



## PAC Ballast Line Pipe Rack Inspection: Singapore

The largest refinery in Singapore contacted K2 Specialist Services following my meetings with various heads of departments exploring the feasibility of carrying out the inspection scope on the jetty pipework using rope access techniques. The work scope was to inspect pipework related to the J053 PAC rehabilitation project for the Client. The jetty pipework was some 1.7km in length. To inspect this ballast line by conventional means would have required suspended scaffolding, with a cost of approximately S\$900,000. The use of K2 Specialist Services rope access qualified technicians meant the clients was able to bring that down by S\$770,000 with an associated 91% time saving.

### Project Scope

To carry out visual and ultrasonic inspection of the line pipe with particular attention to the pipe support contact points.

### Challenges

- A short time frame to mobilise a K2 Team for this project
- Associated challenges on certification of personnel to OPSOC and operator's SIC chemical induction courses.

### K2 Approach

K2 prides itself on providing advise and qualified, expert teams to suit our clients' needs. Timetabling technicians on existing projects to achieve Client required certification at short notice meant we hit the ground running.

### K2 Comments

"No one had worked extended projects involving Rope Access with the Client before. We invited various heads of departments including HSE to our training facility in Singapore so that we could demonstrate what Rope Access is and share our expertise in onsite training, including work at height, confined space and associated rescues. It was a journey well worth taking given the results we were able to achieve and the project has enabled us to deepen our relationship with a very satisfied new client." (Martin Spencer, K2 Business Unit Manager)

### Client Feedback

"Results: Total saving cost S\$776k; Manhour savings: 12,000

## Lifecycle Services for the Oil & Gas Industry

### Installation Location

Jurong Island

### Engineering Location

Singapore

### Duration

12 days

### K2's team

Rope Access Technicians

Safety Supervisor

NDT Inspector