PROJECT CARGO LOSS CONTROL

Presented by:
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LOGISTICS MANAGEMENT FROM ORIGIN TO FINAL DESTINATION:
1. Packaging.
2. Handling.
3. Transportation.
4. Routes.
6. Documentation.
7. Lifting/Shifting.
8. Transfers.

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Transporting large, high value and mission critical cargo requires special risk engineering solutions.
Cargo Particulars:

- Weight – in what standard?
- Dimensions
- Vertical Center of Gravity
- Longitudinal Center Of Gravity
- Packaging
- Securing and Lifting Points
Suitability and Design of Packaging
Managing the Cargo during the entire movement.

At Risk $40m/engine for new Airbus 380.
Pallet Buildup and Securing in Aircraft
Rigging Inspection and Safe Working Loads

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When it breaks it’s too late.

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Suitability of Vessel:
1. Class/Load line?
2. Age?
3. Recent Dry-docking.
4. Internal Survey.
5. Capacity/ Stability
Unsuitable Vessel and “High Value” “Long Lead Time” Cargo Spells

UNDERWRITING LOSS.

Holes and Listing
This is a Classed Vessel that had recent ISM certification and test records. The survey revealed numerous conditions that prevented her use including dilapidated crane winch brakes as seen on lower left and leaking hatches as seen on lower right.
CRANE SUITABILITY:
• Condition.
• Capacity.
• Operator experience.
• Class & Certification.
• Survey

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Heavy Lifts : Pre Lift Meeting
1. Lifting Points.
2. Suitability of Rigging.
3. Stability and Ballasting Analysis.
5. Ballast Lift prior to Crane Lift.
Trailer Capacity – Road & Soil Analysis
Jacking and Shifting.

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Distribution of Loads on Rigging.
1. Managing VCG
2. Managing LCG
Stability and Ballast Calculations during loading and underway.
Suitability of Towing Vessels
1. Crew Experience
2. Weather and Sea State Parameters
3. Drafts.
Risk Engineering from drawing board to completion.

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Lashing and Securing in X, Y and Z coordinates designed for appropriate accelerations.
Handling Delicate Cargo Correctly

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The Cargo was a stator for a nuclear power plant. To remanufacture the unit will take 36 months to build and deliver. The Nuclear plant can not operate without it.
Railcars Loaded onto a Decrepit Barge
Overload Of Crawler Crane on Decrepit Deck Barge,

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Excavator Loaded onto a Decrepit Barge

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Another Excavator another Decrepit Barge

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