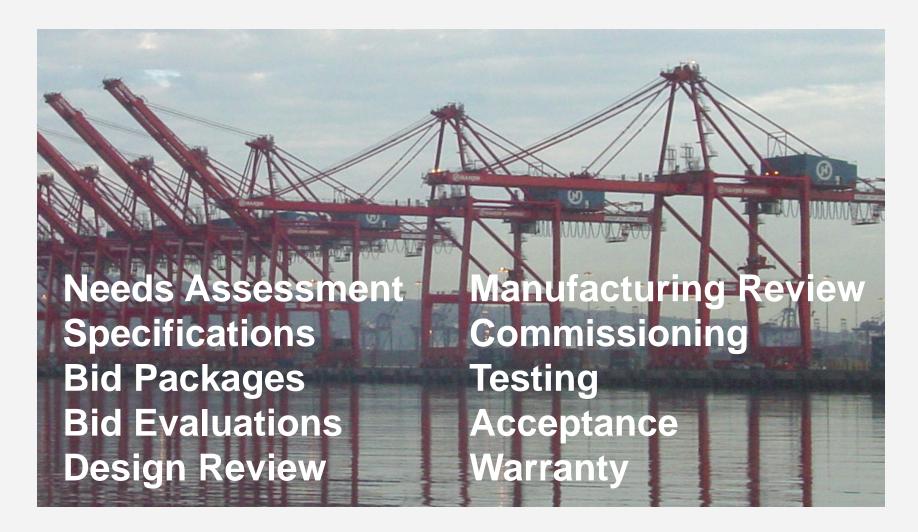
Mechanical and Electrical Engineering Services

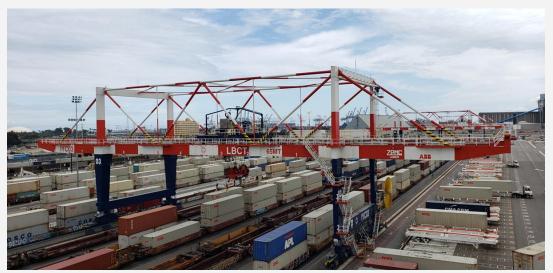
Liftech

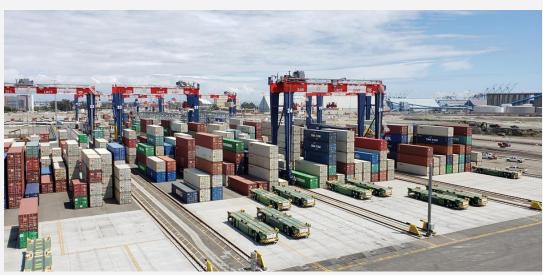
STS Crane Procurement





Other Container Cranes



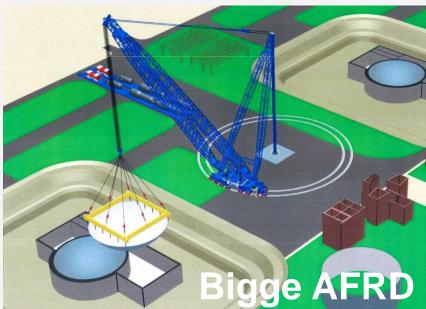


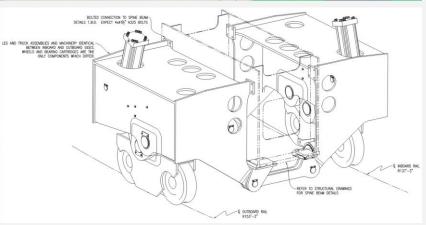


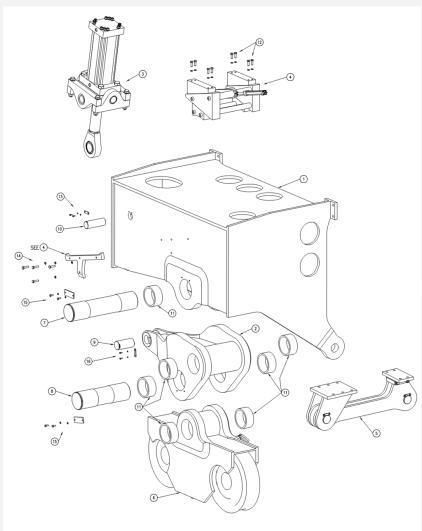
RTG RMG ASC IYC MHC



Specialty Cranes









Floating Cranes





Dry Bulk Handling Equipment



Grab Bucket, Loaders, Unloaders, Stacker/Reclaimers



Liquid Bulk Equipment



Hose Towers

Mobile Equipment

Handling Cranes

POL and MOTEMS



Equipment Modifications

Raise and Extend **Modernization Uprate** DC to AC **Drive and Control Upgrades** PRELIMINARY

Concept Development & Design



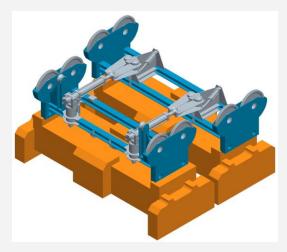


Concept Development & Design





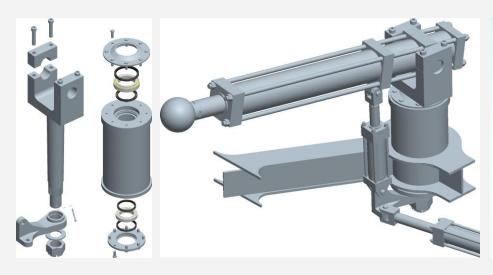
Concept Development & Design



Design Improvement

Concept Validation

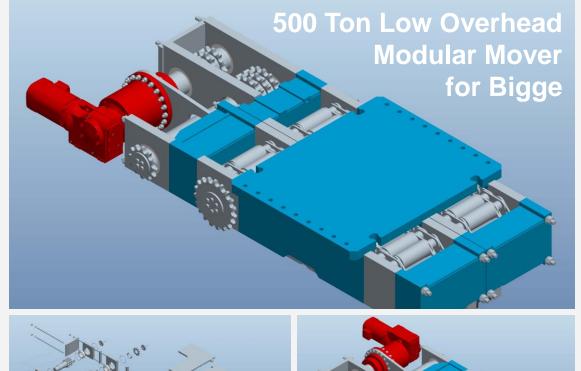


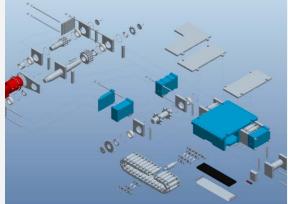


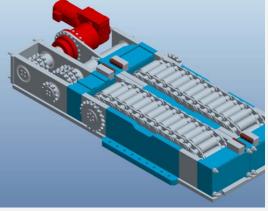




Specialty Equipment







Rugged Designs

Proven Components

3D Models

Detailed Parts

Assembly & Maintenance Instructions

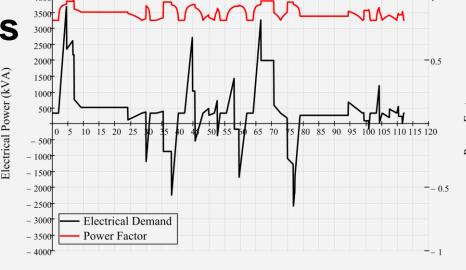


Electrical Infrastructure

Power Demand Studies

Voltage Drop Analysis

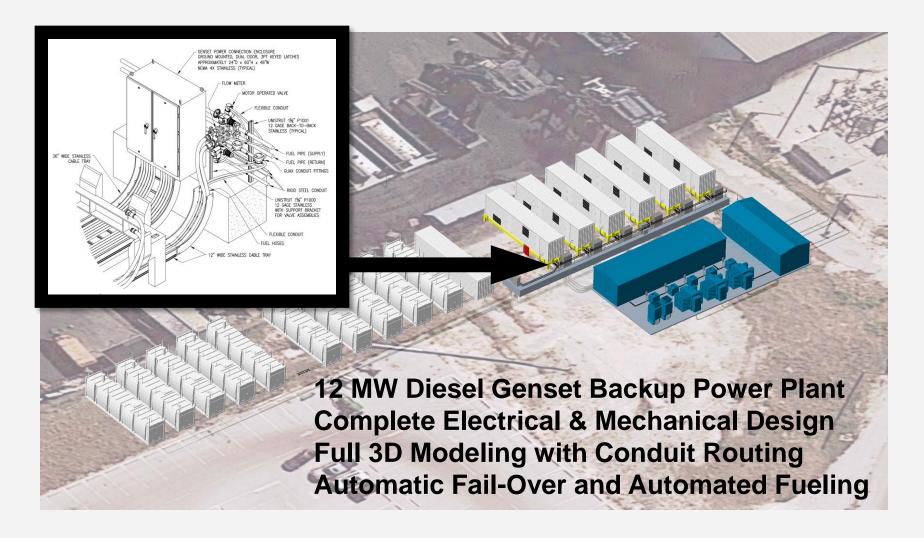
Network Analysis



Regenerative Power Handling
Circuit Protection Coordination
Switchgear and Transformers
Electrical Noise Mitigation



Electrical Power Systems





Emission Reduction Conversions

Zero Emission Studies

Power Demand Modeling

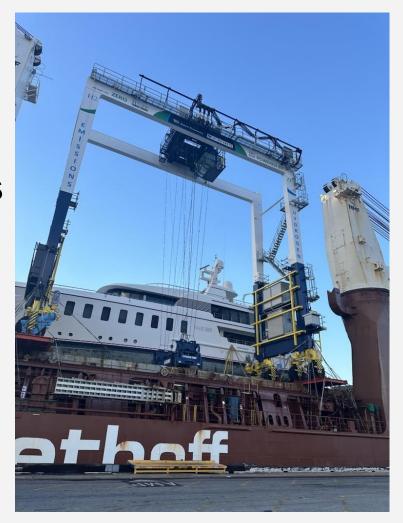
Diesel Hybrid Conversions

Battery Electric Systems

Charging Systems

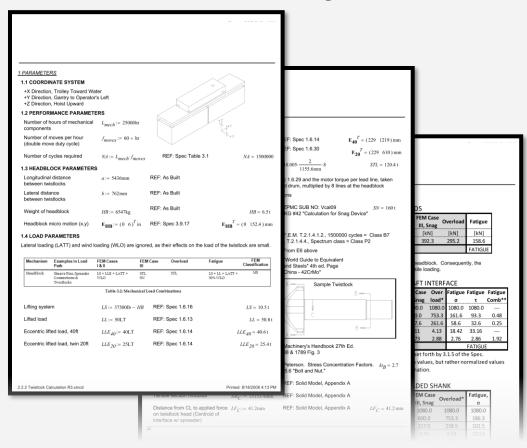
H₂ Fuel Cells & Storage

Alternatives Investigation

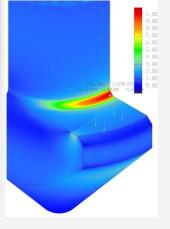


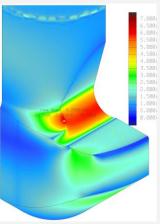


Failure Analysis









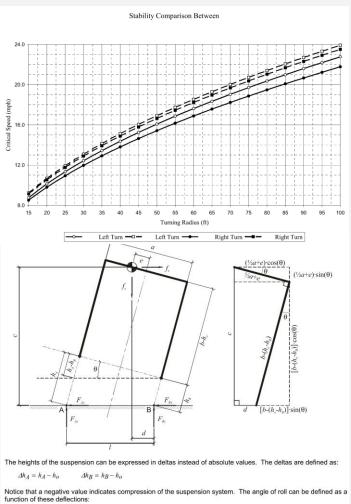


Advanced Analysis and FEA Design Improvement

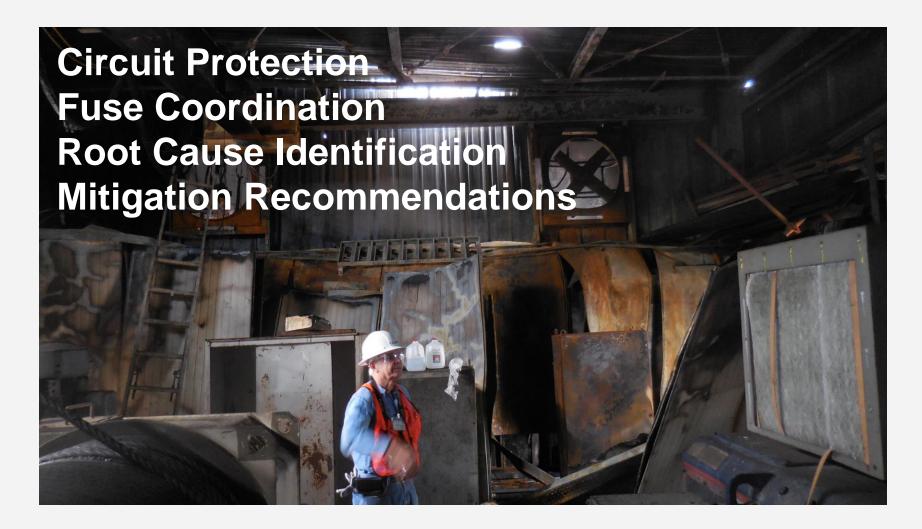
Mechanical Failure Investigation

Accident Investigation
Mechanical Failure Analysis
Root Cause Identification
Expert Witness



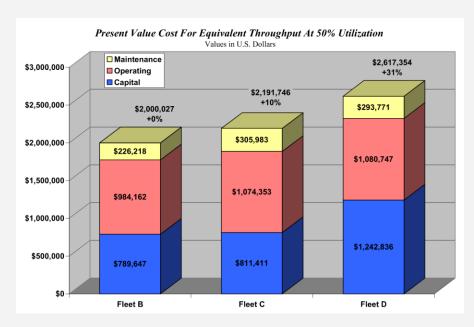


Electrical Failure Investigation

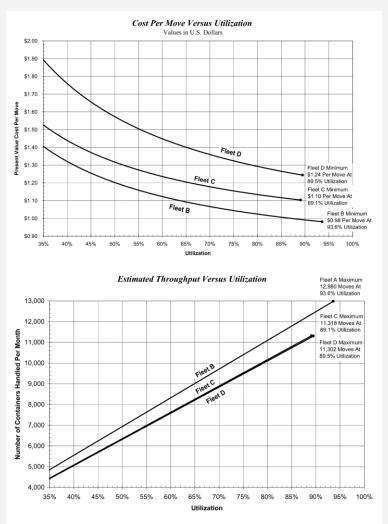




Engineering Studies









Thank You

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