Surface Forces Logistics Center

SFLC exists to Support the Fleet

Info Brief:

SEA-AIR-SPACE: SFLC Overview – Challenges & Opportunities

Date: April 2024

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Commander, Surface Forces Logistics Center

Assistant Commandant for
Engineering and Logistics (CG-4)

Agenda

- What does SFLC do?
- Where are we are located?
- Current Initiatives?
- Challenges
- Opportunities?

A strong defense industrial base and strong partnerships are needed for the USCG to be successful in defending the homeland. The new fleet replacing the legacy fleet is larger, heavier, and more complex. We already see challenges with having sufficient industry capacity to bid on and perform our maintenance work. Realizing the federal government also does not do us any favors with a cycle of continuing resolutions, we need to build that into our planning profiles. Despite these challenges, the USCG and Industry must find ways to collaborate, as our national security depends on it. Supply chain risks must be mitigated, reasonable sharing of data rights must occur, and expansion of additive manufacturing is a must. Maintenance processes that show promise to meet our requirements, reduce schedule and costs, and optimize our: component, system or asset service lives are needed. Additionally, a systematic and disciplined approach to modernizing our data is required to create metrics and dashboards for risk-based decisions, optimization of maintenance, and better manage the configuration of assets.

SFLC Exists to Support the Fleet

SFLC Mission

Provide Surface Fleet assets with:

- → Depot Level Maintenance
- → Engineering
- → Information Services
- → Cybersecurity
- → Supply

to support Coast Guard mission execution, worldwide.

Assets Supported	**243 Cutters**
	1,734 Boats

1,300 Maintenance Projects Annually

Cutters:	**~ 450**
Dry Dockings:	50-70
Docksides:	100-120
Overhauls:	250-300
Boats:	

Routine Maintenance

Executing a multi-yr cycle of DD & DS availabilities for cutters & boats.

POLAR STAR at Mare Island Dry Dock in Vallejo, CA.

Emergency Maintenance

Ready to quickly repair broken assets & return them to operations.

SAGINAW lifted out in unplanned dry-docking in Pascagoula, MS

Renovation Maintenance

Longer dry dock projects to modernize & extend service life.

HARRIET LANE in CG YARD for Service Life Extension Project.

Depot Maintenance → 1,300 Projects/Yr

Major Dry-Docking (DD) & Dockside (DS) Availabilities / Emergency Repairs / Overhauls, etc

Commercial Shipyards

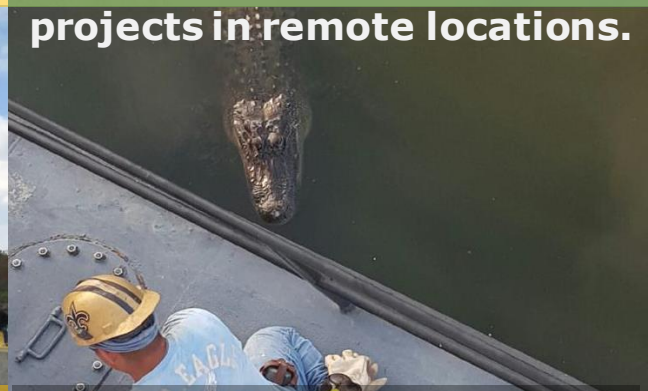
90% of Major Depot Projects

CG Yard

Renovations & RDAP DDs

10% of Major Depot Projects

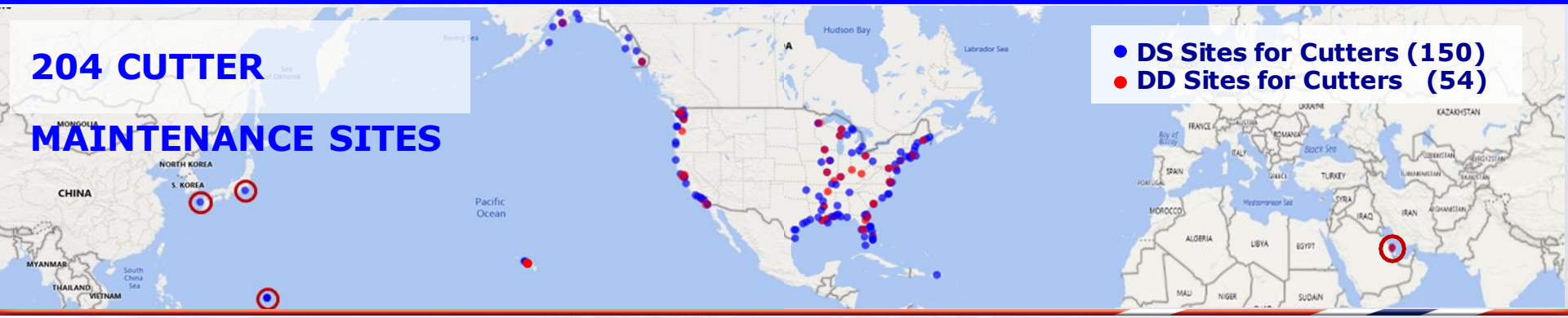
Many dry-dockings & depot projects in remote locations.



Buoy Tender DD in Houma, LA.

Global Footprint → Over 250 Maintenance Locations for Cutters & Boats

204 CUTTER MAINTENANCE SITES



Contracting is Key to Mission Support

Surface Fleet requires 14,000 – 17,000 contract actions per yr to stay operational

Homeland Security

Engineering Services

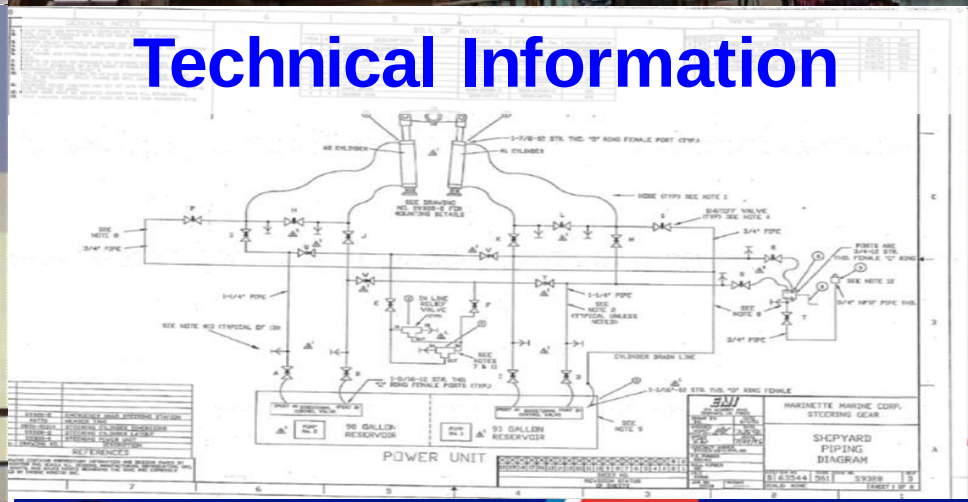
United States Coast Guard

Ship Design & Engineering

Maintenance Standards

Electronics & Ordnance

Technical Information



CG-LIMS
United States Coast Guard
Logistics Information Management System

Surface Technical Information Portal

$1 Billion Fleet Supply System

89,377 Parts Requisitions in FY22

Inventory Warehouse

→ CFO Compliant ←

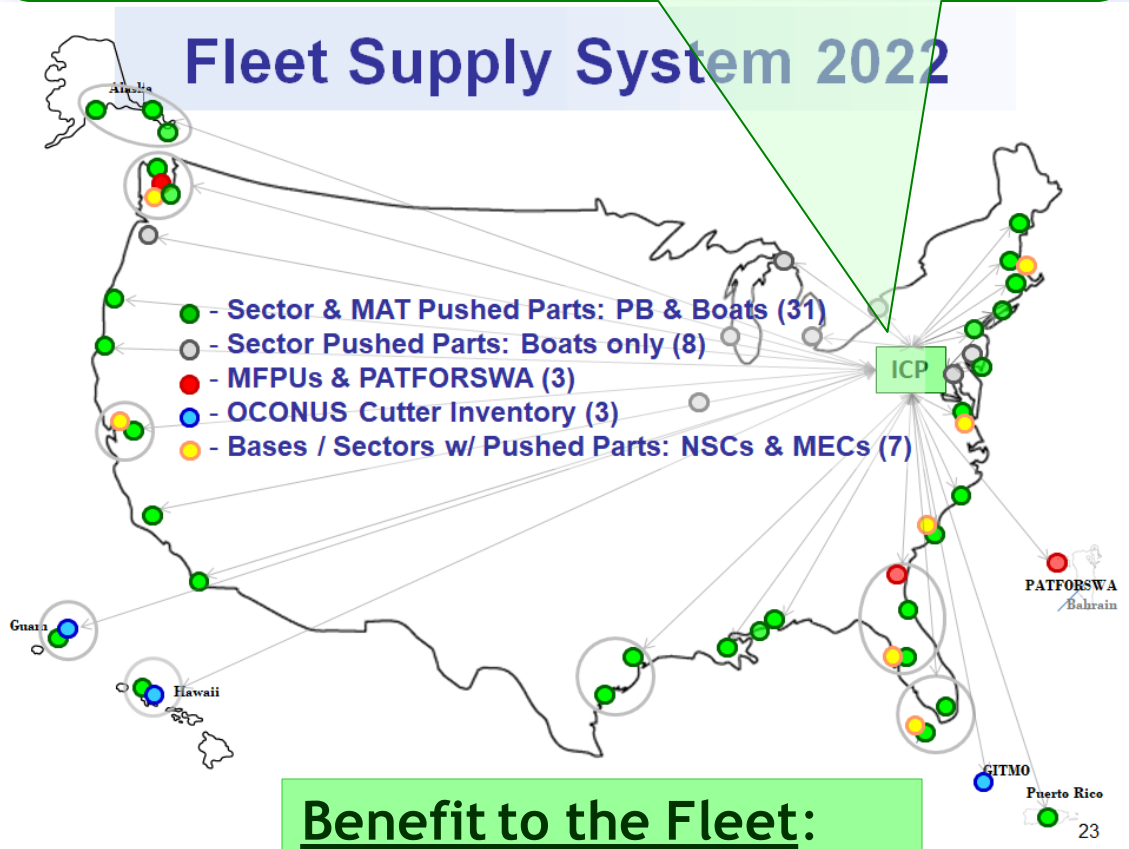
(since FY13)

Total Parts Inventory: $1.03 Billion

- $917M: SFLC ICP Baltimore
- $186M: Remote Inventory (and misc.)

Forward-Deployed Inventory

Pushing Parts → 75 Primary Remote Sites



Benefit to the Fleet:

- ✓ send the right part…
- ✓ to the right place…
- ✓ on the first try.

SFLC Enterprise Forces

BASE KETCHIKAN

Bangor, WA

BASE SEATTLE

SFLC ASSIST MAT removing the NR1 SSDG in preparation for installing a new SSDG and Generator Set.

Mechanics at IPF Boston performing an emergency generator change-out on a BUSL 49 during an unplanned dry-docking in October 2022.

S. Portland, ME

BASE BOSTON

New port, RI

Cape May, NJ

BASE CLEVELAND

Ordnance specialists from WAT Portsmouth and CG Yard conduct removal of a MK75 gun mount on CGC TAMPA, at Portsmouth, VA in April 2022.

BALTIMORE, MD
CG YARD

NORFOLK, VA
BASE PORTSMOUTH

ALAMEDA, CA
BASE ALAMEDA

IPF Hono & MAT Guam performed a DS availability on OLIVER HENRY in Guam in Apr '22, pioneering deployed CG Industrial support in remote areas.

BASE LA / LB

Atlantic Beach, NC
(Fort Macon)

BASE CHARLESTON

Kings Bay, GA

Mobile, AL

BASE NEW ORLEANS

BASE GALVESTON

BASE HONOLULU

Pensacola, FL**
(** summer 2021)

BASE MIAMI

St Petersburg, FL

Key West, FL

San Juan, PR

Guam

SFLC COMMANDER

REGIONAL NODE

N NAVAL ENG DEPARTMENT (@ CG BASE)

M Maintenance & Weapons Augmentation Teams [MATs/WATs] W

I Industrial Production Facility [Detachment] d

C Central IOD (Industrial Ops Division)

Link:

Homeland Security

CG Yard

United States Coast Guard

An integral part of CG SFLC

Yard Shiplift Video SharePoint site

Yard Workforce: 685 Total

→12 Trade Shops
~ 465 Production Craftsmen
~ 120 Mgrs, Engineers & Support

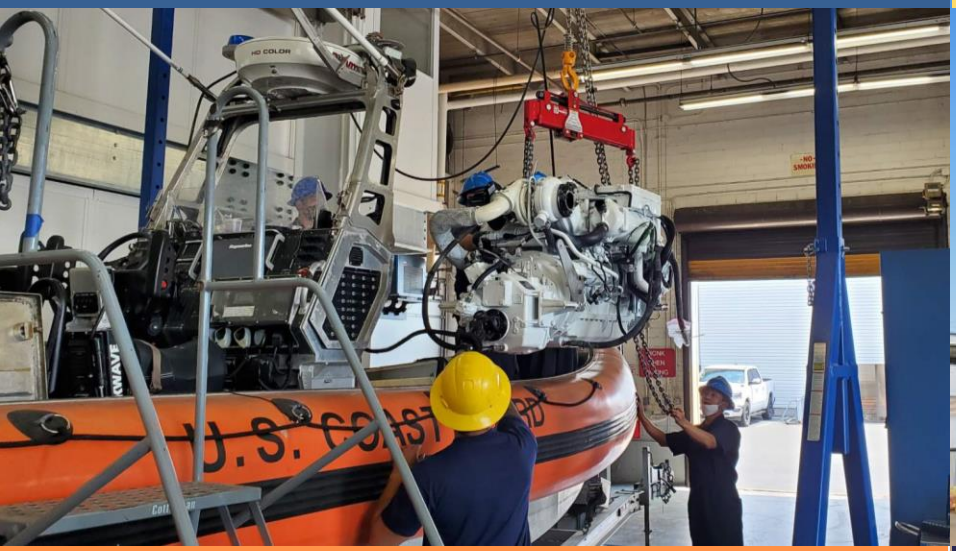
Yard Working Capital Fund: $115M
Full Service Shipyard

Top 5 Yard Functions:

1. Renovation Projects (ISVS)
2. Routine & Emergency Availabilities
3. Remanufacturing & Repairables
4. Detailed Design & Engineering
5. Base Support

Initiatives

Centralized Cutter Boat Pooling



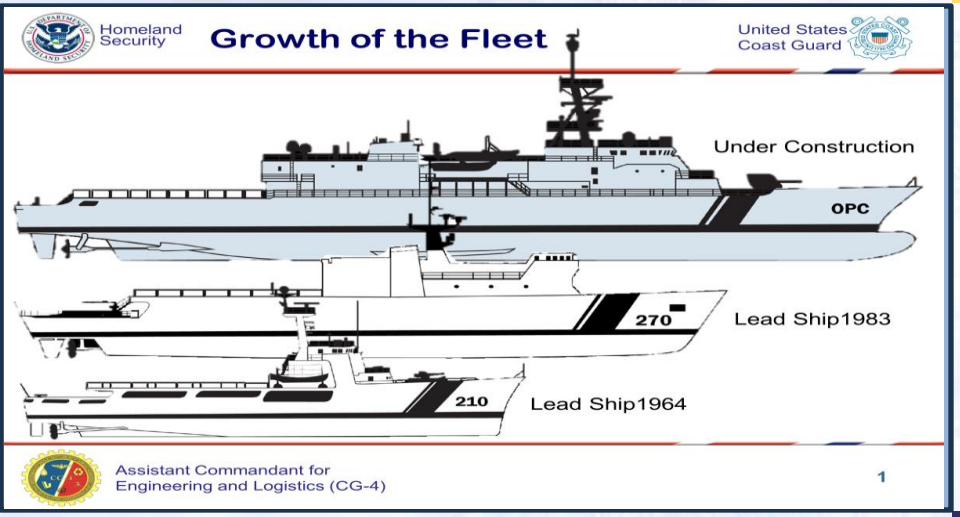
RDAP Dry Docks - LANT WPCs

Additive Manufacturing

Shipyard Infrastructure Optimization Plan

Challenges

Larger/Heavier/More Complex Ships



Supply Chain

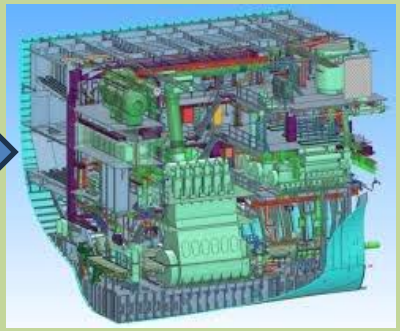
Automation and Controls

Maintenance Funding Shortfalls are Increasing

Opportunities

Technical Library

2D to 3D Artifacts



Condition Based Maintenance

Digital Twin

Questions - Discussion

Backups

LREPL Fleet of Responsibility

Seattle, WA
- HEALY (20)
- POLAR STAR (10)

https://vimeo.com/529457207

Alameda, CA
- BERTHOLF (750)
- WAESCHE (751)
- STRATTON (752)
- MUNRO (755)

Charleston, SC
- HAMILTON (753)
- JAMES (754)
- STONE (758)

Honolulu, HI
- MIDGETT (757)
- KIMBALL (756)

Kodiak, AK
- ALEX HALEY (39)

12 Hulls

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MECPL Fleet of Responsibility

EAGLE (1)

New London, CT

WMEC 210' (13)

Virginia Beach, VA:	2
Jacksonville, FL:	1
Port Canaveral, FL:	2
St. Petersburg, FL:	2
Pensacola, FL:	3**
Warrenton, OR:	2
Port Angeles, WA:	1

** Dropped to 3 after decomm of DECISIVE in March 2023

WMEC 270' (13)

Newport, RI:	2
Portsmouth, VA:	9
Key West, FL	2

27 Hulls

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PBPL Fleet of Responsibility

87' CPB (60*)

154' FRCs (53**)

110' WPBs (5)

* Includes 4 CPBs in MFPUs

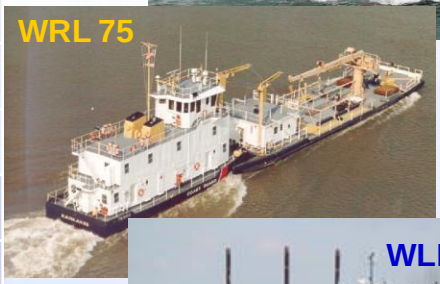
** Includes 6 WPCs in Bahrain

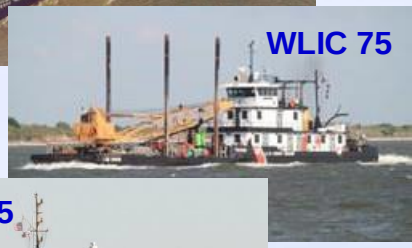
118 Hulls

Add'l WPCs expected in 2023:
William Sparling (1154): Sep, Boston
Melvin Bell (1155): Nov, Boston

IBCTPL Fleet of Responsibility

Class	86 Cutters 29 Barges	62 Homeports 33 States & Guam
WLBB	MACKINAW	Cheboygan
WLB 225’	16 cutters	14 homeports
WLM 175’	14 cutters	14 homeports
WLIC 100’	SMILAX **	Atlantic Beach
WLIC 160’	4 cutters	4 homeports
WLIC 75’	8 cutters	7 homeports
WLI 100’	2 cutters	2 homeports
WLI 65’	2 cutters	2 homeports
WLR 65’	6 cutters	6 homeports
WLR 75’	12 cutters	12 homeports
WTGB 140’	9 cutters	8 homeports
WYTL 65’	11 cutters	9 homeports





86 Cutters

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SBPL Fleet of Responsibility

1,734 Hulls (July '23) / 52 Boat Classes / 261 Locations / 551 Units

924 boats (53%) are in 6 classes (red boxes)

ATON BOATS


64' AtoN Boat


55' AtoN Boat


49' BUSL


26' TANB (90)


20' AB-S


16' AB-SKF

CUTTER BOATS


38' ASB


38' LCVP


35' LRI-II


26' CB-L-Polar


26' CB-OTH-IV (117)


26' MSB


24' CB-ATON- L


24' CB-L


23' CB-L


23' CB-OTH *


21' CB-S


20' CB-L


19' CB-L


18' CB-ATON-M


18' CB-M


17' CB-M (77)

RESPONSE BOATS


47' MLB (117)


45' RBM (174)


33' SPC-LE *


32' TPSB


29' RB-S (349)

SPECIAL PURPOSE CRAFTS


64' SPC-SV


52' SPC-HWX


42' SPC-NLB


38 SPC-TB


36' SPC-BTD


24' SPC-SW


22' SPC-AIR


(SKF) Flood relief

NON-INTEGRATED BOATS

As of June 14, 2023: 88 newly acquired boats in several classes added, not illustrated here.

- 18' CB-S (WLR) (being replaced w/21' BX-S)
- UTM
- SKF – ICE
- UTL-AUX
- CT – 64 (CGA T-Boats)
- SB (CGA)
- SPC – TTB (HITRON)
- TANB
- 23' UTL (WLB/WLBB/WLM)
- TPSB (SURVEY)

* 2 Types

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