



Introduction

- Singapore is a small island state which...
 - Maintains a relatively clean, ordered, and well-planned environment with comprehensive environmental legislation
 - Ministry of Environment is the key environmental agency in Singapore; however the implementation of environmental legislation is carried out by other agencies.





Ministry of Environment



- Set up in 1972 and is responsible for...
 - Protecting public health and enhancing the environment, as well as establishing the environmental infrastructure and legal framework
 - Conducts regular inspections on industrial and domestic premises and imposes strict penalties for the violation of environmental laws



Hazardous Substances (HS) Regulations in Singapore

- Environmental Pollution Control Act
 - License is required for the import, selling, export, purchase, storage, and or use of hazardous substances
 - Singapore Armed Forces under the Ministry of Defense however, private companies hired by them for the management of HS are not exempt from licensing requirements.





HW Regulations in Singapore

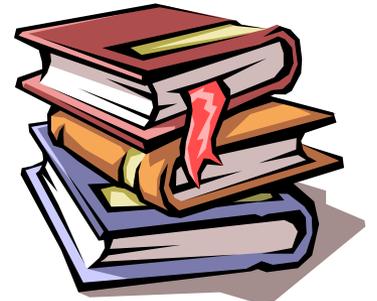
- The following controls HW management
 - Environmental Public Health (Toxic Industrial Waste) Regulations 1988 govern the management of HW and controls the generation, collection, storage, transportation, treatment and disposal of toxic industrial wastes. Licenses are issued to facilities proved to have the capability to treat and dispose of HW in a safe and proper manner





Laws and Regulations

- The Overseas Environmental Baseline Guidance Document (OEBGD) is DOD's attempt to manage its environmental affairs in a consistent manner overseas.
- Private contractors from the host nation doing work for DOD are required to follow host nation laws and OEBGD governing the transportation and disposal of HW.





Why Compliance is Important

- Singapore is in a strategic location
 - Singapore has excellent deep water harbors
 - Over 2/3 of the world's population live within 8 hours of flying time from Singapore
 - Nearest main transiting point to Diego Garcia
- Environmental Stewardship





SHIPBOARD GENERATED INDUSTRIAL WASTE

- FY 2002/2003 successful negotiation with Pollution Control Department (PCD), Ministry of Environment, and formalized the first ever approval to allow the disposal of shipboard generated industrial (hazardous) waste and later biomedical waste in the ROS.





SGIW OFFLOAD

DOMESTIC WASTE:

Cooking oil, Puks, dry cell batteries (mercury free), plastic and rubber debris, waste metal, sealant.

DO NOT COMBINE DOMESTIC/SGIW





SGIW OFFLOAD

CERTIFICATION WILL INCLUDE:

“TO WHOM IT MAY CONCERN:

THIS IS TO CERTIFY THAT ALL (SHIPBOARD GENERATED INDUSTRIAL WASTE/SHOP TOWEL/BIOMEDICAL WASTE) BEING OFF LOADED IN SINGAPORE ON (DATE/TIME/LOCATION), FROM THE (U.S. NAVY VESSEL NAME) WAS GENERATED ENROUTE FROM (LAST PORT OF CALL PRIOR TO SINGAPORE).

ALL WASTE SHALL BE PROPERLY PACKAGED AND LABELED PRIOR TO ITS COLLECTION. FULL DISCLOSURE OF THE SAID WASTE COMPOSITION WILL BE PROVIDED AND THERE IS NO MIXING OF WASTE TYPE. IN SITUATIONS WHERE WASTE IS ALREADY MIXED, FULL DISCLOSURE OF ALL COMPONENTS SHALL BE MADE. NO WASTE SHALL BE OFF-LOADED OR LEFT PIER SIDE PRIOR TO FINAL INSPECTION BY NRCS ENVIRONMENTAL REPRESENTATIVE FOR TRANSFER OF WASTE TO COLLECTING AGENT.

CO/XO or Master of the Ship / Date”



SGIW OFFLOAD

- SGIW and/or biomedical waste offload request to be submitted 7 days prior (Min)
- Info to include: Hazardous material, quantity, type of containers, NSN#, weight, total pallets to offload, specialized equipment
- CONFIRM final quantities 72 hours prior to offload.





SGIW OFFLOAD

- 55-gallon drums. All drums labeled individually
- Biomedical in sharps container or biohazard bags
- Inspection, documentation
- No offload or staging pier side
- NRCS has final authority to reject offload and disposal





SGIW OFFLOAD



- LSR to check approval/funding
- LSR prepare 1149
- LSR, after talking to PWD/Environmental, will confirm offload time and schedule for inspection prior to arrival. No offload is allowed until all conditions above are satisfied. Acceptance is not to be assumed.
- LSR refer all environmental issues to PWD



SGIW OFFLOAD

- Ship requesting offload must provide a LOA of \$500 in advance for any domestic waste identified during the offload. If funding is not used, it will be returned.





QUESTIONS?

