

THE FORCE BEHIND THE FLEET

INDUSTRY - NAVY DISCUSSIONS

17 AUGUST 2017

NAVY – INDUSTRY LEADERSHIP MEETING

FLEET MAINTENANCE AND MODERNIZATION SYMPOSIUM (FMMS)





Industry – Navy Meeting

Time	Торіс	Facilitator/Speaker	Objectives, Activities, Deliverables
1230		All personn	nel seated
1230-1245	Action Item Review	CDR Tommy Neville Mr. Bill Crow	Objective:Provide the current progress on Top 5 action items
1245-1330	Industry On-Time Delivery Initiatives/Recommendations	Mr. Bill Crow	 Objective: Industry to provide an overview of different initiatives and recommendation to help drive On Time Delivery (OTD)
1330-1345	NAVSEA Standard Item (NSI) Review Follow Up	Mr. Dale Hirschman Mr. Bill Crow	 Objective: Follow up on NSI Review from morning session Clearly understand current status, actions and way ahead at the senior leadership level
1345-1400		Brea	
1400-1430	GG/LSD Update	CAPT Kevin Byrne	Objective:Discuss the current status of CG/LSD modernization
1430-1515	Dry Dock Update	Mr. Tom Laverghetta	 Objective: Discuss the current status of dry dock capacity issues and potential solutions
1515-1545	Split CLIN Overview	CDR Tommy Neville	 Objective: Overview of proposed Split CLIN methodology Collect Industry feedback on proposal
1545-1600	Meeting Wrap Up & Questions	CDR Tommy Neville	 Objective: Overview of New Action Items Questions Set next meeting date
1600		Adjo	urn





Action Item Review

DESIGN, BUILD, DELIVER AND MAINTAIN SHIPS AND SYSTEMS ON TIME AND ON COST FOR THE UNITED STATES NAVY



CDR Tommy Neville Mr. Bill Crow

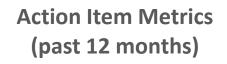


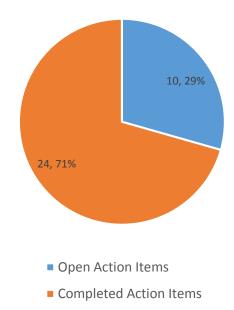


Action Item Review

Top Five Action Items

- (AI #18) NAVSEA Standard Item (NSI) review by Industry – thorough review of all NSI requirements
- (AI #19) NAVSEA Standard Item (NSI) review by government – compare NSIs used for repair vs. new construction
- 3. (AI #13) CNRMC determining business rules for complex vs. non-complex availabilities
- 4. (AI #4) Government to standardize Liquidated Damages
- 5. (AI #5) Industry's input on effective fee structure for fixed prices contracts





[&]quot;Intent of this information is to provide U.S. DoD industry contractors a general schedule for information and planning purposes for upcoming surface ship maintenance periods- It does not constitute any request for information or request for proposals or any commitment to contract for work in accordance with this plan. This information is to assist U.S. DoD industry contractors by providing a broad overview of frequently changing (driven by U.S. Navy operations) maintenance schedules and is not a guarantee of workload or exact ship schedules"



On-Time Maintenance Delivery (OTD) Initiatives & Recommendations

DESIGN, BUILD, DELIVER AND MAINTAIN SHIPS AND SYSTEMS ON TIME AND ON COST FOR THE UNITED STATES NAVY



SCA, SRA & Industry Leaders

















- Review Maintenance Summit Industry Issues
- Industry's Initiatives to Improve On-Time Delivery:
- Recommendations for Improving On-Time Delivery
- Next Steps





Maintenance Summit Industry Issues

- 1. Mitigate workforce instability by ensuring workload predictability & stability
- 2. Eliminate regulatory oversight excesses & redundancies
- 3. Increase authority for deck place level decisions to expedite change requests
- 4. Adjust current bid & availability award milestones to ensure cost & schedule are met

















- 1. Thorough, Rapid Evaluation of RFQs
- 2. Continuous Review & Update of Schedules
- 3. Expediting Strategic Asset / Material Procurement Where Possible
- 4. Infrastructure & Facility Upgrades
- 5. Training & Achieving Manning Requirements
- 6. Communication, Teamwork & Partnering

















Initiative #1: Thorough, Rapid Evaluation of RFQs

- Identify Short-Comings
 - Can volume / type of work be accomplished during POP?
 - Do unrealistic contract milestones exist?
- Define & recommend ways to mitigate scheduling conflicts
- Rapidly assess potential effects of conditions found after award
- <u>Communicate</u> all findings to Navy Customer

















- Promptly notify Customer of schedule impacts
- Quickly identify work outside of basic contract
- Provide rapid reporting & pricing of RCCs
- Identify growth / new work early in avail
- <u>Communicate</u> all findings to Navy Customer

















Initiative #3: Expediting Strategic Asset / Material Procurement

- Identify & order long-lead-time materials
 - Adhere to intent of 3rd Party Purchasing LLTM
 - 3rd Party Planner unacceptable GFM delivery items passed to industry as contractor-furnished material
 - Non-Complex MACMO Award material procurement problematic
- Procure materials as far in advance as possible
- Early purchases present significant risk if contract not awarded!
- <u>Communicate</u> above info to Navy Customer

















Initiative #4: Infrastructure & Facility Upgrades

- Constant implementation of latest efficiency and technology advancements
- Update facilities / infrastructure where possible
- Risk to industry unless stable funding & workload
- <u>Communicate</u> above info to Navy Customer















Initiative #5: Training & Achieving Manning Requirements

- Enhancing awareness of Industry as a critical National Security asset
- Educating public on Industry wages & benefits
- Partnering with academic entities to establish necessary workforce training skills
- <u>Communicate</u> workforce stability concerns to Navy based on port workload predictability

















- Free-flowing COMMUNICATION achieves on-time delivery
- Drive improvements for <u>shared</u> accountability
 - Improve Navy acceptable risk & increase trust in Industry
- Identify areas for process improvement through Navy-Industry partnerships
 - **Example:** Current NSI review initiative
 - Another possible area: Public-Private Shipyard Workload Sharing
 - Industry willing to provide expertise & work in synergy to improve the Navy-owned maintenance process

















Recommendations to Improve On-Time Delivery

- Ease access issues by improving DBIDS process
 - One process & one card for access to all installations
 - Relax recently-levied MSR in-plant worker DBIDS requirement
- Alleviate uncertainty causing possible schedule impacts from AGR inconsistency
 - Provide formula / calculation method for determining AGR work & materials to Industry partners
- Provide updated Navy Interport Differential Instruction
- Illustrate implemented FAST findings to mitigate workload instability
- Re-evaluate QASPs for efficiency and clarity of purpose
 - Significantly increased monetary penalties & liquidated damages levied on Industry
 - Establish clear lines between A Quality Control Plan & the QASP

















- Complete NSI Review Initiative
- Identify additional areas of potential partnership

Bottom Line: Navy owns the process, and Private Industry is standing by to provide all possible support for the enhancement of On-Time Delivery

















NAVSEA Standard Item (NSI) Review Follow Up

DESIGN, BUILD, DELIVER AND MAINTAIN SHIPS AND SYSTEMS ON TIME AND ON COST FOR THE UNITED STATES NAVY



Mr. Dale Hirschman Mr. Bill Crow



Distribution Statement A: Approved for Public Release. Distribution is Unlimited.



- Plan of Actions and Milestones
- Leadership involvement
- The stakeholder's roles and responsibility





CG/LSD Update

DESIGN, BUILD, DELIVER AND MAINTAIN SHIPS AND SYSTEMS ON TIME AND ON COST FOR THE UNITED STATES NAVY



CAPT Kevin Byrne









- BLUF
- PB 18 CG/LSD Mod Plan
- CG/LSD Work Scope
- Execution Status
- Planned Contracting Schedule
- Way Ahead







- Nation-wide contracting approach for EDSRA availabilities (Coast-wide for BMD ships) and groupings of ships
 - Maximizes commonality / competition
 - Allows for execution efficiencies
 - Potentially improves port and dry dock loading
- NAVSEA has engaged industry on various occasions; most recent engagement was Industry Day held 16 May 2017 to further discuss: scope, commonality, schedule, potential risk areas, and contracting approaches (Coast-wide / Nation-wide)
- Significant Industry Feedback:
 - Desire for milestone flexibility, specifically docking & un-docking flexibility, in order to meet the Navy's requirements across CG/LSD MOD and OFR-P Availabilities
 - Timeline required to create responsive proposals (75-90 days)
 - Timeline required between award & availability start to adequately prepare for project execution (most agreed 60 days was sufficient; some stated 120-180 days)
 - Request for pre-RFP Ship-checks, Advanced Specifications & References, draft RFPs and specifications from previously completed CG/LSD modernization SSRAs
- Sources Sought released to industry requesting feedback on grouping, Nation-wide approach, and potentially awarding to multiple offerors



PB18 CG/LSD Mod Plan



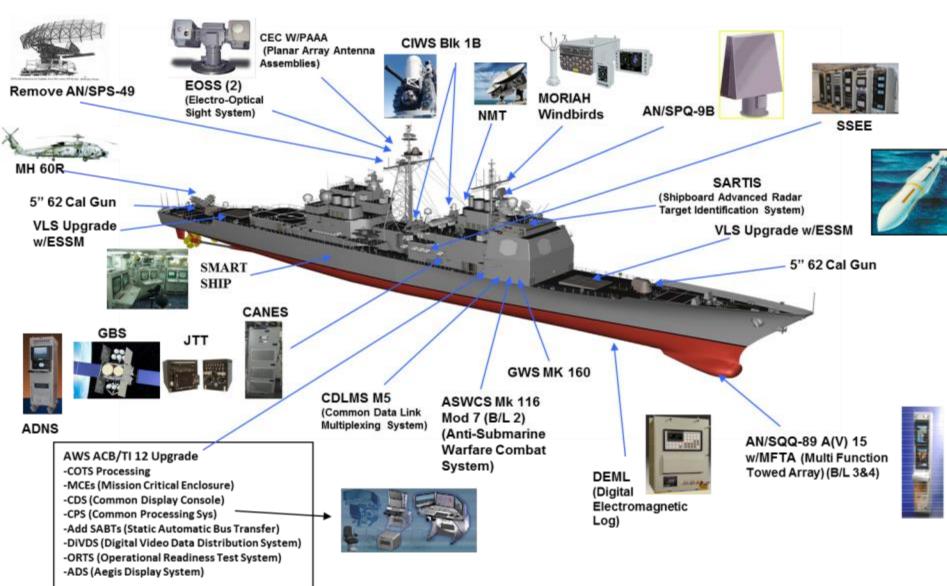
SHIP	Hull	Home Port	FY15	FY16	FY17	FY18	FY19	FY 20	FY21	FY22	FY 23	FY24	FY25	FY 26	FY27	FY28	FY 29	FY30	FY31	FY32	FY33	FY34	FY35	FY 36	FY37	FY 38
BUNKER HILL	CG52	SD																								
MOBILE BAY	CG53	SD																								
ANTIETAM	CG54	YOKO																								
LEYTE GULF	CG55	NRFK																								
SANJACINTO	CG56	NRFK																								
LAKE CHAMPLAIN	CG57	SD																								
PHILIPPINE SEA	CG58	MYPT																								
PRINCETON	CG59	SD																								
NORMANDY	CG60	NRFK																								
MONTEREY	CG61	NRFK																								
CHANCELLORSVILLE	CG62	SD/YOKO																								
COWPENS	CG 63	SD																								
GETTYSBURG	CG 64	MYPT																								
CHOSIN	CG 65	SD																								
VICKSBURG	CG 69	NRFK																								
ANZIO	CG 68	NRFK																								
CAPE ST GEORGE	CG 71	SD																								
HUE CITY	CG 66	MYPT																								
LAKE ERIE	CG 70	SD							777																	
PORT ROYAL (D)	CG 73	PH																								
VELLA GULF	CG 72	NRFK							////																	
SHILOH (D)	CG 67	YOKO/SD				VIIIIIIII																				
TORTUGA	LSD 46	LTCRK																								
WHIDBEY ISLAND	LSD 41	LTCRK																								
GERMANTOWN	LSD 42	SASEBO																								
		ipment Pr ad Time)	ocuremen	t		bat Syster urement (2				Asset	Inducti CMA		e-Modern	ization	Moderniz Industrial		Moder	nization	Avail	Dry-do	cked	Re-intr	oductio		ended /ice Life	

IAW FY-2017 National Defense Authorization Act (NDAA) requirement for 11 Air Defense Commanders (ADC) and PB-18 CG LSD MOD PLAN; modernizing CG 63, 64, 65, 66, 68, 69, and 71 and LSD 46/41/42. NMT 2 CGs inducted per year, remain in mod NMT 4 years, and NMT 6 CGs in mod at any given time.



Cruiser Modernization Work Scope







.

.

.

.

.

.

.

.

.

.

.

.

VLS Loading Equipment Removal

Women At Sea

NMT

CG Availability Scope



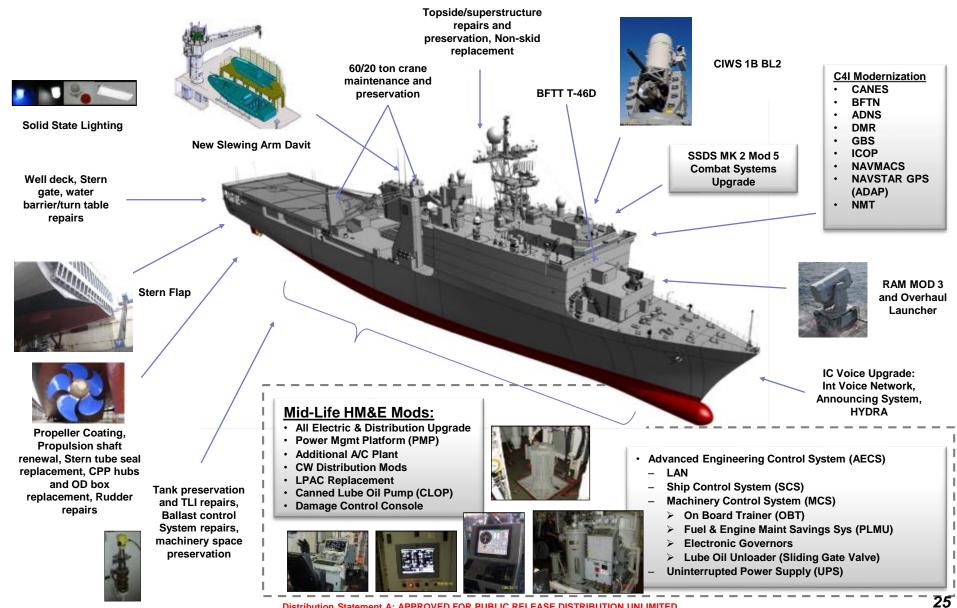
Repair **Modernization** Maintenance 02-04 Level Struc Improvement Full Docking Reset (shafts, hubs, OD boxes) Repairs of ~ 1500 Work Items based on ISEA and ship Propulsion Shafting, Strut and Stern Tube Bearings ACB12/TI12 OA Comptr Plant Upg maintenance team assessments of the following systems: Add Fresh Water Cross Connect to CMWD repair Ventilation Systems and Ducting Intakes and Exhausts ADNS INCIII W/SP3 Stern Tube Seal replacement Advanced Food Service Controllable Pitch Propeller (CPP) System, Hub CPP and MRG/Shafting Systems High and Low Pressure Air Systems AN/SLQ-32(V)6 Hardware and Propeller repair Lifelines and Guard lines AN/SPA-25H INDICATOR GROUP INS • Shaft Replacement Waster Sleeve Replace Accommodation Ladders AN/SPQ-15(V)1, DDS Watertight Hatches, doors, and closures Blast and Paint Tanks and Voids AN/SPQ-9B RADAR INSTALL/INTEGR . AN/SQQ-89A(V)15 w/TI-14 HW for CG MOD SPY Array resurfacing Oil Pollution Abatement system Seawater, Firemain, Chill Water Systems AN/USG-2B Installation Underwater Hull Repairs and preservation . 03, 04, and 05 Level Superstructure Crack repair AWS ACB12/TI12 CIC Display Upg **Degaussing System** Fuel Oil (JP-5 and F-76) and Lube Oil systems AWS: CKT 16TV COTS Upgrade (AMOD) . 400Hz Converter Room Deck Corrosion Anchor Handling and Capstans CANES . Superstructure Cracks repair Combustion Air Intake preserve (Clean Side GTM 1A, 1B Helo Hangar Door . Cathodic Protection Integrated Ship Control and Dirty Side 1B) Weapons Handling and Stowage IR Survey SWBD/LC **Chimney Space Fittings** Sonar Dome Rubber Window Repair Steering Gear **CHT System Modifications** . Electric Plant **Corrosion Control Enhancements** Accomplish Mast Preservation . Bleed Air System – Masker and Prairie Air **Crew Physical Fitness Center** Repair Impressed Current Cathodic Protection System . Delete Catwalk FWD/STBD 03 LVL HPAC Overhaul Slewing Arm Davit and Life Rafts . Collection, Holding, and Transfer (CHT) **Delete Radiation Shielding** . Seal Valve Repair/Replace **Electronic Ground Fault Detectors** SWS Pump Overhaul Air Conditioning and Refrigeration Systems Potable Water System Fan Room Corrosion Mitigation and Avoidance Fire Pump Overhaul . Sonar Dome Pressurization System Heat Exchanger Layup Isolation Deck Drain Cleaning . AFFF, CO2, Halon Firefighting Systems Increase Fatigue Strength Fr 138 . Bimetallic Strip Replacement VLS and Magazine Sprinkler Systems Install Radar TLIs for Freshwater and Lube Oil Tanks . GT Overhaul Main and Secondary Drainage and MVHCs Install Remote Fire Toggle Switch Bilge Pump Overhaul NAVSSI / WSN-7 Ring Laser Gyro Electronic Cooling Water Skid Overhaul Interior Voice Com System Upgr . MH-60R Upgrades . **Topside Painting** SPY Transmitter and signal processor Fire Control System MK 34 GWS CG MOD TI12 ACB12 H Electronic Colling Water MK 41 VLS CG Ship ALT 400 hz system MORIAH WIND SYSTEM FOR CG MOD . Light Airborne Multipurpose System (LAMPS) QAWT Aluminum Door Upgrade Tactical Tomahawk (TTWCS) System Remove AN/SPS-49 Radar System/Platform IC Switchboards and alarm panels Replace Abandon Ship Equipment Lockers Replace Compartment Deck Coverings Shore Power Station repair Replace MK 4 Mod 2 EM Log Fan room and cooling skid repairs Replace Seawater Boundary Valves with TOTS Corrosion repairs PRC deck repairs SARTIS AN/UPX-34(XX) Non-skid replacement Superstructure Fatigue & Sensitization Mod Tank Level Indicator Upgrade

- Repair/correct all temporary departures from specifications (DFSs)
- Approximately 50-70 per CG



LSD 46 Modernization Work Scope







LSD Availability Scope



Repair **Modernization** Maintenance Full drvdocking reset All Electric & Distribution Upgrade MK 6 Mod 0 EM Log Replacement . Repairs of ~ 2400 Work Notifications based on ISEA PLMU and COSSI Propeller blades Gallev Upgrades . Propulsion shaft renewal and ship maintenance team assessments of the Machinery Control System (MCS) / Habitability Upgrades . Stern tube seal replacement following systems: . CPP hubs and OD box replacement Advance Engineering Control System Deballast Compression Improvement NAVSSI / WSN-7 Ring Laser Gvro Rudder repairs (AECS) Local Area Network (LAN) Tank Level Indicator Upgrades . Ventilation Systems and Ducting Ship Control System (SCS) LP Air Flasks . Ballast tank flooding valves Additional Air Conditioning Plant / CW Intakes and Exhausts Composite Stern Gate Control Panel remove/inspect/repair HPAC upgrade / HPAC Cross Connect . Sea valves remove/inspect/repair CPP and MRG/Shafting Systems Distribution Mods . MPDE/SSDG required maintenance and . Power Management Platform (PMP) Valves High and Low Pressure Air Systems LPAC Replacement Galley Vent Control Cabinet Upgrade repairs . Lifelines and Guard lines . HPAC/LPAC maintenance and repairs Slewing Arm Davit **CRYPTO Van Junction Box Removal** . Accommodation Ladders Lube Oil Unloader (Sliding Gate Valve) INOGON LCAC Line-up Light Removal . **ICCP** repairs . Well deck repairs to wood and synthetic Watertight Hatches, doors, and closures Damage Control Console Upgrade* SCAC with FCA replacement Low Light Flight Deck Surveillance System **ASW Suction Strainer Replacement** material Oil Pollution Abatement system . Underwater hull repairs and preservation Stern Flap LCAC Fuel Oil Control Replacement . . Seawater, Firemain, Chill Water Systems . MV-22 Mods Fresh Water Coolant for SLQ32 Topside/superstructure repairs and **Degaussing System Overhaul RAM launchers*** OWS dedicated suction Line preservation . Fuel Oil and Lube Oil systems RAM MK31 MOD3 Ethernet Upgrade Carver ASW Pump . Ventilation systems cleaning and repairs Main Propulsion Diesel Engines/Ships Service . Maintenance/preservation on 60/20 ton SSDS MK2 CS Upgrade Synthetic Decking **Diesel Engines** Scalable Integrated Bridge System Replace CHT pumps with EDDY pumps cranes . Well deck structural repairs and preservation Anchor/Capstans/dumbwaiters BFTT Replace Dossert Lug Connectors . . . **CIWS Block 1B Next Generation** Mercury-Xenon Searchlight Replacement . Tank assessments and preservation Cargo/ammo elevator and handling services . Lagging and insulation replacement AN/SPS-67(V)1 Waveguide Filter Accommodation Ladder Armory and Ready Service Lockers . . Tank level indicator repairs BEWT HME Machinery Control System Tech Deballast Air System . Ballast control system repairs PEOC4I COMSEC Serial Crypto Refresh Hangar ramp and roller steel Fire Door . Stern gate/water barrier/turntable repairs and Replacement Replace obsolete 80 ton AC units SLQ 32 (V)6 **Oily Water Separator Upgrades** preservation 20 and 60 ton and well deck bridge cranes . Conveyor and elevator Advanced Digital Antenna Interior Communication Upgrades Weapons Handling and Stowage BFTN AN/USQ-195 (V) 1 assessment/testing/repairs 60 Ton Crane Upgrade Steering Gear/Rudders . . Air conditioning plants maintenance and . NMT Q/Ka/X/GBS 20 Ton Crane Upgrade Electric Plant/power distribution/400hz KMI AN/GYK-72(V) Well Deck 15 ton crane replacement repairs Machinery space and shaft alley bilge Slewing Arm Davit and Life Rafts ADNS AN/USQ-144K (V) 2 Ballast Control Console Upgrade . Generator and Bus Tie Circuit Breaker preservation Collection, Holding, and Transfer (CHT) Solid State Lighting - Well Deck . ASW/CHT/firemain piping repairs and NAVMACS Technical Refresh installation Air Conditioning and Refrigeration Systems COM SERCRYP REPL PH-II HPAC Controls Upgrade replacement Potable Water System . . Lube oil and fuel oil purifier repairs CANES ANUSQ-208(V)3 SSDG LO Bearing Modifications MHE Battery Chargers COMSEC KW46 SSDG Casualty Load Management . Weather deck/flight deck non-skid AFFF, CO2, Halon, APC Firefighting Systems replacement . ICOP MPDE LO Integration SPS-73 Fast Ethernet Switch Rudder Angle Transmitter Magazine Sprinkler Systems PEOC4I NMT ATIP RAM MOD 3 Mod Main and Secondary Drainage PEOC4I DMR IW and MUOS Roller Curtain Door Replacement . . Electronic Colling Water NAVSTAR GPS (ADAP) . Troop Armory Upgrade IC Switchboards and alarm panels MRG LO Pressure Control Military Vehicle Handling and Stowage System SSDG Low Load Control Panel Modular Refrigeration Unit (MRU) Stern Gate and Water Barrier .

- Repair/correct all temporary departures from specifications (DFSs)
- Approximately 90-110 per LSD

*-Mod availability completed on all three LSDs



CG Execution Status (East Coast)



FY1			FY	2			FY	3				FY4				FY5				
Q1 Q2 Q3 Assess ICM		Q1	Q2 SS	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3 Dock	Q4	Q1	Q2	Q3	Q4 Re-Intro			
~30 days ~90 d			~180 da								annis II		a 75 - 545 d	-			~90 days			
Hulls (5)	Ass	essm	ent		ICM	AV		SSF	RA(s)			E	DSRA			Re-In	tro			
CG 64 (USS GETTYSBURG)	 ✓ Inport ✓ Underway 	ay			Completed 02 Oct 201		2017 ✓ SIDS	SSRA: 06 Complete Complete Checks: Co		6 – 14 Fel	> 0 ✓ ✓	11 Jun 201 SIDS: Com Ship Check	, plete		TYC crew reinte	Reintroduc OM led an shakedov egration to ational Fle	d involves vn, o an			
CG 69 (USS VICKSBURG)	✓ Inport✓ Underw	ay			Completec 01 Jul 201		Jan 2 ✓ SIDS ✓ Ship ○ FY18 2018 ✓ SIDS:	7 SSRA: 03 018 (Awar : Complete Checks: Co SSRA: 02 Complete Checks: Co	ded 15 Fo omplete Apr 2018	eb 2017)	0	03 Dec 201 SIDS: Not c Ship Check	omplete		and		beginning			
CG 66 (USS HUE CITY)	Inport:Under		19	-	24 Jun 20 Sep 2019	19 – 27	N/A				0000	SIDS: Not	22 – 29 Sep complete ks: Not con							
CG 68 (USS ANZIO)	 ✓ Inport ✓ Underw 	ay			Completed 2 May 20		Aug 2 ✓ SIDS ✓ Ship ○ FY19 2019 ○ SIDS	: Complete Checks: Co SSRA: 02	omplete Jan 2019			SIDS: No)19 – 04 Ju t complete cks: Not co	-						
CG 72 (USS VELLA GULF)	N/A			N/A	A land		N/A				0	FY21								

 \checkmark = complete

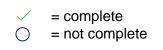
) = not complete



CG Execution Status (West Coast)



FY1			FY	′ 2			FY	3				FY4					FY5				
Q1 Q2 Q3		Q1	Q2	Q3	Q4	Q1	Q2	Q 3	Q4	Q1	Q	2 Q3 Q4 Q1 Dry Dock EDSR					Q2	Q 3	Q4		
Assess ICMA									A		Re-Intro										
~30 days ~90 da	ays		~180 da	ays			~18	days					~475 - 545 days					-	-90 days		
Hulls (6)	As	sessm	nent		ICN	IAV		SS	RA(s)				E	DSRA				Re-In	tro		
CG 63 (USS COWPENS)	 ✓ Inport ✓ Underv 	way			Complete 15 Sep 2		201 ○ FY1 201 ✓ SID	7 SSRA: 0	6 Jun 20 te	17 – 09 F		O SID	S: Not co	– 30 Sep omplete : Complet			TYCO crew s reinteg operat and m	shakedow gration to tional Fle arks the	d involves /n, an et asset beginning		
CG 65 (USS CHOSIN)	✓ Inport✓ Underv	way			Complete 01 Jul 20		201 ✓ SID	7 SSRA: 1 8 S: Complet O Checks: (e		Apr	O SID	02 Feb 2019 – 02 Jun 2020 SIDS: Not complete Ship Checks: Not complete				of training cycle				
CG 67 (USS SHILOH)	N/A			N/	Ά		N/A					O FY2	21								
CG 70 (USS LAKE ERIE)	N/A			N/	Ά		N/A					O FY2	21								
CG 71 (USS CAPE ST GEORGE)	✓ Inport✓ Underv	way			Complete 10 Apr 2		201 SSF ✓SIDS	8 SSRA: 0 8 (Pending &A: 19 Mar 3: Complete Checks: C	Date Ch 2018 – 1 e	ange: FY	′18	O SID	S: Not co	9 – 02 Jun omplete :: Not com	-						
CG 73 (USS PORT ROYAL)	N/A			N/	A		N/A					0 F)	Y21								





LSD Execution Status



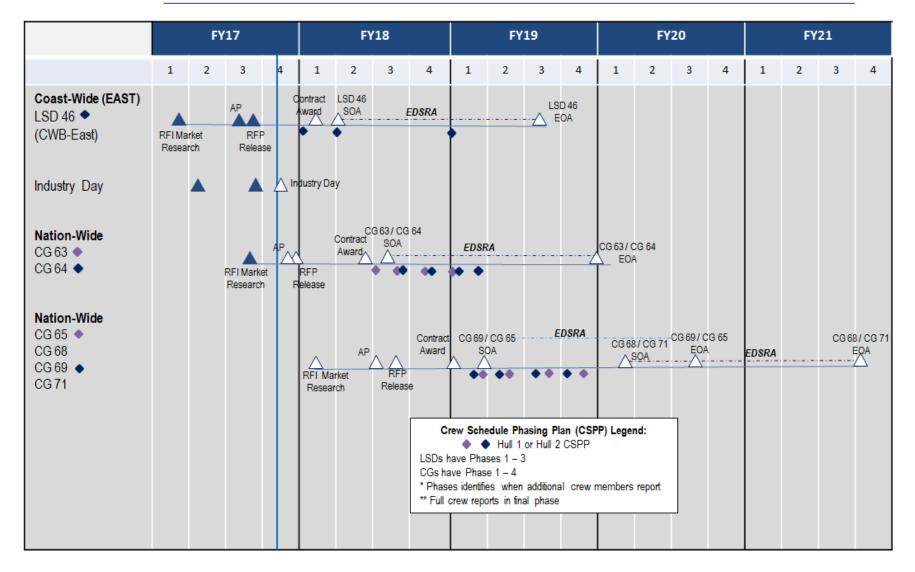
FY1			FY2	2			FY3	3				FY4			F	FY5		
Q1 Q2 Q3 Assess ICM		Q1	Q2 SSR		Q4	Q1	Q2 SSRA _x (A		Q4	Q1	Q2 Dry I	Dry Dock EDSF			Q2 SRA	A Re-Intr		
~30 days ~90 d	ays		~180 day	'S			~180	days				~47	′5 - 545 da	ays		-	-90 days	
Hulls (3)	Ass	sessm	ent		ICM	AV		SS	RA(s)			E	DSRA			Re-Int	ro	
LSD 46 (USS TORTUGA)	 ✓ Inport ✓ Underw 	vay			mpleted Jan 201		✓ FY16 2016	SSRA: Co	ompleted	23 Dec	🗸 S	08 Jan 2018 IDS: Compl hip Checks:	ete	2019	TYCO crew s reinteg	eintroduc M led and hakedown gration to ional Flee	l involves n, an	
LSD 41 (USS WHIDBEY ISLAND)		: FY18 way: FY′	18		1 Oct 20 ec 2019	19 – 30	202 O SID	20 SSRA: 0 0 S: Not com o Checks: I	nplete		0	01 Oct 202′ SIDS: Not c Ship Check	omplete		of trair O LS	ning cycle	beginning NT: 01 Jul Sep 2019	
LSD 42 (USS GERMANTOWN)		: FY22 way: FY2	22		1 Oct 202 ec 2023	23 – 30	Dec O SID	24 SSRA: (2024 S: Not com Checks: I	nplete		Ō	03 Nov 202 SIDS: Not c Ship Check	omplete	-				

\sim	= complete
0	= not complete



Planned Contracting Schedule









- Nation-wide Contracting Approach for 7 CGs
 - Nation-wide contract effort began in April 2017 for CG 63 and CG 64 combined solicitation
- CG 63 and CG 64 RFP release date 25 Sept 2017 (advance package release notionally 25 Aug 2017)
- Continued Fleet and Industry engagement to ensure stakeholders remain informed of the overall strategy



Dry Dock Update

DESIGN, BUILD, DELIVER AND MAINTAIN SHIPS AND SYSTEMS ON TIME AND ON COST FOR THE UNITED STATES NAVY



Mr. Tom Laverghetta





Overview

- Docking Workload Pressures
- Surface FAST Analysis "San Diego Docking Schedule"
- Mitigation Strategies
- Next Steps

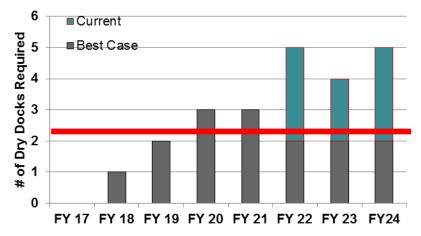


- General volume of workload and dry docks as Fleet grows – dry dock "congestion"
- Major MOD programs (CG MOD, LSD MOD, DDG Midlife avails)
- Shortened dry docking cycle for LCS with rapidly increasing inventory
- Future competition for dry dock space with Submarine forces (DD#4 in Hawaii, Guam-based AS's in CONUS)



LCS 2 Variant Dry Dock – Biggest Contributor to Future Dock Loading

LCS 2 Dry Dock Requirement -SWRMC



Worst Case				Dry Doc	k Require	d Every Av	ailability		
Ship#	Ship Name	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	FY24
LCS 0002	USS INDEPENDENCE			1			1		
LCS 0004	USS CORONADO		1		1			1	
LCS 0006	USS JACKSON			1			1	1	
LCS 0008	USS MONTGOMERY				1				
	USS GABRIELLE								
LCS 0010	GIFFORDS				1		1		
LCS 0012	USS OMAHA					1			1
LCS 0014	USS MANCHESTER					1			1
LCS 0016	USS TULSA					1			1
LCS 0018	USS CHARLESTON						1		1
LCS 0020	USS CINCINNATI						1	1	
LCS 0022	USS KANSAS CITY							1	
LCS 0024	USS OAKLAND								
LCS 0026	USS MOBILE								1
		-							
	Total	0 Dry Dock	1 Required 8	2 Every Oth	3 er Availabi		5 g EV 21 (Fi		Dry Doc
Best Case		Dry Dock	Required	Every Oth	er Availabi	lity Startin	g FY 21 (Fi	rst One is	
Ship#	Ship Name			Every Othe FY 19			g FY 21 (Fi FY 22		Dry Doc FY24
Ship# LCS 0002	Ship Name USS INDEPENDENCE	Dry Dock	Required I FY 18	Every Oth	er Availabi FY 20	lity Startin	g FY 21 (Fi	rst One is FY 23	
Ship# LCS 0002 LCS 0004	Ship Name USS INDEPENDENCE USS CORONADO	Dry Dock	Required	Every Othe FY 19 1	er Availabi	lity Startin	g FY 21 (Fi FY 22 0	rst One is FY 23 0	
Ship# LCS 0002 LCS 0004 LCS 0006	Ship Name USS INDEPENDENCE USS CORONADO USS JACKSON	Dry Dock	Required I FY 18	Every Othe FY 19	er Availabi FY 20 1	lity Startin	g FY 21 (Fi FY 22	rst One is FY 23	
Ship# LCS 0002 LCS 0004	Ship Name USS INDEPENDENCE USS CORONADO USS JACKSON USS MONTGOMERY	Dry Dock	Required I FY 18	Every Othe FY 19 1	er Availabi FY 20	lity Startin	g FY 21 (Fi FY 22 0	rst One is FY 23 0	
Ship# LCS 0002 LCS 0004 LCS 0006 LCS 0008	Ship Name USS INDEPENDENCE USS CORONADO USS JACKSON USS MONTGOMERY USS GABRIELLE	Dry Dock	Required I FY 18	Every Othe FY 19 1	er Availabi FY 20 1 1	lity Startin	g FY 21 (Fi FY 22 0	rst One is FY 23 0	
Ship# LCS 0002 LCS 0004 LCS 0006	Ship Name USS INDEPENDENCE USS CORONADO USS JACKSON USS MONTGOMERY	Dry Dock	Required I FY 18	Every Othe FY 19 1	er Availabi FY 20 1	ility Startin FY 21	g FY 21 (Fi FY 22 0	rst One is FY 23 0	
Ship # LCS 0002 LCS 0004 LCS 0006 LCS 0008 LCS 0010	Ship Name USS INDEPENDENCE USS CORONADO USS JACKSON USS MONTGOMERY USS GABRIELL GIFFORDS	Dry Dock	Required I FY 18	Every Othe FY 19 1	er Availabi FY 20 1 1	lity Startin	g FY 21 (Fi FY 22 0	rst One is FY 23 0	FY24
Ship # LCS 0002 LCS 0004 LCS 0006 LCS 0008 LCS 0010 LCS 0012	Ship Name USS INDEPENDENCE USS CORONADO USS JACKSON USS MONTGOMERY USS GABRIELLE GIFFORDS USS OMAHA	Dry Dock	Required I FY 18	Every Othe FY 19 1	er Availabi FY 20 1 1	lity Startin FY 21	g FY 21 (Fi FY 22 0	rst One is FY 23 0	FY24
Ship # LCS 0002 LCS 0004 LCS 0006 LCS 0008 LCS 0010 LCS 0012 LCS 0014	Ship Name USS INDEPENDENCE USS CORONADO USS JACKSON USS MONTGOMERY USS GABRIELLE GIFFORDS USS OMAHA USS MANCHESTER	Dry Dock	Required I FY 18	Every Othe FY 19 1	er Availabi FY 20 1 1	lity Startin FY 21	g FY 21 (Fi FY 22 0	rst One is FY 23 0	FY24
Ship # LCS 0002 LCS 0004 LCS 0006 LCS 0008 LCS 0010 LCS 0012 LCS 0014 LCS 0014	Ship Name USS INDEPENDENCE USS CORONADO USS JACKSON USS MONTGOMERY USS GABRIELLE GIFFORDS USS OMAHA USS MANCHESTER USS TULSA	Dry Dock	Required I FY 18	Every Othe FY 19 1	er Availabi FY 20 1 1	lity Startin FY 21	g FY 21 (Fi FY 22 0 0	rst One is FY 23 0	FY24
Ship # LCS 0002 LCS 0004 LCS 0006 LCS 0010 LCS 0010 LCS 0012 LCS 0014 LCS 0016 LCS 0018	Ship Name USS INDEPENDENCE USS CORONADO USS JACKSON USS MONTGOMERY USS GABRIELLE GIFFORDS USS MANCHESTER USS MANCHESTER USS CHARLESTON	Dry Dock	Required I FY 18	Every Othe FY 19 1	er Availabi FY 20 1 1	lity Startin FY 21	g FY 21 (Fi FY 22 0 0	FY 23 O 1	FY24
Ship# LCS 0002 LCS 0004 LCS 0008 LCS 0010 LCS 0012 LCS 0014 LCS 0016 LCS 0018 LCS 0020	Ship Name USS INDEPENDENCE USS CORONADO USS JACKSON USS MONTGOMERY USS GABRIELLE GIFFORDS USS OMAHA USS MANCHESTER USS TULSA USS CINCINNATI	Dry Dock	Required I FY 18	Every Othe FY 19 1	er Availabi FY 20 1 1	lity Startin FY 21	g FY 21 (Fi FY 22 0 0	irst One is FY 23 0 1	FY24
Ship # LCS 0002 LCS 0006 LCS 0008 LCS 0010 LCS 0012 LCS 0014 LCS 0014 LCS 0018 LCS 0020 LCS 0020	Ship Name USS INDEPENDENCE USS CORONADO USS JACKSON USS MONTGOMERY USS GABRIELLE GIFFORDS USS OMAHA USS MANCHESTER USS CHARLESTON USS CHARLESTON USS CHARLESTON	Dry Dock	Required I FY 18	Every Othe FY 19 1	er Availabi FY 20 1 1	lity Startin FY 21	g FY 21 (Fi FY 22 0 0	irst One is FY 23 0 1	FY24

- Addition of LCS 2 variant has exacerbated "tight" dry dock capacity in San Diego
- Current requirement has between 4 5 dry dockings required per fiscal year
- Best case scenario will require between 2 to 3
 dockings per fiscal year

Insufficient dry dock capacity to support assigned Fleet



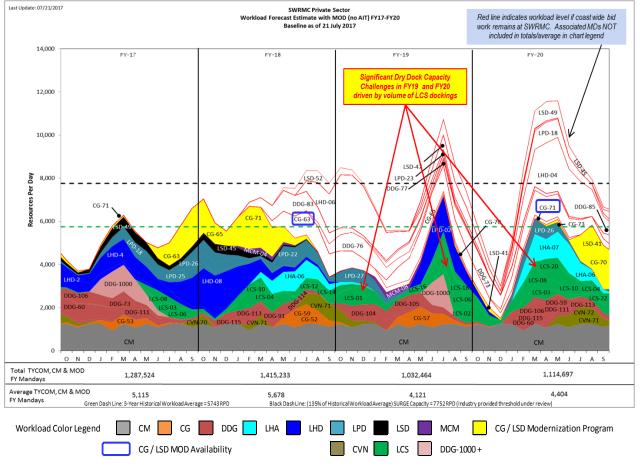
Surface FAST DoN 19 Summary of Analysis (FY 17 – FY 20)

Briefed to FMBOD of 22 MAY 2017 and M&M Summit of 6 JUN 2017

Port	FY 17 – FY 19	Summary	Lead
SERMC		 Acceptable dry dock capacity through FY-20. Challenged to align PC and LCS dockings due to shifting DPMA and PSA schedules 	CDR Delaney/ Bill Mclean
MARMC		 Possible at least three docking avails "out of homeport" in FY 18/ 19 due to a lack of dry dock capacity 	CDR Delaney/ Mike Harris
SWRMC		 FY 20 and beyond the plan is not executable due to lack of dry dock capacity versus requirement Docking workload mitigation required in FY18 and FY19 	Leon Stone/ Ed Atwater/ Tim Toohig
HRMC		 DDG 88, DDG 97, DDG 90 SRAs de-conflicted DDG 70 to remain homeported in HRMC Coordinate Off-island resources required for larger avails 	Mike Carnes / Leon Stone
NWRMC		 Mitigate schedules pending final decision on USS SHOUP Modernization plan 	Ann Rodeheaver / Leon Stone
Yokosuka		 Propose mitigations for SRF Yokosuka FY21: CNSP (w/CTF 70) Incorporate recommendations from CRUDES Maintenance Strategy proposal 	Pat McDermott/ Leon Stone
Sasebo		 Develop induction plan for Sasebo ships Validate FY20 Workload 	Pat McDermott / Leon Stone
Rota		- No foreseeable constraints	Bill Mclean
Bahrain		- No foreseeable constraints	Bill Mclean



SWRMC Private Sector Workload Forecast FY17-FY20



<u>Summary</u>

- San Diego Dry dock capacity does not support assigned Fleet workload without significant mitigation
- Workload is not executable beyond FY 20 due to lack of dry dock capacity
- FY20 workload requires update and mitigation.
- Expect to execute at least <u>two</u> docking avails "out of homeport" in FY 18/ FY 19 due to a lack of dry dock capacity

Ongoing Action Items

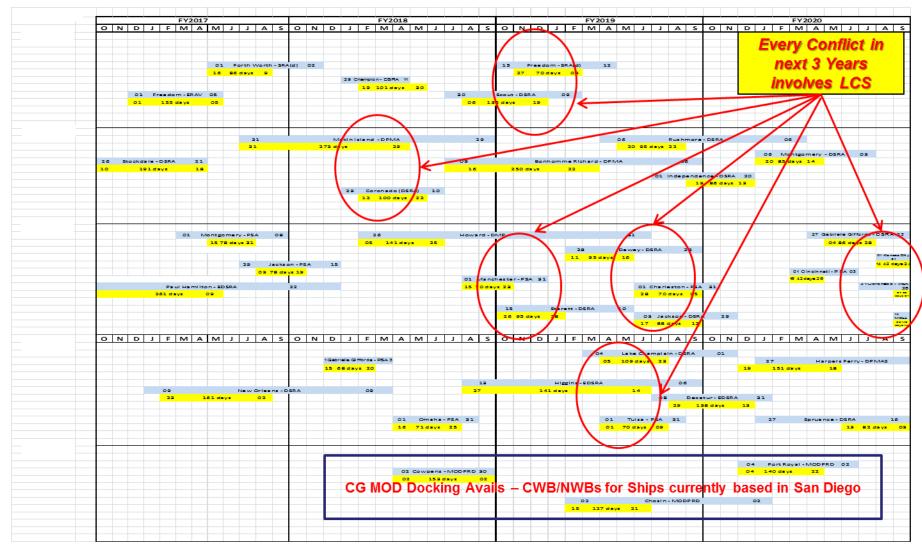
- Continue to examine potential schedule shifts to level load end of FY 19 -20 (SMP)
- Examine options to alleviate long term dry dock capacity concerns
 - Acquire dry dock?
 - Modify Graving Dock?
 - Double dry dock of LCS Avails?
 - LCS Avails performed out of port?
 - SEA05/ PMS 505 develop plan to reduce dry dock requirement for LCS 2 variant

FY 20 and beyond is not executable based on dry dock capacity



FY17-FY20 SWRMC Notional Docking Schedule

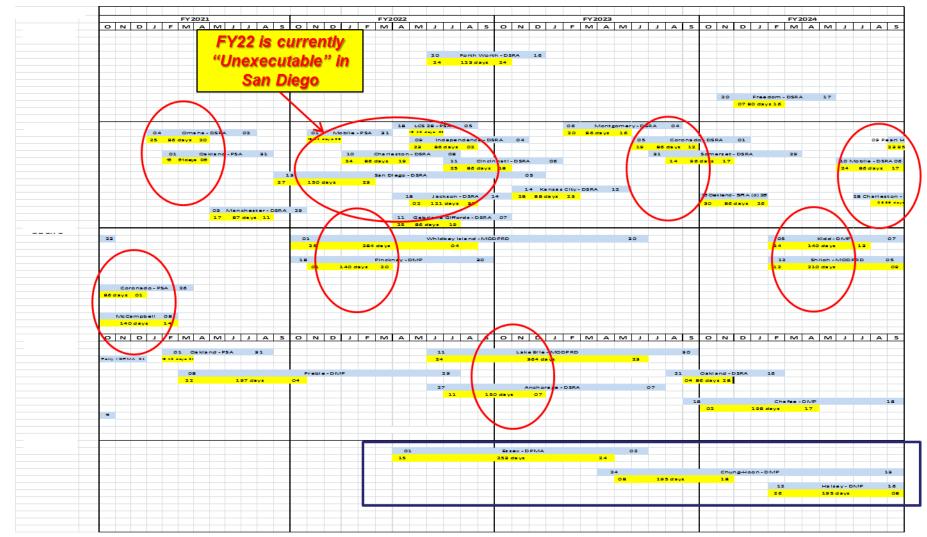
Pre-Decisional – For Planning Purposes Only





FY21-FY24 SWRMC Notional Docking Schedule

Pre-Decisional – For Planning Purposes Only





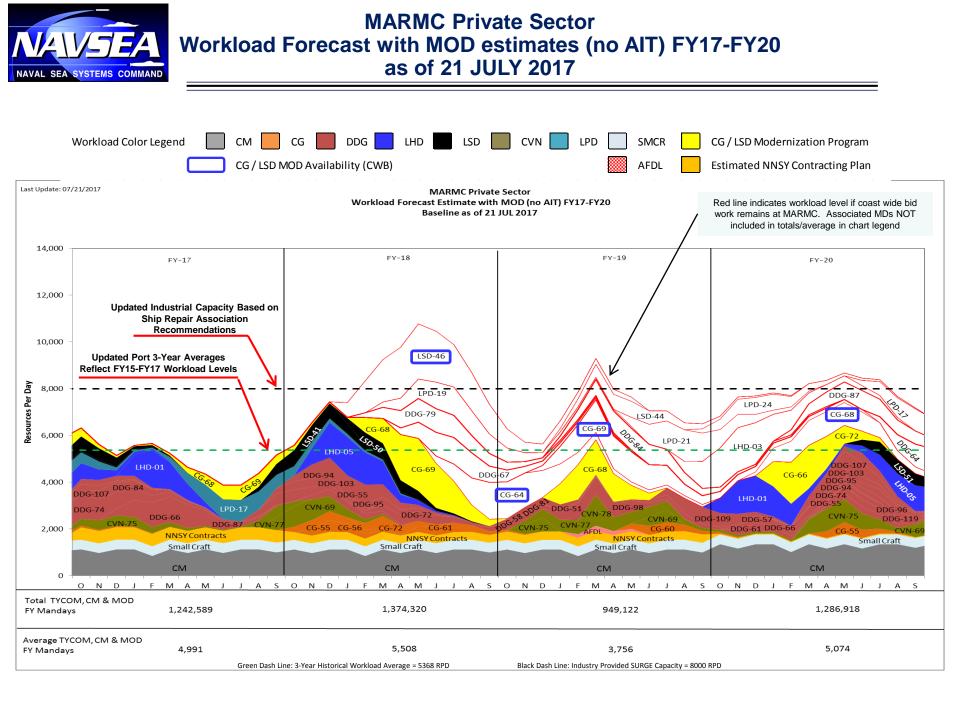
- Traditional, O-FRP/SMP adjustments
 - Primary mitigation of FY18 and FY19 issues in all ports
 - Fleet priority is O-FRP schedule ships over "other" ships (PSA, CG/LSD MOD)
- Competition
 - CWB avails open potential for docking capacity outside traditional ports
 - CNSP N00 request NAVSEA explore possibility to compete shorter, small docking avails (LCS) to lessen impacts on larger ships
- Double Docking Options
 - DDGs and PCs are examples of recent successful events
 - Multiple LCS avails in FY19 and beyond provide potential for concurrent docking
- San Diego overall Dock Capacity
 - Expand NBSD Graving Dock to fit DDG, LCS2...currently only MCM and LCS1
 - Add another Floating Dock to port (Mole Pier)
 - CPF commissioned NAVFAC study with out brief to Navy leadership mid-winter
- Work with SEA04 and PHNSY Regarding DD#4
 - Currently dedicated to Surface avails
 - "2030" timeframe VIRGINIA class will need DD#4 unless NEWCON can be accomplished for Submarine capabilities

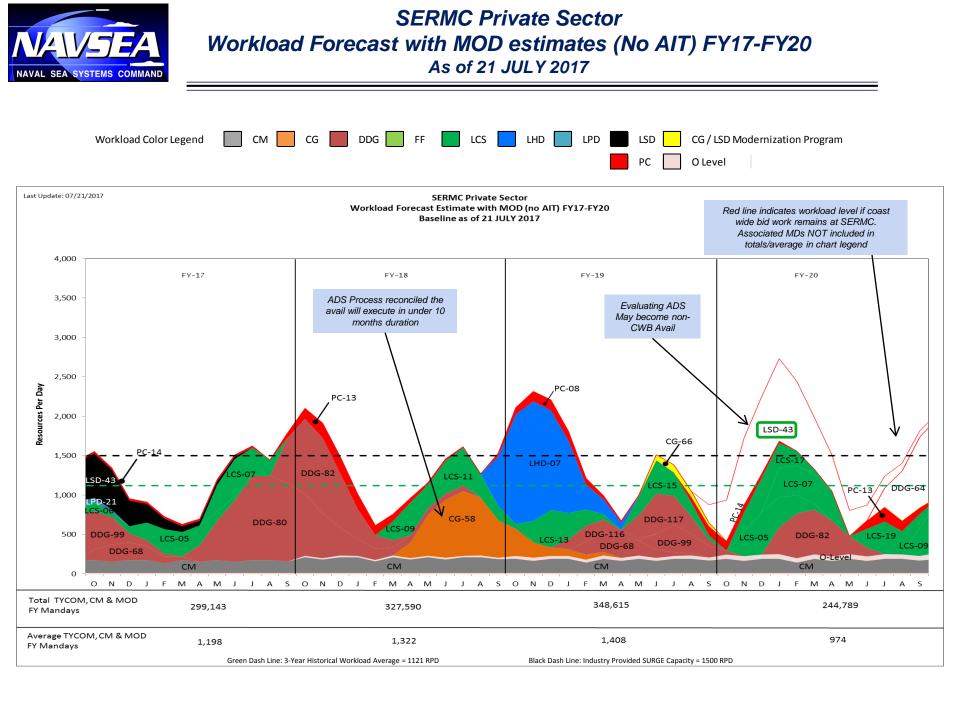


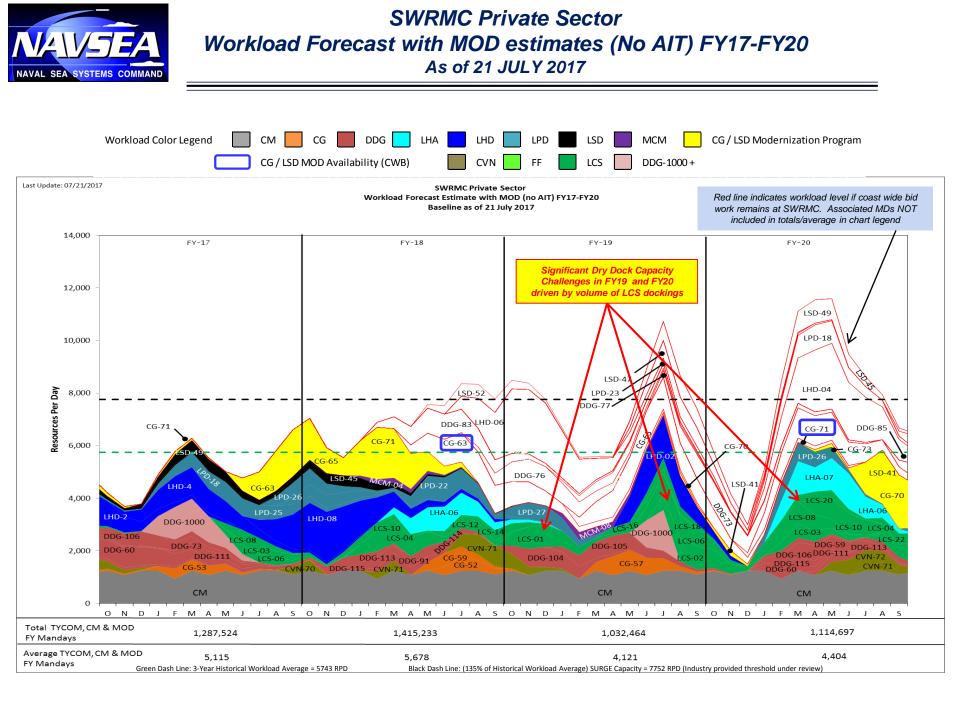
- September Surface FAST (POM20) to focus on FY19 and FY20 mitigation strategies
- Complete and report out NBSD Dock Expansion Studies
- Compete and stabilize CG/LSD MOD availabilities
- Comprehensive NAVSEA Dry Docking report ISO New Construction and Acquisition for POM20/POM21



Backup



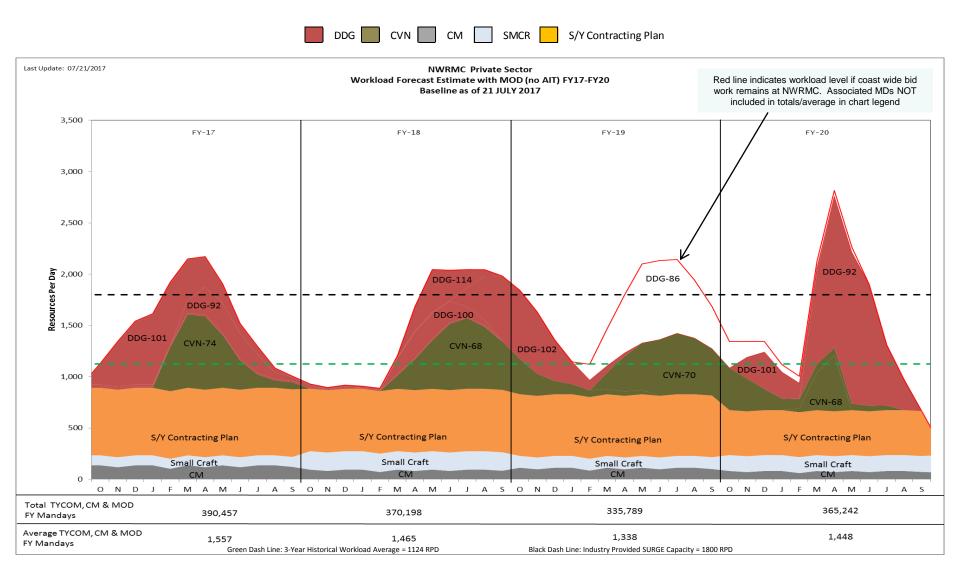






NWRMC Private Sector Workload Forecast with MOD estimates (No AIT) FY17-FY20

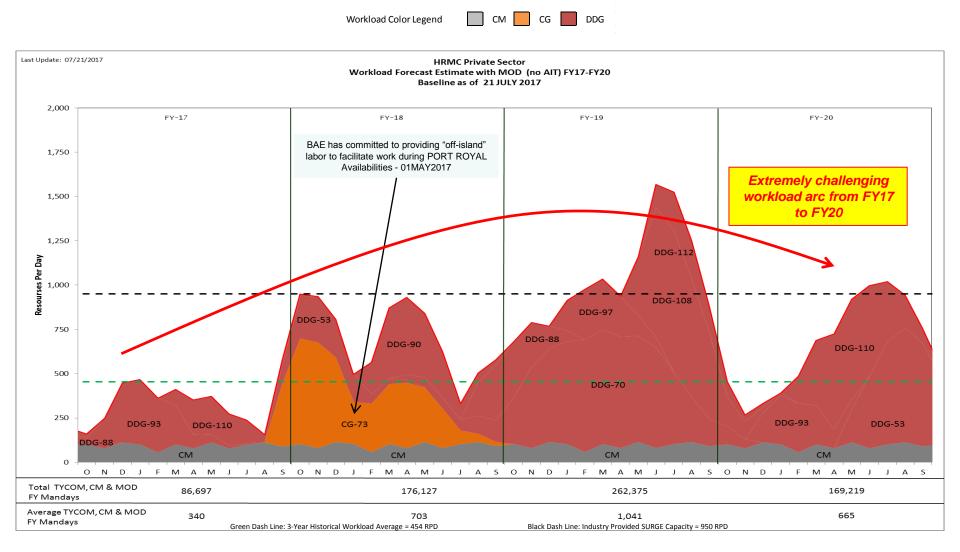
As of 21 JULY 2017





HRMC Private Sector Workload Forecast with MOD estimates (No AIT) FY17-FY20

As of 21 JULY 2017





Split CLIN Overview

DESIGN, BUILD, DELIVER AND MAINTAIN SHIPS AND SYSTEMS ON TIME AND ON COST FOR THE UNITED STATES NAVY



CDR Tommy Neville



Distribution Statement A: Approved for Public Release. Distribution is Unlimited.



BLUF: The Navy is exploring having RMCs utilize a "Split CLIN" structure when awarding ALL ship repair contracts to provide maximum funding flexibility.

Background:

- A Split Contract Line Item Number (CLIN) structure is defined as utilizing Base CLINs with minimum \$ and multiple Option CLINs with maximum \$
 - Base CLINs would include: Mod Work, Services, Work requiring pre-fab ~ NTE 20% of total avail cost
 - Option CLINs would include: Repair Work, Critical Path Items, All remaining work items ~ 80% of total avail cost
- Initial problem centered around avails that cross FYs...Q1 Avail starts
- Potential solution expanded to utilize Split CLIN approach for all Avails
- Provides increased funding flexibility in a resource constrained environment

The Navy desires Industry's feedback on this contract structure





Discussion

- FY18 Q1 availabilities are budgeted/programmed for FY18 \$ but awarded in FY17 Q4 with FY17 \$
 - Traditional contract structure would have increased the FY17 requirement by \$141M
- Recurring issue for availabilities that award in Q4 and start execution in Q1 of the next fiscal year
 - Challenge increases as move to A-120 Coast Wide Award milestone
- Continual Continuing Resolution (CR) environment is making funding avails in a timely fashion a challenge and can lead to unfunded avails or moving avails
 - MASON, WHIDBEY ISLAND, NITZE
- NAVSEA Legal endorsed utilizing Split CLIN approach due to funding constraints given:
 - The supply resulting from the performance of the Base CLIN must reasonably be expected "to stand on its own," i.e., if the Option CLIN is not exercised, the Navy still has a usable asset that is "mission-ready."
 - A clearly defined timeline to execute the Option CLINs is provided
 - Bona Fide Need is met

• Structure utilized on 4 FY18 Q1 start Avails

- BATAAN, SAN JAC, LEYTE GULF, SQUALL
- Option CLINs will be funded and exercised prior to Avail start ~ between A-60 thru A-0



Feedback & Dialogue

Open Dialogue

- Pros
- Cons
- Risks







Meeting Wrap Up & Questions

DESIGN, BUILD, DELIVER AND MAINTAIN SHIPS AND SYSTEMS ON TIME AND ON COST FOR THE UNITED STATES NAVY



CDR Tommy Neville



Distribution Statement A: Approved for Public Release. Distribution is Unlimited.



Follow UP





Backup



