

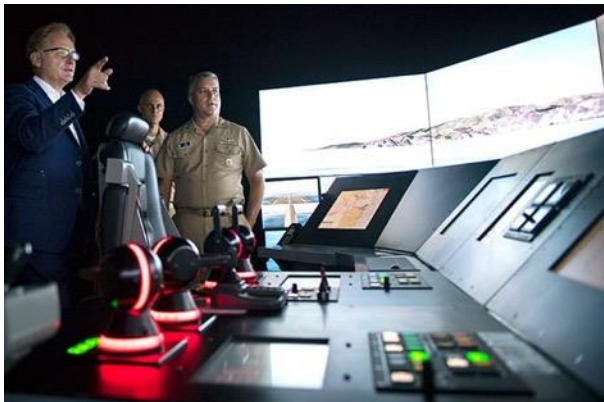


# Surface Training Systems

*PRESENTED BY:*  
**BOB KERNO**  
MAJOR PROGRAM MANAGER  
SURFACE TRAINING SYSTEMS (PMS 339)

Controlled By: NAVSEA/PMS 339  
Distribution: Distribution A  
POC: Robert Kern/ 202-782-1517

**PMS 339** leads all strategic program planning, policy, research and development, acquisition, technical insertion and life-cycle management of surface training platforms in order to educate and ensure the competency of U.S. Navy Sailors through delivery of aligned, consistent and proven training solutions. OPNAVINST 1500.57 Series



## VISION

To meet the nation's need for future power competition, PMS 339 will integrate training technology and acquisition processes to ensure sailors have the right training at the right time.



# Surface Training Advanced Virtual Environment (STAVE) Program

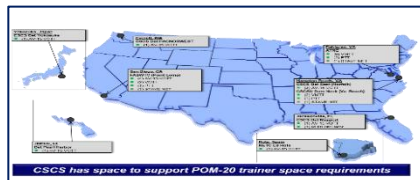
(Details in 2018 and 2023, Briefs and Report to Congress)

**STAVE elements: Navy Instructors, hands on labs and immersive virtual training:**

**Additional efforts:**

--- PMS339 managed since 2011 ---

Networked ship, schoolhouse and maintenance support via STAVE-NET (FY22 demo complete)



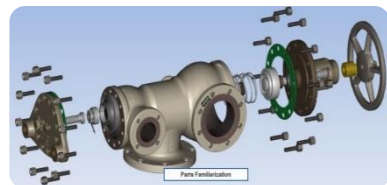
**STAVE-Network (STAVE-NET)**  
Integrated classrooms, trainers, labs, students & instructors



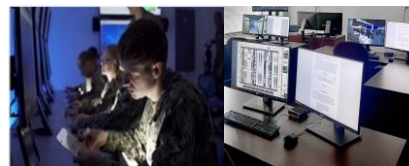
**Instructor led learning support tools via embedded software and STAVE-NET scheduling / student tracking**



**"Hands On" instructor led labs with modernized Part Task Trainers (PTT)**



**3D interactive troubleshooting & maintenance**



**Individual Virtual Operator & Maintenance Trainers (VOT / VMT)**



**Modernized, interactive operator and maintenance "gaming"**



**Team, multi-mission, Virtual Employment Trainers (VET)**



**Authoritative & Interactive Preventive & Corrective Maintenance Tools**



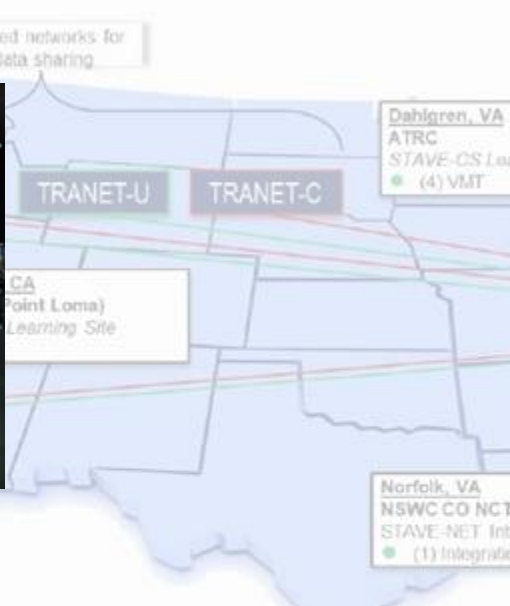
**Aligned Shore / Individual Training & In-Service Engineering Agent Support**

**Averaging ~\$2.5B FYDP, STAVE resources and sustains 887 SWSC, SCSTC & PMS339 courses of instruction, annually training ~120K apprentice, journeyman, master level Sailors and Surface Warfare Officers, filling the majority of afloat billets.**



CIAT

**Virtual Employment Trainers (VET)**



AVOT

**Virtual Operator Trainers (VOT)**



**Virtual Maintenance Trainers (VMT)**



**Hands-On Part Task Trainers (PTT)**



# PMS 339 Trainers

**Yokosuka**

ASW VOT  
AEGIS VOT  
NSST FMB  
VMS 9.5

**Sasebo**

NSST FMB  
VMS 9.5



**Rota**

AEGIS VOT  
ASW VOT  
COVE III  
VMS 9.3.4

**Bahrain**

COVE  
VMS 9.5

**Everett/ Bangor**

ASW VOT  
NSST FMB  
MMTT  
AEGIS VOT  
VMS 9.5  
DCPO

**Great Lakes**

Advanced Degaussing  
AFCF  
Cargo Weapons Elevator

CG-47 Damage/ Fuel Control  
CG-47 ECSS Operator & Maintenance  
CG-47 Electronic Cooling Water (ECW) System  
CG-47 Eng Control System  
CG-47 Smart Cruiser  
Damage Control Petty Officer (DCPO)  
Damage Control Wet Trainer (DCWT)

Damage Control Petty Officer (DCPO)  
Damage Control Wet Trainer (DCWT)  
DDG FLT IIA GT Gen Maint  
DDG-51 MCST  
DDG-M MCS Operator  
Diesel 'C' School Core  
SSEAMC  
Fiber Optic (FODMS)  
Gas Turb Elec Maint

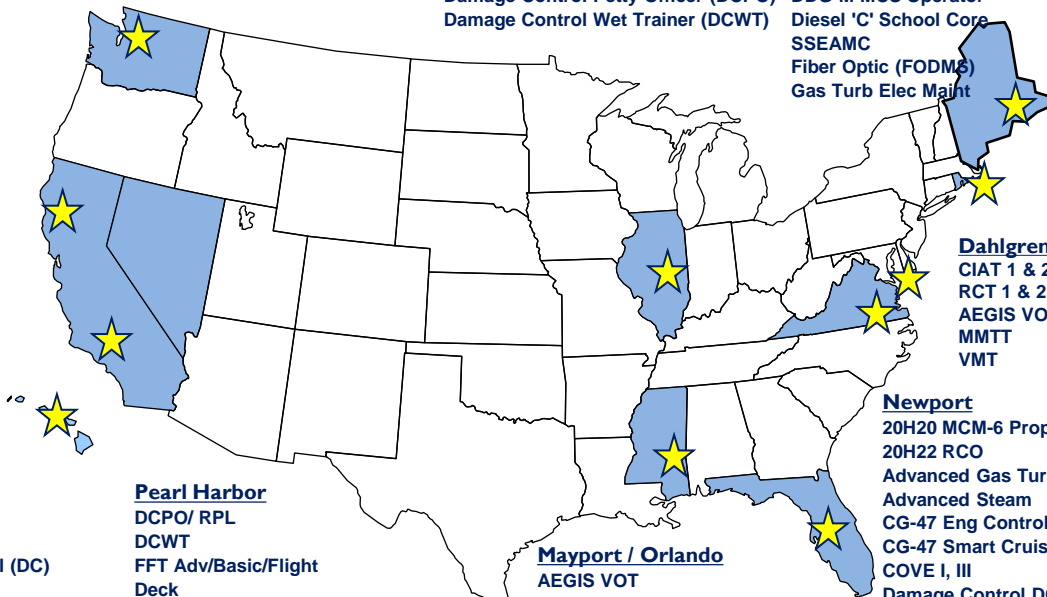
LHA6/LHD8 APS Operator & Maintainer  
LHA6/LHD8 LM2500+ Electrical / Mechanical  
LPD-17 ECS  
LPD-17 CP MPDE  
Motor A/C Two Speed & Controllers Trainer  
Multipurpose Shipboard FFT  
OSA-VOT  
Senior Aux  
Small Craft Electrical System Trainer  
Surface Steering Gear  
Voyage Management System (VMS)

**Lit Creek/Norfolk/Dam Neck**

7/11 Rigid Hull Inflatable Boat (RHIB)  
Advanced Shipboard FFT  
AATT  
AEGIS VOT  
Air Conditioning & Refrigeration (AC&R)  
AFCF  
Aircraft/ Flight Deck FFT  
ABCTT  
ATET  
ASCOT AIC  
Automated Boiler Controller (ABC)  
Basic Shipboard FFT  
CAVE  
CIAT  
COVE I, III  
Damage Control DCPO / DCWT  
DDG-51 MCST  
Deck Systems Mechanical and Electrical  
Electrical Circuitry Display Trainer  
Electrical Control Devices (ECD)  
General Shipboard Basic (DC)  
Landing Craft Air Cushioned (LCAC)  
LHD-8 MCST  
MMTT  
NATO Sea sparrow (NSSMS)  
NSST  
NAVSYSTECH  
Programmable Logic Controllers (PLC)  
Propulsion Alarms ECR  
Repair Party Leader (RPL)  
Virtual Environment LCAC (VELCAC)  
Voyage Management System (VMS)

**San Diego / Coronado**

Advanced Shipboard FFT  
AEGIS VOT  
Air Conditioning & Refrigeration (AC&R)  
AFCF  
Aircraft/ Flight Deck FFT  
ABCTT  
ATET  
ASW VOT  
Automated Boiler Controller (ABC)  
Aux Machinery Controls  
Basic Shipboard FFT  
CG-47 Smart Cruiser  
CAVE  
CIAT  
COVE I, III  
Damage Control DCPO / DCWT  
DDG 1000 PTT/ FMB/ SMC  
DDG-51 MCST  
Electrical Control Devices (ECD)  
Blower/Steam Generator Maintenance  
General Shipboard Basic Damage Control (DC)  
Landing Craft Air Cushioned (LCAC)  
LHD-1 (MMOT) Steam Trainer  
Littoral Combat Ship (LCS)  
LSD 41/49 MCS Console Operator  
Motor A/C Two Speed & Controllers Trainer  
Multiple Mission Tactical Trainer (MMTT)  
Multipurpose Reconfigurable Training System (MRTS)  
NSST's  
Programmable Logic Controllers (PLC)  
Repair Party Leader (RPL)  
Virtual Environment LCAC (VELCAC)  
Voyage Management System (VMS)  
Zumwalt Training Facility (ZTF)



**Pearl Harbor**

DCPO/ RPL  
DCWT  
FFT Adv/Basic/Flight  
Deck  
Foam Gen  
MMTT  
NSST FMB  
VET  
VMS  
ASW VOT  
AEGIS VOT

**Pascagoula / Bath**

AEGIS VOT  
COVE 3

**Mayport / Orlando**

AEGIS VOT  
Advanced Shipboard FFT  
Aircraft/ Flight Deck FFT  
Basic Valve/Valve Maint.  
COVE I, III  
Damage Control DCPO / DCWT  
DDG-M MCS Operator  
Fuels/QA/BWFW  
General Shipboard Basic (DC)  
Littoral Combat Ship (LCS)  
Multiple Mission Tactical Trainer (MMTT)  
NSST  
Repair Party Leader (RPL)  
Voyage Management System (VMS)

**Dahlgren**

CIAT 1 & 2  
RCT 1 & 2  
AEGIS VOT  
MMTT  
VMT

**Newport**

20H20 MCM-6 Propulsion  
20H22 RCO  
Advanced Gas Turbine  
Advanced Steam  
CG-47 Eng Control  
CG-47 Smart Cruiser  
COVE I, III  
Damage Control DCWT  
DDG-51 Gas Turbine Propulsion  
DDG-51 MCST  
Gas Turbine  
LPD-17 ECS  
MMTT  
STAVE NET RD Node  
VMS  
NSST's