



## Derrick Leg Changeout: Singapore

The lower port aft leg section of the 180ft Transocean Honor derrick was damaged during the assembly process. A temporary support structure was deemed necessary to support the standing derrick structure while the leg was changed out

### Project Scope

To design, fabricate and install a temporary leg to support the derrick structure while the damaged leg section was removed. Then carry out leg removal and replacement on standing derrick using a rig crane.

### Challenges

- Possibility of high wind loading.
- Derrick sag due to missing leg leading to additional difficulties.
- High degree of urgency to complete the job.

### K2 Approach

Both the lifting plan and engineering design were extensively tested. The Singapore office generated comprehensive method statements and risk assessments for submission to Transocean for approval prior to work commencing.

Communication and teamwork with the shipyard was crucial to achieve the removal and installation of the leg within the time available.

The K2 HSE department were consulted on all phases of the job and approved all plans prior to their implementation on-site.

### K2 Comments

“There is no need to highlight the safety issues raised by this job; leg changeout of a standing derrick pretty much says it all.” Derek Burr, Rig Inspection SBU manager, K2

### Client Feedback

“Excellent job conducted by a professional team done efficiently and safely.”

## Lifecycle Services for the Oil & Gas Industry

### Asset

Transocean Honor, 2011 Baker  
Marine Pacific Class Jackup

### Owner

Transocean

### Location

PPL Shipyard, Singapore

### K2's team

Project Management

Structural Engineers

Design Engineers

Rope Access Qualified Riggers

Rope Access Qualified Welders