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
- Telepresence
- EM302/2040
- ADCP/EK60
- Flow Through
- SSV for full App-B compliant OHS
- Synthetics
- Retractable Centerboard
RCRV Top Level Schedule

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Phase 1B Key Events

- 23 January: Kickoff (Corvallis)
- 31 January: Post CDR Baseline
- 11 February: OCRV & Siqualiaq 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
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