

**PREPAREDNESS AND
RESPONSE TO POLLUTION
INCIDENTS BY HNS
25 JAN 2006
YOKOHAMA, JAPAN**

HAZARDOUS AND NOXIOUS SUBSTANCES (HNS)

- Reference to list of substances previously identified and included in various IMO conventions and Codes

- Includes:

Liquid substances defined as noxious or dangerous

Liquefied gases

Liquid substances with flash point not exceeding 60 degree °C

Dangerous, hazardous and harmful materials/substances carried in packaged form

Solid bulk materials possessing chemical hazards

MPA'S ROLE FOR EMERGENCY RESPONSE

- LEAD AGENCY IN SEAWARD RESPONSE
- TAKE CHARGE AND COORDINATE RESPONSE TO INCIDENTS

CONTINGENCY PLANS

- MARINE EMERGENCY ACTION PROCEDURES (MEAP)
- COVERS RESPONSE TO MARINE INCIDENTS

CHEMICAL CONTINGENCY PLAN (MARINE)

- SUPPLEMENT TO MEAP
- COVERS INCIDENTS INVOLVING BULK CHEMICALS BY SHIPS

TIERED RESPONSE

- TIER 1 – CONTROLLABLE SITUATION
- TIER 2 – SERIOUS CONSEQUENCES TO LIVES AND PROPERTIES => ACTIVATION OF THE EMERGENCY OPERATION COMMITTEE (EOC) AND THE CHEMICAL SITE TEAM (CST).

Emergency Operation Committee (EOC)

- RESPONSIBLE FOR OVERALL CO-ORDINATION AND GENERAL DIRECTION OF THE OPERATIONS AND RESPONSE OF ESSENTIAL SERVICES
- CHAIRED BY MPA'S PORT MASTER
- INCLUDES SUPPORTING EXTERNAL AGENCIES E.G. SINGAPORE CIVIL DEFENCE FORCE (SCDF), SINGAPORE POLICE FORCE (SPF)

EXERCISES

- REGULAR FIELD AND TABLE-TOP EXERCISES TO TEST OUT RESPONSE AND PREPAREDNESS DURING A HNS INCIDENT

ADVANCE NOTIFICATION

- FOR BOTH PACKAGED DANGEROUS GOODS AND BULK CHEMICALS
- FACILITATE QUICK RETRIEVAL OF INFORMATION ON HNS CARRIED ON BOARD SHIPS

HNS Preparedness & Response

- FIRST RESPONSE CAPABILITY
 - 2 FIRE-FIGHTING CRAFT
 - CORE TEAM MAINTAINED ROUND THE CLOCK
- CHEMICAL DATABASES
- CHEMICAL SPILL MODEL

OPRC-HNS PROTOCOL

- SINGAPORE ACCEDED TO THE OPRC-HNS PROTOCOL 2000 ON 16 OCT 2003
- CURRENTLY, 13 STATES ACCOUNTING FOR 15.84% OF WORLD TONNAGE, HAVE ACCEDED TO THIS PROTOCOL
- COMES INTO FORCE 12 MONTHS AFTER THE 15th STATE ACCEDE TO THE PROTOCOL

EARLY ACCESSION TO THE OPRC-HNS PROTOCOL

- EXPECTED INCREASE IN MARITIME TRAFFIC CARRYING HNS DUE TO DEVELOPMENT OF JURONG ISLAND INTO A CHEMICAL HUB
- OUR COMMITMENT TO THE PROTECTION OF MARINE ENVIRONMENT
- PRIOR CONSULTATION WITH CHEMICAL INDUSTRIES

OPRC-HNS PROTOCOL

- THE PREVENTION OF POLLUTION OF THE SEA (HAZARDOUS AND NOXIOUS SUBSTANCES POLLUTION PREPAREDNESS, RESPONSE AND CO-OPERATION) REGULATIONS 2004 GIVES EFFECT TO THE OPRC-HNS PROTOCOL

OPRC-HNS PROTOCOL

- REQUIRES AN OPERATOR OF A HNS HANDLING FACILITY HAVE A HNS POLLUTION EMERGENCY PLAN
- REQUIRES AN OPERATOR OF A HNS HANDLING FACILITY TO PROVIDE SUFFICIENT NUMBER OF TRAINED PERSONNEL AND ITEMS OF EQUIPMENT - EITHER HIMSELF OR ENGAGE AN EXTERNAL SERVICE PROVIDER
- SHIPS CARRYING HNS REQUIRED TO CARRY ON BOARD A POLLUTION INCIDENT EMERGENCY PLAN

HIKARI II

- Tanker collided with dredger Volvox Delta sustained damage to port midship section
- About 230 tonnes of phenol leaked into the sea
- Vessels from the MPA and salvage companies were deployed to render assistance
- Monitoring of phenol level in sea water

HIKARI II

- The Environment Ministry and the Agri-food and Veterinary Authority (AVA) issued a cautionary statement after the accident to warn people not to fish or swim in the area.
- AVA suspended the harvesting and sale of all fish from the affected 25 fish farms
- Cargo was later transferred to another tanker

DEVELOPMENT OF HUMAN RESOURCE

- ACCESSION TO THE OPRC-HNS PROTOCOL ENCOURAGES THE DEVELOPMENT OF HUMAN RESOURCE FOR HNS RESPONSES
- COMPANIES ARE UPGRADING THEIR RESPONSE CAPABILITY TO ACT AS EXTERNAL SERVICE PROVIDER