



# Asset Status



- POLAR SEA:

- CG COMDT Decision Memo directing decommissioning OOA May 11
- Decommission NLT 30 Sept 11
  - CO SEA will relieve CO/EO STAR OOA 01 June 11
  - CoC STAR; Vaughn relieved by Pellessier late July 11
- Disposal via Title Transfer to MARAD for temporary storage in Beaumont, TX while awaiting *scrapping* in Brownsville, TX
- Work list under development for critical system & component reclamation
  - Planning 2 mos Dry Dock remove props and other critical systems, DD available at Todd early January 2012.
- Current On Board Engineering Efforts
  - CG ordered stop work on SEA late Dec 10 as decomm option was explored, efforts that directly influence risk reduction for STAR reactivation have continued:
  - MDE engine testing, 2A (Plus Hybrid config failed) & 2B (Premium config mid-way thru test profile)
  - MGT Digital Fuel Control System prototype refinements & testing





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- POLAR STAR:
  - Reactivation intended to add 7-10yrs of additional service life thru:
    - Major System Upgrades
    - Restoration of laid up systems
    - Completion of backlogged maintenance
    - Rehabilitation of habitability spaces
  - Intent of Reactivation is NOT to improve operational capability, but will substantially improve reliability of historically troublesome systems.
  - All HM&E work to complete NLT Dec 2012, Sea & Ice Trials Early 2013
  - Currently in Reactivation Phase 3 Dry Docking @ Todd Shipyard
    - Phase 1 Condition Assessment in 2009
    - Phase 2 Dockside, May-Dec 10
    - Phase 3 Dry Dock, Jan-July 11
    - Phase 4 Dockside, Aug 11-Dec 12



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# Major System Upgrades

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POLAR CLASS ICEBREAKER MAJOR SYSTEM UPGRADES	STATUS		Estimated Duration
	POLAR SEA	POLAR STAR	
CHS Removal and Cargo Crane Renewal	Not completed, not scheduled	Scheduled for Reactivation	Up to 8 mos for prototype, ~6 mos for follow on ship
Open Loop CPP System Conversion	1 of 3 Completed, not scheduled	Scheduled for Reactivation	~4 mos SEA 6 mos STAR 3DD
Aft Stern Tube Bearing Redesign and Renewal	3 of 3 Completed in 2006	Scheduled for Reactivation	6 mos STAR 3DD
Main Diesel Engine Upgrades & Repairs	6 of 6 Completed in 2006 1A/3A Block Renewal & 8 Honey Cr Liner Rebuilds	Scheduled for Reactivation D2 Block Renewals & Plus Upgrades	12 mos SEA 18 mos STAR
MGT Digital Fuel Control System Upgrade	1 of 3 Completed, not scheduled	Scheduled for Reactivation	6 mos LLTM, 2 wk install
Gyro Compass Upgrade	Completed 2009	Scheduled for Reactivation	Nearing completion on STAR
MCAMS Upgrade	In progress, fully funded, complete in mid-2011	Scheduled for Reactivation	6 mos STAR 3DD
Small Boat Davit Renewal	Completed 2010, needs u/w OT&E	Scheduled for Reactivation	6 mos LLTM 3 mos install
Red Gear, Coupling & Bearing Inspection and Repairs	Cooper brg completed, remainder not scheduled	Scheduled for Reactivation	Complete during future scheduled DD for SEA
Main Motor Cleaning	Completed in 2006	Scheduled for Reactivation	12 mos



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# Asset Status HEALY

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- HEALY's schedule includes:
  - Dockside Availability: 11 Nov 10 - 28 Jan 11
  - CART/TSTA: 29 Jan - 01 Apr 11
  - Arctic West Summer (AWS) 2011, 26 Apr 11 – TBD
- Completed a \$15M scheduled triennial dry dock availability in 2010.
- Completed Ship Structure and Machinery Evaluation Board (SSMEB) process to assess life-cycle condition. To meet her 30-year service life, HEALY must continue phased equipment upgrades & repair of salt water piping deterioration.



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