

# SOLUTIONS FOR THE AVIATION INDUSTRY

## COMPANY OVERVIEW

Aviation Projects is a multi-disciplinary consultancy, firmly focussed on achieving our purpose of a safe, secure, efficient and sustainable aviation industry.

Our unique understanding of the aviation industry and the strategic relationships we have with regulators and a broad range of industry participants positions us to provide best practice management expertise applicable to airports and flying operations. We also apply our knowledge to solve related problems such as the impact on safe operations of proposed developments, including wind farms.

No project or budget is too big or too small for us, as we are adept at providing the right resources to achieve time, quality and cost objectives while delivering the required outcomes.

## AIRPORTS

Aviation Projects specialises in the provision of management expertise to airport owners and operators, regulators and service providers. We can assist with airport planning, management and operations with a focus on the development of non-aeronautical activities as an important source of revenue for airport owners. Aviation Projects is a Corporate Member of the Australian Airports Association.

### Planning

- Strategic and operational planning, including preparation of Airport Master Plans
- Options assessments/upgrade studies
- Business planning
- Applications for exemption from regulatory requirements

### Management

- Negotiate with operators regarding service provision, fees etc
- Prepare funding submissions
- Liaise with contractors, concession holders and tenants
- Provide advice on financial statements, costings, budgets etc, including landing fees and charges
- Project management, including implementation of Airport Master Plans
- Marketing and corporate communications

### Operations

- Compliance with relevant Regulations and Standards, including:
  - Civil Aviation Safety Regulations and Manual of Standards Part 139
  - Aerodrome Manuals
  - Transport Security Programs
  - Advise on operational issues, such as implementing safety/technical inspection recommendations, implementation of compliance programs etc
  - Safety Management Systems
  - Drug and Alcohol Management Plans
- Project management
- Method of Working Plans
- Design, preparation and management of manuals and documentation
- Safety/risk management program development, implementation and support

## FLYING OPERATIONS

The growth in civil aviation flying activities around the world has led to a shortage of flying operations expertise. Our extensive experience in this field enables us to provide targeted expertise to assist with the full range of aviation planning, compliance and management programs.

## AERONAUTICAL STUDIES AND RISK MANAGEMENT

Where aviation impacts have been identified or deviations from applicable regulations, standards or guidance are necessary, we can assist regulators, developers or operators to achieve desired outcomes through preparation of an aeronautical study or impact assessment.

We can assist with the identification of potential risks associated with a proposed course of action and development of a treatment plan in order to maintain an acceptable level of safety through preparation of a risk assessment.

Expert witness services can also be provided.

### Airports and Flying Operations

- Deviation from regulations, standards, guidance or acceptable means of compliance

### Infrastructure

- Objects, buildings or structures within the vicinity of an airport
- Gaseous efflux

### Wind Farms

- Aviation hazard/impact assessment
- Obstacle lighting requirements

### Airspace

- OLS/PANS-OPS studies
- Airspace and instrument procedure requirements pertaining to airport upgrade projects





## PROJECT SHOWCASE

### **CAPE ALUMINA LTD**

#### **PROJECT DETAILS – Aerodrome Options Assessment - Pisolite Hills Bauxite Project**

Cape Alumina was undertaking a feasibility study and preparing an environmental impact statement for its Pisolite Hills Bauxite Project in Western Cape York. Two aerodromes – Agnew and Mapoon are located within an acceptable distance to the project site; however they do not meet the applicable standards to be able to support the design aircraft (Dash 8-300). Aviation Projects was commissioned to prepare an assessment of the work and capital expenditure required to bring each aerodrome to compliance with the applicable regulations and standards, as well as an appreciation of ongoing operational costs for each.

### **GOLD COAST DESALINATION ALLIANCE**

#### **PROJECT DETAILS – Permanent Reservation of Airspace for Crane Operations**

Gold Coast Airport (GCA) shares part of its western boundary with the Gold Coast Desalination Plant, operated by GCD Alliance (GCDA). GCDA requires the operation of cranes at the plant from time to time in support of maintenance and repair activities. Sometimes the nature of the activity requires a crane to penetrate Gold Coast Airport's obstacle limitation surfaces (OLS). On some occasions, due to safety or operational considerations, cranes are required to be raised at relatively short notice and operated so that they penetrate the OLS.

Now, due to the mandatory requirement to receive the assessment of a number of agencies before making a decision, the process of approving a short term controlled activity takes GCA longer and potentially impacts GCDA's ability to maintain an acceptable level of safety when cranes need to penetrate GCA's OLS at short notice, but are not able to due to the time required to complete the approval process.

To simplify and standardise the decision making process for these short term controlled activities, a standing approval has been arranged for short term penetrations of GCA's OLS, on the basis of a Risk Management Program (RMP) we prepared for GCDA that is acceptable to the applicable agencies (including CASA and Airservices Australia) and GCA, and implemented by a formal Memorandum of Understanding.

### **NORTHERN PENINSULA AIRPORT**

Northern Peninsula Airport serves the communities of the Northern Peninsula Area on the northern tip of Cape York. Northern Peninsula Area Regional Council has engaged us under a long standing arrangement to provide support to operations at the airport, including delivery of the following projects:

- Aerodrome Certification including development of Aerodrome Manual and SMS Manual
- Name change from Bamaga/Injinoo to Northern Peninsula Airport
- Operational and Method of Works Planning for pavement rectification tasks
- Aerodrome Emergency Plan exercise planning and conduct
- Transport Security Program development and implementation
- Drug and Alcohol Management Plan development and implementation
- Review and implementation of aeronautical fees and charges

### **SUNSHINE COAST AIRPORT**

Sunshine Coast Airport serves the Sunshine Coast Region and supports regular jet RPT services as well as training and charter operations. Continued growth in aeronautical and commercial activities has initiated planning for a new longer runway 13/31 capable of supporting widebody international jet services. Sunshine Coast Airport has engaged us on a long standing arrangement to provide specialist operational safety/risk advice in support of a number of activities, including:

- Masterplan Implementation Project (new runway)
- Safety Management System development and implementation
- Narrow runway operations
- Name Change Project
- Transport Security Program Security Risk Assessment

### **UNION FENOSA WIND AUSTRALIA**

#### **PROJECT DETAILS – Aeronautical Impact and Night Lighting Assessment - Crookwell 3 Wind Farm**

Crookwell Development (a subsidiary company of Union Fenosa) has applied to the NSW Department of Planning for approval to build between 25 and 35 individual wind turbines on two separate parcels of land collectively known as Crookwell 3 Wind Farm.

We were tasked with the preparation of an Aeronautical Impact and Night Lighting Assessment to address the Director General's Requirements, which included consideration of cumulative impacts, visual impacts (of night lighting), potential impacts on aviation safety and consultation.