



Polar Engineering Status Brie AICC Meeting March 2012 Mr. Ryan Young



Introduction



- Who I am & where we fit
 - Maintenance
 - Corrective
 - Preventive
 - Alterative
- What we are interested in vis-à-vis science
 - Insight & input into scheduling, via channels
 - Cooperation on Configuration Changes
 - Strategic
 - Tactical via Scott Hiller

HEALY (WAGB-20)

Returned from successful and extended AWS '11
 Mission in February.







- Is currently conducting a DS availability scheduled to end in May '12.
- Major work scheduled for FY12 DS include MPCMS upgrade, start air compressor upgrade and IPP system upgrade.
- Post DS work will include regular maintenance and Winch Groom



HEALY (WAGB-20) Science TCTO Status



- Winch Control System Prototype Authorization to be issued NLT April 12
- LED "Backboard" Prototype Authorization to be issued NLT April 12
- ADCP Relocation Prototype Authorization granted
- TSG/PCO₂ Relocation Prototype pending USCG/US Naval Ship standards compliance
- Van Relocation Study being conducted by Elliott Bay Design Group
- Photo, Computer, Future Lab Renovation Will begin TCTO process late FY12 or earlier with STARC TCTO development



Nearing completion of a 3-year, \$67M effort to restore
 STAR to operational capability and extend its service life by 7 to 10 years.

POLAR STAR (WAGB-10)

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 thru 2013

Ready for Operations November 2013

Currently in Reactivation Phase 4Dockside (4DS) @ Vigor 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-May 12

Phase 5 Dockside, May-Dec 12



POLAR STAR (WAGB-10)

- •Major System Upgrade Status:
 - •Main Motor Cleaning: All Motors Cleaned
 - •Main Diesel Engine Upgrade: Receiving FME Parts. Continuing to reassemble engines and load bank in sequence of completion.
 - •Open Loop CPP System Conversion: Complete
 - •CHS Removal/Crane Renewal: Install complete with exception of electrical.
 - •Gyro Upgrade: Complete
 - •Small Boat Davit Upgrade: Will be completed after DS.
 - •Aft Stern Tube Bearing Renewal: Complete
 - •MCAMS Upgrade: Scheduled for completion during DS.
 - •MGT Digital Fuel Control Upgrade: Scheduled for completion during DS.



Questions?

