**Project description:** Rig Engineering (R.E.) was tasked by a leading drilling contractor to carry out strength verification of existing helideck located on jack-up drilling unit. The finding was used to guide the wall thickness gauging technician to do a thickness evaluation and assess the overall integrity of the helideck ahead of class inspection.

**R.E. scope of work**

R.E. was tasked to perform the following engineering tasks:

- Conclusion of FEA model and do calibration run for current S61N set-up (for DNV). Re run analysis with new helicopter type using DNV class rule requirements.
- Re run analysis with new helicopter type using CAP 437 requirements.
- Re run on the final / agreed combination that would reflect operational requirements and some dispensation from either CAP 437 or DNV’s requirements.

**Engagement Condition**

Upload your problem to us and give us relevant input to allow us to resolve your problem we will need:

1. As built of structure to created 3D FE model.
2. Static and environmental loads of rig.
3. Details information about type of helicopters.

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**Key word:** Rig Engineering, jack-up, helideck, CAP 437, helideck capacity, CFEM helideck inspection, helideck, fitness for purpose