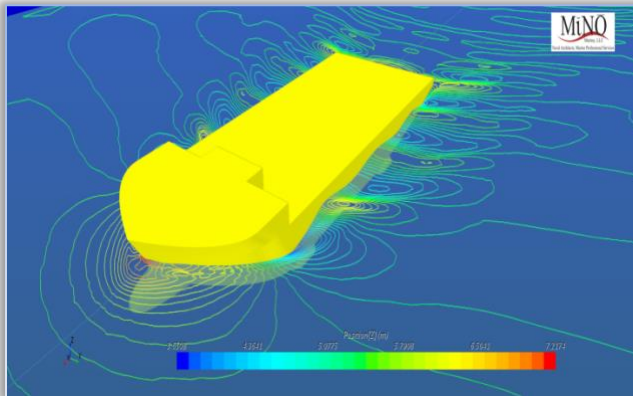
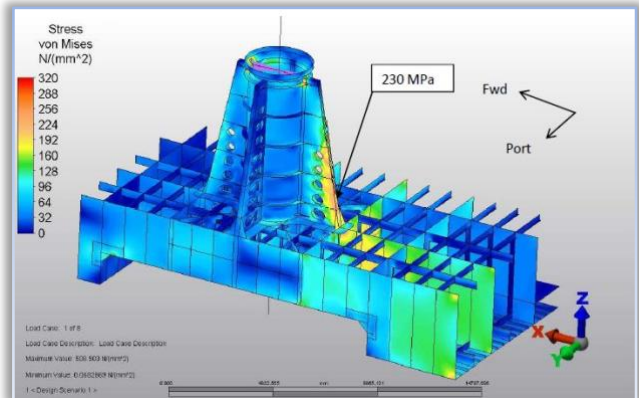




Naval Architecture and Marine Professional Services

Engineering Capabilities



Providing clients in the marine industry with the technical expertise needed to execute projects efficiently and effectively for over 20 years.

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Services and Experience

END-TO-END PROJECT SERVICES

Planning:

- Requirements research, analysis and risk assessments
- Concept development and optimization
- Preliminary design and contract specifications

Construction:

- Detailed design development
- USCG and Class Society plan approval management
- Manufacturing planning, lofting, and shipyard liaison
- Test planning, supervision and analysis
- Documentation development

Post Delivery:

- Engineering, and field support for design modifications
- Mission specific modifications and approval support
- Forensic analysis support

ADVANCED ANALYSIS

Full range of analysis services including:

- Computational fluid dynamics
- Structural finite element analysis
- Vibrations analysis
- Probabilistic stability
- Motions studies
- Seakeeping analysis

EXPERIENCE

Naval Architecture:

- Hull form and arrangements development
- Floatation and stability analyses
- Seakeeping analyses
- Inclines and deadweight surveys
- Structural arrangements and scantlings development
- Weight engineering
- Resistance and powering analyses

Marine Engineering:

- Ship's systems design
- Electric loads analyses and one-line diagram development
- Machinery selection and purchase technical specification development

Project Management:

- Technical documentation and writing services
- Owner's representation
- Regulatory navigation
- Vessel survey

Software and Tools:

- | | |
|--------------------------------------|-------------|
| • ShipConstructor | • Star CCM+ |
| • Rhinoceros | • Moses |
| • FEMAP/NX | • SHCP |
| • AutoCAD | • GHS |
| • NavCAD | • OrcaFlex |
| • AutoDesk Simulation & Multiphysics | |