



Rig Name: Sedneth 701

Rig Type: Semi-Submersible

Owner name: Transocean Inc.

Classification Society: ABS

Pertinent code: ABS Modu

Pertinent class rule: ABS

Modu

Code design: ASD

Click below to see 3D model!

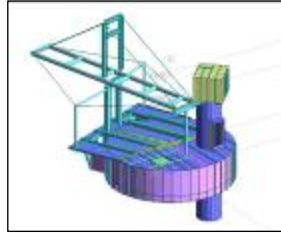


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Project description: Sedneth 701 required flaring off gas via flare boom and burner heads during flowing of the well. EXPRO has been selected to perform this work and will furnish a new 60 feet boom to allow for this operation to take place. Assessment of the existing and revised system, are addressed in 5 stages as follows:

- **Stage 1** addressing new structural setup showing the high stress area out with code allowable.



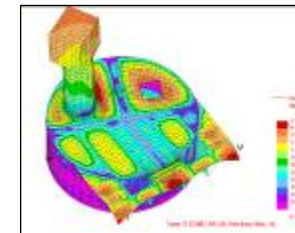
FEA Model



Photo before modification

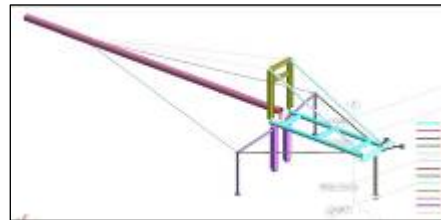


Deformation Plot

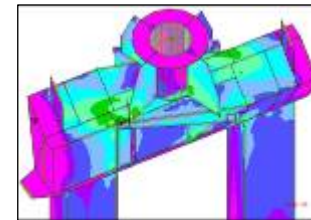
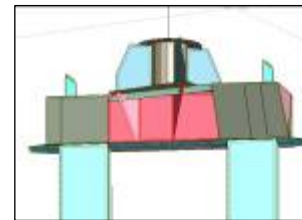


Bending Moment

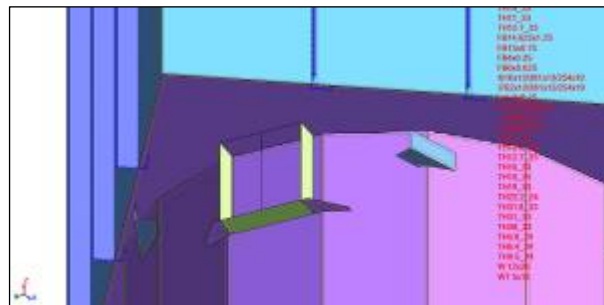
- **Stage 2** addressing the method to strengthen the high stress member to within code allowable.



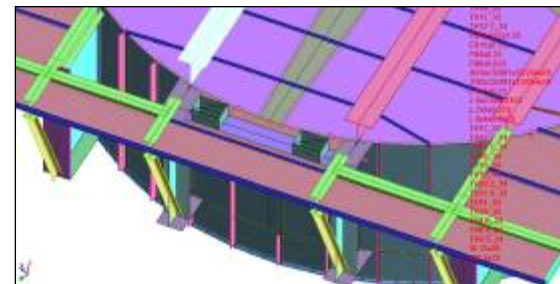
- **Stage 3** detailed assessment of foundation plate at EXPRO pivot plate interface.



- **Stage 4** addressing detailed connection at deck and elevator house interface.



- **Stage 5** addressing detailed main deck plating that assist King Post foundation and connection to elevator house.



R.E. scope of work

Rig Engineering (RE) has been tasked to assist with following stages:

- 1) To assist with rigging arrangement and mounting of the EXPRO foundation plate to rig side.
- 2) To do strength verification to qualify the set up and check adequacy of the structure to deck to receive the new loading regime provided by EXPRO.
- 3) Where required and warranted, generate strengthening / fabrication drawings to allow for the implementation of the new system.
- 4) General ad hoc assistance on material, welding procedure and change out of wire rope replacement to hard pipe with clevis end connections.

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 create 3D FEA model.
2. Static and environmental loads of rig .
3. Details information about new flare boom installation.