



Regional Class Research Vessels

RVOC

April, 2014 Savannah, GA

















Key Features

- Variable Frequency Direct Drive
- DP-1
- Ice Class C0
- Schottel STP Twin Prop Z-Drive
- Big Back deck and Van Vestibule

- EM302/2040
- ADCP/EK60
- Flow Through
- SSV for full App-B compliant OHS
 - Synthetics
- Retractable Centerboard



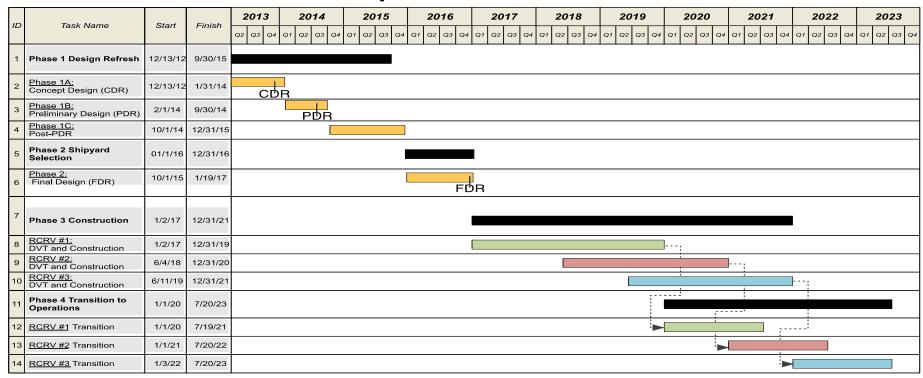








RCRV Top Level Schedule







Phase 1B Key Events

- 23 January: Kickoff (Corvallis)
- 31 January: Post CDR Baseline
- 11 February: OCRV & Sigulia Visit (Anacortes/Marinette)
- 19 February: SOC GA Review (Webex)
- 21 February: Acquisition Strategy
- 28 February: Risk Workshop
- 24 February: Design Review (Seattle)
- 01 April: Willis and Comar on board
- 29 April: IDR (Corvallis)
- 4 July: PDR Deliverables Due (Wiki)
- 5 Aug: PDR (Arlington)















NSF Action Memo: Key Dates

- 02/15: NSF Director approval of CDR
- 03/15: Updated Acquisition Strategy Schedule
- 04/01: Revise Risk Register
- 04/01: Revise Load Handling System drawing and spec for App B
- 04/04: P3 Version of Specs Posted
- 05/01: RCRV/OCRV Mission Comparison









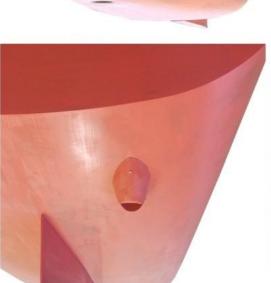






Model Testing













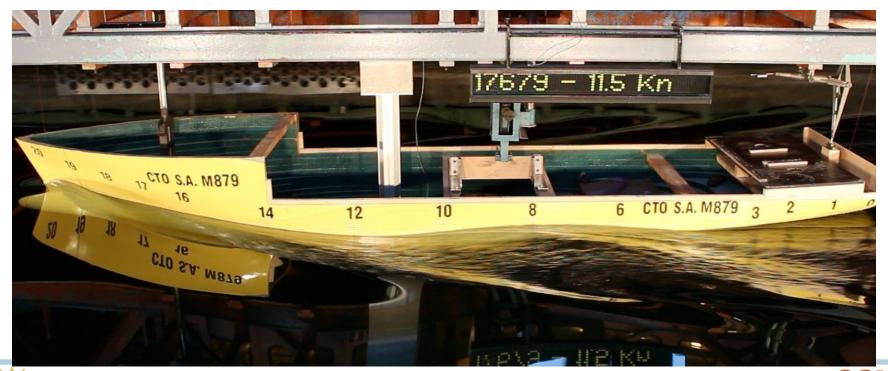








Model Testing

















Model Testing













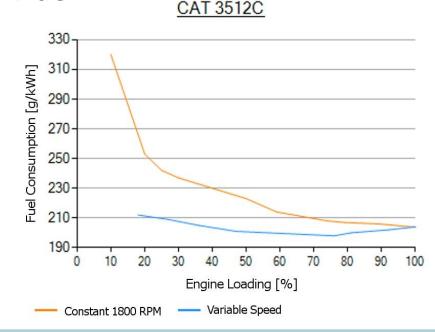




Green Ship Initiatives

Conserve Fuel

- Reduce Hull Resistance
 - Optimize Hull Form
- Increase Fuel Efficiency
 - Variable Speed Power Generation
 - Power electronics produce 60Hz power
 - Optimal operating point
 - Increased fuel economy, especially at light loads
 - 5%-15% fuel savings

















Discussion.....

