



U.S. NAVY

# SHIPBOARD ENVIRONMENTAL PROTECTION

Environment



## Navy Shipboard Environmental Protection

### In the 1970s:

- Navy installed sewage collection and holding tanks to prevent the discharge of raw sewage in coastal waters and in port.

### In the 1980s:

- Navy ships were equipped with Oil/Water Separators and Oil Content Monitors to prevent the discharge of oil at sea.

### In the 1990s:

- Navy began using Tributyltin (TBT)-free hull antifouling coatings, far in advance of the international treaty to ban TBT paints.
- Navy equipped all warships with suites of solid waste equipment (Plastic Waste Processors (PWP), Pulpers and Metal/Glass Shredders), to ensure that no plastic is discharged at sea and all other solid waste discharges are made with no environmental impact while at sea.

### 21<sup>st</sup> Century:

- Navy converted all its Chlorofluorocarbon (CFC) air-conditioning and refrigeration systems to non-CFCs to help protect the ozone layer.
- Navy outfitted all warships with Pollution Prevention Afloat equipment to reduce generation and offloads of Hazardous Waste, saving time and money, and protecting the environment.
- Navy has reduced Hazardous Material items onboard its ships by 66 percent, and plans to reduce the number of items by an additional 15 percent to enhance the safety and health of our sailors.
- Navy exclusively uses shipboard paints with reduced air emissions including Volatile Organic Compounds (VOCs) to enhance air quality in port.

### Interesting Facts

- The plastic waste processor currently used on Navy ships can produce a 20-30 pound storage disk every 32 minutes.
- Navy ships use lookouts, safety zones, software tools, and other measures to protect marine mammals at sea.
- In response to the Gulf of Mexico oil spill of 2010, the U.S. Navy supplied approx. 100,000 feet of oil containment boom to reduce the environmental impact of the spill.
- The U.S. Navy is a world leader in marine mammal research, funding over \$300 million in independent research over the past ten years.



### For More Information

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