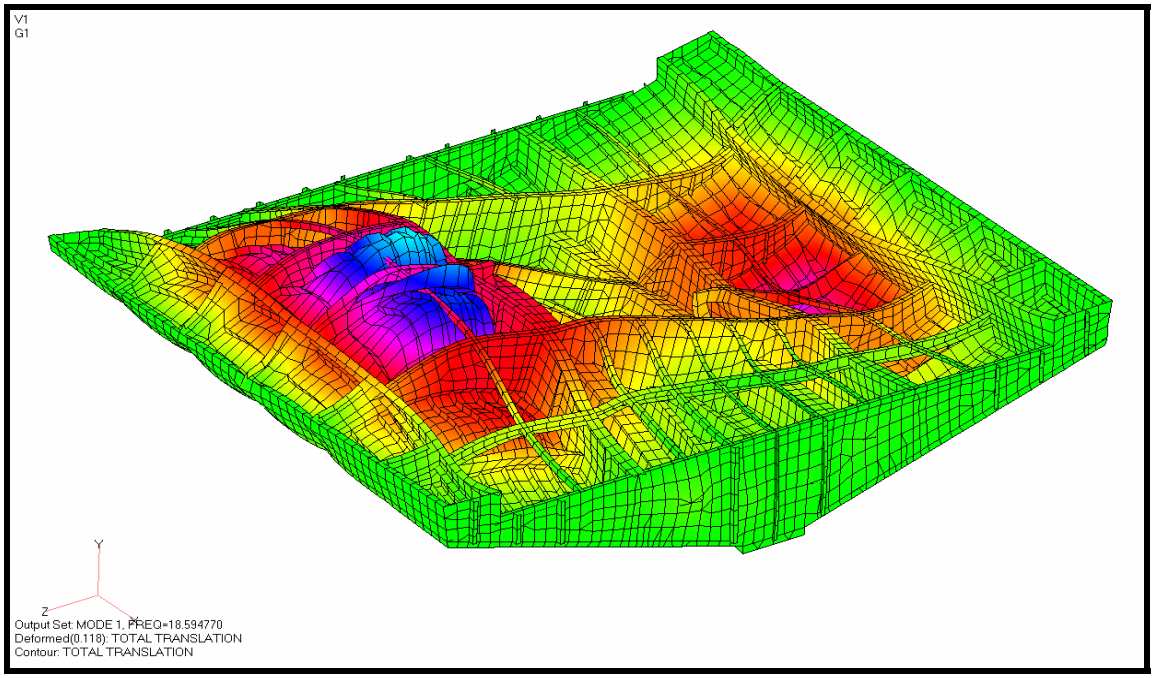
SELECTED PROJECT PORTFOLIO



Vessel: Cape Henelopen Replacement
Operator: University of Delaware, College Marine Studies
Client: University of Delaware

Services Provided:

- Advised Naval Architect on all elements of design relating to airborne and underwater noise and vibration.
- Performed noise predictions using NCE proprietary noise prediction program, "ASAP".
- Performed underwater noise predictions and compared to the ICES noise limits.
- Prepared noise control section of the vessel specifications.
- Conducted sound transmission loss testing to determine optimal engine room insulation treatment approach.
- Determined equipment to be vibration isolated and designed vibration isolation systems for diesel generators, exhaust silencers & piping and various pumps.
- Performed finite element analysis (FEA) of Engine Room hull (photo above), floating deck structure and mast.
- Recommended noise control treatments, including floating floors for crew berthing.
- Participated in shipyard bidding and award selection team.