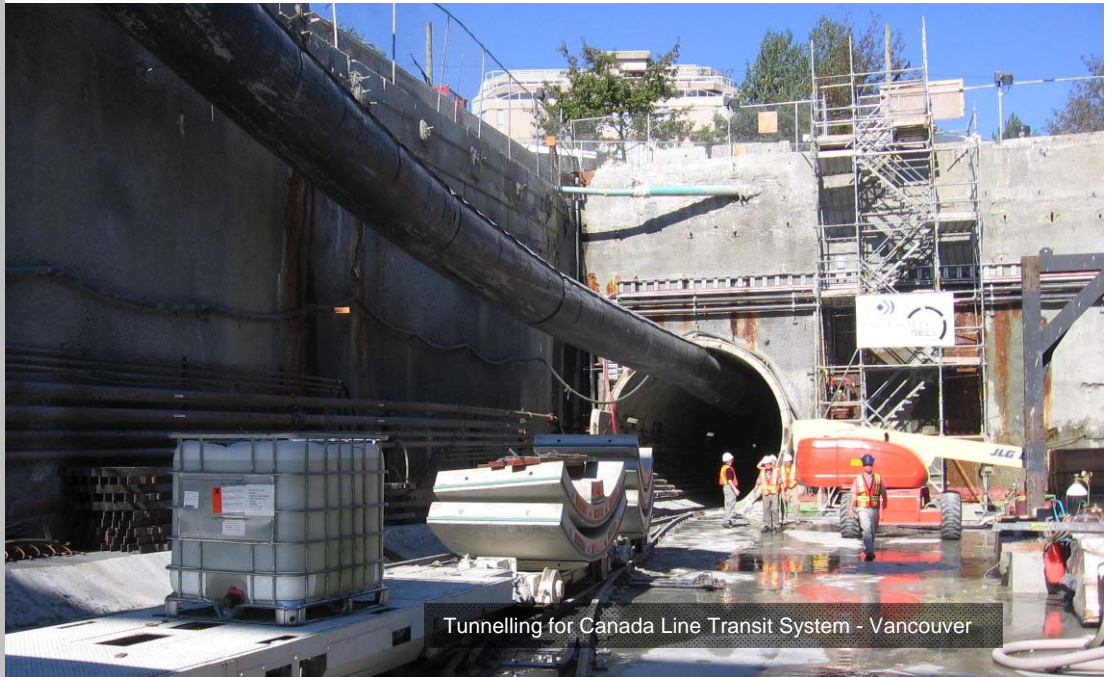


Construction Surveys

Charles Taylor technical



Tunnelling for Canada Line Transit System - Vancouver

Construction Surveys

Construction projects require particularly careful risk management owing to the range of activities in a working environment that is constantly changing.

Charles Taylor technical (CTt) regularly undertakes surveys for insurers and provides risk engineering reports for major projects (often valued in excess of USD 1 Billion) worldwide. These aim to provide comprehensive and accurate information for underwriters and construction companies and recommendations aimed at reducing the risk of losses. Assignments can involve a single inspection at a critical stage or regular inspections during the entire duration of a project.

Projects include:

- Motorways
- Underground railway systems
- Bridges
- Petrochemical Plants
- Refineries
- Gas plants
- Pulp and paper plants
- Solar Panel factory
- Semiconductor plants
- Gas turbine power plants
- Fossil fuel power plants
- Offshore platforms
- Pipelines

To assist with surveys a construction version of KRRIS (CTt's risk rating tool) is used.



Multi-train gas processing plant under construction in Middle East

Case Histories



Solar manufacturing plant in Far East

CTt has been undertaking a programme of risk engineering for insurers and reinsurers on a major new manufacturing facility being built in the Far East for the production of wafers, cells and modules for the solar industry.

Equipment and components from across the world have been obtained. The state of the art plant is expected to commence production in stages starting in 2010.

Remote pipeline

In order to move oil with a high wax content from onshore wells to connect to an existing pipeline a new line had to be constructed through the heart of the forest in Gabon in West Africa. The nature of the oil being transported meant that heating was required at regular stages along the 125 km length of the pipeline to avoid the oil solidifying. The remote site meant that access was only possible by barge through in inland lake and river system or by helicopter and then forest road as was used to undertake the survey. The pipeline involved the construction of a road along its entire length plus river crossings storage tanks and a control centre.



Power Plants

Numerous power plants under construction using varying technologies have been surveyed by CTt often shortly before commissioning activities have commenced. With the high demand for power, plants are sometimes operated before construction has been completed which creates challenging risks for insurers and the need for careful management of simultaneous construction and operational activities. Detailed reports are therefore vital for underwriters to keep up to date with progress and procedures being used to manage risks on sites.

The technical team within Charles Taylor provides risk focussed technical expertise. Services include Technical investigations of failures, Risk Research, Risk Surveys, Loss Estimation and Benchmarking.

A worldwide capability is available drawing on the resources of the CTC Group.

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