

GAYE FRANCIS CV

DIRECTOR & CONSULTING ENGINEER



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With more than fourteen years in the industry, Gaye Francis is a highly competent risk and due diligence engineer and project manager, with a diverse range of project experience.



She is one of the Directors at Melbourne-based risk management and due diligence engineering consultancy, R2A and shares her expertise on a daily basis to help organisations minimise risk and maintain compliance with the law. Through her work with R2A, she has collaborated with both private and government clients across a wide spectrum of industries including road, rail, marine, mining, aviation and water.

Graduating from the University of Melbourne in 1997 with a Bachelor of Engineering (Chemical), Gaye started her career with R2A, and today, as one of R2A's Directors, Gaye's involvement in the company spans all aspects of the practice. She also plays a critical role overseeing the consulting stream.

In addition, Gaye's role sees her working on the preparation of conference papers and training courses, and on-going development of the R2A method of work - a unique approach to due diligence and risk management that protects the client and helps in the achievement of project objectives.

Outside of R2A, Gaye is involved with the professional engineering community and she has sat on a number of boards and committees for a variety of organisations and associations

EDUCATION

University of Melbourne
Bachelor of Engineering (Chemical)
1997





CONSULTING EXPERIENCE

DIRECTOR & EXPERT RISK MANAGEMENT & DUE DILIGENCE CONSULTANT, R2A PTY LTD

Dates: April 1998 - Present

R2A Pty Ltd is an independent due diligence engineering practice, specialising in the provision of engineering consulting services, expert due diligence, risk management advice, risk management tools, risk management application, education and general trouble shooting.

As one of the Directors at R2A, Gaye works closely with clients and is involved with all aspects of the business.

As one of the Director's of R2A, key roles include:

- Engineering due diligence and organisational risk control
- Construction of due diligence arguments and risk and reliability based models for common law criteria
- Preparation of safety case arguments demonstrating due diligence
- Project due diligence for performance and delivery of major infrastructure projects
- Workshop facilitation.



PROFESSIONAL EXPERIENCE

PORT HEDLAND PILOTAGE REVIEW & SAFETY MANAGEMENT SYSTEM DEVELOPMENT - PORT HEDLAND PILOTS

In July 2010, R2A completed a due diligence safety review for the provision of pilotage services at Port Hedland, Australia's largest port in terms of tonnage. The outcomes were included in the Pilotage Operations Safety Management System (POSMS) for the port.

A generalised common law safety case approach was used to document that all statutory, regulatory and common-law requirements have been met. It consisted of a number of arguments that demonstrate that all reasonable practicable precautions are in place for all credible critical issues including grounding, collision and allision. Issues were identified on a zonal basis.

TAUPO AERODROME AIRSPACE COLLISION RISK MODEL APPLICATION - CIVIL AVIATION AUTHORITY, NEW ZEALAND

As part of a larger aeronautical study by the Civil Aviation Authority, Gaye provided risk advice and modelling expertise into the safety implications of the different risk mitigation options for the Taupo aerodrome airspace. Generative interviews were completed with Taupo airport stakeholders including representatives from the commercial airlines, Airways, pilot training organisations, sky diving operators, helicopter operators, the Float Plane operator, charter service operators, the Taupo District Council as the airport owner, the Airport Operational and Safety Committee and the Airline Pilots Association.

TRAM PROCUREMENT PROJECT - DEPARTMENT OF TRANSPORT, VICTORIA

Gaye was the nominated project manager for various risks, reliability and due diligence studies relating to the Tram Procurement & Support Infrastructure Project. The project was responsible for the procurement of fifty new, low floor trams as well as associated depot, power supply and infrastructure upgrade works.

OPTIONS REVIEW - GLADSTONE AREA WATER BOARD

Gaye was part of the R2A team engaged to assess the options being considered to address the critical infrastructure issues identified in R2A's original Critical Asset Due Diligence Review report and subsequent maintenance issues identified by GHD.

The options were reviewed against project critical success factors including fit for purpose, design life, capital cost, whole of life cost, timing, operational and maintenance issues, safety, environment and social considerations during a workshop of key stakeholders.



PUBLICATIONS

RISK & RELIABILITY - ENGINEERING DUE DILIGENCE

8th Edition (2010). R2A Pty Ltd. Melbourne.

AFFILIATIONS

- Deputy Chair, Engineers Australia Women in Engineering National Committee 2010 - 2013

MEMBERSHIPS

- Committee member Victorian Women in Engineering, June 2009 - 2012
- Deputy Chair, Engineers Australia Women in Engineering Committee 2010 - 2013
- Organising Committee 15th International Conference for Women Engineers & Scientists 2011 (ICWES15)
- Emerging Leaders pilot program, Engineers Australia, 2008
- Committee member for the revision of the Safety Case Guidelines, Engineers Australia 2007
- Co-chair Women in Engineering Victoria Committee, Feb 2007 - June 2008
- Member, Engineers Australia 2003
- Chairperson Drafting Committee Safety Case Guidelines Engineers Australia, 2002



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