

CG Yard "Service to the Fleet"





Yard Workforce: 679 Total

- →12 Trade Shops
- ~ 415 Production Craftsmen
- ~ 120 Mgrs, Engineers & Support

Yard Working Capital Fund: \$115M Full Service Industrial Facility

Top 5 Yard Functions:

- 1. Renovation Projects (ISVS)
- 2. Recurring & Emergency Availabilities
- 3. Remanufacturing & Repairables
- 4. Detailed Design & Engineering
- 5. Base Support for 14 Tenant Units



124 Years of Service to Our Nation



















In Service Vessel Sustainment Project – Perform Service Life Extension Projects
(SLEP) and Major Maintenance Availabilities (MMA) on select cutter classes













 Patrol Boat Recurring Depot Availability Program – Perform recurring drydock availabilities on East Coast 87-foot patrol boats, including crew rotation – saving >\$2M/year & improving operational readiness













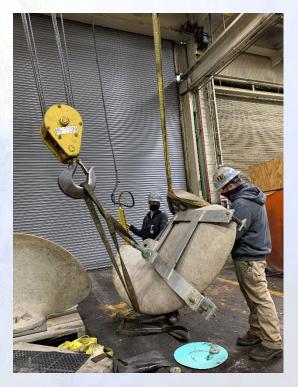
CG component overhaul & repairs – In Shop and On-the-Road: Manufacture
and repair CG-unique parts for CG cutters and boats; overhaul gun weapons
systems, electronics & other cutter systems















 Other Government Agency Work – Perform service life extensions & recurring maintenance availabilities for U.S. Navy & other partners











CG Yard Strengths



Working Capital Fund (Title 14 U. S. Code, Section 939)

- Expenses are covered by revenue generated by work
- CG Yard functions as a "not for profit" business

Competitive Edge

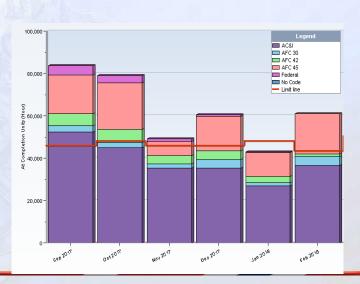
- Fourth and fifth generation employees
- Deep organic Technical Expertise with extensive knowledge
- Co-location with \$863M inventory at Inventory Control Point
- Co-location with SFLC leadership
- Contracting timelines

Planning Yard Engineering

Detail design & Updated Drawings

Work Load Forecasting

- Surge capacity to meet CG / DHS / OGA needs
- Out-year planning 14 years into future





Near-Term Focus Areas



- Ship Lift Capacity & Environmental Improvements COMPLETE
 - T. Roland Lewis Shiplift Expansion Project
 - Stormwater treatment system
- MTU Central Engine Overhaul Facility IOC (supply chain)
 - Capacity for up to 12 overhauls per year
- Depot Management System (DPOMS) IOC (interfaces)
 - Web-based enterprise management of work portfolio
 - Real time, CFO compliant, detailed cost accounting
- 154' WPC Recurring Depot Availability Program (RDAP) Awarded
- Major Cutter Ship Handling Capability CG Authorization Act
 - Floating Dry Dock & Shipyard Infrastructure Optimization Plan (SIOP)
- Workforce Recruiting & Talent Management Ongoing
 - Community Outreach, Internships & OPM Pathways Program
- Technology Integration Ongoing





Recent/In-Progress Infrastructure Improvements at CG Yard

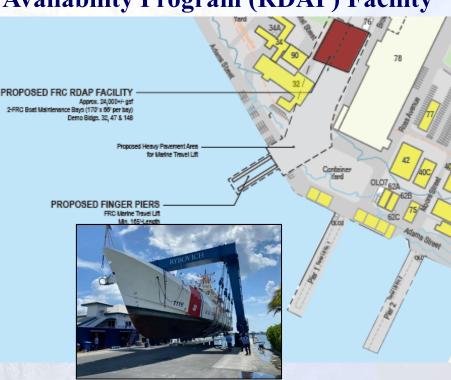


T. Roland Lewis Shiplift Expansion



- \$26 million **FY16** appropriation
- Fills gap left by decom of ex-USS OAKRIDGE
- Adds 355 foot 3rd rail & advanced enviro filters
- Unable to lift 360' OPCs or 418' WMSLs

154' WPC Recurring Depot Availability Program (RDAP) Facility



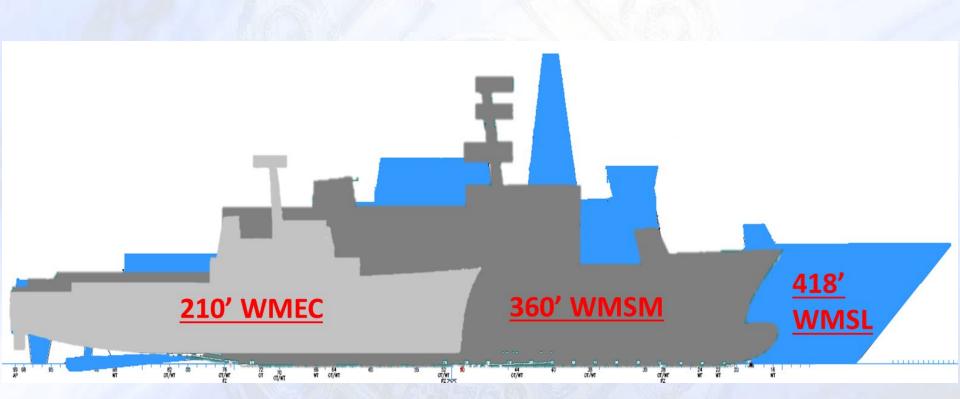
- \$22.5 million **FY19** appropriation
- RFP is currently being solicited by CG FDCC
- Commissioning by 4th Qtr FY24





Major Cutter Comparison







The Coast Guard's Challenge



Declining Commercial Shipyard Industry

- DoD and Jones Act support is finite
- 16 companies with <u>29 total dry docks</u> constitute the entire US commercial ship repair industry that can service our anticipated 37 WMSL/OPC fleet

Increasing Competition

- Expanding U.S. Navy fleet size
 - Currently 19 cruisers, 57 destroyers, 22 LCSs in Navy Fleet competing for same dry dock space
- Smaller ship repair yards are not making large capital investments for future CG fleet

Future Service Need Grows

- Dry docking capacity for 360' OPC & 418' WMSL
- Emergency dry docking capacity
- 418' WMSL MMA starting by 2030
 - Most important resources = Skilled Workforce + Robust Knowledge Base + Dry Dock Capacity

US Commercial Dry Dock Capacity

	WMEC Capable	WMSL/OPC Capable	Change
East Coast	30	16	-14
West Coast	21	13	-8
Total	51	29	-22

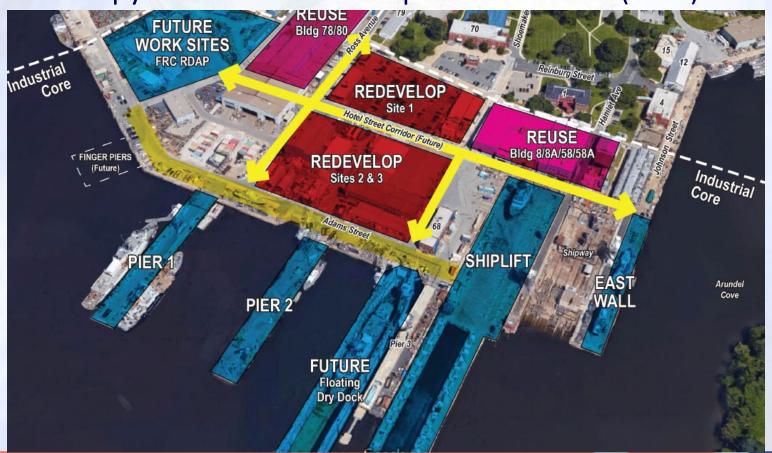
<u>Source</u>: Data from SFLC's dry dock certification list and majority of included dry docks certifications are expired.



Infrastructure Reinvestment



Major Cutter Shiphandling Capability (MCSC) & Shipyard Infrastructure Optimization Plan (SIOP)





Workforce Development

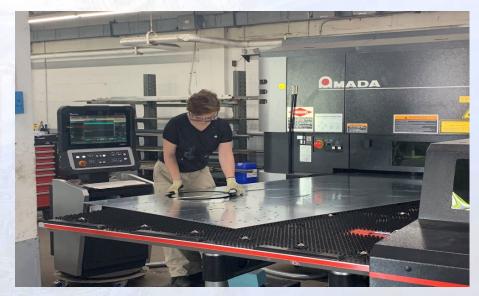


- Workforce unsustainable Insufficient pipeline of tradespeople
- Past hiring practices Dominated by hiring experienced workers from local shipyards – no longer viable

Hiring entry level engineers – Salaries not competitive with industry for hiring

naval architects and mechanical, electrical, and structural engineers

- Overall Intent Develop and retain a diverse and capable workforce through innovative use of internship and apprenticeship programs
- Partnerships with local community –
 Establish WG and GS positions for students attending regional accredited vocational-technical schools or colleges



Laser Cutting Machine



Current Programs



City of Baltimore – New Era Academy (NEA) → Digital harbor High School

- Mentor up to 12 interns each summer for 5 to 8 weeks
- Digital Harbor is in an underprivileged community of Baltimore City
- Funding comes from Port Covington and YouthWorks via City of Baltimore
- 5-year Memorandum of Understanding in place with Baltimore City Public Schools

Anne Arundel Workforce Development Corporation (AAWDC)

- Mentor 3-4 young adults and high school students
- Time period varies based on students and funding
- Funding provided by Live Casino revenue via Anne Arundel County
- 5 year Memorandum of Understanding in place with Anne Arundel County Public Schools

OPM Pathways Program

- Using Internship and Recent Graduate programs
- Designated up to 24 positions for interns







Successes



- City of Baltimore New Era Academy (NEA)
 - o 4 summers, 30 interns, 23 completed program
 - o 9 summer interns hired into Pathways, 3 converted to permanent employees
- Pathways
 - 29 hired into program, 11 converted, & 1 hired competitively as permanent employee
 - 12 currently in program + 7 recently selected
- Anne Arundel Workforce Development Corporation (AAWDC)
 - 6 interns, 3 completed program, 2 hired open competition
- Current Status
 - 13 Interns hired 5 WG-01s, 4 WG-03s,
 3 WG-05, 1 resignation
 - 4 Recent Graduates hired anticipate
 1 conversion in 2020





Internship Challenges



Transportation

Public transportation to the Yard, often prohibitive for eligible students

USA Jobs Applications

- Students challenged with applying through USA Jobs system
- Only one 2018 summer intern made cert for 2019 Pathways hiring

Mentor Time

 Balancing work requirements with mentoring

Work Ethic

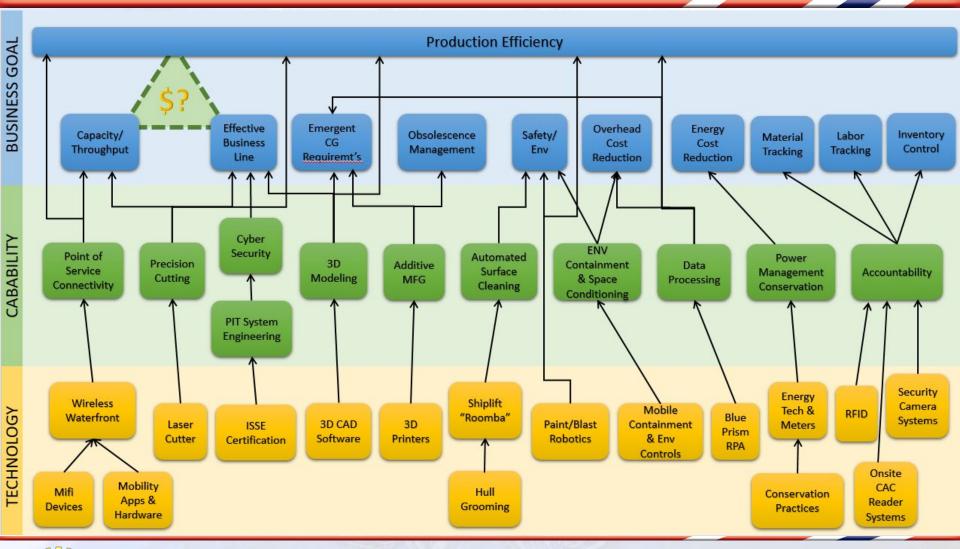
- Cultural change for many students, ex. phone use
- Maintaining enthusiasm





Draft Technology Roadmap







Assistant Commandant for Engineering and Logistics (CG-4)



Questions



https://www.dvidshub.net/video/866676/cg-yard-ship-lift-movement-oct-2022

