

Polar Maintenance Outlook

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Where We've Been – Maintenance Investments to Improve Operational Reliability

- HEALY Propulsion Upgrades
 - Reliability-centered upgrades to high-voltage systems
 - Strong integration with support contractors a model for new Coast Guard acquisitions
- POLAR SEA Bridge-to-SLEP
 - \$27M project aimed at improving reliability
 - Successful Arctic ice trials conducted in Fall 2006
 - POLAR SEA currently on Deep Freeze '07



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Where We Are - Short-Term Outlook

AFC 45/77– MLC/ELC Maintenance & Recap Funds

	HEALY	POLAR SEA	POLAR STAR
FY07	\$15.9M	\$12.9M	\$0
FY08 *Request	\$12.1M	\$15.3M	\$0
FY09 *Request	\$12.7M	\$11.3M	\$0



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Where We Are – Ongoing and Planned Maintenance

- HEALY Drydock – Ends 8 Feb 07
 - Low voltage governor upgrades
 - Maintenance Monitoring System (CTES) upgrade
 - Voyage repairs
- POLAR SEA Drydock – May-July '07
 - Open loop controllable pitch propeller (CPP) system prototype
 - Main gas turbine (MGT) fuel control system prototype
 - Air conditioning and refrigeration plant upgrade
 - Self Contained Breathing Apparatus (SCBA) upgrade
 - Sewage upgrade
 - Completion of diesel engine upgrades



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Where We Are – Future Maintenance Availabilities

- HEALY Dockside – Fall '07- Winter '08
 - Continuation of IPP upgrades – Fiber optic cable installation
 - Pump controller modifications
- POLAR SEA Drydock – May-July '08
 - Crane upgrade
 - Completion of open loop conversion
 - Propulsion control system upgrade



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Where We Are – Future Maintenance Availabilities

- HEALY Dockside – Fall '08- Winter '09
 - Propulsion control system hardware upgrade installation
 - Low voltage switchgear prototype test
- POLAR SEA Drydock or Dockside – May-July '09
 - Minor system recap



Future Issues and Challenges

- POLAR SEA
 - Maintaining reliability through successive annual Deep Freeze deployments
- POLAR STAR
 - Caretaker plan presupposed 18 months out of service
 - Additional funding will be required to keep ship in caretaker status beyond 2008
 - Reactivation and recapitalization to POLAR SEA configuration will cost roughly \$50M in engineering costs alone
- HEALY
 - Impact of increased Operational Tempo
 - Recapitalization of multi-beam sonar will require additional funding in out years beyond the CG's initial request



Future Issues and Challenges

- Funding
 - Dual agency challenges
 - Maintenance execution requires multi-year approach with single year funds
- Program
 - What is the future given the National Academy of Sciences report and recommendations?



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