



Above Typical RAM study analysis

Analysis of RAM models for proposed pipeline

The Woleebee Creek to Glebe Weir Pipeline is a combined pipeline approximately 120 km in length that will transport treated coal seam gas (CSG) water from the QGC Queensland Curtis LNG project for beneficial use by mining and irrigation customers along the pipeline route and in the Dawson Valley Water Supply Scheme. SunWater will build, own, operate and maintain the Woleebee Creek to Glebe Weir Pipeline.

Ausenco Rylson were engaged during the design phase of the project to carry out analysis to determine the inherent reliability, availability and maintainability (RAM) models of the proposed design and to advise on possible alternatives to achieve the desired performance.

A complete model was developed for the pipeline and refined in consultation with the client ensuring that client historical asset performance was captured. Various

design scenarios were modelled to achieve optimum performance. A complete report detailing the analysis, sensitivity and scenario modelling was delivered.

Achievements

- Completed RAM model for proposed design giving stakeholders confidence that reliability, availability and maintainability targets will be met
- Modelled various arrangement scenarios enabling RAM parameters to be understood for various design configurations
- Highlighted key availability constraints in the system
- Made recommendations to the client to improve and optimise system design
- Delivered critical spares listing for the first five years of production.

Location

Queensland, Australia

Business stream

Optimisation

Client

SunWater

Timeframe

2012

Contract type

Optimise

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