Weight Management System (WMS)   *by Zentech*

On-board Stability Weight Management System for Spars

Plan View
Production Deck at 640 Ft above Keel — Profile View

Part of Zentech's Suite of Load and Stability Calculator (LoStab) Programs, WMS is an interactive, menu-driven, vessel-specific software used in data management and loading calculations in the day-to-day operations of Spars.

Main Features

- **Pull-Down and Pop-Up Menus for Data Input**
- **Grouping of Weights Based on Solids, Liquids, Miscellaneous Items and Mooring Loads.**
- **Selected Blocking of Fields to Prevent User Entry**
- **Individual Weights and CGs, Subtotals and Totals**
- **Facility to Archive and Retrieve Loading Conditions**
- **Calculation of Stability Parameters, Free Surface Effect and Deck Loads**
- **Updates of Drafts, Trim and Heel Angles, Deck Loads and KG Margin, with Every Entry**
- **CGs of Weights about Global or Local Coordinate Systems**

Special Features

- **Deck-wise Solid Weight Management through graphics, by click and drag option**
- **Weight Management by Grouping and Sub-grouping**
- **Summary of Consumables and their Break-up**
- **Calculation of Liquid Weights and CGs from Tank Tables**
- **Interface with ZenMAS, the Real-time Mooring Advisory Software and updation of mooring loads real-time**
- **User Input Data validation against preset limits**
- **Loading calculation with or without the Drilling Rig onboard**
- **Ballasting and Deballasting Procedures and Load Equalization Calculations**
- **Damaged Stability Calculations**
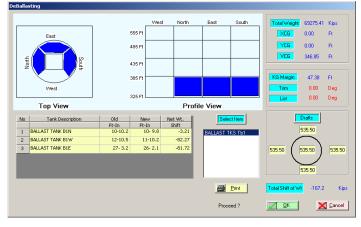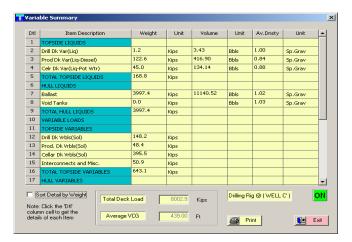- **User Selectable Allowable KGs**

- **Plots of Weights, CGs and Free Surface Moments with Sounding, for Tanks**
- **Screen Preview and Hard Copy Options for Outputs**
- **Comprehensive Help Menu**