

ISO 14001 :2004
Environment Management System
Implementation
at



NYK SHIPMANAGEMENT

NYK SHIPMANAGEMENT PTE LTD

1 HarbourFront Place, #15-01 HarbourFront Tower One, Singapore 098633

Tel: 65-6416 7500 Fax: 65-6416 9921

Company Reg No: 200106006E GST No: 200106006E



This electronic version of EMS Training has been prepared and packaged in-house / internally by HSEQ and ICT departments at NYKSM Singapore.

All Licenses registered for NYKSM.

Any queries to be directed to Capt Dale Drego (HSEQ/NYKSM)

Contents

- **General Introduction**
- **Basic Concept**
- **Definitions**
- **Organization and Responsibility**
- **Action Plan**

General Introduction

NYK SHIPMANAGEMENT PTE. LTD
has implemented
Environmental Management System
(E M S)
and is certified
in International standard
ISO 14001:2004

under the umbrella of NYK LINE.

EMS at NYK Group (Single multi-site system)

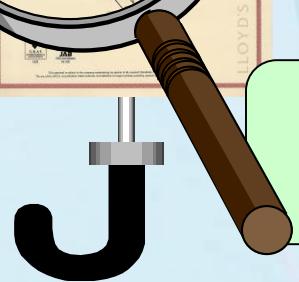
ISO14001 Certification



NYK Group
Top level certificate



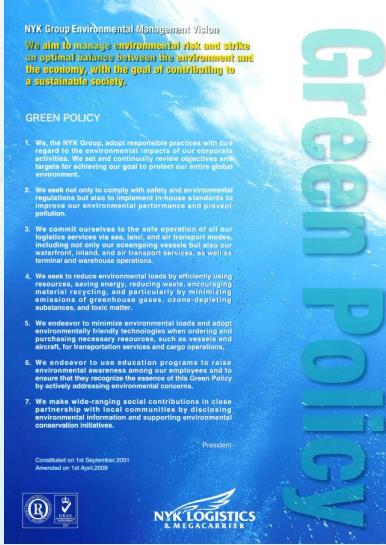
Sub certificate of each segment and company



NYK Group
NYK SHIPMANAGEMENT PTE. LTD

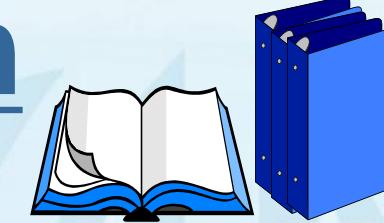
EMS at NYK Group (Single multi-site system)

Our Single Multi-site System



“Mono Policy”

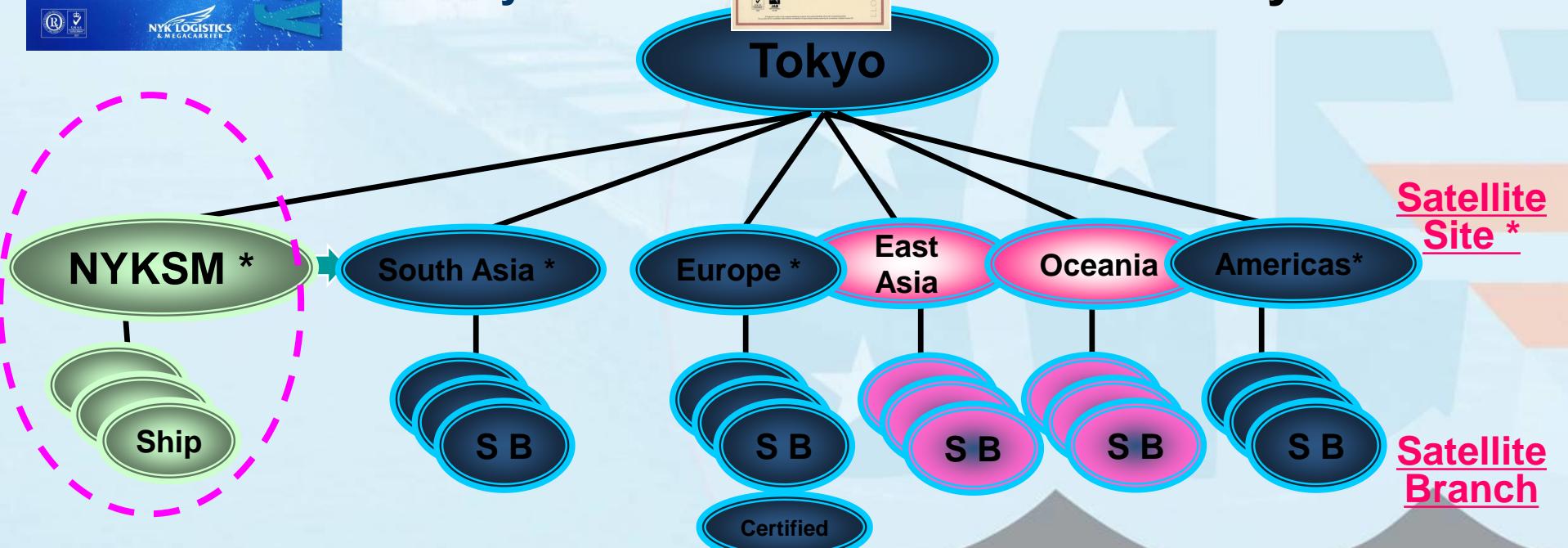
ISO14001



“Mono-System”



Tokyo



Satellite Site *

Satellite Branch

Environmental Management Structure



Executive Chief of
Environmental Management
(Executive Vice President CO,
Tadaaki Naito)

Safety & Environmental Management
Committee
(Chairman: NYK President Yasumi Kudo)



Secretariat: EMT Tokyo

Europe

South Asia

East Asia

Oceania

North America

Latin America



NGE SEMC
CEM: Alan Harries



NGEA SEMC
CEM: Christine Zhang



NGA SEMC
CEM: Brett Kats

NGLA SEMC
CEM: Fabiana Amorin



NYKLNGSM(UK)
SEMC
Deputy CEM:
Yuki Yamamoto



NGSA SEMC
CEM: Koo Mui Hwee



NGOC SEMC
CEM: Brook Paviour



NYKSM SEMC
Deputy CEM:
Capt. Dale Drego

Crystal Cruises SEMC
Deputy CEM:
Greg MacGarva



NYK Logistics (Americas)
Deputy CEM:
Dale Todaro





Lloyd's Register
LRQA



Lloyd's Register
LRQA

CERTIFICATE OF APPROVAL

This is to certify that the Environmental Management System of:

NYK Group
NYK SHIPMANAGEMENT PTE LTD
1 HarbourFront Place,
#15-01 HarbourFront Tower One, Singapore 098633
Singapore

has been approved by Lloyd's Register Quality Assurance to the following Environmental Management System Standards:

ISO 14001:2004, JIS Q 14001:2004

The Environmental Management System is applicable to:

Management of ships.

This certificate is valid only in association with the certificate schedule bearing the same number on which the locations applicable to this approval are listed.

This certificate forms part of the approval identified by certificate number YKA 0773005

Approval
Certificate No: YKA 0773005/33

Original Approval: 11 March 2002

Current Certificate: 1 April 2014

Certificate Expiry: 31 March 2017

Issued by: Lloyd's Register Quality Assurance Limited



Queen's Tower A, 10th Floor, 2-3-1, Minatomirai, Nishi-ku, Yokohama 220-6010, Japan
 For and on behalf of Hiramford Middlemarch Office Village Siskin Drive Coventry CV3 4FJ United Kingdom
 This approval is carried out in accordance with the LRQA assessment and certification procedures and monitored by LRQA.
 The use of the UKAS Accreditation Mark indicates Accreditation in respect of those activities covered by the Accreditation Certificate Number 001
Marie Verstraete 11

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CERTIFICATE SCHEDULE

NYK Group
NYK SHIPMANAGEMENT PTE LTD
1 HarbourFront Place
#15-01 HarbourFront Tower One, Singapore 098633
Singapore

Locations

NYK SHIPMANAGEMENT PTE LTD
 1 HarbourFront Place,
 #15-01 HarbourFront Tower One,
 Singapore 098633,
 Singapore

Tokyo Office
 2-3-2, Marunouchi, Chiyoda-ku,
 Tokyo, 100-0005,
 Japan

Activities

As main scope.

As main scope.

Original Approval: 11 March 2002

Current Certificate: 1 April 2014

Certificate Expiry: 31 March 2017

Page 1 of 1



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Marie Verstraete 11



Lloyd's Register
LRQA

CERTIFICATE OF APPROVAL

This is to certify that the Environmental Management System of:

NYK Group Vessels managed by NYK Ship-management companies

has been approved by Lloyd's Register Quality Assurance to the following Environmental Management System Standards:

ISO 14001:2004, JIS Q 14001:2004

The Environmental Management System is applicable to:

Management of ships.

This certificate is valid only in association with the certificate schedule bearing the same number on which the locations applicable to this approval are listed.

This certificate forms part of the approval identified by certificate number YKA 0773005

Approval
Certificate No: YKA 0773005/0

Original Approval: 11 March 2002

Current Certificate: 1 April 2014

Certificate Expiry: 31 March 2017

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Mark Revision 03

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CERTIFICATE SCHEDULE

NYK Group Vessels managed by NYK Ship-management companies

<u>IMO No. & Ships/Vessels</u>	<u>Activities</u>
IMO No. 9262728 "NYK ATLAS"	Management of ship. (Type : CTNR)
IMO No. 9355408 "NYK CLARA"	Management of ship. (Type : CTNR)
IMO No. 9337614 "NYK DAEDALUS"	Management of ship. (Type : CTNR)
IMO No. 9337652 "NYK DELPHINUS"	Management of ship. (Type : CTNR)
IMO No. 9337676 "NYK DENEBO"	Management of ship. (Type : CTNR)
IMO No. 9337688 "NYK DIANA"	Management of ship. (Type : CTNR)
IMO No. 9387449 "NYK JOANNA"	Management of ship. (Type : CTNR)
IMO No. 9406752 "NYK LAURA"	Management of ship. (Type : CTNR)
IMO No. 9229312 "NYK LEO"	Management of ship. (Type : CTNR)
IMO No. 9229300 "NYK LODESTAR"	Management of ship. (Type : CTNR)
IMO No. 9229336 "NYK LYRA"	Management of ship. (Type : CTNR)

Page 9 of 18



Approval Certificate No: YKA 0773005/0
Queen's Tower A, 10th Floor, 2-3-1, Minatomirai, Nishi-ku, Yokohama 220-6010, Japan
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NYK SHIPMANAGEMENT PTE LTD



NYK
NIPPON YUDEN KAISHA

Doc. No.: EMS-M-01.00.00-E
Date: 2013/04/01
Form No.EMS-M-010000-06FIG

Issue : CEM
Approve : EMS CEM

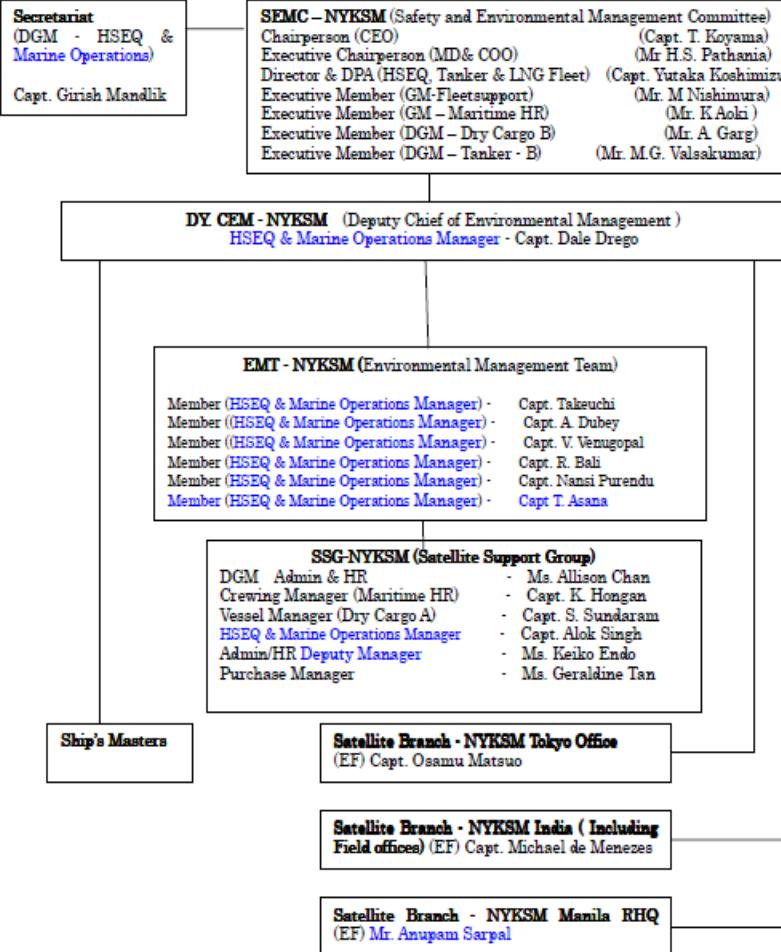
Organization

NYK SHIPMANAGEMENT PTE LTD

Figure

1. Regional Safety and Environmental Organization

NYKSM – ENVIRONMENTAL ORGANIZATION (as of 01 Apr 2014)



Many of the requirements of the ISO 14001 standard are already addressed in the company's existing e-SMS Manual approved by Class NK, and under the ISM Rules to comply with MARPOL regulations.

NYK Line has a ON LINE - EMS Manual accessible to NYKSM Singapore. All relevant requirements are addressed by the company through the e-SMS Manual, EMP and GI-ST Letters.

Basic Concept

- e-SMS to be core of management system of environmental activities.
- EMS matters have reference to e-SMS
- Focus areas :

Ensuring SMS implementation on board and Office

Efficient operation

Green purchasing

Green Office at NYKSM (Singapore & Tokyo)

Continual improvement by review & training

2. Basic Concept

- Waste Reducing
- Green Purchasing
- Electric Power Saving

Integration with other Management Systems



EMS at NYK Group (Single multi-site system)

Environmental Management Promotion System





3. DEFINITIONS



ENVIRONMENT

Surroundings in which an organization operates, including air, water, land, natural resources, flora, fauna, humans, and their interrelation.



ENVIRONMENTAL ASPECT

Element of an organization's activities, products or services that can interact with the environment.



ENVIRONMENTAL IMPACT

Any change to the environment, whether adverse or beneficial, wholly or partially resulting from an organization's activities, products or services.



IMPACT

EXAMPLE

ASPECT

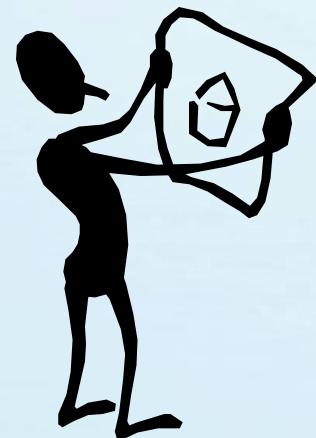


ISO 14001 Standards

Identification of Environmental Aspects and Impacts

Input

Paper, Electricity, Materials, Energy, etc...



Ships & Office

Environmental Aspects
- Activities
- Products
- Services

CO₂, NOx, Sox, Black smoke, Bad smell, Noise,
Vibration, Harmful substance, Waste etc...

Output

ISO 14001 Standards

Environmental Impacts of Ship Operations

Leaks of chlorofluoro-carbon gas

Emissions of greenhouse gases, such as SOx, NOx, & particulate matter

Marine pollution caused by collisions & groundings



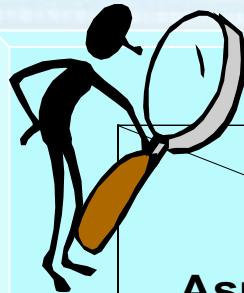
Discharge of engine-room bilge

Discharge of ballast water

Elution of antifouling paint from the ship bottom

ISO 14001 Standards

Evaluation of Environmental Impacts



Aspects	Impacts					
	Resource Exhaustion	Air Pollution	Ozone Depletion	Water Pollution	Global Warming	Waste
Engine Operation	X	X		X	X	X
Boiler Operation	X	X			X	X
Discharge of Sewage				X		
Fire of Fuel or Cargo		X			X	X
Leakage of Fuel or Cargo Oil				X		
Repair of Reefer Containers			X			
Electricity Usage at Office	X	X			X	
Office Paper Usage	X					X



ENVIRONMENTAL OBJECTIVE

Overall environmental **goal**, arising from the environmental **policy**, that an organization sets itself to achieve, and which is **quantified** where **practicable**.

ENVIRONMENTAL TARGET

Detailed performance requirement, quantified where practicable, applicable to the organization or parts thereof, that arises from the environmental objectives and that needs to be set and met in order to achieve those objectives.

VISION and MISSION STATEMENT



NYK SHIPMANAGEMENT

VISION STATEMENT

To establish and provide Ship Management and other services to ship owners and operators, which will be an example for others to follow.

MISSION STATEMENT

To provide a caring and customized global Ship Management Service; giving the highest priority to **Safety of Life, Safe Operation of Ships and Environmental Protection**; striving for the goal of **Zero Incidents and Zero Spills** through a process of Continuous Improvement.



NYK SHIPMANAGEMENT PTE LTD

NYK Group Environmental Management Vision

We aim to manage environmental risk and strike an optimal balance between the environment and the economy, with the goal of contributing to a sustainable society.

GREEN POLICY

1. We, the NYK Group, adopt responsible practices with due regard to the environmental impacts of our corporate activities. We set and continually review objectives and targets for achieving our goal to protect our entire global environment.
2. We seek not only to comply with safety and environmental regulations but also to implement in-house standards to improve our environmental performance and prevent pollution.
3. We commit ourselves to the safe operation of all our logistics services via sea, land, and air transport modes, including not only our oceangoing vessels but also our waterfront, inland, and air transport services, as well as terminal and warehouse operations.
4. We seek to reduce environmental loads by efficiently using resources, saving energy, reducing waste, encouraging material recycling, and particularly by minimizing emissions of greenhouse gases, ozone-depleting substances, and toxic matter.
5. We endeavor to minimize environmental loads and adopt environmentally friendly technologies when ordering and purchasing necessary resources, such as vessels and aircraft, for transportation services and cargo operations.
6. We endeavor to use education programs to raise environmental awareness among our employees and to ensure that they recognize the essence of this Green Policy by actively addressing environmental concerns.
7. We make wide-ranging social contributions in close partnership with local communities by disclosing environmental information and supporting environmental conservation initiatives.

President

Constituted on 1st September, 2001
Amended on 1st April, 2009



NYK LOGISTICS
& MEGACARRIER

GREEN
POLICY

Shipmanagements

SHIPMANAGEMENT PTE LTD

Environmental Management Program / Plan

EMP

is our (Action Plan of Environmental Activities)

Policy

1. Continual improvement
2. Complying with legal requirements
3. Ensuring safe operation
4. Prevention of global warming
5. Using environmentally friendly technologies
6. Environmental training
7. Community activity

Objectives

1. Maintain ISO 14001 certification
2. Zero detentions
3. Reduce downtime to 10 hrs / ship
4. Implementation of SEEMP.
5. 50% environmentally friendly purchasing
6. Training of all employees
7. Appear on NYK Group Calm sea Report

Targets

1. Implement and improve EMS
2. Complying with legal requirements
3. Reduce downtime
4. Reduction of Fuel
5. Purchase environmentally friendly goods
6. Promote training
7. Disclosure of information

For example...

FY 2011 - 2012 Environmental Management Plan - NYKSM (Vessels)

Prepared: 15th April 2011
Approved: 21st June 2011

GREEN POLICY	OBJECTIVES	TARGETS	ACTION BY VESSELS TO ACHIEVE TARGETS	INDEX TO CHECK ACHIEVEMENT	Related department	Assessment / Evaluation
1 Adopt responsible practices with due regard to the environmental impacts of our corporate activities. We set and continually review objectives and targets for achieving our goal to protect our entire global environment. (Continual improvement)	Maintain and Improve EMS	e-SMS serving as a core for EMS, to be on board. To receive EMP from office and implement	i) To Comply with e-SMS, its revisions, GIVST Letters, EMP etc. ii) Utilise Indicators such as CARs, Observations and records for improvement.	- Audit reports (No of CARs) - Periodic Management reviews	Vessels + Fleet Management Dept +HSEQ Dept	
2 Seek not only to comply with safety and environmental regulations but also to implement in-house standards to improve our environmental performance and prevent pollution. (Comply with safety and environmental laws and regulations)	Comply with safety and environmental laws and regulations	a) Comply with national, regional and international laws, regulation MARPOL conventions. Get approval of Ballast Water Management Plans (BWMCC)	i) To Comply with SMS, GIVST Letters, etc. Continue to update procedures related to Regulations. Proactively review and update	ST and Record kept by agents, agencies, Office	Vessels + HSEQ + Fleet Management Dept	
		B) Improve in-house Environmental System			Vessels	
3 Commit ourselves to the safe operation of all our logistics services via sea, land, and air transport modes, including not only our ocean-going vessels but also our waterfront, inland, and air transport	Reduce Accidents / Incidents	i) Safe operation to reduce downtime affecting operation to 10.0 hours per month b) Zero Fatal Accident	Safe operation Comply with SMS information (e.g STA) Proper Execution of PMS SMS maintenance instructions Other Comply with procedures	Review Reports Included in monthly Performance Summary (MPSM)	Staff + Vessels	
				Periodic management reviews (includes KPI and related information, and Records (both on board and ashore))	Fleet management + HSEQ Department	

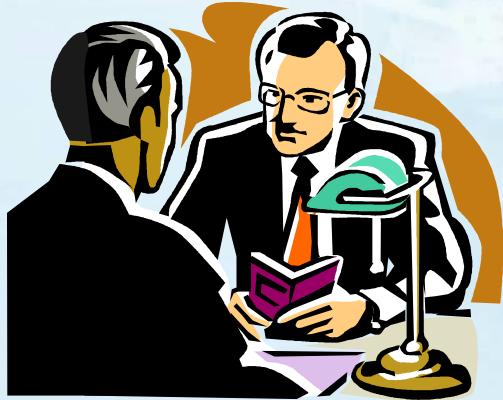
**Sent to all NYKSM ships every year
vide GI/Letter**

4. Organization and Responsibility @ NYKSM

What is SEMC-NYKSM ?

Safety and Environmental Management Committee

Top & Senior management are members



What do they do?

Review and Approve EMP

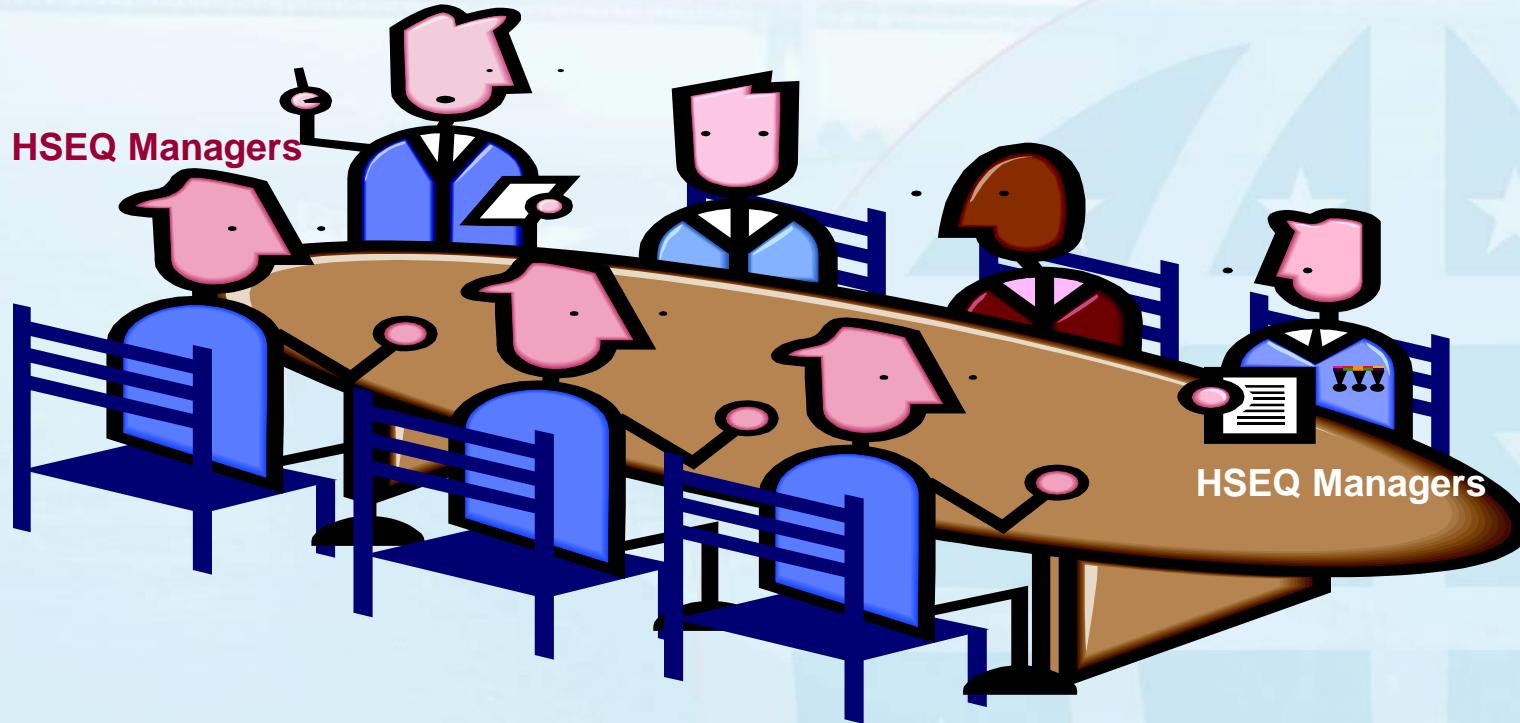
Deputy Chief of Environmental Management

(DCEM - NYKSM)
Capt Dale Drego



Link Between the Ship & Shore

Environmental Management Team (EMT – NYKSM)



**Has been formed with HSEQ Managers
for implementation of EMP.
Capt. Dale Drego is coordinating
EMT's activities**

Satellite Support Group

(SSG – NYKSM)



**Members from various department for feedback /
reports/implementation of EMP**

Satellite Branch- NYKSM (Tokyo, Mumbai Offices, etc)

Environmental Facilitator (EF)



Satellite Branch = Overseas offices

Environmental Facilitator (EF) = Person in charge for implementation

(SEMC-NYKSM)



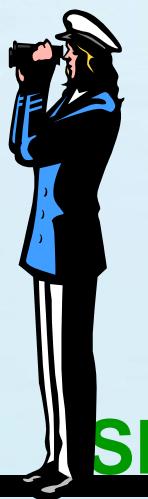
Dy. CEM - NYKSM



(EMT - NYKSM)



(SSG - NYKSM)



SHIP Masters

**Satellite Branch- NYKSM
(Tokyo / Mumbai Offices)**



Bringing
Value to Life

Nippon Yusen Kabushiki Kaisha

NYK Report 2013
Financial, Social, and Environmental Performance

2013

What is CSR ?

Corporate Social Responsibility

This Report is Published Once
a year by NYK Line

Crew members are integral part of NYK Group's Mission and success



**Kindly see CSR Report 2013.
for guidance and
understanding**

**CSR Report has been forwarded to ALL
vessels**

**Latest CSR report is also posted on the website
“www.nykline.co.jp”**

Ship's staff

To Comply with e-SMS and other company circulars (GI & ST Letters , HSEQ/ALL etc.)

- To comply with SOLAS , MARPOL and other Flag state requirements
- To follow E M P (Environmental Management Plan)
- To Participate actively in various Environmental Campaigns



Thank you