



**Rig Name:** DIDON  
**Rig Type:** Converted Tanker.  
**Owner name:** PA Resources.  
**Classification Society:** ABS.  
**Pertinent code:** ABS FPSO.  
**In Collaboration with:**  
 Mooring Systems Ltd.  
 Risertec.

**Project description:** Conversion of conventional tanker in to Floating Production Facility by installing patented Tri Catenary Mooring System (TCMS) and export riser facility at the bow. TCMS system is based on Mooring Systems Limited. (MSL)

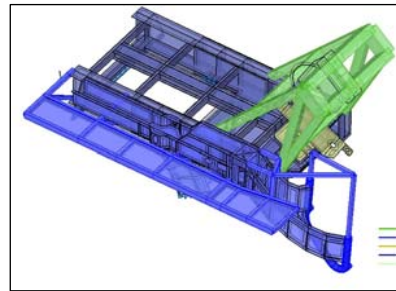


In Progress

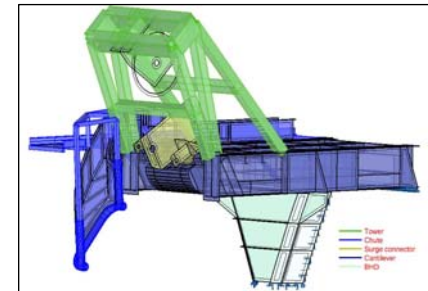


After

### FEA Model

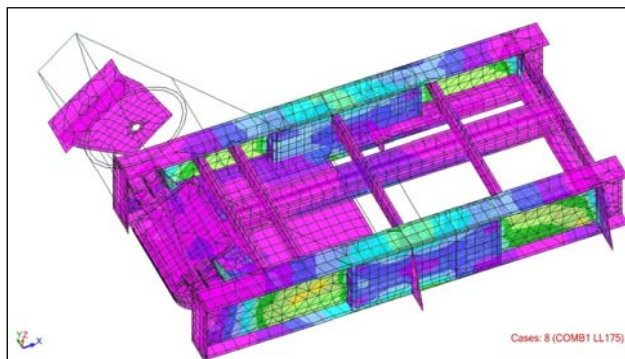


Model Plot

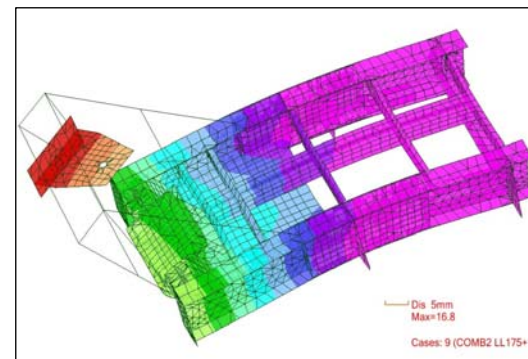


Model Plot

### Results



Stress Plot



Deflection Plot

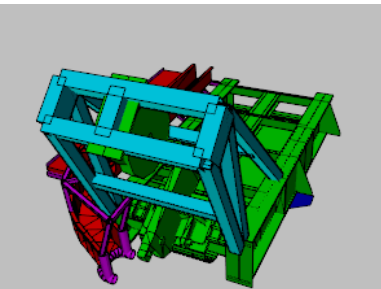
**R.E. scope of work**  
 Rig Engineering (RE) has been tasked by Mooring Systems Ltd. (MSL) to assist with installing MSL Tri Catenary Mooring System (TCMS) and bow modification to allow for the handling of the chain and riser export system. Various structural modelling and strengthening has been done to accommodate the dead man anchor, surge connector, chute and gantry system for chain and export riser handling. This conversion work was done on the American Bureau of Shipping (ABS) classed vessel, DIDON, in to Floating Production Facility. All submittal to ABS has been done on behalf of MSL Limited and consisting of FEA, installation drawing and technical support during the entire shipyard period until the vessel successfully hook up with pre laid TCMS ground chain and the oil is in full flow.

### 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 tanker and mooring system.

Click below to see 3D model!



Get Adobe Reader  
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