

Upgrading Mayport's

Ship Repair Infrastructure

Navy Environmental Leadership Program (NELP) Project Includes State-of-the-Art Painting Facilities

The Shore Intermediate Maintenance Activity (SIMA) Mayport continues to progress with its Fiscal Year 2001 Project in cooperation with the Navy Environmental Leadership Program (NELP). Under NELP Fiscal Year (FY) 2001 tasks, construction improvements are progressing to assist SIMA in identifying pollution prevention (P2) opportunities that will reduce or minimize environmental, safety and health compliance costs.

SIMA Mayport performs intermediate maintenance services for the repair of ships in the southeast region of the Navy. SIMA Mayport provides trained personnel and flyaway teams to augment, repair and maintain major components of the various ship

classes at Naval Station (NS) Mayport. SIMA Mayport is housed in an industrial complex with approximately 135,000 square feet of repair shop space and 40,000 square feet of administrative space.



A 1,500-square foot expansion of the current paint/depaint facility is part of the model SIMA construction project.



Sailor in a SIMA paint booth. The new paint booth addition located in the former Foundry Bay, SIMA building is part of the model SIMA construction project.

Naval Station Mayport.



“NELP is using SIMA as a test bed to discover the benefits and downsides of management processes and equipment that reduce pollution while minimizing damage to the environment.”

—LT Greg Cook, NELP Focus Group Member from SIMA

The types of maintenance services provided by SIMA Mayport include machining and engine repair from metal working to painting and repainting operations.

NELP and SIMA personnel found opportunities to apply P2 technologies and improvements in a number of areas at SIMA Mayport to save money and make the deckplate sailor's jobs easier.

To date, completed components of the model SIMA construction include:

- Installation and Testing of the New Paint Booth. Located in the former Foundry Bay, the installation of this booth has vastly improved the quality and efficiency of finished products and enabled the use of efficient High Velocity Low-Pressure (HVLP) spray paint guns and an enclosed paint gun washer that recycles used solvent, eliminating disposal of 360 gallons of hazardous waste annually.
- Expansion of Existing Paint/Depaint Facility. Construction of this 1,500 square foot addition is

complete. New equipment is being purchased to support powder coating application and removal. The parts washer uses an aqueous solution, reducing the solvent usage while increasing effective degreasing capabilities. The closed loop pretreatment system will include an evaporator, virtually eliminating hazardous waste generation. The burn-off and pre-heat ovens will be used to remove the old powder coating and allow the new coating to adhere, all without use of solvents. The walk-in blast booth will be used to remove non-powder coatings.

- Underground Fuel Storage Tank Replacement. Due to the facility expansion, a 20,000-gallon underground fuel oil storage tank has been replaced with a 10,000 gallon above ground tank.

NELP coordinated the research and recommendations for each of the model SIMA improvements. Equipment to be used in the new facility expansion is being purchased using the Navy's

Pollution Prevention Equipment Program. When completed, NELP and SIMA will evaluate the performance of the improvements to ensure they fulfill the P2 concept to meet and exceed regulatory mandates, increase safety, reduce sailor workload and reduce waste generation. The model SIMA construction project is scheduled for completion in fall 2003. ⚓

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