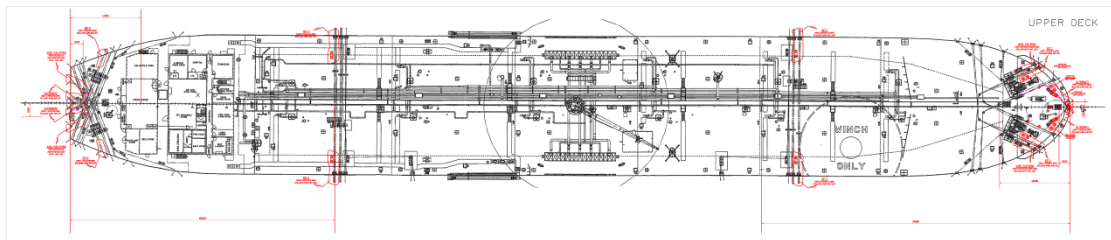


COMPLIANCE WITH NEW PANAMA CANAL REQUIREMENTS

Panamax Plus and Neo Panamax vessels but also Panamax vessels wishing to transit laden and benefit from the increased draft.

SUPPORT ON THE EVALUATION OF EXISTING SHIP ARRANGEMENTS AGAINST NEW VESSEL REQUIREMENTS (OP NOTICE TO SHIPPING No. N-1-2016)

- Mooring and Towing fitting arrangement evaluation and assessment of compliance proposal
- Development of transit conditions (Ballast with minimum drafts and laden with maximum draft) and bridge visibility check
- Evaluation of additional requirements:
 - Nav. Bridge Arrangement
 - Pilot Ladder Arrangement
 - Panama Canal Light
 - Panama Canal Shelters
- Communication and validation of arrangements and modification proposals through ACP



Compliance proposal

MOORING & TOWING FITTING ARRANGEMENTS

- Development of compliance proposal with required upgraded or additional fittings for mooring and towing (chocks, Bollards and Deck Stand Rollers)
- Structural calculations for under deck reinforcement and installation of upgraded or new fittings. Calculations in two options:
 - Simplified beam analyses
 - 3D Finite Element Analyses
- Development of detailed structural drawings for Class Approval.

