

ALLAN REID

PRINCIPAL

QUALIFICATIONS

- ▶ Bachelor of Technology - Mechanical Engineering

PROFESSIONAL AFFILIATIONS

- ▶ Chartered Professional Engineer
- ▶ Member Institution of Engineers Australia
- ▶ Member - American Society of Mechanical Engineers



PROFESSIONAL BACKGROUND & EXPERIENCE

Allan provides risk management, commercial, technical and project management advisory services to mining, power and mineral processing sector clients.

As a Principal of Flagstaff Consulting Group, Allan has undertaken a wide variety of assignments including: project leader for the Ensham coal mine flood recovery and dragline re-construction; project gateway reviews; contracting strategies and negotiations; and field construction work trouble shooting. Allan has advised on and participated in feasibility studies (order of magnitude through to DFS) for the mining, mineral processing, power and port sectors, both within Australia and off-shore. One of Allan's specialities is the facilitation and conduct of risk and range analyses, and monte carlo simulation of outcomes, for project estimates and time schedules.

Allan is also active in maintenance contracting through separate a partnership, and through this partnership has managed shutdowns and overhauls for remote mine infrastructure.

In a career in project development spanning in excess of 30 years including extended employment in senior executive roles with three major Australian contractors, Allan's milestone projects include:

- ▶ Alcan's Gove (G3) alumina refinery expansion materials handling and infrastructure works;
- ▶ Century Zinc port construction at Karumba on the Gulf of Carpentaria;
- ▶ Blackwater coal handling and preparation plant;
- ▶ Callide C power station coal handling plant, electrical works and civil works;
- ▶ Tarong North civil works and boiler erection; and
- ▶ Norman River bridge, the first public/private alliance in Queensland.

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During one appointment, as manager of International engineering business for Barclay Mowlem, Allan was responsible for international projects including:

- ▶ Pha Lai (Vietnam) power station coal handling plant;
- ▶ Kelanis (Indonesia) coal handling plant upgrade and modification;
- ▶ Indokodeco (Kalimantan) overland conveyor; and
- ▶ Assignments in Brazil, Chile, Peru, Hong Kong and Malaysia.

Before this Allan was Queensland Manager for Allco Steel undertaking a variety of contracts for the mining, resource and energy sectors including gold mines, petrochemical plants and water treatment plants, and earlier he was mechanical construction manager for the Hornibrook Group on projects throughout Australia. These professional appointments were preceded by a cadetship and two year graduate assignment in South Africa with Tubemakers of Australia.

Allan holds several official certifications under the Queensland Coal Mining Act, and has undertaken an extensive range of professional development courses in safety, mining and mineral processing.

SPECIFIC PROJECT EXPERIENCE

A selection of projects, which Allan has managed or controlled:

- ▶ Estimate and schedule for RTA Gove industrial waste water neutralization plant recommissioning;
- ▶ Estimate reviews for RTA Gove ongoing capital works;
- ▶ Greenfield bauxite mine and alumina refinery for Alcan, Madagascar: level 1 feasibility study;
- ▶ Alumina export system study for Gove bauxite mine and refinery including shiploader: estimate preparation and review, project execution plan;
- ▶ Gove slip-formed alumina storage silo and handling equipment;
- ▶ Kamsar, Guinea, West Africa alumina refinery: pre-assembled module construction technique assessment; red side capital estimate review and adjustment;
- ▶ Weipa upgrade project development including the bauxite ROM, crushing and screening, beneficiation plant, stockyards and port;
- ▶ Boyne Island Aluminium Smelter Potline 3 materials handling works;
- ▶ Management of DFS's for the open cut and underground expansions for Yancoal's Moolarben mine;
- ▶ Risk and range analyses for Peabody studies;
- ▶ Risk outcome simulation, range analyses for GLNG capital estimate.
- ▶ Owner's team participation including conception of schedule, estimate and schedule review and risk simulations for long wall punch mine infrastructure redevelopment, BMA;

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- ▶ Estimate and schedule reviews, and Monte-Carlo risk simulation for contingency calculation for Cement Australia's, Port Kembla cement and slag handling, storage, grinding and despatch facility;
- ▶ Numerous estimates, schedules and contract negotiations on behalf of marine works contractor;
- ▶ Estimate reviews for steel fabricator;
- ▶ Coal handling plants, plant upgrades and various other works for Mt Piper, Bayswater, Vales Point, Liddell, Swanbank, Tarong, Callide and Stanwell Power Stations;
- ▶ Mentoring of contractor's project manager for the turnkey design and construction of malting plant;
- ▶ Estimate review for BMA's Caval Ridge greenfield coal handling and preparation plant;
- ▶ Explosives grade Ammonium Nitrate plant for Moranbah: target estimate review, facilitate PMC contractor appointment, independent estimator role, project steering committee;
- ▶ Brisbane City Council: project gateway reviews;
- ▶ Project leader for the Ensham Mine flood rehabilitation project.
- ▶ Coal mine infrastructure including Jameson Cell flotation plants for Riverside and Goonyella mines;
- ▶ Washery upgrade at Curragh;
- ▶ German Creek mine overland conveyor;
- ▶ Hay Point coal port expansion and upgrade;
- ▶ Various assignments for Solomon Islands, Lihir, Cracow, Kalgoorlie and Horn Island gold Mines;
- ▶ Maintenance works at Argyle diamond mine
- ▶ Groote Eylandt manganese mine dump station bridge replacement;
- ▶ QCL cement bagging plants at Townsville and Gladstone;
- ▶ SEQ Pacific Motorway package in joint venture with John Holland Construction;
- ▶ Coal and sugar handling facilities for Mackay Sugar refinery;
- ▶ Raw sugar truck receiving and transfer station at CSR Plane Creek Sugar Mill;
- ▶ QCL East End limestone quarry stone handling, crushing and train loading;
- ▶ Queensland Magnesite Kunwarara magnesite mine and beneficiation plant;
- ▶ Multiple projects involving wharf cranes, ship loaders and dense slurry transportation;
- ▶ Callide B 2x350MW coal fired power station electrostatic precipitators;
- ▶ Mount Thorley coal washery;
- ▶ Riverside mine coal handling plant; and
- ▶ Alcan Kurri Kurri aluminium smelter potline 3 construction (deputy pm) and potline 1 & 2 upgrade.