EPA and Cruise Ship Discharges

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Public Information Hearings

Los Angeles, CA Sept 6, 2000 Juneau, AK Sept 8 Miami, FL Sept 12



Threats Facing Our Oceans

Every day our oceans face a number of threats caused by humans.

These include:

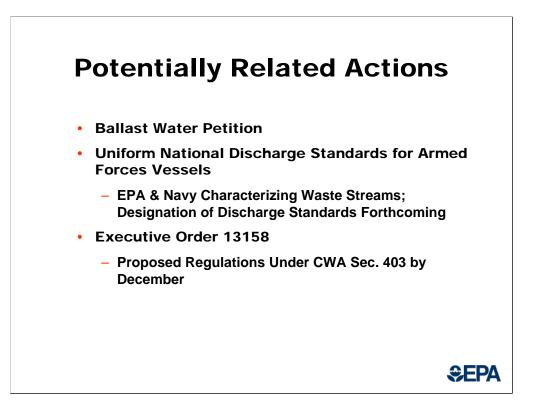
- Discharges from point and non-point sources
- Marine debris
- Physical alterations of ecosystems
- Storm water runoff
- Increase in coastal development
- Overexploitation of resources
- Introduction of non-native species
- Global warming
- Damage caused by commercial and recreational use



Coastal/Ocean Pollution Problems

- Harmful Algal Blooms on the rise
 - Red Tides, Green Tides, Brown Tides
 - Beach Closures and Human Health Impacts
- Hypoxia Gulf of Mexico's Dead Zone: 7000 square miles in 1999
- 40% of surveyed beaches posted warnings or closed in 1998 due to contamination (e.g., pathogens, debris).
- 60% of the world's coral reefs are threatened by pollution; 10% have been lost.
- In 1998, 60% of coastal waters had fish advisories due to toxic chemicals.
- Remaining freshwater and coastal problems largely due to smaller, "nonpoint" sources.





Executive Order 13158

May 26, 2000

Marine Protected Areas

Protect the significant natural and cultural resources within the marine environment for the benefit of present and future generations by strengthening and expanding the Nation's system of Marine Protected Areas (MPAs).

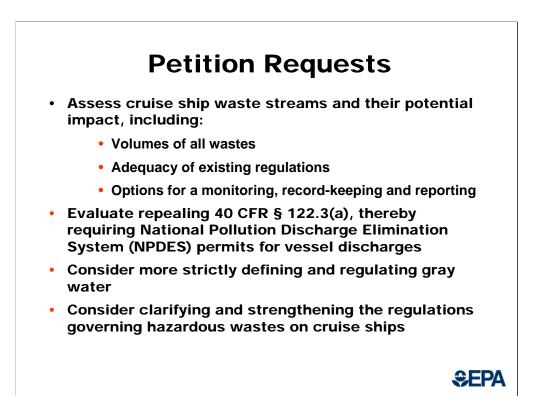


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Bluewater Network Petition's Stated Concerns

Petition's stated concern
Inadequate regulation, inspection, enforcement
Regulations allow discharge almost everywhere. Operational definition of gray water
Monitoring and enforcement of compliance
Clarity of RCRA regulations' applicability to ships
Monitoring and enforcement of compliance
Too little is known of the amount and type of waste generated, and its effect on the environment





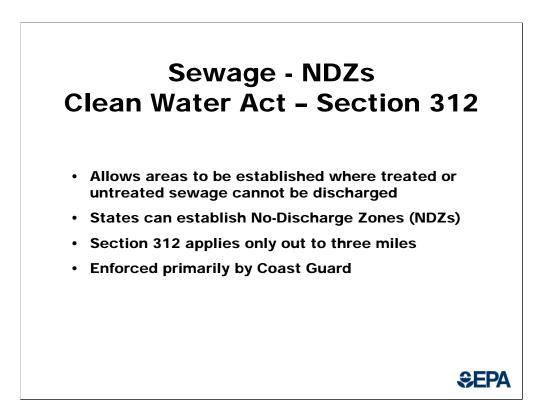


Section 312 establishes effluent standards for marine sanitation devices (MSDs), Section 312 is jointly implemented by EPA and Coast Guard.

EPA is responsible for developing effluent performance standards for MSDs and the Coast Guard is responsible for MSD design, construction, installation, operation regulations, and certifying MSD compliance with EPA regulations

Sewage - MSD Standards

<u>MSD Type</u>	<u>Standard</u>
I	 Effluent fecal coliform bacteria count not greater than 1,000 per 100 ml No floating solids
II	 Effluent fecal coliform bacteria count not greater than 200 per 100 ml Suspended solids not greater than 150 Milligrams per liter
ш	Holding tank (discharge only to pumpout facility or outside of US navigable waters)



EPA can issue regulations establishing NDZs for vessel sewage if a State certifies that the waters need additional protection

States can also establish NDZs, if adequate pumpout facilities are available

NPDES Program Clean Water Act Section 402

EPA's regulations implementing section 402 contain an exclusion for some discharges:

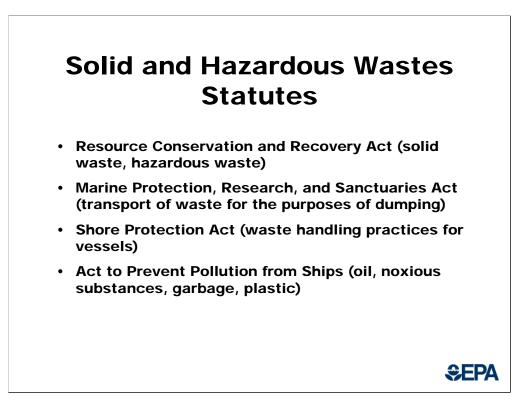
"The following discharges do not require NPDES permits: (a) any discharge of sewage from vessels, effluent from properly functioning marine engines, laundry, shower, and galley sink wastes, or any other discharge incidental to the normal operation of a vessel. The exclusion does not apply to rubbish, trash, garbage, or other such materials" [40 CFR 122.3(a)]



Norms for Land Based Facilities (CWA 101)

- Key roles for States/Territories/Tribes
- Best Available Technology (Effluent Guideline)
 - for sewage and domestic gray water: secondary (biological) treatment
- Whole Effluent Toxicity Testing
 - unidentified pollutants/additive effects
- For WQ Limited Waterbodies
 - additional treatment as needed to assure chemical and biological criteria/standards are met
- Requirements expressed in permits (authorization to discharge)
- Dischargers monitor effluent and report to permit authority





Non-regulatory Programs

- Project XL
- "Performance Track"
- Energy Star
- WAVE
- Green Ports
- Golf and Environment
- Sustainable Slopes
- Project 33/50 (TRI)





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EPA's whole reason for existence is the protection of our environment, including the marine environment. We're committed to do what we need to do to safeguard our waters.

We welcome the opportunity to work with the industry to support voluntary programs in situations where they work.

We will undertake regulatory programs within our authority in situations where they are necessary.

We will make use of all the information you can provide us to help determine which situations are which.