

Navy Environmental Leadership Program Naval Station Mayport



**29th Environmental &
Energy Symposium**

April 2003

DIANE LANCASTER

Background

- Chartered in 1993 by Chief of Naval Operations
- Two major installations
 - Naval Station Mayport
 - Navy Region Southwest (NAS North Island)





Vision

- **Through proactive environmental management, NELP Mayport will:**
 - **Evaluate current and innovative technologies and management strategies**
 - **Ensure implementation of the strategies that demonstrate environmental and financial benefits**
 - **Promote environmental training, awareness and communication**



NELP Mayport

- Identify operational needs
- Locate potential initiatives/technologies
- Serve as a test-bed for prototype of new technology
- Gather data on prototype being tested
- Share what we learned



Funding/Partnersh

- Congressional funds
- NAVFAC (NFESC)
- NAVSEA (NSWC Carderock Division)
- NAVAIR (NAWC Lakehurst)
- CINCLANTFLT
- PPEP



2001 Initiatives



2001 Initiatives

- **Ship heat exchanger scale prevention**
 - Installed on USS The Sullivans (DDG-68) for deployment period
 - Non-magnetic/non-chemical scale prevention
 - Evaluated in October, 2002
 - Report due April 2003
 - Partner: Naval Surface Warfare Center, Carderock Division



2001 Initiatives

- **Air Sparged Hydrocyclone (ASH) Unit Operation & Maintenance Manuals**
 - **O&M Manuals and training documentation**
 - **Conducted further demonstration of unit**
 - **AFFF/CHT**
 - **Fuel/CHT**
 - **Canadian Demonstration**
 - **AFFF/Fuel**
 - **Contractor: CTC**

2001 Initiatives





2001 Initiatives

- **Shipboard Hazardous Materials List (SHML) Reduction**
 - **Reduce number of materials on SHML**
 - **Submitted Technical Purchase Description for less hazardous substitutes for:**
 - **Brass, Aluminum and Silver Metal Polish**
 - **Powdered and Waterless Hand Cleaners**
 - **Contractor: CTC**
 - **Partner: Naval Surface Warfare Center Carderock Division**



2001 Initiatives

- **Solid Waste Reduction**
 - Regional study to determine if economies of scale would work for recycling programs
 - Evaluated NAS Jacksonville, NS Mayport, NSB Kings Bay

Final report identified...

- **Contractor: CTC**



2001 Initiatives

- **Solid Waste Reduction**
 - **Potential savings/cost benefit for combining specific areas of each recycling program, i.e.**
 - **Combine recyclable marketing**
 - **Combine metal-sorting staff at NSB & NS**
 - **Centralize transient personnel**
 - **Improve C&D debris recycling by contractors**
 - **Increase recycling awareness outreach programs**



2001 Initiatives

- **Regional Geographic Information System Baseline Survey and Standup**
 - **Baseline survey of 9 CLF installations in COMNAVREGSE area of consideration**
 - **Provide recommendations and schedule to establish regional database command center tied to installations' GIS**
 - **Aerial photography and GIS formatting of base maps**
 - **Include utilities and structures**
 - **Contractor: KTU&A**



2001 Initiatives

- Evaluate Hazardous Materials Information System (HMIS) and Air Program Information Management System (APIMS)
 - APIMS module of Command Core System
 - Multi-module, government owned environmental program software
 - Air Program reporting
 - HMIS program currently being used
 - Provide evaluation of each program
 - Contractor: IT Corp/Shaw Env



2001 Initiatives

- **Empty HAZMAT Containers Management**
 - **First phase**
 - identified current practices
 - suggested five improvements based on industry-standards
 - **NS Mayport selected 3 of 5 for further study:**
 - **Contractor: IT Corp/Shaw Env**



2001 Initiatives

- **Empty HAZMAT Containers Management**
 - **NS Mayport selected 3 of 5 for further study:**
 - **Paint dispensing system using plastic liners for containers**
 - **Bulk supply and solvent distribution system of isopropyl alcohol**
 - **Pre-moistened patches and/or wipes supplied and distributed in pouches**



2001 Initiatives

- **Afloat Rag Recycling Program**
 - **Red towels vice baled rags**
 - **2 volunteer ships**
 - **Evaluating cost benefit of government purchased rags vice similarly operated shoreside contracts**
 - **Evaluating lessons learned**
 - **Final Report due April**
 - **Contractor: IT Corp/Shaw Env**



2001 Initiatives

- **Analysis of Navy On Scene Commander function and SPCC Risk**
 - **Develop centralized program**
 - **Develop plans to implement best practices**
 - **Identify metrics for compliance and resources**
 - **Develop training**
 - **Website being beta-tested**
 - **Prioritizing Best Management Practices for implementation**
 - **Partner: NAVSEA**



2001 Initiatives

- **Stormwater Treatment Systems**
 - **Evaluated two types of catch basin inserts at 5 Locations at NS Mayport**
 - AquaGuard – more expensive
 - DrainPac – more effort to install & access
 - **Concluded DrainPac more cost effective for NS Mayport operations**
- **Contractor: Hendon Engineering**

2001 Initiatives



AquaGuard



DrainPac





2001 Initiatives

- **Focus Group action**
 - **Review final submittals**
 - **Document with articles/fact sheets**
 - **Recommend ownership and submit up COC for implementation**



NELP 2002 Projects



2002 Initiatives

- **Electro-chemical Water Treatment**
 - Installed and functioning at Atlantic Marine Dry Dock
 - Determine that more effective to provide lessons learned and communication of the technology to the fleet



2002 Initiatives

- **Satellite Tracking of Marine Mammals**
 - Tracking currently organized through Fleet Area Control & Surveillance Facility, Jacksonville
 - COMNAVREGSE coordinating investigating new technology for tracking
 - NELP to provide communication support



2002 Initiatives

- **Shipboard Port of Call Waste Disposal Guide**
 - **Initiated Process Action Team to compile names, numbers, and procedures (as applicable) for CONUS and OCONUS ports**
 - **Disseminate information to fleet**
 - **Communicate “Lessons Learned”**



2002 Initiatives

■ Afloat Environmental Compliance Guide

■ Charter QMB

- Compile shipboard personnel needs and concerns, and history of compliance
- Draft Afloat Environmental Compliance Guide and provide justification for implementation
 - Coordinate with Type Commanders



2003 Initiatives



2003 Initiatives

- **Identify Optimum Fueling/De-fueling Procedures of Aircraft**
 - **Charter QMB**
 - Investigate aircraft procedures
 - Identify procedures resulting in spills
 - Recommend appropriate changes



2003 Initiatives

- **Non-skid Spray Coating for Shipboard Decks**
 - Investigate low VOC coatings for deck non-skid
 - Demonstrate on NS Mayport ship



2003 Initiatives

- **RADOME Paint Strippers**
 - Investigate commercially available coating removal operations
 - Evaluate which operations work best for delicate substrates at NS Mayport



2003 Initiatives

- **Recycling Hydraulic Fluid from Submarines & using in Mayport Ships**
 - **Charter QMB**
 - Identify & summarize data, policies, etc.
 - Determine applicability for sub fluid to be used in ships
 - Identify costs
 - Identify recommendations



2003 Initiatives

- **Shipboard Oily Water Separators**
 - NAVSEA approved/SURFLANT funded separator
 - Install on Pascagoula ship
 - NELP to provide communications regarding effectiveness/lessons learned



2003 Initiatives

- **FuelMaster Fuel Management & Spill Prevention System**
 - **Centralized/automated system for fuel management**
 - Tank Level Indicator Systems
 - USS Constellation (CV-64) uses
 - No formal test results
 - **Provide communication of system success**



2003 Initiatives

- **Closed Loop Fluid Changing System**
 - Vacuum system removes dirty fluid and replaces with clean using same quick-release plug
 - Harbor Operations Department to evaluate



2003 Initiatives

- **Communication for Lessons Learned for Ambient Temperature Cure (ATC) Coating**
 - Product has been used and is being contracted for additional use at NS Mayport and NAS Jacksonville
 - NELP to capture effectiveness data and provide communications for lessons learned



2003 Initiatives

- **LED Lanterns and Lighting**
 - Disposal of batteries and bulbs of current lighting systems is frequent and expensive
 - Alternative forms of power and alternative lighting is available in commercial markets, longer lasting and non-hazardous
 - Investigate different types of lighting technologies and communicate effectiveness to fleet



QUESTIONS?

Diane Lancaster

dlancaster@nsmayport.spear.navy.mil

904-270-6730 ext. 208

LCDR Joseph Campisano

jcampisano@nsmayport.spear.navy.mil

904-270-6730 ext. 203