



Unmanned Aircraft CASA Regulations

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Current Regulations for UAS

- CASR Part 101 – Unmanned Aircraft and Rockets
 - Regulations for the operations of UAS
- CASR Part 21 – Certification and Airworthiness Requirements for Aircraft
 - Regulations for Certificate of Airworthiness
 - Restricted category and Experimental category
 - Type Acceptance of Imported Aircraft
 - Acceptance of aircraft certificated in certain recognised countries
- Other regulations relating to registration and maintenance.



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Current Regulations for UAS

CASR Part 101 – UAS Operating Rules

- To operate a small UAS (under 150 kg)
 - No airworthiness requirements
 - Operational requirements that may include an Operating Certificate
- To operate a large UAS (above 150 kg)
 - Personnel approval and UAS Operating Certificate
 - Certificate of Registration
 - Maintenance Program
 - Special Certificate of Airworthiness
 - Experimental or Restricted category



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Regulatory Development for UAS

Where we are now

- UAV certification project established
 - first step towards drafting legislation
 - aim is to meet industry expectations for certification of large UAVs for restricted category operations once design standards are available.
- Terms of Reference have been accepted
 - issue an Advisory Circular for a UAS Experimental Certificate (completed July 2006)
 - amend existing certification regulations to address large UAS
 - develop a certification framework for small UAS
- CASA represented on two standards committees
 - RTCA Committee SC-203 – MASPS for Unmanned Aerial Systems
 - ASTM F38.01 – Airworthiness Standards for UAS



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Regulatory Development for Large UAS

Issues for Consideration

- CASA Managerial Issues
 - CASA corporate priorities
 - CASA resources
- Definition of a UAS
 - UAV to be treated the same as any other aircraft
 - define UAV (platform, ground station and associated links) as an aircraft
- Harmonisation
 - CASA is committed to the principles of harmonisation of regulations and standards with the FAA and EASA where appropriate



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Regulatory Development for Large UAS

Issues for Consideration

- Design Standards
 - No civil UAS design standards available at this time
 - CASA represented on two standards committees – RTCA and ASTM
 - CASA is no longer in a position to develop local design standards
 - CASA will accept FAA and EASA UAV design standards when available
 - CASA will consider other civil design standards
- Legislative Process
 - process is complicated and time consuming
 - CASA has no control over legislative drafting
 - project is subject to both Government and CASA legislative priorities



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Regulatory Development for Large UAS

Issues for Consideration

- Part 21 Amendments
 - Relatively minor amendment required
 - Classify the UAS as a Special Class of aircraft
 - Amend Restricted and Experimental rules to reflect UAS
 - Define UAS in legislation
 - Review Part 101 and Part 21 for consequential amendments



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Regulatory Development for Small UAS

Issues for Consideration

- Current Rules
 - Part 101 provides for operation of UAS under 150 kgs
 - No rules relating to certification of this class of UAS
 - Certification considered to be more difficult than large UAS to legislate
 - Scope for manufacturer self certification (similar to Light Sport Aircraft)
- Timescale
 - several years off yet



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Summary

- Current operating rules provide for UAVs to be operated in both experimental and restricted categories
- Advisory Circular AC 21.43 is available for issue of an experimental certificate for a UAV
- Certification regulations require some amendment to address UAV certification
- Regulatory development is an involved process and will take considerable time
- Has a low priority but progress is being made



QUESTIONS?

