



GOVE ALUMINA REFINERY ROPE ACCESS INTEGRITY INSPECTION & MAINTENANCE

NORTHERN TERRITORY, AUSTRALIA



GEOVERT'S ROPE ACCESS TECHNIQUES REVOLUTIONISED MAINTENANCE SERVICES IN THE BAUXITE REFINERY INDUSTRY

PROJECT OVERVIEW:

Geovert developed safe rope access procedures to allow major weld repairs following defect identification in the 30m high precipitation tanks. These techniques developed to allow hard facility maintenance on ropes, revolutionised maintenance in the Bauxite refinery industry.

The Gove refinery was an industry leader with the early adoption of these advanced rope access techniques. They were utilised to undertake site wide inspection and maintenance services. Since Geovert first introduced this cost saving initiative to Alcan (now Pacific Aluminium) in 2006, significant time and cost savings have been delivered to the client.

SOLUTION:

The scope of work completed during the maintenance contract (and on recent shut down contracts) predominantly included NDT inspection and maintenance of the bauxite precipitation tanks along with in-service pressure equipment inspection, fabrication and structural repairs to a variety of the clients assets at the refinery and port.

Geovert performs stress corrosion cracking (SCC) repairs to 40 bauxite precipitation tanks (35m x 12m) involving magnetic particle inspection, ultrasonic inspection, thickness testing and flux core single sided butt welds (up to 20mm), using rope access techniques.

Conventional method for mag particle inspection inside tank

Erect scaffold
4 men x 120 hours

Blast, buff & surface preparation
1 man x 6 hours

Inspection of works
1 man x 3 hours

Dismantle scaffolding
4 men x 120 hours

Total Man Hours = 969

Rope access method for mag particle inspection inside tank

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Abseil to worksite
Blast, buff & surface preparation
Inspection of works
Derig worksite

Total Man Hours = 30

Services related to this project

Rope Access
Inspection NDT
Repairs & Maintenance
Shutdowns
Rigging & Heavy Lifting
Corrosion Management

More information is available online at www.geovert.com