



ENVIRONMENTAL AWARENESS TRAINING





TRAINING OBJECTIVE

- Familiarize NUWCDIVNPT employees and contractors with environmental programs and applicable environmental laws and regulations.
- Help employees and contractors accomplish their mission while ensuring that NUWCDIVNPT remains in environmental regulatory compliance.

Everyone working for or on behalf of NUWCDIVNPT has a responsibility to protect the environment.

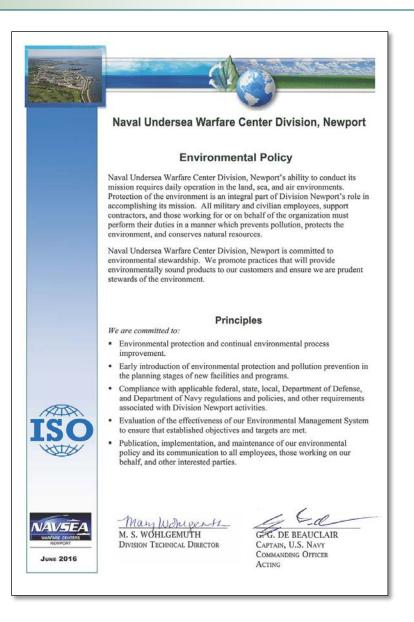


- Environmental Management System (EMS)
- NUWCDIVNPT's Significant Environmental Aspects
 - Hazardous Waste
 - Solid Waste
 - Energy Use
 - Green Procurement
 - Wastewater Generation
 - Air Emissions
 - Active Underwater Acoustic Energy Transmission
- Environmental Review Board (ERB)
- National Environmental Policy Act (NEPA) / Executive Order (EO) 12114
- Environmental Training Requirements



ENVIRONMENTAL POLICY

- NUWCDIVNPT's Command is committed to environmental stewardship and compliance with all applicable environmental regulations and policies.
- The Policy seeks to consider the environment in routine business decisions
- The Policy provides a framework for the continual improvement of environmental objectives and targets.
- All employees and contractors are required to be familiar with NUWCDIVNPT's environmental policy.





ENVIRONMENTAL MANAGEMENT SYSTEM

A set of processes and practices modeled on the requirements of International Organization for Standardization (ISO) 14001 that allow NUWCDIVNPT to continuously address and resolve environmental compliance issues

Plan: Establish environmental objectives and targets;

Do: Implement the process;

<u>Check</u>: Monitor and measure processes against the environmental policy, objectives, targets, legal and other requirements, and report the results; and

<u>Act</u>: Take actions to continually improve performance of the EMS.



ISO14001 EMS MODEL



GREEN <u>PEPCI</u> BADGE CARDS



NUWCDIVNPT's Environmental Policy and Significant Environmental Aspects can be found on the Green PEPCI badge cards.

You may reference this card if an auditor approaches you regarding the Command's Environmental Policy.

** If you don't know an answer, you can always find it on the Environmental ** **Branch's web page (Code 1023), or by contacting your EMS POC. **



NUWCDIVNPT's EMS is verified by:

- Annual Internal Audits conducted by EMS POCs and Environmental Branch staff.
- External Audits conducted by Navy-qualified auditors.
- **Competence Audits** of the workforce to ensure that NUWCDIVNPT's Environmental Policy and Environmental Aspects are being effectively communicated.

Deficiencies and Nonconformance are documented in the Preventative Action and Corrective Action (PAR/CAR) database located on the Code 1023 EMS web page.



KNOW YOUR EMS POC!

Every Code has an assigned EMS POC, listed on the Environmental Branch's EMS web page.

Call or e-mail your EMS POC to:

- Ask any environmental related questions
- Request information regarding environmental practices for products, services, or processes
- Discuss a proposed testing event that requires review by the Environmental Review Board (ERB)
- Express environmental concerns
- Ask about job specific Environmental training
- Share your ideas for new objectives/targets, or how to improve an existing process



EXTERNAL COMMUNICATION



If you receive a call from the public, media, or interested party regarding NUWCDIVNPT's EMS or Environmental Programs:

- Do not answer any questions.
- Direct the call to the NUWCDIVNPT Public Affairs Officer (PAO) Code 103.
- PAO contact information is available to the public on the NUWCDIVNPT external website.

The PAO will coordinate with the Environmental Branch to answer external party communications regarding EMS issues.



EMPLOYEE RESPONSIBILITIES

- Accept accountability for environmental performance.
- Adhere to the EMS Manual and Procedures, found on the Code 1023 EMS web page.
- Comply with applicable federal, state, local, Department of Defense, and Navy regulations and policies.
- Continually improve your processes toward a goal of protecting the environment and improving environmental performance.
- Introduce environmental protection and pollution prevention early in the planning stages of all new facilities and programs.
- Report problems or concerns to your supervisor.
- Understand your involvement in achieving the objectives and targets associated with the significant environmental aspects that affect your work activities.
- * Employee refers to employees, contractors, & those working on our behalf.



SIGNIFICANT ENVIRONMENTAL ASPECTS

Aspects of operational processes that have the potential to significantly impact the environment.

NUWCDIVNPT Significant Aspects

- Hazardous Waste
- Solid Waste
- Energy Usage
- Wastewater Generation
- Green Procurement
- Air Emissions
- Active Underwater Acoustic Energy

NUWCDIVNPT Potential Impacts

- Damage to human health
- Ground and surface water contamination
- Soil contamination
- Depletion of natural resources
- Increased air emissions
- Dependence on land fills
- Damage to wastewater treatment facilities
- Potential damage to marine organisms and habitat



NUWCDIVNPT OBJECTIVES AND TARGETS

- Reduce base-wide energy consumption, air emissions, hazardous and solid waste production, and wastewater production
- Comply with all permits (wastewater, air quality, etc...)
- Train all employees generating hazardous waste
- Develop Green Procurement guidelines for all types of purchases and contracts, including exemptions and exceptions
- Maximize diversion of solid waste from landfills (Divert > 50% annually)
- Minimize active underwater acoustic transmissions
- Evaluate processes for continual improvement



HAZARDOUS WASTE GENERATION

Hazardous waste is a liquid, solid, contained gas, or sludge that has properties that are dangerous or potentially harmful to human health or the environment.

- Hazardous Waste is managed under the Resource Conservation and Recovery Act (RCRA), and state laws.
- The Environmental Protection Agency (EPA) and Rhode Island Department of Environmental Management (RIDEM) have the authority to inspect Division Newport's compliance with RCRA and state laws. <u>These inspections are unannounced.</u>
- Fines may reach \$37,500 per day per violation under RCRA! Knowing and willing violations of the law can be considered CRIMINAL acts, punishable by fines and <u>imprisonment</u>.

Deficiencies and Nonconformance are documented in the Preventative Action and Corrective Action (PAR/CAR) database located on the Code 1023 EMS web page.



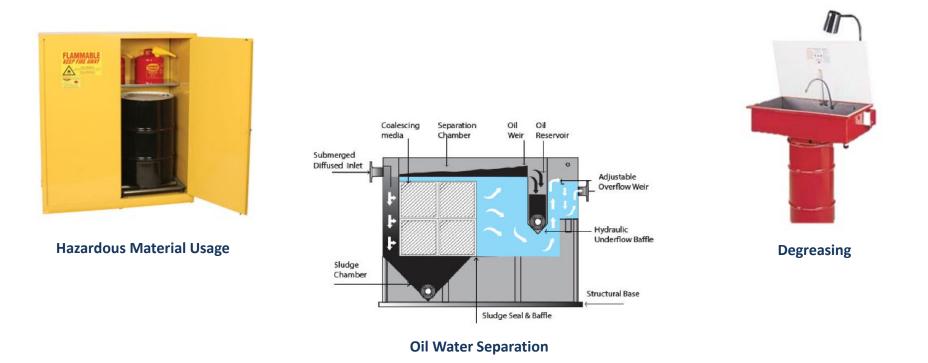
Examples of different types of waste at NUWC

- Hazardous Waste: paints, adhesives, aerosols, fuels (and byproducts), bleach, nitric acid
- Non-Hazardous Waste: oily water, desiccant, grease
- Universal Waste: batteries, equipment containing mercury, fluorescent light bulbs
- Used oil: Isopar L/M, mineral oil, cutting oils





NUWCDIVNPT Processes that Generate Hazardous Waste



EXAMPLES: Propulsion Test Facility, Towed Array assembly and other industrial operations



HAZARDOUS WASTE DISPOSAL

- When a receptacle in your SAA is full, contact the POC listed at the SAA.
- The POC will complete a Hazardous Waste Turn-in Form to dispose of the waste through the Environmental Branch.
- Hazardous Waste personnel will remove the waste within 3 days.

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BATTERY BAGGING

- Alkaline, Lithium Ion, NiCad, and Lead Acid buckets are located in workspace SAAs.
- Seal batteries in individual bags before disposing of them in the appropriate bucket.
- Contact the SAA POC or the Environmental Branch at x23370 for more bags.
- Contact the POC listed at the SAA when bucket is full.





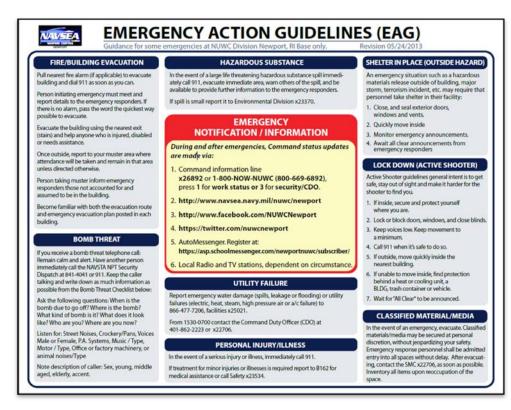
HAZARDOUS WASTE REDUCTION



- Order environmentally preferable Hazardous Materials (Hazmat)
 - Limit ordering of Hazmat to project needs without excess
- Continually research and evaluate processes in order to reduce hazardous waste

HW EMERGENCY SPILL RESPONSE

In the event of a spill, follow the Spill Response Guide or Emergency Action Guidelines, posted near points of waste generation. For a life threatening hazardous substance spill, CALL 911.



	NEWPORT	
	BLDG #	
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GUARDS/CDO ENVIRONMENTAL DIVI	X23145 X23370	
TIME when spill occ DO NOT allow unauthorize RESTRICT all sources of in WAIT for the Facility Incide PROVIDE information and * INFORM the * PASS THE V * EVACUATE	e of spill and ACTIONS being taken urred d persons to enter the spill area. gnition—smoking, engines, open fla ent Commander or CDO to arrive. assistance as instructed. area supervisor. WORD to people in adjacent space area to a safe distance upwind and to	es and areas.
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		(P) (C)
TERNATE	TITLE	PHONE CELL (P)



SOLID WASTE GENERATION

NUWDIVNPT works to ensure the safe, timely, and cost effective processing of all solid waste.

Major Waste Streams







Cardboard







Scrap Metal



Scrap Wood



REDUCING & DIVERTING SOLID WASTE

- Recycle aluminum cans and any #1-7 plastic containers. Please rinse out before placing in recycling receptacle.
- Reduce printing and utilize default double-sided settings.
- Purchase products made with recycled content.



* Follow the NUWCDIVNPT All Destruct Policy



RECYCLING AT NUWC

- Single-Stream Recycling allows for paper and various containers to be collected in one central bin.
- Additional Single-Stream recycling guidance is available on the Code 1023 Solid Waste and Recycling web page.
- Be sure to <u>shred all office paper</u>, as required by the NUWCDIVNPT All Destruct Policy.

For scrap metal, wood, and other items, call the Environmental Branch at x23370





GREEN PROCUREMENT

OPNAV M-5090.1 requires the consideration of "Green" products and/or services as the first choice in all procurements, including service contracts.

Green Procurement Goals

- Increase purchases of green products, and expand the market for green products
- Include environmental considerations in Division Newport contract actions
- Educate all appropriate DoD employees on federal green procurement preference programs
- Reduce consumption of energy and natural resources
- Reduce amount of solid waste generated

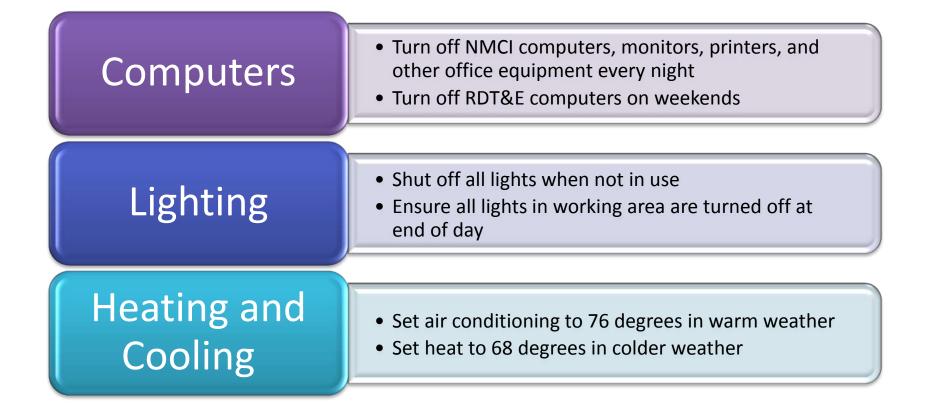




Major Sources of Energy Consumption at NUWCDIVNPT









NUWCDIVNPT has an Industrial Discharge Permit with the City of Newport for all industrial wastewater processes that discharge water directly into the sanitary sewer.



- All wastewater discharges (new or modified) must be approved by the City of Newport Water Pollution Control Division.
- Comply with permit discharge and sampling requirements.
- If you are unsure if your wastewater process has permit requirements, contact the Environmental Branch (x23370).
- Inform the Environmental Branch of all new, modified, or terminated processes utilizing water.



NUWCDIVNPT Activities that Generate Air Emissions



Mobile Emission Sources (generators, compressors, water pumps, etc.)

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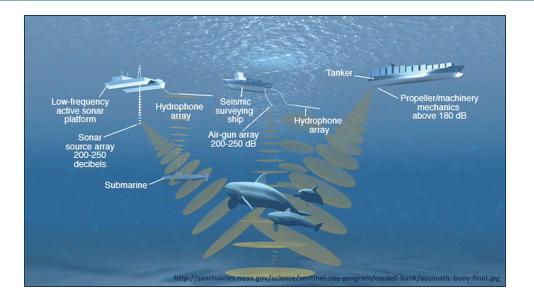
- Propulsion Test Facility Activities
- Travel to and from NUWCDIVNPT



Employee Responsibilities

- Obtain approval from the Environmental Branch for any new emission source (generators, etc...) prior to purchasing.
- Obtain approval from the Environmental Review Board (ERB) for use of emission sources proposed for testing purposes.
- Maintain fuel burning equipment and minimize use.
- Purchase environmentally preferable (low VOC) products.
- Follow State regulations when operating Organic Solvent Degreasers (parts washers).
- Follow protocol for disposing of hazardous material. NEVER let waste products air dry or cure. Keep degreaser lids closed.
- Report use of fuel burning equipment to the Environmental Branch, and operate only as needed.
- Report Hazardous Material use by submitting an Empty Container Report, located on the Safety Branch, webpage.
- Consider taking advantage of the Transportation Incentive and Ride Share programs, and purchasing efficient vehicles.

ACTIVE UNDERWATER ACOUSTIC ENERGY TRANSMISSION



Employee Responsibilities

- Ensure all projects that have a potential environmental impact (on fish, swimmers, mammals, marine habitat) are reviewed by the Environmental Review Board (ERB)
- Train and utilize Marine Mammal Observers for all in-water testing
- Investigate new ways of tracking and monitoring acoustic energy releases

NATIONAL ENVIRONMENTAL POLICY ACT (NEPA) AND EXECUTIVE ORDER (EO) 12114

NEPA and EO 12114 require federal agencies to consider the environmental impacts of their proposed actions.

- NEPA applies to actions ashore and within territorial waters up to 12 nmi from shore
- EO 12114 applies to actions outside 12 nmi from shore.

Consider additional federal laws/regulations:

- Marine Mammal Protection Act (MMPA)
- The Endangered Species Act (ESA)
- Coastal Zone Management Act (CZMA) and others
- The Mission Environmental Planning (MEP) Program can assist with determining the need for preparing necessary NEPA or EO 12114 documentation.
- Document preparation can take from weeks to years, depending on the scope of the action; be sure to engage the Environmental Review Board or the MEP Program early!

Projects can be halted for violations of the National Environmental Policy Act



ENVIRONMENTAL REVIEW BOARD (ERB)

If your project requires regulation under NEPA or EO 12114, it must be reviewed by the ERB. Actions requiring ERB review range from significant projects (e.g., torpedo testing or cable installation) to small-scale data collection efforts (e.g., in-water battery tests).

The ERB is a 9-member team that reviews all DIVNPT proposed actions that have the potential to impact the environment.

Representatives Include:

- Physical Operations and Support
- Legal counsel, and
- Product Codes

Your obligations as a NUWCDIVNPT employee include:

- Considering environmental impacts early in the planning process
- Completing and submitting an ERB questionnaire describing your project
- Ensuring ERB actions are complete prior to test/project commencement
- Re-engaging the ERB if the action changes during planning or execution



Additional Environmental Trainings

- Hazardous Waste Generator Training
 - Required for individuals who are likely to generate or handle hazardous waste.
- Organic Solvent Degreaser Training
 - Required for individuals working with degreasers.

Contact your EMS POC, Supervisor, or the Environmental Branch at x23770 for more information on these trainings.



CONTACT THE ENVIRONMENTAL BRANCH

- Branch Head: Robert Davis (x25844)
- EMP2 Program Manager: Michael Geremia (x27095)
- Air and Water Programs: Stacie Paquette (x27705)
- Detachment Oversight, Compliance, EMS: Michael Geremia (x27095)
- Environmental Review Board: Chris Tompsett (x25845); Heather Hopkins (x26942)
- Hazardous Waste Program: Vincent DeResta (x23407)
- Solid Waste and Recycling: Todd Cabral (x25896)



Remember, environmental compliance is the responsibility of EVERY government and contract worker at NUWCDIVNPT.











Congratulations, you have completed this course!