## INQUIRY INTO RAIL INFRASTRUCTURE PROJECT COSTING IN NSW

Organisation: Binary Consultants Pty Ltd

**Date received**: 21/09/2011

Hon. Natasha MacLaren-Jones, MLC Chair General Purpose Standing Committee No. 3 NSW Legislative Council Parliament House Macquarie Street Sydney NSW 2000

## 21. September 2011

Dear Hon. MacLaren

Thank for having invited me to submit my considerations on rail infrastructure project costing in NSW.

As a senior consultant in public transport, in particular in rail, I refer my contributions stated below to items (e) *tendering processes* and (f) *any other related matter*. Due to my professional activities all over the world but mostly in Switzerland and in Australia, I focus my submission on key conclusions taken out of my experiences from major rail infrastructure projects.

Rail infrastructures are long-term and expensive investments for sustainable transportation. The successful delivery of rail infrastructure projects within a given cost frame bases upon:

- (1) A long-term vision including an approved master plan, defining project base lines;
- (2) A comprehensive understanding of customer and operational requirements;
- (3) An integrated system approach including a profound understanding of interfaces between sub systems (e.g. electrical electronic mechanical or infrastructure operation rolling stock);
- (4) A consequent top-down approach from conception to planning, design, implementation, approval and putting into operation in the matter of a stepwise coherent fine tuning of project content and cost estimates within a given timeframe;
- (5) The will to go for functional (instead for technical) project specifications based on given norms and standards, as well as on approved type testing by acknowledged institutions and a minimum of project alterations during design and implementation phases;
- (6) A strict and professional project management taking into account correlations of deliveries, time and costs;
- (7) The capability of the responsible staff within the railway organisation for an integrated rail system approach, including dealing with contractors (project controlling, claim management).

Due to the long-term consequences of rail infrastructure projects with major financial implications, the role of the Parliament with respect to rail transportation has to be reconsidered. Major tasks should include:

- Approval of the findings of the Christie Report as a vision for further development of the railway network including subsequent mandatory long- and mid-term rail investment plans (ad 1, 2).
- Closer assessment of RailCorp's human resource management providing sufficient capable key staff at its own institution (ad 2, 3, 5, 7).

Kind regards

Dr Rolf Martin Bergmaier

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