The Directorate of Aviation Engineering within the Defence Aviation Safety Authority (DASA) is primarily responsible for providing specialist structural integrity services including:

- Management or oversight of contractor-managed, Aircraft and Engine Structural Integrity Programs and major structural integrity projects.
- Development of Non-Destructive Testing and Bonded Structures Technology procedures, training and testing for technicians.
- Development and maintenance of the core Aircraft Structural Integrity / Engine Structural Integrity competencies and capabilities that support Defence through DASA, Defence Science Technology Group and Industry partnership.
- Providing Aircraft Structural Integrity / Engine Structural Integrity subject matter expert advice to Defence on behalf of DASA, including liaising with Original Equipment Manufacturers (OEM), Continuing Airworthiness Management Organisations (CAMOs) and Defence units and organisations on technical matters, clarifying and tailoring airworthiness codes and Defence Aviation Safety Regulation (DASR), structural certification and verification and Aircraft and Engine Structural Integrity Program health.

The main functions of the Directorate of Aviation Engineering are:

- Assurance
- Certification
- DASR 21 – Aircraft Design, Production and Certification
- Non destructive testing and composite technologies training

Assurance

- Airworthiness oversight of aircraft structural and propulsion systems integrity management for all Defence fixed-wing and rotary-wing aircraft
- Approval of structural integrity elements for changes to type design and repairs
- Approval of aircraft and engine structural integrity management plans
- Provision of SME-advice on aircraft structural and propulsion systems integrity
- Provision of SME-advice for structural integrity issues for fixed-wing aircraft, helicopters and engines

Certification

- Provision of SME-advice on certification, tailoring and clarifying aircraft structural and propulsion systems standards and specifications

DASR Part 21 – Aircraft Design, Production and Certification

- Development of Major Change to Type Design
- Development and approval of Minor Change to Type Design
- Development and approval of Major and Minor Repairs
- Major and Minor classifications
- Development of Non-destructive Testing and Composite Technology Instructions for Continuing Airworthiness

Training

- Provision of specialist training and certification in Non-Destructive Testing and Composite Technologies to Defence and Industry
- Provision of Non-Destructive Testing and Composite Technologies engineering support including the development of procedures to support the continuing airworthiness and Aircraft Structural Integrity of Defence platforms
- Provision of SME-advice on Non-Destructive Testing and Composite Technologies issues
- Coordination of Aircraft Structural Integrity and Propulsion Systems Symposia
- Facilitation of the Defence Helicopter Structural Engineering Familiarisation Course

Further information on the DASA and its responsibilities can be obtained at http://www.defence.gov.au/DASP or by emailing dasa.registry@defence.gov.au