surfaces (OLS) associated with the runway, at an existing certified, or an existing registered aerodrome, to remain compliant with the standards that proceeded the revised Part 139 MOS, until the facility is replaced or upgraded.
3 Aerodrome Certification - Part 139 MOS

3.1 Under the new rules, when is an aerodrome required to be certified?

3.1.1 An aerodrome cannot have a terminal instrument flight procedure (TIFP), other than a TIFP that is provided only for use in specialised helicopter operations, unless the aerodrome is certified.

3.2 What constitutes a TIFP with regards to the requirement for certification?

3.2.1 A terminal instrument flight procedure means an instrument approach procedure or instrument departure procedure as defined in the CASR dictionary.

3.2.2 A TIFP is considered to apply if it is published in the Aeronautical Information Publication (AIP) and features the aerodrome name in the title, or is an approved procedure intended for that aerodrome.

3.3 Other factors that may influence an aerodrome operator to apply for certification

3.3.1 In the absence of a TIFP, an aerodrome operator may seek to certify their aerodrome should they choose to operate to the same safety standards as a regulated aerodrome in accordance with CASR subpart 139B.

3.3.2 An aircraft operator conducting air transport operations under CASR Part 121 may be subject to operational requirements that may also necessitate an aerodrome to become certified. This is a commercial decision between the aircraft operator and the aerodrome operator.

3.3.3 For guidance on the process to apply for an aerodrome certificate, refer to AC 139.B-01 ‘Applying for aerodrome certification’.

3.4 My aerodrome is an existing certified or an existing registered aerodrome, do I need to reapply for an aerodrome certificate?

3.4.1 To enable the continuation of operations, an existing certified or an existing registered aerodrome will, on the commencement date of the revised Part 139 MOS, be automatically deemed a certified aerodrome.

3.4.2 Provided the aerodrome operator complies with the transition requirements, no formal application will be required.
3.5 Can I still apply to certify or register my aerodrome under the existing Part 139 regulations before the new rules commence?

3.5.1 An application to certify, or to register an aerodrome, generally takes 3 months to process. An applicant may apply to certify, or to register their aerodrome in accordance with the existing rules, provided a complete application is received by CASA, no later than 3 months before the new rules commence.

3.5.2 All applications to certify an aerodrome under Version 1.14 of the MOS Part 139 that are received within 3 months of the new rules commencing will not be accepted. An application for certification will need to be made and the revised Part 139 MOS standards will need to be met.

3.5.3 All applications to register an aerodrome under Version 1.14 of the MOS Part 139 that are received within 3 months of the new rules commencing will not be accepted. An application for certification will need to be made and the revised Part 139 MOS standards will need to be met.
4 Scalable Certification Structure - Part 139 MOS

4.1 Certification standards are not the same for all aerodromes

4.1.1 CASA has introduced a scalable certification structure linked to the complexity of the aerodrome operating environment.

4.1.2 The trigger criteria that supports the scalable certification structure is based on:
   - the number of air transport passengers per annum (financial year)
   - the aircraft movement numbers per annum (financial year)
   - scheduled international air transport operations at the aerodrome.

4.1.3 The management system provisions that are subject to these trigger criteria are:
   - aerodrome technical inspections or validations (refer to AC 139.C-04 Aerodrome technical inspections)
   - safety management systems (refer to AC139.C-26 Safety management systems for aerodromes)
   - risk management plans (refer to AC 139.C-27 Risk management plans for aerodromes)
   - aerodrome emergency plans / aerodrome emergency committees (refer to AC 139.C-19 Aerodrome emergency planning)
   - wildlife hazard management plans (refer to AC 139.C-16 Wildlife hazard management at aerodromes).

4.1.4 A table summarising the threshold criterion is provided in Appendix A to this advisory circular.

4.2 Data to support trigger criteria

4.2.1 The Part 139 regulations empower CASA to obtain any available data on the number of air transport passenger movements and/or aircraft movements.

4.2.2 Acknowledging that there is no regulatory requirement for data collection the aerodrome operator is not required to implement a dedicated system to record passenger or aircraft movement numbers. However, to ensure the aerodrome is being operated in accordance with the legislative requirements, it is expected each aerodrome operator would have an awareness of the movement rates at their aerodrome so that they can monitor their own activities against their compliance obligations.

4.2.3 Typically, an aerodrome will be clearly above or below the applicable threshold criterion.

4.2.4 The Bureau of Infrastructure, Transport and Regional Economics (BITRE) collects and publishes aviation statistics which include aircraft passenger movement numbers for international, domestic and some general aviation activity. This information is available via the Department of Infrastructure, Regional Development and Cities website.
4.2.5 CASA can also request data directly from Airservices Australia, the air traffic service provider (ATS) if the data is available. This validation will ensure the aerodrome operator is only held to compliance with the applicable regulations and standards and exclude those not supported by their passenger numbers or movement rates.
5 Transitioning to the revised Part 139 MOS

5.1 Introduction

5.1.1 A transition period has been provided to assist the operator of an existing certified, or an existing registered aerodrome, to document and implement any additional systems, processes, or matters, that are not able to be grandfathered.

5.1.2 The timeframes for transition are different for existing certified and existing registered aerodromes.

5.1.3 Provided the aerodrome operator meets the required transition milestones, the deeming provision will continue until the end of the respective transition period.

5.1.4 A transition timeline is available at Appendix C to this advisory circular.

5.2 Transition elements and timeframes - existing certified aerodromes

5.2.1 The operator of an existing certified aerodrome will be deemed eligible to operate under the amended CASRs and the revised Part 139 MOS, for a maximum period up to 12 months after commencement, provided that within 6 months of the new rules coming into effect, the aerodrome operator has submitted to CASA a revised aerodrome manual with all the compliance aspects ‘present’ i.e. that meets the Part 139 MOS requirements (refer to AC 139.C-01 'Aerodrome Manual').

5.2.2 The revised aerodrome manual must include the applicable management systems that are required in accordance with scalable certification structure outlined in Part 4 of this AC.

5.2.3 As this is an initial submission, subsidiary documents referred to in the aerodrome manual must also be provided to CASA.

5.2.4 It is expected the aerodrome operator will be operating the aerodrome in accordance with the revised aerodrome manual at the time the aerodrome manual is submitted to CASA.

5.2.5 Upon receipt, CASA will assess the aerodrome manual to confirm all legislative requirements have been addressed and that the content appears complete and is 'suitable'. CASA will assess the aerodrome manual by 22 August 2021 so the earlier the manual is submitted to CASA the more time for its review, and if there is a need for any clarifications for CASA to go back to the aerodrome operator.

5.2.6 Provided no anomalies or concerns are identified, a new aerodrome certificate will be issued, and the deeming provision will no longer apply.

5.2.7 Acceptance of the aerodrome manual as being 'suitable' will be subject of further confirmation of compliance throughout subsequent and ongoing surveillance activities.

5.2.8 Aerodromes that have scheduled international operations will have 12 months from commencement to update their existing Safety Management System (SMS). The deferred date will not delay the issue of a new aerodrome certificate however the
revised SMS must be provided to CASA no later than 12 months after the commencement of the new rules.

5.3 **Transition elements and timeframes - existing registered aerodromes**

5.3.1 The operator of an existing registered aerodrome will be deemed eligible to operate under the amended CASRs, and the revised Part 139 MOS, for a maximum period of 24 months, provided that within 18 months of the new rules commencing, the aerodrome operator has submitted to CASA, an aerodrome manual with all the compliance aspects ‘present’ i.e. that meets the Part 139 MOS requirements (refer to AC 139.C-01 ‘Aerodrome Manual’).

5.3.2 As this is an initial submission, subsidiary documents referred to in the aerodrome manual must also be provided to CASA.

5.3.3 It is expected the aerodrome operator will be operating the aerodrome in accordance with the aerodrome manual at the time the aerodrome manual is submitted to CASA.

5.3.4 Upon receipt CASA will assess the aerodrome manual to confirm the applicable legislative requirements have been addressed, and that the content appears complete and ‘suitable’. CASA will assess the aerodrome manual by 22 August 2022 so the earlier the manual is submitted to CASA the more time for its review, and if there is a need for any clarifications for CASA to go back to the aerodrome operator.

5.3.5 Provided no anomalies or concerns are identified, an aerodrome certificate will be issued, and the deeming provision will no longer apply.

5.3.6 Acceptance of the aerodrome manual as being ‘suitable’ will be subject of further confirmation of compliance throughout subsequent and ongoing surveillance activities.

5.3.7 The following management systems (which are each subject of trigger criteria), have a deferred implementation date. The deferred date will not delay the issue of an aerodrome certificate, provided that where applicable, the required documents are provided to CASA no later than 24 months after the commencement of the new rules:

- safety management system
- risk management plan
- aerodrome emergency plan and exercises
- wildlife hazard management plan

5.3.8 Aerodrome technical inspections (which are subject of trigger criteria), also have a deferred implementation date:

- 12 months for existing registered aerodromes that were required under the existing CASR 139.315 to complete an aerodrome safety inspection (ASI) in the calendar year prior to the commencement of the revised MOS Part 139
- 24 months for existing registered aerodromes that were not required under the existing CASR 139.315 to complete an aerodrome safety inspection (ASI) in the calendar year prior to the commencement of the revised MOS Part 139.
5.4 As an operator of an existing certified or an existing registered aerodrome, is it mandatory that I transition to the new rules?

5.4.1 The operator of an existing certified, or an existing registered aerodrome, is not obligated to transition to the new rules.

5.4.2 Aerodrome operators that do not wish to transition to the revised Part 139 MOS may opt out at any time.

5.4.3 Any aerodrome that does not transition will:

- cease to be a regulated aerodrome
- have any published TIFPs cancelled by the certified procedure designer responsible for maintaining the terminal instrument flight procedure for the aerodrome
- no longer be able to apply the grandfathering provisions.

5.5 If I elect not to transition to the new rules what must I do?

5.5.1 The operator of an existing registered aerodrome who elects to cancel their registration prior to the commencement of the new rules must provide written notification to CASA in accordance with the current MOS Part 139, not less than 30 days prior to the date they wish to cancel their aerodrome’s registration.

5.5.2 The operator of an existing certified aerodrome who elects to cancel their certificate prior to the commencement of the new rules should notify CASA as soon as possible, advising the date in which the cancellation is to have effect.

5.6 A 'deemed' aerodrome that does not meet the transition milestones

5.6.1 The operator of an aerodrome that has been deemed to be a certified aerodrome on commencement of the revised MOS Part 139, and who no longer wishes to transition to the new rules should give written notice of their intention to cancel their aerodrome's regulated status as soon as possible, to the following:

- CASA
- the Aeronautical Information Service (AIS) provider
- each certified procedure designer responsible for maintaining a terminal instrument flight procedure for the aerodrome (if applicable).
6 Aerodrome facilities currently under design / construction

6.1 Introduction

6.1.1 CASA acknowledges the length of time required in planning, obtaining funding for, and constructing a new aerodrome facility.

6.1.2 As the revised Part 139 MOS was first registered on 06 September 2019, due consideration will be provided for new applicants, and to operators of existing aerodromes, that have prior to this date, designed their facility to the existing MOS Part 139 standards.

6.2 Facilities designed to the new rules and their construction will have been completed prior to the new rules commencing

6.2.1 The operator of an existing aerodrome that wants to install visual aids e.g. aerodrome markings, markers and signs etc. designed to the new Part 139 MOS, and the installation will be completed prior to the new standards coming into effect, will have access to opt-in transitional provisions that will allow the visual aids to be installed prior to commencement of the new MOS Part 139.

6.3 Facilities designed to the existing MOS Part 139 and their construction will have been completed prior to commencement of the new rules

6.3.1 Any new or upgraded facility that has been designed to the existing standards and their construction will have been completed prior to the revised Part 139 coming into effect will be covered by the grandfathering provisions should the facility not comply with the new rules.

6.4 Facilities designed to the existing MOS Part 139 and their construction will not be completed prior to commencement of the new rules

6.4.1 To allow existing aerodrome developments and approved funding applications to progress unhindered on commencement of the revised Part 139 MOS, an aerodrome facility that has been designed to the existing standards, and where construction will not have been completed prior to the revised Part 139 coming into effect, may be recognised under the grandfathering provisions in the following circumstances:

− those aerodrome facility developments under construction
− those building developments or funding applications approved prior to 6 September 2019
− other building developments or funding applications not yet approved where evidence is provided that:
o the application for approval or funding was made prior to 6 September 2019; and
o the application demonstrates or proposes that construction will commence prior to 22 August 2021 and will be complete prior to 22 August 2022.
7 Aerodrome Facility Nominations & Operational Considerations

7.1 Introduction

7.1.1 Aircraft types and their intended operations will influence the design and operating standards of an aerodrome. It is therefore imperative when designing an aerodrome facility, the aerodrome operator considers the intended, or future aircraft types, and their operations to avoid:

- the intended aircraft operation being restricted or unable to operate safely
- the inability of the aerodrome to support upgrades, or the replacement of key facilities
- the inability of the aerodrome to support future innovations in aircraft performance and technologies
- an adverse effect on aviation safety.

7.1.2 Other characteristics, such as aircraft length and tail height, may also impact on the design of the aerodrome. Therefore, the aerodrome operator should consider all relationships between the aircraft characteristics and the aerodromes infrastructure during the planning and design phase.

7.1.3 There may also be instances in which operations at the aerodrome need to be managed or limited to ensure safety. This may involve ensuring that hazards are suitably identified and mitigated; refer to AC 139.C-09 'Visual aids, markings, signals and signs' for guidance on hazard marking criteria, and to AC 139.C-10 'Aerodrome lighting' for obstacle lighting criteria.

7.1.4 It is also recognised that not all areas of the aerodrome will strictly align with the operational requirements of the critical aircraft type; refer to AC139.A-02 Aerodrome facility, nomination and compatibility, for more information.

7.1.5 To best ensure the aerodrome infrastructure can support the desired aircraft operations, key aerodrome facility nominations and operational considerations are explained below.

7.2 Aerodrome reference code (ARC)

7.2.1 An aerodrome reference code (ARC) links the aerodrome design criteria to the operational and physical characteristics of an aircraft type. The ARC allows a simple means of identifying which aircraft can safely use the aerodromes facilities.

7.2.2 The ARC in Australia consists of three elements:

- code number
- code letter
- outer main gear wheel span (OMGWS).

7.2.3 Each element must be determined for each applicable aerodrome facility and may be applied independently or concurrently.
7.2.4 The code number ranges from 1 through to 4 and indicates the reference field length of the aircraft that the runway is intended to support. The code number is not intended to influence the actual runway length, or pavement strength requirements of the runway; it is intended to group aircraft of similar performance requirements into a coded system.

7.2.5 The code letter ranges from A through to F and relates specifically to the wingspan that the facility is intended to support. The code letter is applied to ensure adequate separation distances from the widest dimension of similar aircraft types to other aircraft or hazardous objects or obstacles.

7.2.6 The OMGWS may limit the ground-based manoeuvring capability of the aircraft and therefore it applies to the movement area pavements, including runways, taxiways and aprons.

7.2.7 The aerodrome operator is required to nominate and document in their aerodrome manual the applicable ARC for each runway including the associated OLS, taxiway and taxilane; refer to AC 139.C-01 'Aerodrome manual' for guidance on the details that are required to be recorded.

7.2.8 The aerodrome operator is also required to provide to the Aeronautical Information Service (AIS), the aerodrome reference code number and the OLS nomination for each runway, and the aerodrome reference code letter for each taxiway; refer to AC 139.C-05 'Aerodrome reporting and validation' for further guidance on the manner of reporting.

7.3 Runway instrument capability

7.3.1 For pilots operating under a terminal instrument flight procedure, the runway capability will be determined by the aerodrome operator based on the facilities at the aerodrome and the intended aircraft operations.

7.3.2 This determination has an impact on the physical characteristics and visual aid requirements which apply to the planning, design and operation of the movement area facilities, and the corresponding OLS, as the inner edge widths change depending on the capability of the approach.

7.3.3 Aerodrome facilities and procedures, including grandfathered provisions may limit the ability for a terminal instrument flight procedure to be published for that runway or may impact on the operating minima.

7.3.4 The aerodrome operator must document in their aerodrome manual the instrument classification for each runway, i.e.:

- non-instrument
- instrument non-precision approach
- precision approach CAT I, II or III
- special authorisation SA CAT I or CAT II.

7.4 Runway visibility including runway visual range (RVR)

7.4.1 In an operational context, runway visibility (RV) or runway visual range (RVR) refers to the distance over which a pilot of an aircraft on the centreline of the runway is able see
the runway surface markings that delineate the runway or identify the centreline. RV is determined via optical assessment and RVR is provided by calibrated approved meteorological equipment.

7.4.2 RV/RVR are used as one of the main criteria for determining the approach minima for instrument runways.

7.4.3 From an aerodrome design context, the nominated RV or RVR is to be determined by the aerodrome operator based on the intended aircraft operations. The nomination then determines the applicable standards for aerodrome facilities including visual aids.

7.5 **International operations**

7.5.1 An international aerodrome is an airport designated by the Minister for Infrastructure and Transport in accordance with section 9 of the *Air Navigation Act 1920*.

7.5.2 A list of designated international airports in Australia, and applicable external territories, can be found on the Department of Infrastructure, Regional Development and Cities website.

7.5.3 Only international aerodromes with 'scheduled flights' are required to adhere to the trigger criteria for international aerodromes. Therefore, international aerodromes that are designated as an ‘alternate’, ‘restricted use’ and ‘non-scheduled’ are not intended to be covered under this nomination.

7.6 **Aerodrome operational capability**

7.6.1 There are two sets of rules for flying aircraft:

   – visual flight rules (VFR)
   – instrument flight rules (IFR).

7.6.2 IFR permits an aircraft to operate in instrument meteorological conditions (IMC), which enables the aircraft to operate safely in weather conditions less than visual meteorological conditions (VMC).

7.6.3 VFR allows pilots to fly in visual meteorological conditions. Night VFR allows pilots with a specific endorsement to operate aircraft in visual meteorological conditions at night, subject to certain conditions and mandatory procedures.

7.6.4 If the aerodrome is available for night operations and has a lighting system that complies with Chapter 9 of the Part 139 MOS, it will support night VFR operations.

7.6.5 If an aerodrome is intended to support IFR operations, then the applicable standards for instrument runways apply.
8 Grandfathering provision

8.1 What is grandfathering?

8.1.1 Grandfathering allows the operator of an existing certified, or an existing registered aerodrome, to maintain their aerodrome facility and the OLS of an existing runway, to the standard that applied:

− at the time the facility was constructed, or
− if the facility had been replaced or upgraded since it was constructed, to the standard that applied to the facility at the time it was replaced or upgraded.

8.1.2 Grandfathering may be against any previous aerodrome standard such as:

− previous revisions of the Manual of Standards Part 139 - Aerodromes (MOS Part 139)
− Rules and Practices for Aerodromes (RPA)
− Airways Engineering Instructions (AEI)
− Airport Instructions (API)
− Airport Engineering Instructions (APEI)

8.1.3 Provided the grandfathering provision has been correctly applied and the required information is documented in the aerodrome manual, CASA will continue to recognise the standard that was in place at the time the facility was first built, or the standard which otherwise applied at the time it was last replaced or upgraded.

8.1.4 Grandfathered facilities will continue to have grandfathered status until they are next upgraded or replaced by the aerodrome operator.

8.2 Applying the grandfathering provision

8.2.1 To apply the grandfathering provision an aerodrome operator must be able to demonstrate that at the time the facility was constructed, replaced, or upgraded, the facility complied with, and continues to comply with, the standards that were in effect at that time.

8.2.2 A facility that has been replaced or upgraded after it was originally built, cannot be retrospectively grandfathered to the initial standard that applied when the facility was first built.

8.2.3 For a facility to be recognised as being grandfathered, the operator's aerodrome manual must:

− identify the facility/OLS, and
− detail how the facility/OLS does not comply.

8.2.4 In addition to, and for evidentiary purposes, the following information should also be recorded in the aerodrome manual:

− the date the facility was constructed, last replaced or upgraded, and
− the previous standard to which the facility complied with and continues to comply with.
8.2.5 Subject to appropriate documentation in the aerodrome manual, grandfathering does not require a safety case.

8.2.6 Facilities that are not accurately documented cannot be grandfathered retrospectively.

8.2.7 A flow chart summarising the grandfathering provision is provided in Appendix B to this advisory circular.

8.3 **Circumstances in which grandfathering does not apply**

8.3.1 The grandfathering provision can only be applied to actual physical facilities and the OLS applicable to an existing runway, and therefore does not extend to include:

- systems and processes, or
- matters of non-compliance.

8.3.2 Subject to transitional provisions, on the commencement of the revised Part 139 MOS, an aerodrome operator is expected to comply with all applicable systems and processes.

8.3.3 Whilst maintaining ground markings is considered maintenance, the grandfathering provision will no longer apply from the nominated date in which a marking (i.e. runway holding position markings) is required to be updated. As the enhancement of these markings provides a superior safety outcome, CASA recommends that the aerodrome operator establishes a program to ensure existing markings are bought into compliance with the revised standard as soon as practicable.

8.3.4 CASA may direct an aerodrome operator to upgrade their facility to comply with the standards in the revised Part 139 MOS.

8.3.5 Grandfathering provisions will not apply to new aerodromes.

8.3.6 If an existing regulated aerodrome does not transition upon commencement of the new rules, or if the aerodrome ceases to be certified at any point after the commencement of the new rules, they will be considered a new aerodrome and grandfathering provisions will not apply.

8.3.7 Facilities that don't comply with the revised Part 139 MOS, and are not able to be grandfathered, are non-compliances against the Part 139 MOS.
9 Upgrading or replacing an existing aerodrome facility

9.1 Introduction

9.1.1 Where an aerodrome operator decides to change a facility, or alter the operating capability of the aerodrome, the aerodrome operator must bring those specific elements of the facility that are impacted by the change into full compliance with the revised Part 139 MOS. All other elements of the facility which are not being changed, or are not impacted by the change, can remain grandfathered until they themselves are either replaced or upgraded provided that the operation and maintenance of the existing grandfathered facility does not negatively impact the safe operation of an aircraft.

9.2 Case examples

9.2.1 Example 1: An aerodrome operator decides to introduce scheduled international air transport operations

9.2.1.1 In this situation the aerodrome facility must be upgraded so that all elements of the revised Part 139 MOS that are applicable to aerodromes with scheduled international operations are bought into compliance, these include:

- provision of a 150m graded runway strip width
- provision of a 240m runway end safety area (RESA) at each runway end
- runway surface friction levels must be continuously achieved (use of an ICAO accepted continuous friction measuring device is mandatory)
- if the threshold is temporarily displaced, provision of runway threshold identification lights (RTILs) are required
- provision of applicable movement area guidance signs (MAGS)
- if an aerodrome beacon is provided it must give 2 alternating flashes, 1 white and the other coloured green
- provision of a T-VASIS or a double sided PAPI
- distribution of apron floodinglighting across a 3-phase power supply system.

9.2.1.2 Although not mandatory, CASA recommends an operator intending to introduce scheduled international operations also considers:

- if the threshold is permanently displaced, identifying the threshold location with runway threshold identification lights (RTIL)
- providing A-VDGS on all parking positions equipped with a passenger loading bridge.

9.2.1.3 Other grandfathered elements of that same facility that are not directly applicable to scheduled international operations can remain grandfathered to the applicable standard.
9.2.1.4 As systems and processes are not subject to grandfathering, the following requirements associated with the introduction of scheduled international operations must be addressed:

- for each apron with international operations, the aerodrome manual must be updated to include the following information:
  o location, elevation and designation of each aircraft parking position or stand
  o details of any parking guidance provided
  o location and coordinates of all primary and secondary parking positions.
- for each apron with international operations, the AIS must be provided with the following information for publication in the AIP:
  o location, elevation and designation of each aircraft parking position or stand
  o details of any parking guidance provided
  o location and coordinates of all primary and secondary parking positions.
- preparation and publication of a Type A chart
- obstacle lighting inspection requirements (if applicable, at least once in every 24-hour period
- establishing and implementing aircraft parking control procedures
- ensuring that airside vehicles operating airside are fitted with a dedicated rotating, or flashing vehicle hazard light, meeting the specifications prescribed in the Part 139 MOS
- prior to the commencement of scheduled international operations:
  o establishing an aerodrome emergency committee
  o developing an aerodrome emergency plan
  o developing a safety management system that addresses all elements applicable to aerodromes with international operations.

9.2.2 Example 2: An aerodrome operator is approached by an aircraft operator to change the operating capability of the runway from a Code 3 non-instrument runway to a Code 3 instrument runway (non-precision or precision).

9.2.2.1 In this situation all elements of the standards that are applicable to an instrument runway must be complied with:

- minimum separation distances between runway centreline and taxiway centreline must be increased, likewise the separation distances for parallel runways (if applicable)
- flyover area to be established and incorporated in total strip width requirement (280m overall runway strip would need to be met)
- resurvey the approach and take-off surfaces in accordance with the revised approach and take-off dimensions
- establish additional OLS surfaces required for a precision approach runway
  o outer horizontal surface
  o inner approach surface
  o inner transitional surface
  o baulked landing surface.
- new runway centreline marking width requirements to be met
aiming point markings to be provided based on type of instrument classification

the provision of a wind direction indicator may be required at the threshold of an instrument runway

upgrade runway edge lighting to meet the maximum longitudinal spacing intervals of 60m.

9.2.2 Although not mandatory, CASA recommends an operator intending to introduce instrument runway capability provide aiming point markings on a runway that is 30m wide, or less than 1500m.

9.2.2.3 Systems and processes are not subject to grandfathering, therefore the following elements associated with the introduction of an instrument runway classification must be addressed:

− for each instrument runway, updated the aerodrome manual with the following information:
  o geographic location coordinates of the threshold
  o elevation of the midpoint of the runway threshold
− for each instrument runway, provide the AIS provider with the following information for publication in the AIP:
  o geographic location coordinates of the threshold
  o elevation of the midpoint of the runway threshold
− establishing procedures for the monitoring and reporting of obstacles associated with the instrument procedures, and including those procedures in the aerodrome manual
− runway lighting systems for instrument runways must be commissioned by a flight check (in addition to all runway lighting systems requiring a ground check).

9.2.3 Example 3: An aerodrome operator installs lighting on a Code 3 non-instrument runway which only has a 90m strip.

9.2.3.1 The provision of lighting does not in itself change the size or performance of aircraft operations on that runway and therefore, means that the strip can remain grandfathered. The lighting system itself, however, must meet the revised standards.

9.2.3.2 This example assumes the existing 90m strip has been grandfathered as it complied and has been maintained to the standard in effect at the time the aerodrome was constructed (normally a 150 m strip would be required).

9.2.4 Example 4: The operator of an existing certified aerodrome is considering upgrading their facility from a code 3E to a code 4E in order to accommodate larger aircraft type.

9.2.4.1 In this situation all elements that relate to the code number 4 would be required to be upgraded to meet the new standards, this would include:

− adhering to the minimum runway strip width requirements (graded and flyover)
− adhering to the longitudinal slope values as they apply to individual segments of a code 4 runway, and runway strip
ensuring the provision of a minimum 90m RESA commencing at the end of the runway strip. A RESA must, as a minimum, be twice the width of the associated runway.

9.2.4.2 The standards related to the other elements of the facility that are not applicable to code 4 can remain grandfathered to the former standard.

9.2.5 Example 5: The operator of an existing certified aerodrome is considering upgrading their facility from a code 3C to a code 3D facility.

9.2.5.1 In this situation all elements that relate to the code letter D would be required to be upgraded to meet the new standards.

- runway shoulders are required to be introduced (mandatory for code D, E or F runways)
- for applicable taxiways the following dimensions must not be less than the code D specifications:
  - taxiway shoulders
  - width of taxiway strip on each side of the taxiway
  - width of graded area of taxiway strip
  - taxiway/taxilane separation distances
  - separation distances for an aircraft from an object, structure or parked aeroplane.

9.2.5.2 The standards related to the other elements of the facility that are not applicable to code D can remain grandfathered to the former standard.

9.2.6 Example 6: An aerodrome operator is conducting routine maintenance of their apron line marking. The standard for the marking in the revised Part 139 MOS has changed, does the aerodrome operator need to alter the marking to comply with the new standard?

9.2.6.1 Where the aerodrome operator is merely applying paint to an existing marking to ensure the marking remains visible, then this is considered a like for like replacement on the existing surface in the form of maintenance and does not require any change. However, where a marking is in any way modified, moved, or the underlying surface is replaced, then that is considered a replacement and the revised standard applies.

9.2.6.2 However, if the surface to which the marking is located is subject of an overlay or surface enrichment which would otherwise obscure the existing marking(s), then the marking(s) are considered to be a replacement even if the intent is to remark the markings in the former identical location.
10 'Opting in' to the revised standards

10.1 Introduction

10.1.1 An aerodrome that has a facility that has grandfathering status may choose to, in the absence of an upgrade or replacement, revoke the grandfathered status and opt-in to the revised Part 139 standard if the revised standard:

− better aligns with their operational requirements
− provides a safety enhancement
− affords regulatory relief.

10.1.2 By electing to opt-in to the revised standard, the applicable facility will be bound to the revised standard and cannot be grandfathered to a previous standard.

10.2 What must I do if I want to opt-in to the revised Part 139 standard?

10.2.1 To opt-in to a standard in the revised Part 139 MOS, the aerodrome operator must:

− inform CASA in writing of the intention to opt in, the date of effect must also be provided
− record in the aerodrome manual the date and the facility
− remove references to the grandfathering status of that facility from the aerodrome manual.

10.2.2 The aerodrome operator should maintain a record of CASA's written acknowledgement that the aerodrome operator has opted in.
11 Management of non-compliant facilities

11.1 Non-application of the standards

11.1.1 Part 11 of the CASR in conjunction with the Part 139 MOS permits CASA to provide aerodrome operators with an approval or exemption to the standards in the Part 139 MOS that are not otherwise covered under the grandfathering provisions.

11.1.2 Enduring approvals may be more suitable than an exemption for matters that cannot be brought into compliance within a 3-year period. For guidance on the process to apply for an approval or an exemption, refer to AC139.A-04 Applying for aerodrome authorisations, exemptions and approvals.

11.1.3 CASA’s consideration on such a request will depend on the supporting safety case which provides a risk-based analysis of the site-specific situation and includes reasoning as to why the applicable standard cannot be achieved.

11.1.4 Instruments of exemption or approval issued to the aerodrome operator must be recorded in the aerodrome manual.
12 Identification and management of non-preferred elements

12.1 Introduction

12.1.1 The revised Part 139 MOS may provide multiple options for compliance in the form of a standard which is intended to provide aerodrome operators with additional flexibility.

12.1.2 Unless otherwise stated, where the preferred means is impractical, the minimum values must be achieved, and maximum values must not be exceeded.

12.2 What must I do if it is impracticable to achieve the preferred matter, thing or value?

12.2.1 Where a preferred matter, thing or value stipulated in the revised Part 139 MOS cannot be achieved, the aerodrome operator must record the following information in the aerodrome manual:

− a statement to that effect
− the reason for non-compliance
− the alternative matter, thing or value that is complied with.
Appendix A

Threshold criteria - scalable certification structure
### Air transport passenger numbers (per year)

** must be considered concurrently with aircraft movement numbers (refer bottom of table)

<table>
<thead>
<tr>
<th>Requirement</th>
<th>0 &lt; 10 000</th>
<th>10 000 &lt; 25 000</th>
<th>25 000 &lt; 50 000</th>
<th>50 000 &lt; 350 000</th>
<th>350 000 + International</th>
</tr>
</thead>
<tbody>
<tr>
<td>Safety / risk management * Review concurrently with items (1) and (2)</td>
<td>Risk management plan</td>
<td>Safety management system</td>
<td>ICAO Annex 19 Safety management system</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Technical inspections * Review concurrently with items (6), (7) and (8)</td>
<td>Validation only</td>
<td>Split technical inspection (some elements may be conducted bi-annually)</td>
<td>Full technical inspection</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Emergency Plan * Review concurrently with item (5)</td>
<td>May be covered under local emergency management arrangements</td>
<td>Aerodrome Emergency plan</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Emergency committee</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Aerodrome Emergency committee</td>
</tr>
<tr>
<td>Emergency preparedness * Review concurrently with item (4)</td>
<td>Emergency induction program</td>
<td>Emergency exercises (modular testing / full scale exercise)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wildlife hazard management * Review concurrently with item (5)</td>
<td>Wildlife hazard management plan recommended where a high wildlife risk exists at the aerodrome</td>
<td>Wildlife hazard management plan</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Aircraft movement numbers (per year)

** must be considered concurrently with air transport passenger numbers (refer top of table)

1. Risk management plans are required for more than 20 000 up to but not including 50 000 aircraft movements.
2. A safety management system is required for 100 000 or more aircraft movements.
3. An Aerodrome Emergency Plan is required for 100 000 or more aircraft movements.
4. Emergency exercises (modular testing / full scale exercise) is required for 100 000 or more aircraft movements.
5. A wildlife hazard management plan is required for 100 000 or more aircraft movements.
6. Annual validations are required for aircraft movement numbers below 20 000.
7. ‘Split’ Technical Inspections are required for 20 000 or more up to but not including 100 000 aircraft movements.
8. Technical Inspections are required for 100 000 or more aircraft movements.
Appendix B

Applying the grandfathering provisions
APPLICATION OF AERODROME STANDARDS

Applying the Grandfathering Provisions

- Does the facility comply with the OIS and its related parts?
- Has the facility ever been subject to a significant physical or functional upgrade?
- Is the grandfathered facility in accordance with MOS 2, or is it being grandfathered for the first time?
- Does the facility have an IS or a previous IS standard (AER, API, RPA, MOS)?

Contact CASA for guidance.
Appendix C

Transition timeline