California State Lands Commission
Marine Facilities Division

California Maritime Leadership Symposium
2/2/12

California State Lands Commission
Marine Facilities Division

T/V AMERICAN TRADER
1990 - Huntington Beach, CA

SS SANSINENA
1976 - Los Angeles, CA

Huntington Beach
1990 Clean up

The Lempert-Keene-Seastrand Oil Spill Prevention and Response Act of 1990

- Defines Marine Facility and Marine Terminal
- Mandates Regulatory Responsibilities
- Requires Operations Manuals
- Directs Inspections and Monitoring of Operations

The Marine Facilities Division

- A Professional Maritime and Environmental Organization
- Field Operations Oriented
- Quality Management Organization
  - Customer Focus
  - Scientific Approach
  - All One Team
- Problem Solving through Communication and Partnership - Seeking Regulatory and Non-Regulatory Solutions

Regulations

- Article 5. Marine Terminals Inspection and Monitoring
- Article 5.1 MOT Physical Security
- Article 5.3 Marine Terminal Personnel Training and Certification
- Article 5.5 Marine Terminal Oil Pipelines
- Title 24, CCR, Part 2, California Building Code, Chapter 31F - Marine Oil Terminals (MOTEMS)

What could possibly go wrong…

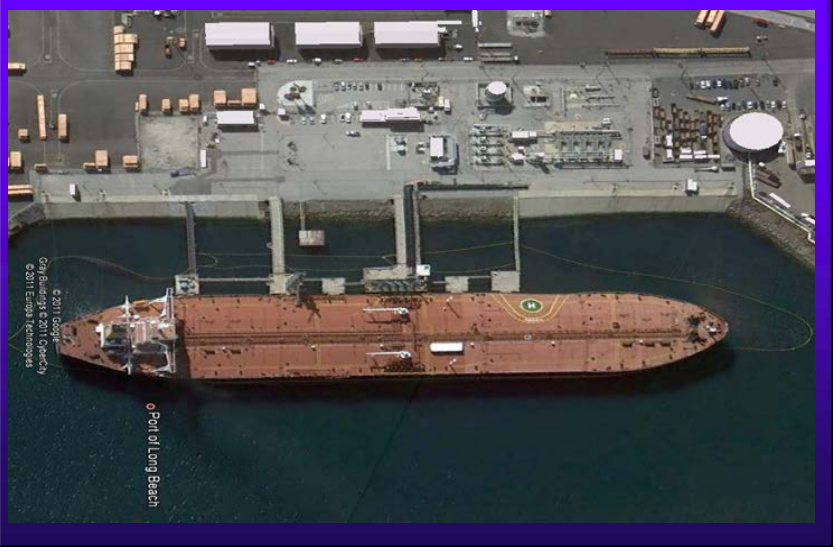
Tank Barge B125 transferring gasoline at a marine oil terminal in Staten Island, New York on Feb 21, 2003.

http://www.youtube.com/watch?v=cb7V7kkCyz4

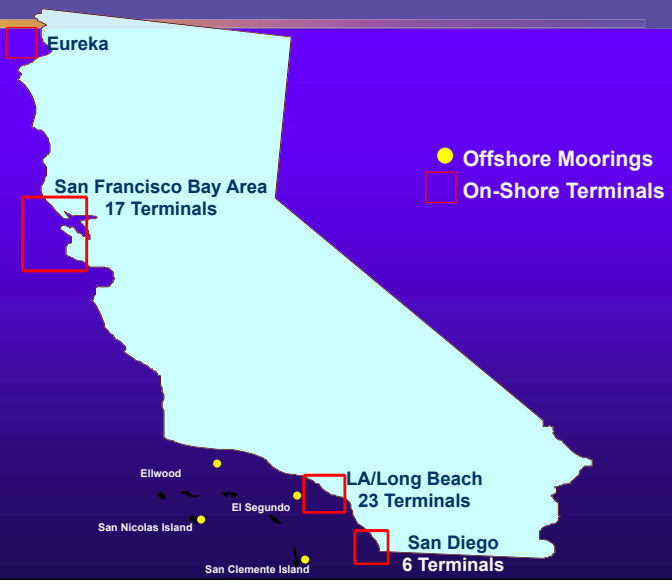
Field Operations

- Monitor Oil Transfer Operations at Marine Oil Terminals (7 days a week); >2800/yr.
- Conduct Inspections at Marine Oil Terminals
- Review Operations Manuals for Compliance and Safe Operating Procedures. Approve Manuals
- Monitor Ballast Water Compliance
- Conduct Incident Examinations
- Involvement with Local Agencies and Maritime Organizations

The Front Office



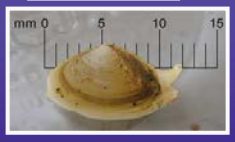
Marine Oil Terminals



Nonindigenous Species (NIS)

- NIS are organisms transported by humans to a region where they do not occur historically
- Serious economic, environmental or human health impacts
- Ballast water of ships is a major mechanism (vector) of species introductions in marine and aquatic habitats
- Another major vector for NIS introduction is through biological fouling on the submerged portions of vessels

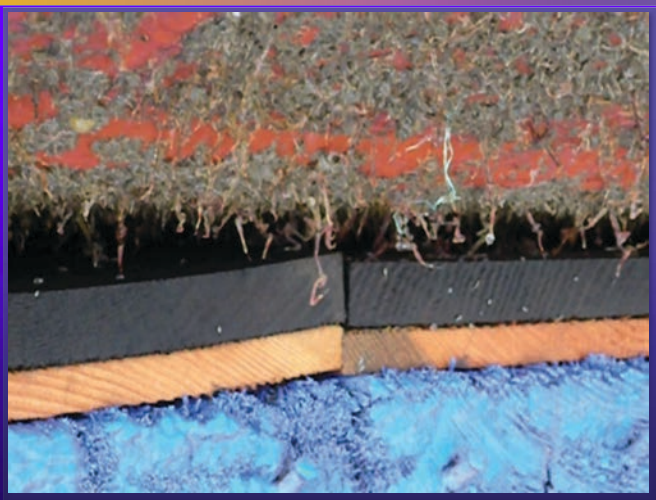
Nonindigenous Species



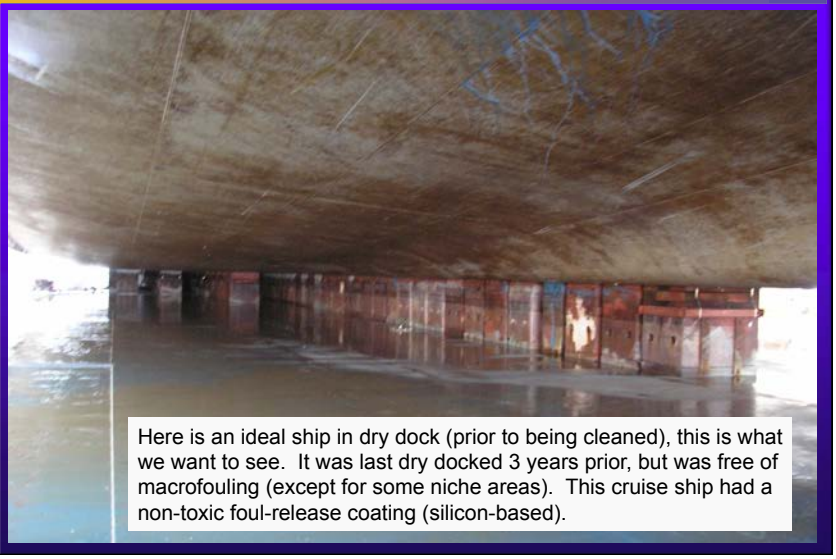
- Impacts?
  - Environmental, Economic, Human Health

$120,000,000,000 in losses and damages **per year** in the U. S. (Pimental et. al. 2005)

What does hull bio-fouling look like?

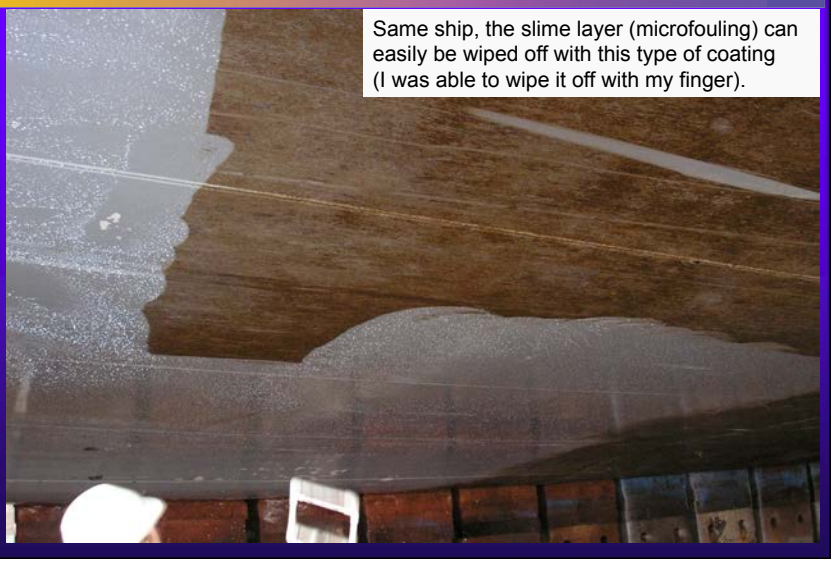


Another look at hull bio-fouling



Here is an ideal ship in dry dock (prior to being cleaned), this is what we want to see. It was last dry docked 3 years prior, but was free of macrofouling (except for some niche areas). This cruise ship had a non-toxic foul-release coating (silicon-based).

Partial fouling removal



Same ship, the slime layer (microfouling) can easily be wiped off with this type of coating (I was able to wipe it off with my finger).

Gross bio-fouling

In Summary

- The Marine Facilities Division is:
  - Prevention Organization of Maritime Professionals
  - Field Operations Oriented
  - Quality Management Oriented
  - Made up of:
    - Operations
    - Planning
    - Engineering
    - Environmental

Prevention First!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