

# MARPOL Reception Facilities

U.S. Approaches and International Responsibilities

Lloyd's Maritime Academy  
Third Annual Conference on the  
Management of Ships' Wastes  
London, 28-29 September 2009

Capt. David A. Condino (MM – CIV)  
USCG Office of Ports and Facility Activities



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# Implementing MARPOL Regulations For Reception Facilities

- **US Approach - Certificate of Adequacy (COA) Program**
- **IMO FSI Correspondence Group Tackling Inadequacy of Port Reception Facilities**
- **A Guide to Good Practice for Ship Owners/Operators and Port Operators**
- **ISO Standards for Waste Handling On-board and In-port**
- **International Cooperation and Creating Consensus**



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# US Certificate of Adequacy Program

- **Program Oversight**
- **Regulatory Background**
- **COA Program**
- **Facility Inspections**
- **Inadequacy Reports/Investigations**
- **Reporting to IMO**
- **Guidance to Field Units/Industry Outreach**
- **Program Goals**
- **Some Statistics**



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# Program Oversight

- **Implement MARPOL** via US regulations and policies
- Develop **national guidance** for field units and industry for COA certificate issuance process and enforcement
- **Monitor** COA application, inspection, and reporting process
- **Investigate and Review** all reports of inadequacy
  - Initiate any necessary administrative/legal action to correct inadequacies
  - Provide reports and investigation results to IMO
- **Maintain public database** of port reception facilities via Coast Guard's Maritime Information Exchange (CGMIX), which is accessible via IMO's Global International Shipping Information System (GISIS)
- Conduct **outreach** regarding the COA program to domestic and international industry groups, end users, and port operators.



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# Regulatory Background

- US is party to **ANNEX I, II, III, V, and VI**
- US law implementing MARPOL is the **ACT TO PREVENT POLLUTION FROM SHIPS (APPS)** 33 U.S.C. §§ 1901-1912 (Gives authority to the USCG to enforce MARPOL)
- USCG developed **Certificate of Adequacy (COA) program** in the APPS implementing regulations, IAW recommendations in IMO Guidelines at Chapter 7.1
- **Commandant Instructions** for administering COA program
  - M16450.27 – Oil (1985)
  - M16450.29 – NLS (1987)
  - M16450.31 – Garbage (1989)
- **MARITIME POLLUTION PROTECTION ACT of 2008** (signed into law on July 21, 2008) – amends APPS to include **Annex VI**



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# The COA Program

## ■ **APPLICABILITY** to ports and terminals – Who needs a COA?

- Annex I – Rcvs ships 400 GT or more w/ oily mixtures
- Annex II- Rcvs ships carrying NLSs
- Annex V- Rcvs Annex I or II vsls or fishing vsls which offload 500K lbs/year of fisheries product. All terminals must provide MARPOL V reception facilities including small rec. marinas not requiring a COA

## ■ **CRITERIA** for adequate facilities - **Timeliness**

- Annex I – Must rcv oily mixtures w/n **24-hrs of notice** & must complete transfers w/n **10-hrs for ballast water** & w/n **4-hrs for other oily mixtures.**
- Annex II – Must rcv residues w/n **24-hrs of notice** & must complete **transfers w/n 10 hrs.**
- Annex V – Must rcv APHIS (Animal and Plant Health Inspection Service) regulated garbage w/n **24-hrs of notice** (Protecting Public Health)



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# The COA Program (2)

## Reception Facility Adequacy

### ■ **CRITERIA** for adequate facilities - **Capacity**

- Regulations provide detailed guidelines for determining the reception capacity needed for each type of waste
- Calculations and formulas based on IMO guidance

### ■ **CRITERIA** for adequate facilities - **Equipment**

- Annex I – Must have a standard discharge connection that meets requirements as standardized for ships (33 CFR 158.250)
- Annex II – Facilities that receive ships transferring Non-Solidifying or Non-High Viscosity Category Y or Z NLS must be capable of receiving such residues during stripping operations at an avg flow rate of 6 cubic meters per hour w/out backpressure exceeding 101.6 kPa.



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## ■ **MARPOL RECEPTION FACILITIES**

- **Must hold each federal, state and local permit or license required by environmental and public health laws concerning waste handling**
- **Must be arranged so as not to interfere with port or terminal operations**
- **Must be conveniently located so it can be easily found and use is not discouraged**
- **Must be situated so that wastes and residues removed from ships cannot readily enter the water**



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# COA Facility Inspection Program

- Inspections are encouraged annually
- Inspectors must be qualified through **Certificated Program**
- **Inspector Training and Job-aids**
- Inspectors record results of inspections using **Coast Guard's Marine Information for Safety and Law Enforcement System (MISLE)**



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# Inadequacy Reports/Investigations

- **US encourages reports by any means to COTP**
- **US encourages use of the standard format for reporting alleged inadequacy of PRFs to the IMO (MEPC.1/Circ.469/Rev.1)**
- **Field Units copy COMDT (CG-5442) on any inadequacy investigation**
  
- **Examine suspected facilities'**
  - ✓ **Waste stream logs for waste streams from vessels**
  - ✓ **Uniform Hazardous Waste Manifests**
  - ✓ **Declarations of Inspections (DOIs)**



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# Inadequacy Reports/Investigations

- If facility determined to be inadequate, corrective actions may include:
  - ✓ Letter of warning
  - ✓ Recommendations to correct
  - ✓ Revocation of COA
  - ✓ Denial of vessel entries to port
  - ✓ Legal action under US law



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# MARPOL Reporting to IMO

- Port Reception Facility Database **mandated by Congress in 33 USC 1905**
- Coast Guard maintains public database via **Coast Guard's Maritime Information Exchange (CGMIX)** automatically updated through MISLE
- **Link: <http://cgmix.uscg.mil/MARPOL/Default.aspx>** available on IMO Port Reception Facility Database (PRFD) via **IMO's Global Integrated Shipping Information System (GISIS)**
- **US supports use of the IMO PRFD** as the primary source for information about port reception facilities worldwide
- **Reports of Inadequacy** and Investigation Results provided to IMO (Legal and Regulatory Compliance Division).



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# CGMIX Database

USCG CGMIX MARPOL Service Facilities - Microsoft Internet Explorer UNCLASSIFIED

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Address http://cgmix.uscg.mil/MARPOL/Default.aspx



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**Welcome to the United States Coast Guard  
MARPOL Servicing Facilities System**

This online searchable database contains a listing of U.S. Ports and Terminals holding valid MARPOL Certificates of Adequacy (COAs).

U.S. Ports and Terminals are issued Certificates of Adequacy (COAs) as evidence that their facilities meet the requirements of Annexes I, II, and V of the 1978 Protocol to the International Convention for the Prevention of Pollution from Ships (MARPOL 73/78).

**MARPOL regulations are further detailed in [33 CFR Part 158](#).**

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# Summing up Program Goals

- Promote **safety** and **environmental stewardship**
- Promote and **encourage pollution prevention policy** internationally, nationally and locally
- **Keep industry on the move** with minimal delays
- **Encourage best practice methodology** and use of technology by working with industry and IMO Member States.
- Insure that **Field Inspectors have necessary experience and qualifications.**
- Achieve and maintain **100% MARPOL compliance**



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# Industry/Field Unit Outreach Efforts

- **Navigation and Vessel Inspection Circular (NVIC) and COMDT Instructions for COA issuance process**
- **Marine Safety Manual (MSM)**
- **Attend public meetings/comment**
- **Give presentations at industry forums and conferences; solicit feedback from industry advisory groups**
- **Participate on national and international Correspondence and Work Groups on reception facility and port related safety, pollution prevention, and environmental issues.**



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# US Facility Statistics – 2007 data

<b>Vessel Arrivals at US Ports</b>	<b>146,756</b>
<b>US Facilities of all types</b>	<b>35,611</b>
<b>Facility Inspections Conducted</b> (Total for all types)	<b>17,259</b>
<b>Annex I Facilities Holding a COA</b>	<b>670</b>
<b>Annex II Facilities Holding a COA</b>	<b>130</b>
<b>Annex V Facilities Holding a COA</b>	<b>2230</b> (Total Includes Annex I and II Facilities)



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# IMO FSI Correspondence Group

## Tackling the Inadequacy of Port Reception facilities

- **2007** - IMO establishes a CG and includes the following in its recommended work plan:
  - Develop Standardized **Advance Notice and Waste Receipts**
  - Enhance the **functionality of IMO GISIS** Port Reception Facility Database
  - **Identify technical problems** with transfer of ships' waste to shore facilities and develop standards for waste handling on-board and in-port
  - **Identify types and amounts of wastes and capacity** requirements at waste reception facilities
  - Develop a "**Guide to Good Practices**" for PRF users
  - Review/Update IMO **Manual for Port Reception Facilities**
  - Develop a program to **help improve reception facilities around the world**



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# IMO FSI Correspondence Group

## Progressing the Work Plan

- **2008 – 2009**
  - **Standardized Advance Notice and Waste Receipts** approved and available for download as **MEPC.1/Circ.644 and Circ.645**
  - **IMO GISIS Port Reception Facility Database** fully functional
  - **“Guide to Good Practices”** for PRF users available on GISIS website
  - **CG Re-established through 2010 to complete work**



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# “Guide to Good Practice”

## For Port Reception Facility Providers and Users

- A General Guidance document in the form of an IMO Circular: MEPC.1/Circ.671
- Downloadable from GISIS website: <http://gisis.imo.org/Public/>
- Includes Definitions and suggestions for ship owners/operators and reception facility operators
- Inadequacy Reporting and Advance Notice and Waste Receipt Forms are also provided



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MEPC.1/Circ.671

ANNEX

GUIDE TO GOOD PRACTICE FOR PORT RECEPTION FACILITY PROVIDERS AND USERS



IMO

TABLE OF CONTENTS

INTRODUCTION.....	2
TERMS USED IN THIS GUIDE .....	2
LAYOUT OF GUIDE.....	4
CORPORATE AND SOCIAL RESPONSABILITY.....	4
OBLIGATIONS OF SHIPS AND OF PORT OPERATORS.....	4
Special Areas and Emission Control Areas .....	5
GOOD PRACTICES FOR SHIP MASTERS, SHIP OWNERS AND OPERATORS.....	7
Considerations Prior to Delivery of MARPOL Residues/Wastes Ashore.....	7
Logistical and Commercial arrangements.....	7
Minimization and Management of Ship-generated Residue/Waste.....	7
Communication and Advance Notification.....	8
Considerations during MARPOL Residue/Waste Delivery.....	9
GOOD PRACTICES FOR PORT RECEPTION FACILITY OPERATORS.....	9
Communication.....	9
Port Reception Practices .....	10
SOURCES OF ADDITIONAL INFORMATION .....	11
APPENDICES	
Appendix 1 – IMO Circular MEPC.1/Circ.469/Rev.1, ‘Revised Consolidated Format for Reporting Alleged Inadequacy of Port Reception Facilities	
Appendix 2 – MEPC.1/Circ.644: Standard Format for the Advance Notification Form	
Appendix 3 – MEPC.1/Circ.645: Standard Format for the Waste Delivery Receipt	



# **ISO Standard**

## **For Waste Handling On-board Ships**

- **ISO Shipboard Waste Handling Standard 21070**
  - **Waste Segregation**
  - **Storage**
  - **Waste Minimizing**
  - **Waste Handling Equipment**



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# **ISO Standard**

## **For Waste Handling at Port Reception Facilities (in Development)**

- **ISO Interim Standard for Port Reception Facilities**
  - **Waste Segregation**
  - **Storage**
  - **Waste Minimizing**
  - **Waste Handling Equipment**
  - **Recycling**
  - **Local and National Regulations**



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# **International Cooperation/ Consensus Building**

## **For Managing Ships Wastes on a Global Scale**

**Protection of the Global Ocean Environment is a shared responsibility**

- **The maritime community owns this issue**
  - **Ship Owners**
  - **Port Operators**
  - **Governments/Regulators/National Coast Guards**
  - **Industry Groups**
  - **NGOs and Governing Organizations and Bodies**



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# Contact Info:

**LCDR Kevin Lynn, CG-5442 Safety Branch Manager**

Office: 202-372-1130

[kevin.p.lynn@USCG.MIL](mailto:kevin.p.lynn@USCG.MIL)

**Captain David Condino (MM), Asst. Branch Manager, MARPOL Programs**

Office: 202-372-1145

[david.a.condino@USCG.MIL](mailto:david.a.condino@USCG.MIL)

**Safety Branch General E-mail Address**

[HQS-PF-fldrp5442@USCG.MIL](mailto:HQS-PF-fldrp5442@USCG.MIL)



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