Project description: Rig Engineering (RE) was tasked by Transocean Inc. (TOI) to escalate preliminary design /feasibility study to install 3 off accommodation modules to conclusion. The assignment includes on location site survey, detailed design and engineering assessment leading to Class Submittal to American Bureau of Shipping (ABS). This detailed phase includes fabrication (destruct and construct), installation drawings, CG / added weight take off and acts on TOI behalf for Class Submittal to conclusion.

R.E. scope of work
RE was tasked to verify current deck capacity and carry out the Finite Element Analysis of existing and proposed structure with loads coming from UDL, wind and three new accommodation modules (Design and Engineering).

Work had been divided into various stages. Firstly, RE reviewed original general layout of proposed TLQ. A revised proposal which allowed reduction of structural work on the deck, time of installation modules on deck and improved service characteristic was tabled to TOI. Final RE proposal was then processed to conclusion.

Secondly, RE designed new walkway, staircase supporting structure and also checked capacity of existing deck and deck below taking into account normal and accidental combinations of loads which may occur during service.

Key word: Rig Engineering, Transocean, Case Study, Drillship, Temporary Living Quarters, Accommodation, Stairs, Stairway, Walkway

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