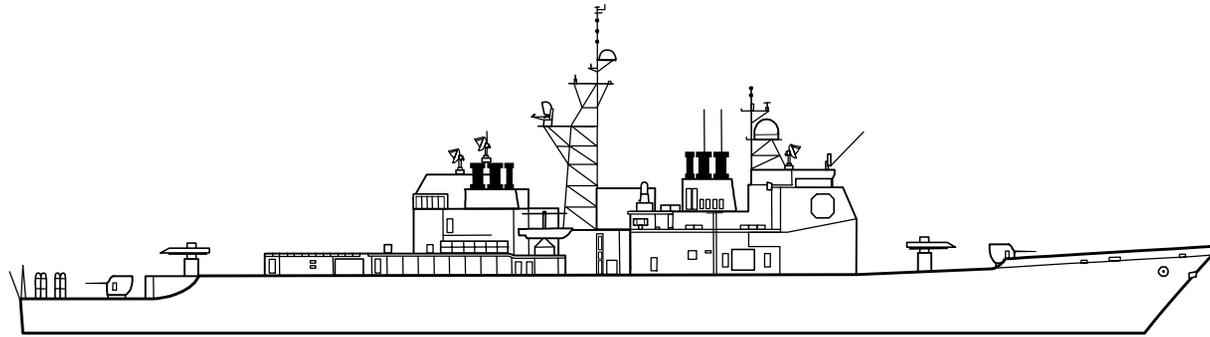


Joint C5RA & SEMAT II



USS Sample (CG 99)

Pre-Visit Brief

4/01



Joint C5RA & SEMAT II: Outline

- Introduction
- Maintenance Cycle
- Class Averages
 - Visit Personnel
 - Funding
- Method of Visit
 - Assessment and Training
 - Parts Procurement
 - Repairs
 - Other Services
- Equipment Lists
- Support Needed From the Ship
- Visit Event Coordination
- Key Personnel Contact List



Joint C5RA & SEMAT II: An Introduction

C5RA (Combat Systems, Command, Control, Communications and Computer Readiness Assessment) is a condition-based assessment program for Combat Systems & C4I equipment and systems. Sponsored by COMNAVSURFLANT and executed by Fleet Technical Support Center, Atlantic (FTSCLANT), C5RA is typically comprised of two, 2-week phases. Phase I (usually in conjunction with SEMAT II) assesses, repairs and trains. Phase II performs additional repairs and training as required based on the results of Phase I.

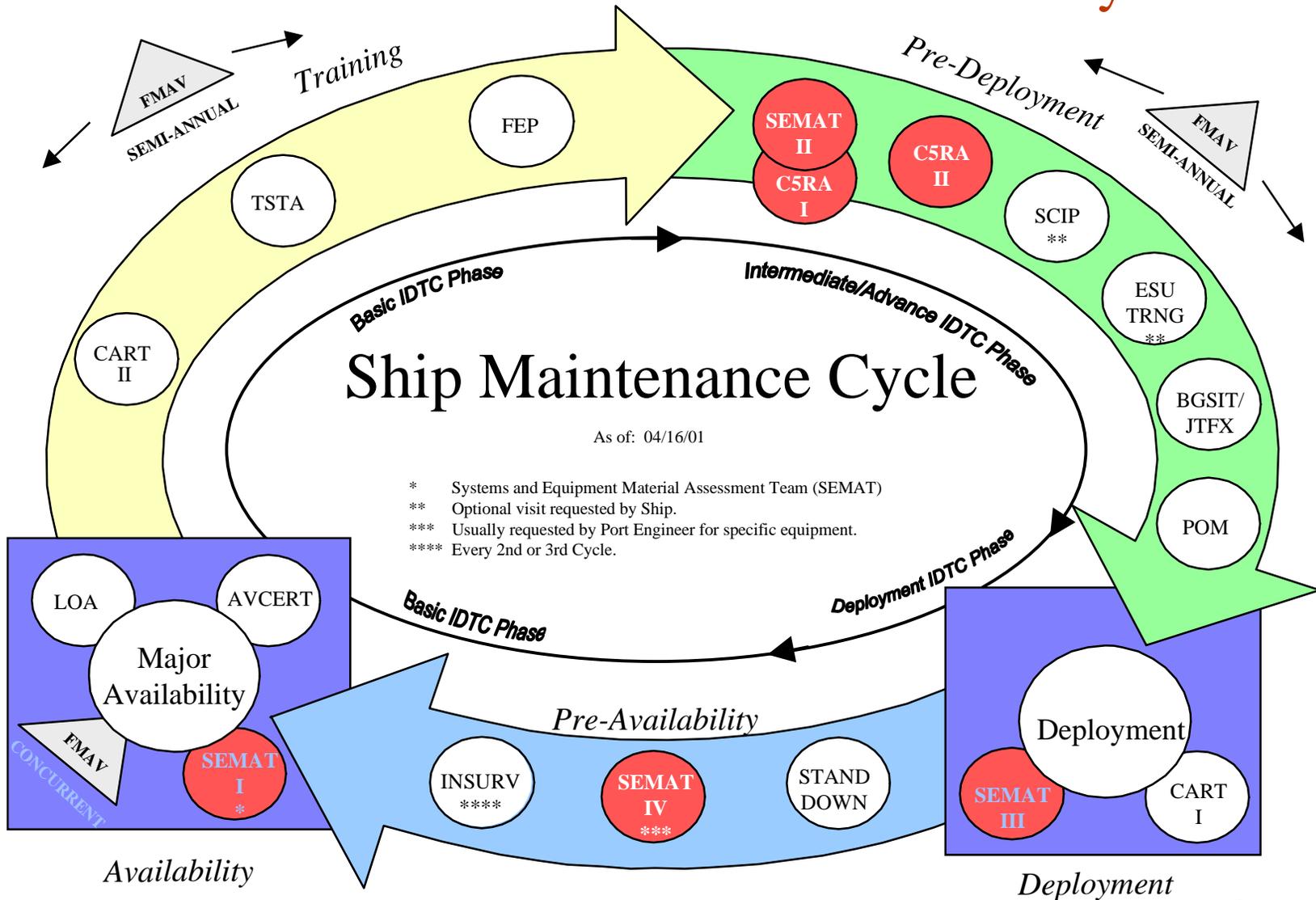
The Systems and Equipment Material Assessment Team (SEMAT) II Visit is a condition-based assessment program for HM&E systems and equipment. It is a direct outgrowth from a COMNAVSURFLANT policy to consolidate the numerous redundant inspections and assessment visits that were paralyzing ships of the U.S. Atlantic Fleet. SEMAT II visits are sponsored by COMNAVSURFLANT and executed by FTSCLANT using civilian, military and contractor field service engineers. Designed as a two-week visit, SEMAT II assesses onboard equipment, offers technical repair expertise and provides deck-plate level maintenance training.

C5RA & SEMAT II visits are scheduled on a once per maintenance cycle basis and supports the Inter-Deployment Training Cycle (IDTC). In most cases, C5RA & SEMAT II visits occur four to six months prior to deployment, providing a pre-deployment assessment and repair visit as well as technical recommendations to Intermediate and Depot level screening for upcoming FMAVs and Depot-level repair availabilities. The C5RA and SEMAT processes support the CNO policy of condition-based maintenance and look at “the right thing, at the right time”.

The success of each C5RA & SEMAT II visit depends upon the involvement of Ship’s Force as an integral part of the C5RA & SEMAT II team. Working side by side, every visit is truly a cooperative effort of all hands.



Joint C5RA & SEMAT II: Maintenance Cycle



Point Of Contact: Fleet Technical Support Center Atlantic
Fleet Programs Office
Marty Kirk
 Ph (757) 443-3872 x2580 / Fax (757) 443-3667
 marty_kirk@ftsclant.navy.mil



Joint C5RA & SEMAT II: Class Averages

Class Averages *

- Average number of C5RA & SEMAT II visit personnel = 110
- Average ship class repair parts cost (in \$K):

	High	Average	Low
C5RA (Total cost)	907.9	287.0	134.8
C5RA (Ship's cost)	199.1	136.6	79.4
SEMAT II (Total cost)	163.0	102.3	48.8
SEMAT II (Ship's cost)	158.6	88.3	38.4

Ship's Last Visit

- Start Date of Last Visit:
C5RA: N/A
SEMAT II: N/A
Joint C5RA/SEMAT II: 4/20/98

- Cost of repair parts during last visit (in \$K):

	C5RA	SEMAT II	TOTAL
Total cost	216.2	163.0	379.2
Ship's cost	170.4	158.6	329.0

- Sufficient funding for parts procurement (see provided Supply/Financial Supplement)
- Parts procurement approval threshold during visit



* = Based on FY 98-01 Data



Joint C5RA & SEMAT II: Method of Visit

Assessment and Training

- Assessment Process
 - Provide Ship's Force with hands-on training during Assessment and Repair
 - System Maintenance Checks (PMS)
 - Performance Checks (Hot Checks)
 - Static Checks (Cold Checks)
 - Typical Ship Class Assessment Schedule (Assess: 1st Week, Repair: 2nd Week)
- 4790/2K
 - Used by C5RA & SEMAT II Team to document discrepancies and required parts
 - Provide recommended level of effort and time frame for repair (Risk Assessment)
 - Existing 2-Kilos (from CSMP) reviewed, corrected, and validated for assessed systems



Joint C5RA & SEMAT II: Method of Visit (cont.)

Assessment and Training (Cont.)

- 4790/2K (Cont.)
 - C-coded for C5RA, A-coded for SEMAT II
 - Reviewed daily by Ship's Force (to include 3-M Coordinator), Port Engineer and Visit Technical Director
 - C5RA & SEMAT II Team inputs to SNAP
 - Ship's Force updates Shore File
 - Assistant Technical Director meets with Duty Engineer for next day's events (SEMAT II only)

Parts Procurement

- **During the C5RA/SEMAT II visit, parts will be delivered daily to the ship by the local Defense Distribution Depot (DDD)**
- C5RA & SEMAT II Team researches parts in conjunction with Supply Department
- Repair parts are purchased via Navy supply system (EMRM)



Joint C5RA & SEMAT II: Method of Visit (cont.)

Parts Procurement (Cont.)

- Alternate sources are used where available: CRAMSI, TRIMS, Gold Disk, etc.
- SEMAT II & C5RA Team uses priority 3 (ANORS) to order parts
- Ship's Force tech edits and approves 2-Kilos with parts on a daily basis to avoid delay in receipt of parts
- Parts required for existing 2-Kilos are expedited if required for assessed systems

Repairs

- Repair efforts begin after assessments are completed, and as parts and Ship's Force are available (Ship's Force accomplishes repairs with FTSCCLANT guidance)
- Follow-on Tech Assist visits are conducted after the visit as required
- Incomplete assessments will be screened as T/A-3 work items to be completed at a later date as a Tech Assist visit (SEMAT II only)



Joint C5RA & SEMAT II: Method of Visit (cont.)

Other Services

- Review ICMP for systems assessed (SEMAT II only)
- Generate feedback reports
 - 4790/CK, with upload to NAVSEA provided after visit, except in cases when parts are required on OMMS-NG ships
 - Technical Manual Discrepancy Report (TMDR)
 - Technical Feedback Deficiency Report (TFDR)
- Data collection for Measures of Effectiveness (MOEs) / Measures of Performance (MOPs), Troubled Systems Process (TSP), Top Management Attention/Top Management Issues (TMA/TMI), and other metrics as required



CG 47 Class C5RA Equipment/Systems Agenda

2M REVIEW	AN/URN-25	INMARSAT	NVD
AN/KAS-1A	AN/USQ-124	LINK 11, 16	OTCIXS
AN/SLA-10B	AN/WQC-2	LINK SUPPORT	PORTABLE COMM
AN/SLQ-25A	AN/WQC-6	LSS	RADAR SUPPORT
AN/SLQ-32	AN/WRN-6	MF RECEIVE	SARR
AN/SLQ-49	AN/WSN-5	MK 1 ADS	SAS
AN/SPS-49	ANTENNAS	MK 1 C&D	SATCOMM
AN/SPS-55	CAPDS	MK 1 ORTS	SDRW
AN/SPS-64	CEC	MK 1 WCS	SEMCIP
AN/SPY-1A	CCSC	MK 15 CIWS	SONAR SUPPORT
AN/SPY-1 SIG PROC	COMM SUPPORT	MK 26/5 GMLS	SNAP
AN/SPY-1 TRANSMITTER	CRYPTO TTY	MK 32 SVTT	SYNCHRO SIG AMP
AN/SQQ-28	CRYPTO VOICE	MK 36 SRBOC	TADIXS
AN/SQR-17	DAMA	MK 45 GUN 5 / 54	TASWM AFT
AN/SQS-53A	DDRT	MK 86 GFCS	TASWM FWD
AN/SRQ-4	EHF SATCOMM	MK 99 FCS	TRAT/RFI
AN/SSR-1	EMI/WCAP	MK 116 UFCS	TTY
AN/SSW-1D	FATHOMETER	MK XII AIMS IFF	TTY TERM EQUIP
AN/SWG-1 HSCLCS	GRIDLOCK	NAVMACS	UHF/LOS
AN/ULQ-16	HARPOON	NAVSSI	UNDERWATER LOG
AN/URC-131	HF COMMS	NTCS-A	VHF
			WIND INDICATOR



CG 47 Class SEMAT II Equipment/Systems Agenda

Bleed Air System

CHT/Graywater

Conveyor

Dry Air System

Dumbwaiter

Electronic Cooling Water

Elevators

Gas Turbine Generators

Hull Watertight Closures

Main Gas Turbines

OWS Separator/Transfer Pumps

Remote Operating Gear

Sea Valves

Sonar Dome Press Sys

Steering System

400 Hz SFCs

Air Conditioning

Anchor Windlass

Boat Davits

Capstans

Cathodic Protection

Chill Water Pumps

Circuit Breakers

CPP

Deckhouse Watertight Closures

Degaussing

Distilling Plant

ECSS

Fire Pumps

FO Serv & Xfer Pumps

Fuel Oil Purifier

Galley Equipment

GTG Cooling Water Pumps

GTG/GTM Cooling Fans

HESS

High Pressure Air Compressor

HP Air Drop Test/Groom

HP Dehydrators

Hull Decks (incl Bot. & Tank Tops)

Hull, Structural Bulkheads less S/Struct

Hull, Structure Above Underwater Body

ICAS (If equipped)

Infrared Survey

Intakes/Uptakes

JP-5 Priming/Service/Transfer Pumps

JP-5 Purifiers

Kingposts

Laundry Equipment

Line Shaft Bearings

Low Pressure Air Compressor

LPAD Type I/II Dehydrators

Lube Oil Purifier

Main Lube Oil Pumps

Mast

Motor Controllers

Reduction Gears

Refrigeration

Sea Water Service Pumps

Sliding Padeyes

Stern Tube Seals

Superstructure

Torpedo Strikedown

Toxic Vent Fans & Dampers (w/4200)

TROD/Expert System

UPS

Ventilation

Vibration Analysis

Waste Heat Boilers



Bold = Mandatory Items

= Optional items that may be selected by the Commanding Officer

Approved by: _____

Signature

Date

Commanding Officer, USS Sample (CG 99)



Joint C5RA & SEMAT II: Support Needed From the Ship

- Work space(s) and Point of Contact: C5RA: _____ SEMAT II: _____
- Outside phone line and Point of Contact: _____
- Visit In-Brief time: _____
- Visit Daily Brief time (Morning Preferred): _____
- Afternoon Planning Brief with Duty Engineer:
(SEMAT II Only) _____
- Visit Out-Brief date and time: _____
- Working hours: _____
- Ship's Force provide Equipment Work Centers and 1st and 2nd Points of Contact List for systems to be assessed. For ships equipped with OMMS-NG, ensure Work Centers match actual on board Work Centers
- Dedicated Supply Department Point of Contact
- Copy of Eight O'clock report (First day only)



Joint C5RA & SEMAT II: Support Needed From the Ship (cont.)

- Copy of current CSMP (First day only)
- Ship's phone list
- Ensure thermometers and gages calibrated
- Have test equipment, technical manuals and safety equipment available
- All Crypto loaded daily by 0800 hours (C5RA only)
- Load all ASI tapes prior to visit start
- Dedicated SNAP terminal and SNAP access
- 3-M Coordinator participation, especially at daily 2-Kilo reviews
- Open MJC item for Gold Disk
- Return completed Customer Survey critique sheets (at visit Out-Brief)
- Badges/Stickers (FTSCLANT will provide clearance message)
- Get the word out (Deck Plate Level)



Joint C5RA & SEMAT II: Safety Concerns

- Tag Outs
- Electrical Safety
- Energized Equipment Work Chits
- Ship's Force operates and secures all equipment
- Man Aloft
- Rotate and Radiate (C5RA only)
- Sonar Transmission (C5RA only)
- Heat Stress (Stay-time for Steam Plants Only)



Joint C5RA & SEMAT II: Visit Event Coordination

- Basin/Port Coordination
 - Man Aloft Days _____
 - Radiate Days (C5RA only) _____
 - Sonar Transmission Times (if applicable) _____
(C5RA only, Ship needs to send message requesting permission for sonar transmission)
- TYCOM and ISIC are invited to visit Out-Brief
- C5RA TD is required to contact CNSL N6 prior to Out-Brief for “Big Ticket” items or areas of concern affecting Ship’s mission.



Joint C5RA & SEMAT II: Key Personnel

As of: 4/14/01

Program Support

Name	Command	Function	Number
Please dial (757) 443-3872 unless a separate number is indicated			
Marty Stones	FTSCLANT 4100	Plans, Prgms & Business Dept Head	x1473
Marty Kirk	FTSCLANT 4101	Flt Prgms Mgmt Office Head	x2580
Mark Kiser	FTSCLANT 4104	Flt Prgms Visit Execution Office Hd	x1366
Jim Milburn	FTSCLANT 4101	SEMAT II/C5RA Support – Sched	x1880
Becky Journigan	FTSCLANT 4101	SEMAT II/C5RA Support – Admin	x2570
Rodney Alvstad	FTSCLANT 4101	CSRA TD	(757) 444-2428
Bob Delbridge	FTSCLANT 4104	CSRA TD	x2596
Larry Law	FTSCLANT 4104	CSRA TD	x2544
FCCS D. O'Bannon	FTSCLANT 4104	C5RA TD	x2573
LT Tim Pierce	FTSCLANT 4101	CSRA TD	x2574
Tom West	FTSCLANT 4104	CSRA TD	x2558
Neville Whiteman	FTSCLANT 4104	C5RA TD	x2572
Bruce Zanke	FTSCLANT 4104	C5RA/CSRA TD	x2535
Dave Hackett	FTSCLANT 4104	CSRR TD	x1866
Joe Pepperman	FTSCLANT 4101	CSRR TD	x1849
Kevin Alexander	FTSCLANT 4104	SEMAT II TD	x2540
Dave Althizer	FTSCLANT 4104	SEMAT II TD	x2536
Bill Foley	FTSCLANT 4104	SEMAT II TD	x1854
Timm Smith	FTSCLANT 4104	SEMAT II TD	x2577
Jim Bartlett	FTSCLANT 4104	SEMAT II/TARGET TD	x2526
Kevin Tepper	FTSCLANT 4101	SEMAT II/TARGET TD	x2564
Carlos Michael	FTSCLANT Ingleside	Detachment TD	(361) 776-4349
Bill Fish	FTSCLANT Mayport	Detachment TD	(904) 270-6323
LT Frank Arena	FTSCLANT N. London	Detachment OIC	(860) 694-3470
Ed Prince	FTSCLANT N. London	Detachment TD	(860) 694-2850
John Schuetz	COMNAVAIRLANT	CSRA Program Sponsor	(757) 444-2428
Bob Lindner	COMNAVSURFLANT	SEMAT Program Sponsor	(757) 836-3319
Bob Halsey	COMNAVSURFLANT	SEMAT Program Management	(757) 836-3408
Roger Vandveer	COMNAVSURFLANT	CSRA Program Sponsor	(757) 836-3066
LCDR John Gaffe	COMNAVSURFLANT	C5RA Program Management	(757) 836-3064
Bill Mick	COMNAVSURFLANT	C5RA/SEMAT II Scheduling	(757) 836-3463
MMC B. Francazio	COMSUBLANT	TARGET Program Sponsor	(757) 836-1258
MMCS S. Sturgill	COMSUBLANT	CSRR Program Sponsor	(757) 836-1232
John Grawl	SUPSHIP Portsmouth	SEMAT I & III Program Mgmt	(757) 396-4001
Hunter Motley	SUPSHIP Portsmouth	Sea Valve Program Mgmt	(757) 396-4001
Tom St. Andre	AMS	SEMAT/C5RA Visit Support	(757) 640-6400
Charlie Littleton	LCE	SEMAT/C5RA/TGT/CSRR Visit Sprt	(757) 857-1311
Michael Harris	AMSEC	SEMAT/C5RA/TGT/CSRR Pgm Sprt	(757) 306-3591
Ron Walton	Dyncorp	C5RA/TSP Visit Support	(757) 687-8766

FTSCLANT Website: <http://www.ftsclant.navy.mil>

Technical Support

Name	Command	Function	Number
Please dial (757) 443-3872 for the following extensions			
LCDR Scott Starsman	FTSCLANT 4200	Combat Systems Dept Head	x1961
Jim Boyette	FTSCLANT 4200	Combat Systems Dep Dir	x1994
Andy Malbon	FTSCLANT 4210	Anti-Air/Cruise Weapons Systems Head	x1999
Jim Porter	FTSCLANT 4211	CDS/SSDS Branch Head	x1591
Rick Peterson	FTSCLANT 4212	AEGIS Branch Head	x1984
Scott Freeman	FTSCLANT 4213	Cruise Weapons Branch Head	x2121
Bill Murphy	FTSCLANT 4214	Guided Missile Launchers Branch Head	x2127
Jerry Hudson	FTSCLANT 4220	Self-Defense/Surface Weapons Head	x1993
Steve Holland	FTSCLANT 4221	Gun/Missile FCS Branch Head	x2243
Tommy Lamb, Jr.	FTSCLANT 4222	Guns Branch Head	x2253
Dennis Robertson	FTSCLANT 4223	CIWS/RAM Branch Head	x2140
Chico Stephenson	FTSCLANT 4224	Electronic Warfare Sys Branch Head	x2012
Bill Myrick	FTSCLANT 4225	NATO/TAS Branch Head	x2145
George Cox	FTSCLANT 4230	Electronic Systems Head	x2333
Steve Turner	FTSCLANT 4231	Communications Branch Head	x2334
Betty Jackson	FTSCLANT 4232	SATCOM Branch Head	x2338
Ken Walker	FTSCLANT 4233	Navigation Branch Head	x1358
Don Dolence	FTSCLANT 4234	Search Radar Branch Head	x2330
Peter Van Vleet	FTSCLANT 4235	C2I Branch Head	x2328
CDR Kurt Nelson	FTSCLANT 4300	HM&E/Undersea Systems Dept Head	x1474
Milton Oakley	FTSCLANT 4300	HM&E/Undersea Systems Dep Dir	x1468
Pete Martinez	FTSCLANT 4310	Main Propulsion/Electrical Head	x1221
Kurt Jarchow	FTSCLANT 4311	Gas Turbine Branch Head	x1402
Don Thompson	FTSCLANT 4312	Steam/Diesel Branch Head	x1324
Jim Broyles	FTSCLANT 4313	Engineering Controls Branch Head	x1421
Rob Hodges	FTSCLANT 4314	Propulsion Support Branch Head	x1397
Stanley Ward (Acting)	FTSCLANT 4315	Boilers Branch Head	x1371
Wayne Brooks (Acting)	FTSCLANT 4316	Electrical/IC Branch Head	x1395
Rod Kleisler	FTSCLANT 4320	Hull/Auxiliaries Head	x1216
Rhonda Hart	FTSCLANT 4321	Ship Controls Branch Head	x1160
Bill Breeden	FTSCLANT 4322	Hull/Deck Machinery Branch Head	x1229
Richard Stark (Acting)	FTSCLANT 4323	Air Systems/Refrigeration Branch Head	x1301
Wayne Benton (Acting)	FTSCLANT 4324	Elevators/Conveyors Branch Head	x1241
Mike Sparks	FTSCLANT 4325	Climate/Damage Ctrl/Hab Branch Head	x1212
Claudie Brown	FTSCLANT 4330	Undersea Weapon Systems Head	x1470
Jim Maher	FTSCLANT 4331	Submarine Weapons Branch Head	x1423
Sherrill Steed	FTSCLANT 4332	Submarine Acoustics Branch Head	x1553
Ron Phelps	FTSCLANT 4333	Submarine Handling/ESM Branch Head	x1483
Bill Greene	FTSCLANT 4334	Surface Acoustics Branch Head	x1424
Jim Young	FTSCLANT 4335	Surface ASW Branch Head	x1419
Alan Morrison	FTSCLANT 4336	Mine Countermeasures Branch Head	x1594

FTSCLANT Duty Officer: (757) 439-3391
 FTSCLANT Point of Contact: Mr. Marty Kirk, email: marty_kirk@ftsclant.navy.mil



