



4th August 2013

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Regional workshop on MARPOL & Port Reception Facilities

Activity Report

22-25 July 2013

Fort Lauderdale, Florida, USA

Summary: This regional workshop is part of the outcome of the *Action Plan on Tackling the Inadequacy of Port Reception Facilities* which was initiated by the Marine Environment Protection Committee of the IMO, and implemented by the Sub-Committee on Flag State Implementation (FSI). The objective of this event was to provide detailed information with regard to the most recent amendments to the MARPOL Convention and the responsibilities of Parties under the Convention which are intended to ensure the legal disposal of ship-generated waste. Participants also received practical information on the provision of port reception facilities (PRFs) and ship-generated waste management.

**Regional Activity Center / Regional Marine Pollution Emergency, Information and Training Center
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1. Background

1.1 For some time now, the Wider Caribbean States and Territories have expressed concern over the continuing degradation of the Marine Environment in the region and the need to reduce marine pollution and its negative impact. Of particular concern to Governments and civil society is the growing unsustainable use of coastal and oceanic marine resources, which, if not reversed, could undermine the very basis of social and economic development in these coastal states.

1.2 In the last 30 years, several initiatives were developed for the protection of the marine environment, including the International Maritime Organization's (IMO) International Convention for the Prevention of Pollution from Ships, 1973, as modified by the Protocol of 1978 and 1997. This Convention applies to ships and has six Annexes to minimize sources of pollution from vessels.

1.3 Although a majority of States and Territories are a party to MARPOL and have ratified or acceded to a number of Annexes (in particular Annex I, II, III and V), they are currently facing a certain number of impediments to fully implement and enforce the Convention in the event of non-compliance.

1.4 In addition, taking into concern that the Wider Caribbean became a "Special Area" under MARPOL Annex V (Garbage), States and Territories were encouraged to implement and enforce these regulations. Even though the Special Area provisions for the Caribbean Sea with more stringent controls regarding the discharge of garbage have taken effect on 1 May 2011, States and Territories are facing difficulties to provide adequate PRFs.

1.5 In 2007 and 2008, RAC/REMPEITC-Caribe, together with IMO and the United Nations Environment Program (UNEP) through its Caribbean Environment Program (CEP) conducted an outreach program to facilitate the implementation of MARPOL Annex V. This effort was followed up by a series of seminars held in seven countries and hosted by the Land-based Sources of Pollution (LBS) Protocol of the Cartagena Convention, RAC/REMPEITC-Caribe, IMO, and UNEP's Caribbean Regional Coordinating Unit. The purpose of these seminars was to offer decision-making authorities and other stakeholders information regarding the steps needed to implement the MARPOL Annex V Special Area designation for the Wider Caribbean Region, as well as to assess the status of the various countries' waste reception facilities.

1.6 The last regional workshop was conducted in October 2012 in Paramaribo, Suriname and provided information on the ratification, implementation, and enforcement of the MARPOL Convention and brought special attention to the issue of port reception facilities in the Wider Caribbean Region. During this meeting, participants presented the status of PRFs in their respective country, identified impediments to the implementation and enforcement of MARPOL and proposed some solutions. The idea of developing regional arrangements was suggested and it was recommended to study further this proposition which is in line with the amendments to MARPOL which entered into force on 1st August 2013 permitting regional arrangements for port reception facilities for Small Island Developing States. It was also recommended to provide further information



about the practical implementation of PRFs and waste management technologies as well as outlining amendments that have/will enter into force in 2013.

1.7 This workshop is part of the outcome of the *Action Plan on Tackling the Inadequacy of Port Reception Facilities* initiated by the Marine Environment Protection Committee of the IMO, and implemented by the Sub-Committee on Flag State Implementation (FSI). The Action Plan contained 13 work items, one of which was on the subject of “Technical cooperation and assistance”. The outcome of this work item was recorded in a short document entitled “Plan of Assistance and Training on Port Reception Facilities for Developing Countries”. This document proposed a new form of workshop whereby a Member State with a well-established practice in the provision of port reception facilities would host delegations from other countries seeking to learn about ship generated waste management practices. The Plan of Assistance specified that: “The (host) Member State can provide presentations about their own port reception facility programme, certification schemes, waste handling procedures and equipment, and provide facility site visits.” MEPC 61 in October 2010 approved the Plan of Assistance and requested IMO’s Technical Co-Operation Committee to include it as a priority theme for the Integrated Technical Cooperation Programme for the biennium 2012-2013, which was done in July 2011 at TCC 61.

1.8 The workshop answered accurately to the needs of the region outlined during the previous meeting. This event was intended for senior government officials from national authorities responsible for the implementation and enforcement of the MARPOL Convention and also for senior management staff from port authorities or organizations which have been designated to play a role in the setting up and operation of PRFs.

2. Workshop Objectives

2.1 To provide detailed information with regard to the most recent amendments to the MARPOL Convention and the responsibilities of Parties under the Convention which are intended to ensure the legal disposal of ship-generated waste

2.2 To provide practical information on the provision of PRFs and ship-generated waste management.

2.3 To get an overview of the waste management practices and the status of PRFs in the different countries.

2.4 To educate and encourage the responsible parties to populate and maintain their data in the Global Integrated Shipping Information System (GISIS) PRF database.

2.5 To share ideas and concerns among the participants to aid them in moving forward on solutions.

2.6 To develop and to support agency cooperation at the local level and to improve links between stakeholders, industry, NGOs and government.

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3. Program

3.1 The workshop was organized by RAC/REMPEITC-Caribe in co-operation with the IMO under Activity 4.3.i.1 of the 2012-2013 Strategic Plan. Funding was provided under the Integrated Technical Co-operation Programme by the IMO Programme Implementation Document TC/1362, Activity 4.

3.2 The United State Coast Guard (USCG) agreed to host the workshop. Participants sponsored by REMPEITC to attend this workshop included members from the following countries: Antigua and Barbuda, Bahamas, Barbados, Belize, Dominica, Grenada, Guyana, Haiti, Jamaica, Saint Kitts and Nevis, Saint Lucia, Saint Vincent and the Grenadines, Suriname and Trinidad and Tobago. The event was attended by 54 people - comprising 26 participants, 25 speakers/experts, and 3 staff members from IMO and RAC/REMPEITC-Caribe. The participant list is included as **Annex 1**.

3.3 The event started with an informal workgroup session intended for the Caribbean delegates in order to:

- Present the outcome of the previous regional workshop and the progress made since that meeting;
- Discuss the result of the questionnaire on PRFs and Waste Management distributed to the participants as a pre-event assignment; and
- Further discuss the feasibility of developing regional arrangements for the provision of PRFs in the Wider Caribbean Region.

Two working groups were set up at the end of this session, one looking at the waste treatment facilities available in the region, and one looking into the demand from ships for port reception facilities. The two groups met again in the afternoon of the last day of the workshop and started to develop a questionnaire which could be used to collect the data needed to assess the feasibility of a regional arrangement.

3.4 This workgroup session was immediately followed by a welcome reception sponsored by Carnival Corporation.

3.5 The following day started with the official opening ceremony with a welcome address made by Capt. James Pruett, Deputy Commander, USCG Miami and was then followed by a series of lectures covering the international regulatory framework, the implementation and enforcement of MARPOL in the United States, examples of best practices in Belgium and Singapore, and a live PRF database/GISIS demonstration.

3.6 The second day focused on port operations and waste management. After various lectures in the morning, the afternoon was dedicated to a site visit to a recycling facility run by Waste Management Corporation to provide the participants with a practical insight into the theory of the presentations that had been held. The delegates were informed about the company's development of new waste solutions and waste to energy options, and the group received in-depth insight into the various processes in the waste recycling facility.

3.7 The third day of the workshop zoomed in on other stakeholders' viewpoints. Starting the day with an overview of various marine environmental protection efforts, the afternoon was dedicated to a panel discussion with the cruise line industry. The industry side presented on the efforts



undertaken onboard the ship, and both sides exchanged their views on restrictions and impediments to the provision of adequate port reception facilities.

3.8 The workshop was facilitated by the USCG host representative, Capt. David Condino, assisted by Ms. Simone Leyers (IMO) and Ms. Anne Reglain (RAC/REMPEITC-Caribe).

3.9 The training course outline is included in **Annex 2**.

3.10 An evaluation form of the event was distributed to the participants. The result are summarized and attached in **Annex 3**.

3.11 The closing ceremony was officiated by Ms. Simone Leyers (IMO), Ms. Amy Parker (USCG) and Ms. Anne Reglain (RAC/REMPEITC-Caribe) who thanked all the delegates for their active participation as well as the speakers and the USCG for this fruitful and successful activity and encouraged the delegates to keep moving forward.

3.12 Each participant received a certificate and a USB stick containing the program, the participant and speaker list, a copy of all the lectures as well as relevant documents mentioned during the workshop.

4. Logistics

4.1 The workshop was held at:

Hyatt Regency Pier Sixty-Six
2301 SE 17th Street Causeway
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Phone: 001-954-728-3535/39
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Website: <http://hyattregencypiersixty-six.com>

4.2 The participants, speakers and organizers stayed at the same hotel mentioned above.

5. Support

5.1 The United State Coast Guard provided excellent support to assemble a wide panel of experts who delivered comprehensive lectures throughout the meeting. Amongst other things, the USCG also identified the hotel and meeting room facilities, negotiated the preferential rate for both, provided the audio/visual equipment, provided name tags and cards, and organized the site visit to the waste management facility including transport. Capt. David Condino's assistance in preparing the workshop and throughout the proceedings was highly appreciated and most helpful.



5.2 The site visit to the recycling facility was facilitated by both the United States Coast Guard and Waste Management Corporation, who provided an introduction lecture on their waste management programme and explained their cooperation with port reception facilities.

5.3 Singapore contributed to this workshop by sending an expert, Mr Zafrul Alam, as in-kind support.

6. Findings

6.1 The last regional meeting in Suriname triggered discussions between the various stakeholders in each country. Countries acknowledge their weaknesses and are looking to move forward. In many cases, countries are trying to have the legal framework approved or they are reviewing it, especially to incorporate the new MARPOL amendments. Most countries are also looking at the possibility of accepting more types of waste. Some of the initiatives are the following: Dominica, Grenada, Suriname are approaching companies to deal with oily waste from ships, Antigua & Barbuda is financially supporting a recycling plant, Barbados is looking at expending the PRFs, St Vincent & the Grenadines and Jamaica are looking at installing incinerators, St Kitts & Nevis is looking at waste to energy options etc., Dominica and Barbados are looking at reviewing the ship generated waste disposal fee system. Haiti is in the process of ratifying the MARPOL Convention.

6.2 The pre-event assignment questionnaire was given to the delegates in order to gather data about PRFs and waste management in the respective countries. Some countries provided detailed information while others seemed to have spent less time on its completion. The information gathered was sometimes incomplete or conflicting. For instance, the information on GISIS did not match the response to the questionnaire or some information was conflicting with the information collected during the previous workshop. The lack of data is a major impediment to further study the feasibility of setting up regional arrangements. Countries' contribution and commitment to provide reliable data is essential.

6.3 Most countries require 24h to 48h advance notification through the use of an advance notification form. However, all countries use a very different form with a different wording for the waste categories. Therefore, discussions took place regarding the standardization of the advance notification form using the IMO template (MEPC.1/Circ.644/Rev.1). Some participants indicated that they were not aware of it, and therefore the form was distributed electronically to everyone. Participants agreed on the benefit of such standardization. Indeed, in addition to being more user-friendly, the use of standardized wording for the waste categories will also prevent any confusion that could be prejudicial to the country.

6.4 In the region, only a few countries accept oily waste and very few accept sewage. Regarding MARPOL Annex V, most countries accept garbage but have many restrictions. The most common restrictions are related to: organic material and biomedical waste as well as batteries and fluorescent tubes. The lack of availability of PRFs is directly linked to the incapacity of the islands to treat the waste in an environmentally sound and sustainable manner. There are very few waste treatment facilities available in the region. The majority of the countries have open dumps while some have sanitary landfills. Few islands are equipped with incinerators, waste recycling plants or cooking oil recycling plants. Islands that recycle oily waste use it as a source for energy to fire the boilers of a rum distillery, the furnaces of a plant or as a road surfacing material.



6.5 The price system for ship-generated waste disposal varies widely within the region. Some countries apply the price per weight, others per volume and some per container such as truckload or bin. Some countries charge the price for waste disposal separately from waste treatment and in some cases they add a fee per transaction. Countries that use a price per volume mentioned that they are facing difficulties with vessels that compact their waste as it ends up being disadvantageous for the reception facility.

6.6 The information available on GISIS regarding the availability of PRFs is in most cases outdated and incomplete. Countries were strongly encouraged to remediate to this issue, and right after the workshop the IMO Secretariat received various requests for GISIS access information because the initial holder of the IMO Administrator account had already left the administration.

6.7 The questionnaire and its results are presented in **Annex 4**.

6.8 In order to overcome the issue of data availability, participants were divided into two groups. One group started to develop a questionnaire to evaluate how much and which type of ship generated waste needs to be handled at the national level whereas the other group worked on a questionnaire to assess the waste management facilities available/likely to be available in each country. Speakers were also invited to join the working groups. At the end of the workshop, each group agreed to keep working on the development of the questionnaire and eventually use them to gather the data necessary to assess the feasibility of a regional arrangement.

6.9 It was clear that the lack of availability of PRFs is directly linked to the incapacity of the island to deal with their land-generated waste. Drawing a conclusion, islands need to tackle the general issue of waste management and involve all the stakeholders, including the maritime administrations and industry.

6.10 Concerns from the cruise lines and US representatives were raised regarding the reporting of alleged inadequacies of PRFs. Some vessels fear to report inadequacies in ports they frequently visit. In some case, it was indicated that they actually reported an inadequacy to their flag State, but that it was subsequently not filed though by the flag State. This event enabled the cruise industry to dialogue and co-operate directly with the delegates regarding the issue of PRFs. The cruise lines offered to share some of the data they collect themselves.

6.11 Participants gained a better understanding of ship-generated waste management through various examples such as the port of Singapore, Rotterdam, Antwerp and the United States. It was shown how waste can indeed be seen as a resource and generates money. The examples of the cruise lines that are selling some of their waste instead of paying for its disposal and the waste to energy setting of the recycling facility were quite persuasive. Participants also took note of the requirements under the Basel Convention on the Control of Transboundary Movements of Hazardous Wastes and Their Disposal.

6.12 The workshop generated a lot of questions which could not always be answered in the plenary session due to the lack of time. Delegates also indicated that a visit to a port and a cruise ship would have been enriching to witness the waste management practices.

6.13 Delegates showed a strong interest for information regarding port State control regarding MARPOL. Representatives from the United States Coast Guard were able to share their experience to the group.



6.14 This workshop was also a very good networking opportunity and participants had the opportunity to initiate future collaboration with the organization/industry represented at this event. However, it was unfortunate that representatives from the commercial/cargo and tanker lines were not able to attend to this event.

7. Recommendations

7.1 Continue to follow-up with the countries to track the progress of data input into the GISIS database and regarding the adequacy of their reception facilities as well as the standardization of the advance notification form.

7.2 Follow-up with the working groups regarding the development of the questionnaires and data gathering.

7.3 Maintain the organization of annual meetings, using REMPEITC as the coordination arm, in order to encourage regional cooperation, to continue the discussion regarding regional arrangements for PRFs and to disseminate information, including on amendments to MARPOL.

7.4 Continue to foster the cooperation between shipping industry and the maritime administrations.

7.5 Provide additional information regarding waste treatment technologies suitable for the Caribbean region.

7.6 Engage in discussions with the Secretariat of the Basel Convention regarding the transboundary movement of waste, in particular with regard to the implications of the prior informed consent requirement under the Basel Convention for regional arrangements.

7.7 Seek potential areas of cooperation with the various organizations represented at the workshop as well as other regional organizations involved in the issue of waste management.

7.8 Present the findings of the activity to the next steering committee of RAC/REMPEITC and assess the aspiration of the region to further look into the feasibility of regional arrangements for PRFs.



Annex 1 – Participant list

Annex 2 – Agenda

Annex 3 – Results of the workshop evaluation

Annex 4 – Summary of the questionnaire

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Annex 2: Agenda

Caribbean Delegate Workgroup Session – Monday, 22 July 2013

- 15h00 – 15h05 Delegate registration
- 15h05 – 15h30 RAC/REMPEITC-Caribe: Introduction and presentation of the outcomes of the previous regional workshop
- 15h30 – 15h45 IMO: “A program of assistance on port reception facilities - how we arrived here”
- 15h45 – 16h30 RAC/REMPEITC-Caribe: Presentation and validation of the data gathered through the questionnaire
- 16h30 - 18h00 Group discussion about regional arrangements on PRFs under MARPOL

Seminar Welcome Reception – Monday, 22 July 2013

- 18h00 – 20h00: **Welcome reception** – Hosted by Carnival Corporation - Informal introductions of officials to assembled delegates and speakers (by David Condino) and brief welcome remarks by Program Officials, Port Officials and Carnival if they wish.
- (Hyatt/Pier 66, Ft. Lauderdale – hotel and meeting room arranged with the assistance of Carnival Corporation)

Seminar Day 1 – Tuesday, 23 July 2013

- 7h30 – 8h45: Breakfast (Buffet at the conference center) and Seminar registration (distribution of Seminar program materials)
- 8h45 – 9h15: **Opening the program** (David Condino): Welcome to delegations and experts/presenters and introduce welcome address speaker (10 min)
- CAPT James Pruett, Deputy Commander, USCG Miami*, welcome address (20 min) to give welcome address to the program delegates and expert presenters (20 min)
- 9h15 – 9h45: **Keynote Address: “Intergovernmental shipping affairs in the Caribbean Region”**: Regional coordination for national port authorities and meeting the challenges for shipping interests in the Caribbean region.
- Jorge Duran, Officer in Charge, Inter-American Committee on Ports (CIP), Organization of American States*
- 9h45 - 10h15: **International regulatory framework**: MARPOL requirements for PRFs at all ports; impacts of revised MARPOL Annex IV, V, and new Annex VI regulations.
- Simone Leyers, IMO*

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- 10h15 – 10h45 **Presentation and group discussion-Q&A session:** regional arrangements and the outcome of the workgroup session (Delegates and presenters).
Anne Reglain, RAC/REMPEITC, Moderator
- 10h45 – 11h00: **coffee/tea/networking** (All presenters to be available for Q&A/Networking)
- 11h00 – 11h30: **Environmental sound management of wastes coming from ships according to the BASEL Convention on transboundary shipment of waste.**
Marylene Beau, Secretariat of the Basel Convention
- 11h30 – 12h00: **Implementation of MARPOL in the US and International guidance and best practices:** IMO Member State responsibilities for management of ship's waste on board and at port reception facilities, The role of maritime authorities in implementing IMO regulations, and developing and using ISO International Standards; adequacy of PRFs and Flag and Port State enforcement.
Jeffrey Morgan, Division Chief, Facility Compliance, HQ, United States Coast Guard
- 12h00 – 13h00: **Lunch in hotel** (on the conference center veranda overlooking the marina)
- 13h00 **Seminar Group Photo** (All attendees)
- 13h15 – 13h45: **European perspective:** OVAM, EU Directive 2000/59/EC, managing wastes from ships at European ports/terminals - an overview.
Gudrun Janssens, Public Waste Agency of Flanders (OVAM)
- 13h45 – 14h30: **Quarantine wastes from ships: (USDA-APHIS) and Enforcement (CBP)**
Jose Ceballos, USDA-APHIS; Donka Weaver and San Williams DHS-CBP
- 14h30 – 15h00: **Ship's waste management and Port Reception Facilities:** Ship Waste Agency: e-services for marine waste management by Sylvain Perrier, SWANET (Note: This presentation made available electronically only)
- 15h00 – 15h30: **MARPOL implementation at U.S. ports:** Local MARPOL enforcement and compliance for ships operating in US waters and at US ports and terminals; MARPOL compliance, oil, cargo and garbage record books, Certificate of Adequacy program, MARPOL facility inspections.
CDR Janet Espino-Young, USCG Sector Miami Prevention Dept.
- 15h30 – 15h45: **coffee/tea/networking** (presenters to be available for Q&A)
- 15h45 – 16h15: **Cargo residues under MARPOL:** when are discharges to the ocean permitted, when are reception facilities required - needed



*Zafrul Alam, Assistant Director (Shipping Regulations & Development),
Maritime and Port Authority of Singapore (MPA)*

16h15 – 16h30 **Live Demo on interactive IMO GISIS PRF-module:** Tools for international shipping.

David Condino, USCG

16h30 – 17h00: **Discussion with speaker panel and general Q&A to summarize Day 1 proceedings**

All participants

17h00 **End of Day 1**

Day 2 – Wednesday, 24 July 2013

8h00 – 9h00: Breakfast (Buffet at the conference center)

9h00 – 9h30: **Short Film: Any Waste Any Time, Waste Management at the Port of Rotterdam**, Ship waste collection business model in use at the Port of Rotterdam, one of the largest ports in the world.

Courtesy of Port of Rotterdam, Netherlands, Copyright 2010

9h30 – 10h00: **Port operations and waste management, collection, transport, disposal at ports:** PRFs in port of Ft Lauderdale, contract waste haulers, local, state and federal environmental regulations and permitting, downstream treatment technologies

Mike Pontrelli, Waste Management Corporation

10h00 – 10h15: **coffee/tea/networking** (presenters to be available for Q&A)

10h15 – 10h45: **Cargo ships and cargo associated wastes:** Hazardous to the marine environment (HME) solid bulk cargo residues, tank washings, and the need for reception facilities.

Amy Parker, ChE, (CIV) USCG

10h45 – 11h45: **Port of Singapore: receiving and managing MARPOL wastes in the busiest port of the world**

*Zafrul Alam, Assistant Director (Shipping Regulations & Development),
Maritime and Port Authority of Singapore (MPA)*

11h45 – 12h45: **Lunch in hotel** (on the conference center veranda overlooking the marina)

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12h45 – 13h00: Briefing on visit to Waste Management Corp's state of the art recycling facility that services reception facilities for collecting and disposing shipboard waste.

Mike Pontrelli, Waste Management Corporation

13h00 – 16h00 **Site visit: Waste Management Corporation, State of the art recycling facility.**
(Note: Coach to the facility will board promptly at 13h00 and will leave by 13h15, and return to the hotel between 16h00 and 17h00, depending on traffic)

Mike Pontrelli, Waste Management Corporation

17h00 **End of Day 2**

Day 3 – Thursday, 25 July 2013

8h00 – 9h00: Breakfast (Buffet at the conference center)

09h00 – 10h00 **International Industry Associations and Marine environmental protection efforts: Panel and Discussion**

North American Marine Environmental Protection Association: Outreach and education materials for ship's crews on MARPOL compliance. (30 Min),
Carleen Lyden-Kluss, Executive Director, NAMEPA

World Ocean Council Sustainable Ocean Summit: Work Group on Port Reception Facilities and Cargo Wastes. (30 min), *Ginger Garte, Lloyds USA*

10h00 – 10h15: **coffee/tea/networking** (presenters to be available for Q&A)

10h15 – 11h30: **Industry perspective: Cruise ships – special considerations:**

USCG Cruise Ship Center of Expertise: Port Everglades, FL, Regulatory perspectives and on board waste stream management. (30 min), *CDR Brad Clare, USCG, Cruise Ship NCOE*

Cruise Lines International Association Panel: Cruise ships, environmental challenges, port calls, and regional arrangements for waste management. (45 min – 3 presentations) *Charlotte Breide, CLIA, Moderator; Paul D'Annunzio/Nick Rose, Royal Caribbean Cruise Lines; Eric Wolff, Norwegian Cruise Lines; Emilio Tombolesi, Carnival Corporation*

11h30 – 12h30: **Interactive discussion and Q&A with expert panel** (Delegates to submit questions for speakers/experts who may give 5 min presentation/answer followed by 5 min discussion each); suggested topics:

12h30 – 13h30: **Lunch in hotel** (on the conference center veranda overlooking the marina)



13h30 – 14h15: **Regional arrangements for port reception facilities under MARPOL – recommendations and next steps**

Anne Reglain, RAC/REMPEITC-Caribe

14h15 – 14h45: **Closing remarks, next steps for the region, additional comments/questions relating to PRFs in the Caribbean Region** (Moderator and All)

14h45 – 15h00 **Closing of program with certificate presentation**

Ms Carla Bikker, RAC/REMPEITC-Caribe

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Annex 3 – Results of the workshop evaluation

A Arrangements prior to the activity		Yes	No	N/A	No answer
1	Was the invitation received in good time?	100 %	0 %	0 %	0 %
2	Did you receive the information listed below about the event before your participation?				
	• on its objective and scope	100 %	0 %	0 %	0 %
	• subject areas and programme	100 %	0 %	0 %	0 %
3	Were the instructions on the following clear and easy to understand?				
	• profile required of participant	97,3 %	0 %	0 %	2,7 %
	• Completion and submission of the nomination form	94,6 %	0 %	2,7 %	2,7 %
4	Did you receive logistical information on:				
	• venue	100 %	0 %	0 %	0 %
	• travel arrangements	94,6 %	0 %	5,4 %	0 %
	• DSA payments	89,2 %	0 %	10,8 %	0 %
	• accommodation	94,6 %	0 %	5,4 %	0 %
5	If you were you given any pre-event assignment, was it useful?	83,8 %	0 %	16,2 %	0 %

B During the activity		Too long	Just right	Too short	No answer	
6	To cover fully the topic, was the event	5,4 %	81,1 %	10,8 %	2,7 %	
7	How do you rate the event as regard to the following	Excellent	Good	Satisfactory	Poor	No answer
	• Venue	46 %	46 %	8 %	0 %	0 %
	• Facilities	27 %	59,5 %	13,5 %	0 %	0 %
	• Equipment	21,6 %	62,2 %	16,2 %	0 %	0 %
8	How do you rate the following aspects of the materials?	Excellent	Good	Satisfactory	Poor	No answer
	• Presentation	48,6 %	46 %	5,4 %	0 %	0 %
	• Clarity	40,6 %	43,2 %	16,2 %	0 %	0 %

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		Excellent	Good	Satisfactory	Poor	No answer	
	• Technical content	32,4 %	62,2 %	5,4 %	0 %	0 %	
	• Comprehensiveness	46 %	37,8 %	16,2 %	0 %	0 %	
	• Quantity	37,8 %	51,4 %	10,8 %	0%	0%	
9	How would you rate the following aspects of the presentations?	Excellent	Good	Satisfactory	Poor	No answer	
	• Design and structure	32,4 %	54,1 %	10,8 %	0 %	2,7 %	
	• Clarity	32,4 %	56,8 %	8,1 %	0 %	2,7 %	
	• Technical content	35,1 %	56,8 %	5,4 %	0 %	2,7 %	
	• Comprehensiveness	35,1 %	46 %	13,5 %	0 %	5,4 %	
10	How would you rate the use of the following?	Excellent	Good	Satisfactory	Poor	N/A	No answer
	• Course materials	29,7 %	56,8 %	8,1 %	0 %	0 %	5,4 %
	• IMO references materials	35,1 %	46 %	10,8 %	0 %	2,7 %	5,4 %
	• Other resource materials	21,6 %	64,9 %	5,4 %	0 %	2,7 %	5,4 %
	• Group and practical activities	10,8 %	51,4 %	18,9 %	0 %	10,8 %	8,1 %
	• Field trips	51,4 %	37,8 %	5,4 %	0 %	0 %	5,4 %

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At the end of the activity

- 11 What topics were of most interest and relevance to you?
1. Intergovernmental shipping affairs in the Caribbean Region.
 2. Waste management & recycling.
 3. All in general with highlights on NAMEPA, APHIS/CBP, field trip at the recycling facility.
 4. USCG cruise ship center of expertise.
 5. The topic of regional arrangements for port reception under MARPOL.
 6. Intergovernmental shipping affairs in the Caribbean Region –CIP, OAS.
 7. All topics were very important.
 8. All topics especially those relating to cruise ship operation.
 9. USDA/CBP, MARPOL international waste program, diversion programs, USCG requirements/exams, CLIA/cruise line panel.
 10. Learning of the various Annexes and what they represent, information from the cruise industry.
 11. Industry perspective on waste reception facilities and programs for recycling ship generated waste.
 12. MARPOL requirements for PRFs at all ports, impacts of revised MARPOL Annex IV,V and new Annex VI, Regulations by S. Leyers (IMO) as well as cruise line presentation.
 13. Field trip and point of view from the private sector association.
 14. Open sessions/networking, World Ocean Council members should be brought in to discuss BMP, successes.
 15. GISIS & MARPOL references.
 16. GISIS, Environment regulatory & waste databases.
 17. How MARPOL is done in EU.
 18. Cargo ships and cargo associated wastes, Caribbean delegate workgroup session, international regulatory framework, site visit to waste management.
 19. International regulatory framework, ships waste management and PRFs.
 20. European perspective, managing waste from ships at European ports.
 21. All topics were relevant.
 22. MARPOL amendments, Basel Convention, Cargo residues, environmental protection efforts.
 23. The processing of solid waste at the waste management plant.
 24. European perspective, Norwegian Cruise presentation, international regulatory framework, RCCL, port of Singapore: should have used more examples like this one in the presentations (eg. From other ports).
 25. Updates on the convention and technical developments in waste handling.
 26. Compliance, enforcement, training and the possible ways of recycling.
 27. National requirements or MARPOL.
 28. Port reception facilities, waste handling technologies, recycling technologies.
 19. Implications and implementation
 20. MARPOL implementation at US ports, port operations and waste management, industry perspective, cruise ships.

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		Yes	No	N/A	No answer
12	Are there any topics which should be added? If yes, please list them	40,5 %	54,1 %	2,7 %	2,7 %
			<ol style="list-style-type: none"> 1. Visit to a ship to see how they manage waste and discharge ashore. 2. Technical assistance available to small island state. 3. Field trip: waste to energy. 4. Perspective of ship building companies in designing ships to help meet MARPOL requirements. 5. Further opportunities on developing projects in the Caribbean regarding dissemination of MARPOL information. 6. Procedures and requirement for ports which are not party to the convention but accept ships of the convention size. 7. Would like to have heard from the commercial or tanker lines. 8. More information from commercial shipping. 9. Story of stuff by Anne Lenard – Garbology by Edward Humer – invite him to speak. 10. Assessment of Caribbean terrestrial waste management, how far have we come? 11. Showing how the best/successful practices of the developed countries can be directly applied to Caribbean island where the conditions are quite different. 12. Port operations and waste management collection, transport disposal in ports. Cargo residues under MARPOL. 13. Challenges & constraints in implementation of PRF from a practical perspective. 14. Greater details on types of waste reception facilities. 15. Prosecution of environmental claims. 		
		Yes	No		No answer
13	Do you consider that the objective of the event was met?	91,9 %	0 %		8,1 %
	Are you likely to use the information you gained on the course when you return to your work?	94,6 %	2,7 %		2,7 %
	Will you have the opportunity to transfer the knowledge gained to your colleagues at work?	97,3 %	0 %		2,7 %
14	Comments		<ol style="list-style-type: none"> 1. The program was generally well throughout. Provisions should be made for the questions to be asked immediately after each presentation. Some delegates forgot their question at the later time. 2. The course was very productive and should be done more often as there are so much information out that is not carried out. 3. This is an outstanding seminar with a wealth of information for how to reduce waste impact on the environment. Suggestion: recommend a follow up workshop to allow for dissemination on identified common needs and agreement on collaborative/international efforts to tackle these challenges. 		

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4. Q&A session should have been allowed more frequently during or right after presentations. Because questions were left until after all presentations were done, some questions were lost in the process.
5. The emphasis for the region should be on “regional arrangements”. The Caribbean have to understand that they should invest together in order to be able to get the region compliance.
6. Follow up sub-committees should be set up in the Caribbean region to have items discussed effected. Further analysis has to be done in the Caribbean region with respect to existing PRFs and the present demand and need of PRFs. Industrial shipping not adequately monitored in the Caribbean due to lack of training, education programmes and general knowledge of MARPOL. Domestic legislation in the Caribbean is weak.
7. The seminar was very interesting and effective as I was able to acquire the knowledge & understanding of the requirements of MARPOL V.
8. The course was valuable for increased sensitization.
9. Well organized seminar with a good cross section of experts.
10. Very well organized!
11. Would like to thank the organizers for a well planned conference/seminar.
12. Great opportunity to work with intimate group that is looking to regulations, technical leaders and BMP to emulate where feasible.
13. Please email us the list with all participant names, titles and country they represent.
14. Well the event was called a workshop but it was really a seminar. There was not a good balance between presentations and group sessions. Participants “learning” could have been better tested in group session.
15. Site visit should be at a port or on board a cruise ship to enable participants to get firsthand knowledge on the purpose of the workshop. Most of the presenters strayed away from the purpose of the workshop.
16. Very productive and though provoking seminar. Overall it was a very informative and successful seminar.
17. The Q&A session was often cut short because of time constraints. This restricted the sharing of knowledge. There was not enough effort to highlight how many of tools and practices mentioned may be applied to the conditions of the smaller Caribbean islands where economies of scale is a great factor that presents challenges in dealing with the issues affecting us.
18. A lot more attention should be paid to practical cases. Some of the presenters did not show enthusiasm in their presentations. The knowledge gained was good but the enthusiasm for action oriented follow-up seems to be missing. However, I left with a greater appreciation for the significance of the topics addressed. There are still unanswered questions about demand/feasibility of implementation. Event was too long, sessions should stop at 4.pm.
19. It would have been good to visit waste reception facilities especially annex I.
20. More awareness workshop like this one. Be able to compare the systems illustrated from a EU perspective as well as tours of PRFs in ports eg. Rotterdam/Antwerp.
21. The breakfast & lunch offered to the participants was wanting and needs improvement. We were not given any flexibility in dietary consumption. The room service cleaning was not in conformity with high standards expected from Hyatt. The facilitation to and from the airport was excellent. Good job Carla!
22. The maritime association and MARPOL are also directly responsible for environmental issues pertaining disposal

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of waste from ships and the adequacy of PRFs at port to receive such waste to be disposed of adequately. Environmental agencies participated in the last 2 workshops and only participated in discussions pertaining to PRFs. However, there is need for further training in the handling and treatment of such wastes after they are recovered from the PRFs by the local companies. Efforts should be made to conduct a workshop to inform on technologies on waste handling and management technologies.

23. In addition to the conference materials much work was accomplished to further efforts – Houston event planned for CG, USDA, CBP to explain MRPOL V, interaction with OAS, dissemination of materials educating Caribbean nations.

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Annex 4 – Summary of the questionnaire

QUESTIONNAIRE

Waste collection

Do you require vessels advance notification? If so, what is the format being used? (Please attach a copy of the form being used if that is the case)

Are there any restrictions on receipt or collection of waste? (Please detail for each type of waste)

Is the collected waste segregated?

What is the average price for the disposal of waste? (Please detail for each type of waste)

Do the dockage fees include some of the cost for waste disposal? (If so, please detail)

Waste treatment

Which ministry is in charge of inland waste management?

Which type of waste treatment facilities is available in your country? For each facility please indicate the address, the type of waste being treated, the treatment capacity and the average quantities being currently processed.

Once the waste has been collected at the port, either by a private or a public entity, how is it treated? (Please detail for each type of waste)

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Data collection and sharing of information

Who is the person in charge of populating data about port reception facilities on GISIS? (Please indicate the name, position, Ministry/Department and contact information)

Do you have a data collection system in place in order to assess the quantity and type of waste being received? If so, please give further details.

SUMMARY OF THE RESULTS

1. Advance notification form

	Antigua & Barbuda	Barbados	Belize	Dominica	Grenada	Guyana	Haiti	Jamaica	St Kitts & Nevis	St Lucia	St Vincent & the Grenadines	Suriname	Trinidad & Tobago
Advance notification	48 h	24 h	N/A	24 h	No	No	N/A	24 h	48 h	24 h (?)	24 h	24 h	24 h
Advance notification form				?									



2. Category of waste collected

	Antigua & Barbuda	Barbados	Belize	Dominica	Grenada	Guyana	Haiti	Jamaica	St Kitts & Nevis	St Lucia	St Vincent & the Grenadines	Suriname	Trinidad & Tobago
<u>Annex I</u>													
	water content <10%									?	?		
<u>Annex IV</u>													
										?	?		
<u>Annex V</u>													
A. Plastics													
B. Food waste					?								
<i>Paper products</i>													
<i>Glass</i>													
<i>Metal, aluminum cans</i>													
<i>Pharmaceutical waste</i>				?				?	?		?	?	
<i>Medical waste</i>				?					?	?	?	?	
<i>Plants/soil</i>				?				?				?	
<i>Wood</i>				?	?			<i>Unfumigated wooden pallets</i>		?	?	?	
<i>Batteries</i>				?				?	?	?	?	?	
<i>Fluorescent tubes</i>				?				?	?	?	?	?	

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	Antigua & Barbuda	Barbados	Belize	Dominica	Grenada	Guyana	Haiti	Jamaica	St Kitts & Nevis	St Lucia	St Vincent & the Grenadines	Suriname	Trinidad & Tobago
D. Cooking oil				?								?	
E. Incinerator ashes													
F. Operational wastes				?								?	
G. Cargo residues				?									
H. Animal carcass(es)				?								?	
I. Fishing gear				?								?	

3. GISIS and Data collection

	Antigua & Barbuda	Barbados	Belize	Dominica	Grenada	Guyana	Haiti	Jamaica	St Kitts & Nevis	St Lucia	St Vincent & The Grenadines	Suriname	Trinidad & Tobago
No information			N/A		x	x	N/A						
Ports only				x				x					x
Partially completed	x	x								x			
Completed									x		x	x	
Data collection	-	x	N/A	x	-	-	N/A	x	x	x	x	?	x

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