



INFORMATION GUIDE ON THE MANAGEMENT (COLLECTION, TRANSPORTATION, RECYCLING & RECOVERY, DISPOSAL) OF SHIP GENERATED WASTE & CARGO RESIDUES IN THE PORT OF RAVENNA

GENERAL PRINCIPLES OF ENVIRONMENTAL PROTECTION

The reduction of the pollution of the sea and the protection of the marine environment are objectives pursued at an international level.

These are the objectives that international protocols and conventions but also national laws, intend to reach promoting the reduction of waste discharges generated by ships at sea and cargo residues thanks to also a wider availability and greater use of port reception facilities.

The recovery and disposal of ship generated waste and cargo residues must be carried out without constituting a human health risk and without the use of any procedures or methods that could prejudice the environment and, in particular:

- without causing any risk to the water, air, soil and the flora and fauna;
- without causing any inconveniences as a result of noise and odours;
- without damaging the landscape and the protected zones of particular interest.

Waste management conforms to the principles of responsibility and co-operation of all the subjects involved in the generation, distribution, use and consumption of goods where waste derives from, and within the principles of national, European and international ordinances.

WASTE MANAGEMENT GENERATED BY SHIPS AND CARGO RESIDUES IN THE PORT OF RAVENNA

Types of ships legally obliged to deliver ship generated waste:

- Commercial Vessels
- Ro/Ro Vessels
- Passenger Vessels
- Vessels operating in the port (port maintenance, provision services, supply vessels, etc.)
- Technical-Nautical Service Vessels (pilotage, mooring, towage)
- Leisure Crafts
- Fishing Boats
- Military Vessels
- All other types not specified above

The classification of waste usually generated by vessels:

Waste generated by ships to be advised under subsequent amendments and additions of legislative decree 182/03	Classification according to MARPOL 73/78	Classification according to subsequent amendments and additions of legislative decree 152/06	to and of decree
Oily waste Bilge-water Sludge Oily water from tanks washing (slop) Dirty ballast water Other Cargo Residues	Annex I – Oil	RSP RSP RSP RSP RSP RSP	
Noxious liquid substances (m3/name) Substances of category x Substances of category y Substances of category Z Other Substances Cargo Residues (coming from tanks washing)	Annex II – Noxious liquid substances	RSP RSP RSP RSP RSP	
Sewage Sewage	Annex IV – Sewage		
Solid waste Food waste Food waste according to Ministerial decree 22/05/01 Plastic Cargo Associated Waste (restraint equipment and cargo cover, packaging materials, ecc.) Paper products milled, rags, glass, metal, bottles, dishes ecc. Incineration ash Other Cargo Residues	Annex V – Garbage	RU RSP RUA RS RUA RUA-RS RUA-RS-RSP RUA-RS-RSP	
Waste harmful to the atmosphere Ozone – depleting substances and equipment containing such Substances Residues of exhaust gas cleaning	Allegato VI – Air Pollution	RS-RSP RSP	

NOTIFICATION

Ships which are obliged to deliver ship generated waste must notify.

With the exception of:

- fishing boats sanctioned for up to twelve passengers,
- leisure crafts sanctioned for up to twelve passengers,
- those naval means which carry out the activities of collection and transportation of waste within the ambit and on the account of the port reception facilities or waste collection services,
- the naval means used for the port's technical-nautical services and which don't enter into the port of Ravenna coming from other ports,
- the naval means which operate in the port and don't enter into the port of Ravenna coming from other ports.
- Military vessels, Tab. B - Ministerial decree 19th Mar 2008

As regards leisure crafts sanctioned for over 12 passengers it is the tourist port or sailing club which sees to have delivered to it the "notification" from the vessel's captain and in turn to forward it to the Harbour Master's Office.

WASTE MANAGEMENT PROCEDURES

Fishing boats and leisure crafts

Waste generated from fishing boats is placed, by its producers, in the garbage bins located close to the berthing quays or delivered to the local ecological station, according to type.

Urban solid waste or similar products generated by leisure crafts are deposited by owners into the containers located along the jetties of the tourist landing place. Such containers are in turn emptied by the sailing club or tourist port personnel into special garbage bins of the adjacent ecological station and collected by the company that manages waste in the municipal territory of Ravenna.

Special hazardous waste (bacteria, filters, sanitary waste, bilge-water and oil residues) is delivered by the owners to the special containers located within the ecological station in close proximity to the sailing clubs and tourist ports.

Bilge-water and oil residues are collected from the companies that manage these types of waste at the request of the sailing clubs and tourist ports.

Bacteria, filters and sanitary waste are collected from the company that manages urban solid waste or consortia of waste recovery at the request of the sailing clubs and tourist ports.

All other types of vessels

SOLID WASTE (RU, RUA, SANITARY WASTE, RS,RSP)

- the vessel communicates to the MA the waste to be delivered which in turn forwards the same information to the service provider.
- the service provider runs daily collections according to work schedule on the basis of:
 - vessels present in the port from the previous day and vessels scheduled to arrive by 14.00 of the same day of the drafting of the schedule;
 - of "notifications" received and vessels exempt;
- the service provider goes alongside with equipped vessels and separate containers. Urban unsorted waste including non EU food waste (RAEUE) is transported using containers with red stripe;
- the vessel delivers the waste preferably differentiated and collected in bags.
- The service provider registers the information relating to each effected collection and communicates to the MA and the Port Authority any evident discrepancies between that which has been delivered and that for which notification has been received.
- The service provider immediately delivers urban unsorted waste to sterilization, while other types of waste are delivered and kept for the time necessary to treatment operations and handling in the appropriate equipped platform.
- The vessel or the entrusted agency directly requests to the provider the intervention for the collection of special hazardous and non-hazardous waste, if the latter do not exceed the amount of 1m3, non-specified in the notification.



LIQUID WASTE (RSP)

- The vessel communicates to the MA the waste which is to be delivered which in turn forwards the same information to the service provider;
- The service provider runs daily collections according to work schedule on the basis of:
 - of notifications received and relevant intervention requests of the entrusted agency, and vessels exempt;
 - any obligations to deliver ship-generated waste brought by the MA;
- The service provider registers the information relating to each effected collection and communicates to the MA and the Port Authority any evident discrepancies between that which has been delivered and that for which notification has been received;
- The service provider delivers by the end of the collection run or at the latest by the end of the daily service the liquid waste collected at the recycling and recovery treatment plant or the thermodestruction plant.

Cargo residues and cargo associated residues (RS, RSP)

The vessel's captain or the entrusted agency directly requests the service provider to intervene and collect any cargo residues.

ORDINARY TARIFFS (attachment 1)

WAIVERS

The authorisation given to a vessel to proceed its journey toward the next port of call, without performing the obligation to deliver any ship generated waste, is issued by the MA.

PROCEDURES FOR SIGNALLING INADEQUACIES OF THE RECEPTION FACILITIES

The vessel's captain, that avails of the collection and handling services of waste and cargo residues, may give a written communication to the PA and the MA should any inadequacies be noticed in the way in which the services are being performed.

(attachment 2, IMO card)

THE COLLECTION SERVICE PROVIDERS:

Service Providers	Condition of waste and cargo residues collected
SIMAP S.r.l. Via Antico Squero, 58 48122 Ravenna	Solid
SECOMAR S.p.A. Via Del Marchesato, 35 48023 Marina di Ravenna - RA	Liquid

Service Providers	Operations Manager	Phone Number
SIMAP S.r.l.	Angelo Carella	0544450848
SECOMAR S.p.A.	Francesco Orlando	0544530534

PORT RECEPTION FACILITIES:

Service Providers	Available collection means	Maximum capacity m ³ - *kg
SIMAP S.r.l.	M/b SIMAP UNO	10
	M/b SIMAP DUE	25
	M/b SIMAP TRE con gru	25
	M/b MEFISTO	4
SECOMAR S.p.A.	TRUCK with crane	7400(*)
	TRUCK with crane	2700(*)
	R/re Rec-Oil SECOMAR DUE	50
	M/c SENIO	364
SECOMAR S.p.A.	TRUCK WITH SUCTION HOSE	8100(*)
	TRUCK WITH SUCTION HOSE	30

TREATMENT, RECYCLING & RECOVERY, DISPOSAL FACILITIES AVAILABLE BY SERVICE PROVIDERS:

Service Providers	Available Facilities	Maximum Capacity
SIMAP S.r.l.	Storage facility for special waste and sterilizer of food waste – SIMAP S.r.l. - Ravenna	Sterilization of 3 m ³ /cycle solid waste

	Dumping ground - HERA S.p.A. - Ravenna	-
	Sotris facilities S.p.A. - Ravenna	
	LA CART facilities - Rimini	
	PLACUCCI Alessandro (COBAT) – Gatteo (FC)	
	MONTI Amato - Ravenna	
SECOMAR S.p.A.	Waste storage area – ALBATROS and ECOSPURGH - Ravenna	-
	Storage and treatment facility - AMBIENTE MARE S.p.A. - Ravenna	Storage of 550 m3 and treatment of 75.000 m3 of liquid waste and/or sludge per year
	Depuration plant – HERA S.p.A - Ravenna	

REGULATORY REFERENCES

The main national and international laws governing waste:

- Legislative decree 24th June 2003 no. 182 – Implementation of directive 2000/59/EC governing ship generated waste
- Ministry of Environment Decree 1st July 2009 – Transposition of Directive 2007/71/EC amending Annex II of Directive 2000/59/EC on ship-generated waste
- Ministerial Decree 22nd May 2001 – Handling and destruction of food waste generated on board of transport vessels that effect International routes/voyages
- Legislative Decree 3rd April 2006 no. 152 - Environmental Rules (Part Four - Rules on waste management and reclamation of polluted sites) and subsequent amendments and additions
- Legislative Decree 16th January 2008, no. 4 - Further corrective and supplementary provisions of Legislative decree 3rd April 2006 no. 152
- Decree of the Ministry of Defence 19th March 2008 - Measures necessary for the delivery by military war vessels and auxiliary of waste and cargo residues into the appropriate port facilities
- MARPOL 73/78, International Convention for the prevention of marine pollution caused by ships and for the protocol relating to intervention on the high seas in cases of pollution by substances other than oil, with Annexes, adopted in London the 2nd November 1973, ratified by Law no. 662 on the 29th September 1980

DEFINITIONS

<u>VESSEL</u>	almost any unit, that operates in a marine environment, including hydrofoils, hovercrafts, submersibles, floating blocks/boats/floats as well as fishing boats and leisure crafts as per paragraphs f) and g) (once paragraph a) of article no.2 of Law 182/03
<u>RU</u>	urban waste
<u>RUA</u>	urban assimilable waste
<u>RS</u>	special waste
<u>RSP</u>	special hazardous waste
<u>RAEUE</u>	waste generated by food products for crew supplies, passengers and associated residues disembarked from national or international commercial means of transport, coming from third world countries (non EU) including all such food waste generated on board means of transport whose actual origin is impossible to trace with certainty
<u>RC</u>	Cargo Residues that are the remains of any material that forms part of the cargo carried on board the ship's hold or in tanks and which is left behind following the unloading or cleaning operations, including rinsing waters (slop) and ballast water when these have come into contact with the cargo or its residues; these remains include loading and unloading excesses and spillages (once paragraph d) of article no. 2 of Law 182/03)
<u>RAC</u>	Cargo Associated Waste that are all waste formed during and/or following the ship's loading and unloading operations such as protective covering, various types of packaging, pallets, residues in fumigated products, etc.
<u>NOTIFICATION</u>	duty of vessel's captain, in relation to waste, to conform in accordance with art.6 of legislative decree 182/03. With notification, which the vessel's captain must give to the Maritime Authority before the vessel's arrival at the port, information is also conveyed in relation to generated waste and cargo residues
<u>MA</u>	Maritime Authority
<u>PA</u>	Port Authority

**SOLID WASTE COLLECTION SERVICE**

RSU- RUA

COMMERCIAL, RO/RO AND MILITARY VESSELS TAB. A (DM 19/03/08)

FIXED TARIFF

VARIABLE TARIFF

		Base T1	T1 reduced for exempt vessels and military Tab.A	Base T2	T2 reduced for differentiated waste delivery or "ecological vessels"
gt	gt	€/day	€/day	€/m ³	€/m ³
From 0	To 4.000	20,00	16,00	22,00	17,60
From 4.001	To 10.000	24,00	19,00	22,00	17,60
From 10.001	To 20.000	41,00	33,00	22,00	17,60
From 20.001		57,00	46,00	22,00	17,60

- The fixed tariff is due per daily mooring and includes: waste collection and transportation to the waste plants, sterilization, differentiation, recovery or disposal of **1 m³ of waste**
- The variable tariff is applicable to that waste quantity which is in excess of that included in the fixed tariff, minimum fraction 1 m³
- Any reductions are applicable to the total quantity of collected waste, minimum fraction 1m³
- Waste to be differentiated: glass, paper, wood, plastic
- "Ecological Vessels" are those which already treat waste onboard using thermodestruction plants and/or grinding process

PASSENGER VESSELS

FIXED TARIFF

VARIABLE TARIFF

Base T3	T3 reduced by 30% for exempt vessels	Base T4	T4 reduced by 20% for differentiated waste delivery or "ecological vessels"
€/day	€/day	€/m ³	€/m ³
95,00	66,50	44,00	35,20

- The fixed tariff is due per daily mooring and includes: waste collection and transportation to the waste plants, sterilization, differentiation, recovery or disposal of **2 m³ of waste**
- The variable tariff is applicable to that waste quantity which is in excess of that included in the fixed tariff, minimum fraction 1 m³
- Any reductions are applicable to the total quantity of collected waste, minimum fraction 1m³
- Waste to be differentiated: glass, paper, wood, plastic
- "Ecological Vessels" are those which already treat waste onboard using thermodestruction plants and/or grinding process

REGULAR AND SEASONAL PASSENGER VESSELS WHICH DO NOT DELIVER RSU- RUA

FIXED TARIFF – T11

€/day _____
6 _____

- The tariff is daily and not based on the vessel's daily number of calls

VESSELS OPERATING IN THE PORT

FIXED TARIFF

VARIABLE TARIFF

		Base T5	Base T6	T6 reduced by 20% for differentiated waste delivery or "ecological vessels"
gt	gt	€/day	€/m ³	€/m ³
From 0	To 4.000	16,00	18,00	14,40
From 4.001	To 10.000	20,00	18,00	14,40
From 10.001	To 20.000	37,00	18,00	14,40
From 20.001		53,00	18,00	14,40

**AUTORITA' PORTUALE DI RAVENNA**

- The fixed tariff is applicable to those services carried out on request and includes: waste collection and transportation to the waste plants, sterilization, differentiation, recovery or disposal of 1 m³ of waste
- The variable tariff is applicable to that waste quantity which is in excess of that included in the fixed tariff, minimum fraction 1 m³
- Any reductions are applicable to the total quantity of collected waste, minimum fraction 1m³
- Waste to be differentiated: glass, paper, wood, plastic
- "Ecological Vessels" are those which already treat waste onboard using thermodestruction plants and/or grinding process

TECHNICAL-NAUTICAL SERVICE AND MILITARY VESSELS TAB. B (DM 19/03/08)

FIXED TARIFF

VARIABLE TARIFF

		Base T7	Base T8	T8 reduced by 20% for differentiated waste delivery or "ecological vessels"
gt	gt	€/day	€/m ³	€/m ³
From 0	To 4.000	13,00	18,00	12,80
From 4.001	To 10.000	16,00	18,00	12,80
From 10.001	To 20.000	30,00	18,00	12,80
From 20.001		42,00	18,00	12,80

- The fixed tariff is applicable to those services carried out on request and includes: waste collection and transportation to the waste plants, sterilization, differentiation, recovery or disposal of 1 m³ of waste
- The variable tariff is applicable to that waste quantity which is in excess of that included in the fixed tariff, minimum fraction 1 m³
- Any reductions are applicable to the total quantity of collected waste, minimum fraction 1m³
- Waste to be differentiated: glass, paper, wood, plastic
- "Ecological Vessels" are those which already treat waste onboard using thermodestruction plants and/or grinding process

SPECIAL NON-HAZARDOUS WASTE**COMMERCIAL, RO/RO AND PASSENGER VESSELS**

FIXED TARIFF – T12

€/day
39,00

- The fixed tariff is due for any call at port and includes: waste collection in a single solution, transportation to the waste plants and recovery or disposal of 1 m³ of waste
- The waste collection service for quantities that exceed 1 m³, is carried out on request with tariff T9

MILITARY VESSELS

TARIFF T9

The tariff is applicable to those services carried out on request

OTHER TARIFFS

Tariffs valid for all types of vessels

TARIFF T9	TARIFF T10	TARIFF T13
Special waste (including cargo residues and cargo associated waste)	Sanitary waste	Special <u>hazardous</u> waste (including cargo residues and cargo associated waste)
€/m ³	€/m ³	€/m ³
75,00	329,00	150,00

- The service is carried out on request
- Transportation and personnel costs are added to the tariff according to the amount involved

Operator	Truck with crane and driver	Nautical vessel enabled to transport hazardous general cargo with crew	Laboratory Analysis	Package of 50 waste sacks	Thermodestruction of food waste (ex Ministerial Decree 22/05/01) in carton containers of 200 litres
€/hour	€/hour	€/hour	€	€	€/m ³
33,00	77,00	219,00	329,00	16,00	110,00

**LIQUID WASTE COLLECTION SERVICE (RS, RSP)****BILGE WATER****COMMERCIAL, RO/RO AND PASSENGER VESSELS**

FIXED TARIFF – T1

Tariff for exempt vessels		
gt	gt	€
From 0	To 3.000	64,68
From 3.001	To 10.000	87,56
From 10.001		141,29

- The fixed tariff is due prior to the exempt vessel leaving the port
- The fixed tariff is not applicable when the vessel delivers cargo residues

FIXED TARIFF – T2

VARIABLE TARIFF – T3

	€	€/m ³
Collected waste up to 8,5 m ³ in 2,5 hours at the most	472,63	41,79
Collected waste over 8,5 m ³ in 3 hours at the most	846,75	41,79

- The fixed tariff is applicable once the service is carried out.
- The variable tariff is applicable on the basis of the amount of waste collected

FREQUENT VESSELS (THOSE THAT CALL AT LEAST 24 TIMES PER YEAR)

FIXED TARIFF – T9

N° of bilge water deliveries/year	€
0	T1*1,00
1	T1*0,83
2	T1*0,67
3	T1*0,50
4	T1*0,34
5	T1*0,17
From 6th onwards	T1*0,00

- The fixed tariff is due prior to the exempt vessel leaving the port and varies by function of the number of bilge water deliveries realised during the year
- The maximum discount obtained by the vessel in one year is applicable for every exempt call effected by it during the year.
- The fixed tariff is not applicable when the vessel delivers cargo residues

REGULAR AND SEASONAL PASSENGER VESSELS WHICH DON'T DELIVER ANY BILGE-WATER

FIXED TARIFF – T10

€
5,97

- The tariff is valid throughout the day in the case of two or more vessel calls in one day



VESSELS OPERATING IN THE PORT

FIXED TARIFF – T4

VARIABLE TARIFF – T5

	€	€/m ³
Waste collected up to 8,5 m ³ in 2,5 hrs at the most	472,63	41,79
Waste collected over 8,5 m ³ in 3 hrs at the most	846,75	41,79

- The fixed tariff is applicable once the service is carried out on request
- The variable tariff is applicable on the basis of the amount of waste collected

TECHNICAL-NAUTICAL SERVICE AND MILITARY VESSELS

FIXED TARIFF – T6

VARIABLE TARIFF – T7

	€	€/m ³
Waste collected up to 8,5 m ³ in 2,5 hrs at the most	378,10	40,80
Waste collected over 8,5 m ³ in 3 hrs at the most	677,60	40,80

- The fixed tariff is applicable once the service is carried out on request
- The variable tariff is applicable on the basis of the amount of waste collected

Tariffs applicable for all types of vessels

Tariff T8 for over 2,5/3 hours €/hour 217,91

RINSING WATERS, SLOP, BALLAST WATER, CARGO RESIDUES

Tariff applicable on the basis of the amount involved

OTHER TARIFFS

Operator	Tank Truck/Tanker with Suction Hose	Nautical Means (Barge)	Minor Naval Means	Laboratory Analysis (12 parameters at the most)	Disposal of Rinsing Waters	Thermodestruction
€/hour	€/hour	€/hour	€/hour	€	€/m ³	€/m ³
32,84	103,48	242,78	48,76	164,18	33,83	252,73

TARIFF VARIATIONS FOR WORK CARRIED OUT OUTSIDE NORMAL WORKING HOURS FOR BOTH SERVICES

- a) Saturday overtime, weekday overnight overtime and overtime on a public holiday + 40%
- b) Overnight overtime on public holiday + 80%

ORDINARY WORKING HOURS

Ordinary working hours are those carried out

from 06.00 to 22.00
from Monday to Friday
from 06.00 to 14.00 on Saturday

OVERTIME

Overtime is work carried out

from 22.00 to 06.00
from Monday to Friday
from 14.00 to 06.00 on Saturday

WORK ON A PUBLIC HOLIDAY

Work on a public holiday is one which is carried out

on Sundays, national and local Bank Holidays

OVERNIGHT OVERTIME

Overnight overtime is work carried out

from 22.00 to 06.00

THE TARIFFS INCLUDE ALL COSTS RELATED TO WASTE COLLECTION, TRANSPORTATION, TREATMENT/RECOVERY, DISPOSAL AND ANY OTHER COSTS ASSOCIATED WITH THE ENTIRE CARRYING OUT OF THE SERVICE (LIQUID/SOLID) AS LAID DOWN IN THE "PLAN" AND AS PER CURRENT LAWS IN FORCE.



ANNEX

**REVISED CONSOLIDATED FORMAT FOR REPORTING ALLEGED
INADEQUACY OF PORT RECEPTION FACILITIES***

The Master of a ship having encountered difficulties in discharging waste to reception facilities should forward the information below, together with any supporting documentation, to the administration of the flag State and, preferably, to the competent Authorities in the port State. The flag State shall notify the port State of the occurrence.

1. SHIP'S PARTICULARS

Name of ship: _____
Owner or operator: _____
Distinctive number or letters: _____
IMO No: _____
Gross tonnage: _____
Port of registry: _____
Type of ship: ___ oil tanker, ___ chemical tanker, ___ ferry, ___ cruise ship, ___
cargo ship, ___ bulk carrier, ___ or other (specify) _____

2. PORT PARTICULARS

Country: _____
Name of Port or Area: _____
Location/Terminal Name: _____
(e.g. berth/terminal/jetty)
Name of company operating reception facility (if applicable): _____
___ Unloading port, ___ Loading port, ___ Shipyard
Date of arrival: _____
Date of occurrence: _____
Date of departure: _____

* This format was developed and approved by the forty-second session of the Marine Environment Protection Committee in November 1998.



3. TYPE AND AMOUNT* OF WASTE FOR DISCHARGE TO FACILITY

3.1 Oil (MARPOL Annex I)

Type of oily waste:

- bilge water _____ m³
- sludge from fuel oil purifier _____ m³
- scale and slops from tanker cleaning _____ m³
- dirty ballast water _____ m³
- tank washings _____ m³
- other (specify) _____ m³
- were facilities available? Yes___No___
- costs involved _____

3.2 Noxious Liquid Substances (NLS) (MARPOL Annex II)

Type of NLS residue/water mixture for discharge to facility from tank washings:

- category A substance _____ m³
- category B substance _____ m³
- category C substance _____ m³
- other (specify) _____ m³
- substance is designated as ___ solidifying or ___ high viscosity
- proper shipping name of the NLS involved: _____
- were facilities available? Yes___No___
- costs involved _____

3.3 Garbage (MARPOL Annex V)

Type of garbage:

- 1: Plastic _____ m³
- 2: Floating dunnage, lining, or packing materials _____ m³
- 3: Ground paper products, rags, glass, metal, bottles, crockery, etc. _____ m³
- 4: Paper products, rags, glass, metal, bottles, crockery, etc. _____ m³
- 5: Food waste _____ m³
- 6: Incinerator, ash _____ m³
- other (specify) _____ m³
- were facilities available? Yes___No___
- costs involved _____

3.4 Other wastes

* Estimated amount



4. WAS ANY WASTE NOT ACCEPTED BY THE FACILITY?

5. INADEQUACY OF FACILITIES

5.1 Remarks on inadequacies

5.2 Location of facilities (close to the vessel, inconvenient location or vessel had to shift berth involving delay)

5.3 If you experienced a problem, with whom did you discuss this problem or report it to?

5.4 Did you give prior notification (in accordance with relevant port requirements) about the vessel's requirements for reception facilities?

Yes ___ No ___

5.5 Did you receive confirmation on the availability of reception facilities on arrival?

Yes ___ No ___

6. ANY ADDITIONAL REMARKS/COMMENTS

7. **Master's signature** _____ **Date** _____
