PROFESSIONAL WASTE SERVICES TO THE CRUISE SECTOR

EUROSHORE

SUSTAINABLE SHIP WASTE SOLUTIONS

MSC

WHO IS

EUROSHORE ?

- **Association of port reception facilities with two types of members:**

  • national associations (Netherlands, Belgium, Italy)
  • individual companies in Belgium, Bulgaria, France, Germany, Gibraltar, Greece, Italy, Netherlands, Nigeria, Poland, Romania, Turkey, UK … and via members' branches in USA, Latin America and the Middle East (Veolia, Nature Group, Van Gansewinkel, Eckelmann, Tradebe, Sertego...)

- **EUROSHORE represents >70% of European market**
- **EUROSHORE was founded in 1998**

WHAT DOES EUROSHORE STAND FOR ?

- **EUROSHORE helps shipping with their ship waste management:**
  - perform service needed within a given timeframe (within 24 hours)
  - use adequate and qualified equipment and personnel to carry the service (ISO certification)
  - be transparent in procedures and invoicing
  - establish a good partnership between the ship/agent and the service provider

- **EUROSHORE goes for:**
  - clear rules
  - zero discharge
  - accessible and affordable port reception facilities
  - waste management to increase recycling

WHAT ARE THE GOALS

OF EUROSHORE ?

EUROSHORE has clear goals in the framework of ship waste business awareness and regulations:

- to promote the use of its members port reception facilities
- to promote to the shipping industry the use of port reception facilities
- to promote the efficient and environmentally sound disposal of ships waste
- to promote relevant international policy, procedures and standards of competence for the collection and processing of ships waste

PROFESSIONAL SERVICE

EUROSHORE
SUSTAINABLE SHIP WASTE SOLUTIONS

EUROSHORE WILL PROVIDE A PROFESSIONAL SOLUTION FOR YOUR WASTE AT A FAIR PRICE:

- ANALYSIS OF THE WASTE
- SEGGREGATION OF WASTE FOR RECYCLING PURPOSES IF SUFFICIENT VOLUMES ARE DISCHARGED
- EFFICIENT COLLECTION

MULTIPLEX
www.multiplex-hh.de

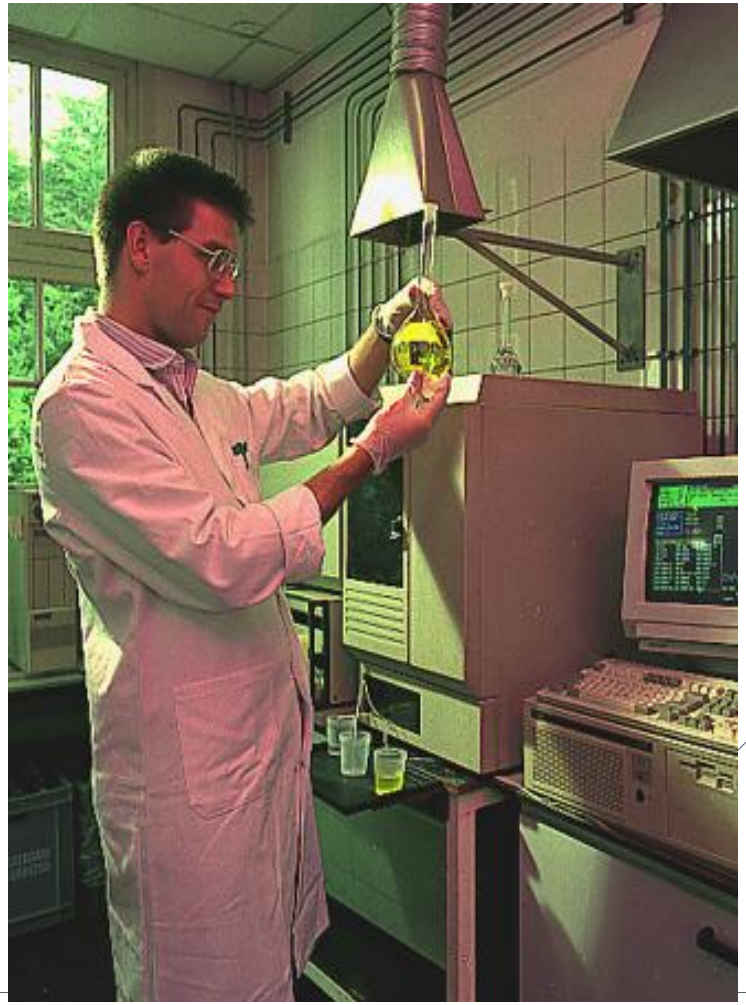
Glasbak
GB002
LET OP !
OVERIG AFVAL

M/V NORWEGIAN EPIC
RECYCLABLE WASTE
ALU_UBC_B
(USED BEVERAGE CANS BALED)
WM
WASTE MANAGEMENT

8 BILGEN

PROFESSIONAL SERVICE

IN DEPTH ANALYSIS BEFORE STARTING PROCESSES
ANALYSIS IS ALSO NEEDED FOR REASONS OF INVOICING



WASTE COLLECTION

FOR EACH TYPE OF WASTE A DEDICATED SOLUTION

NEW CHALLENGES

EUROSHORE
SUSTAINABLE SHIP WASTE SOLUTIONS

EUROSHORE WILL ASSIST THE SHIPOWNERS TO FIND A SUSTAINABLE SOLUTION FOR NEW CHALLENGES:

- SCRUBBERS

SCRUBBERS

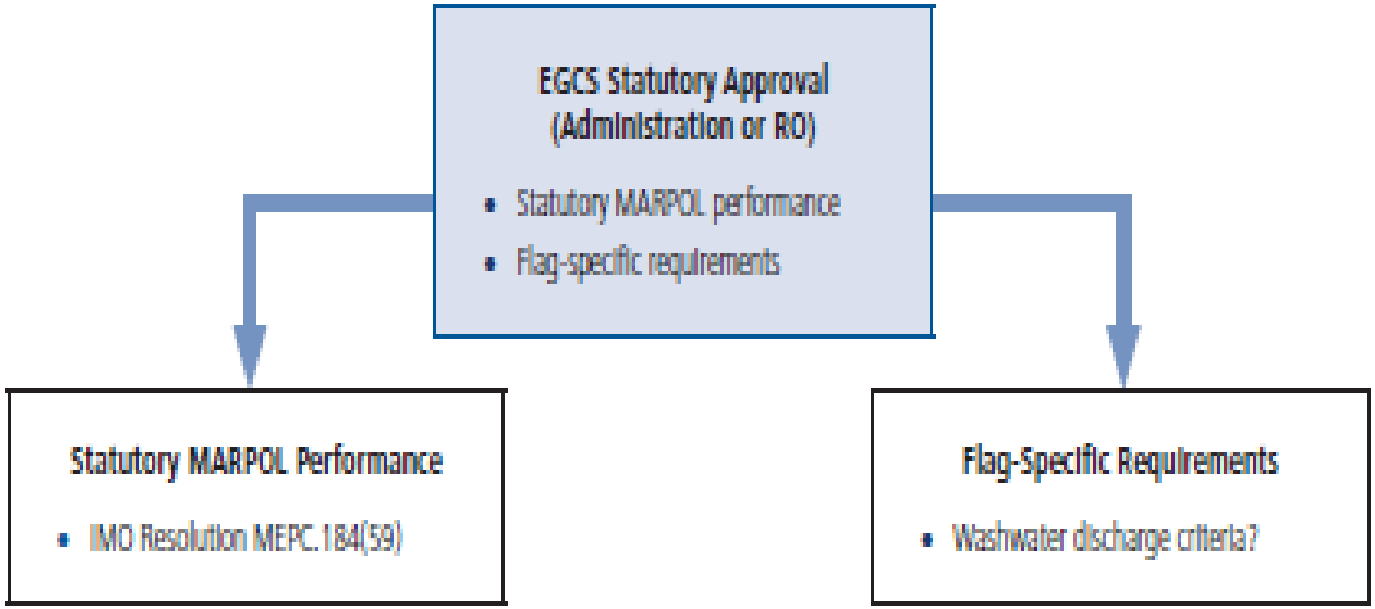


Figure 7: EGCS Statutory Approval

EUROSHORE ?

Scrubber design can change from ship to ship.

Sometimes there is treatment of the exhaust gas before going to the scrubber, some designs have after treatment of the wash water.

Wash water can obtain heavy metals, PAK's and other pollutants.

Wash water has normally a low pH at the outlet 2-3

EUROSHORE ?

- **EUROSHORE will :**

  • will offer a cost efficient solution for the discharge of sludge or wash water
  • will offer efficient collection on this type of waste depending on volumes and characteristics
  •However more samples are needed to study the characteristics of the waste

MS TIMCA EQUIPPED WITH AN ALFA LAVAL PURE SOX SCRUBBER

EXAMPLE OF AN ANALYSIS

Engine power auxilary engines (% of total capacity)	33 and 31	34 and 31	32 and 20	32 and 20
Engine power main engines (% of total capacity)	0	0	47 and 43	47 and 43
Scubber activity (% of total capacity)	6		42	42
Fuel Sulphur content (%)	1,6	1,6	1,6	1,6
Additives used (volume/time rate)	NaOH/rate of 100 L/h			
Discharge wash water flow rate (m^3/MWh)	none	0,54	none	
Discharge wash water flow rate (m^3/h)	none		none	5
Dilution water flow rate (estimated if necessary)	none	none	none	none
Volume sludge/time rate	average of 1000-1300 L/day			
pH reading (from monitoring equipment)	4,94	7,27	6,13	6,54
Temperature reading (from monitoring equipment) (°C)			22	
PAH reading (from monitoring equipment) (ppb)	102	10,9		
Turbidity reading (from monitoring equipment) (FNU)	23,46		13,2	
pH measured	4,61	6,57	5,67	5,72
Conductivity measured (mS/cm)	37,6	40,2	43	44,4
Temperature measured (°C)	19,9	27,5	23,6	28,1
Oxygen concentration measured (mg/L)	0,21	0,16	0,19	0,24
Nr bottles filled ECCA	10	10	10	10
Nr bottles filled VMM	2	2	2	2
Samples stored cool?	YES	YES	YES	YES
Remarks, visual evaluation?	black water, high spm	yellow, no spm	black, high spm	yellow, no spm
sludge sample	NO	YES	NO	YES
fuel analysis				

EUROSHORE
SUSTAINABLE SHIP WASTE SOLUTIONS

CONTACT: EUROSHORE INTERNATIONAL
Buro & Design Center
Esplanade 1 box 87
B-1020 BRUSSELS

Guido Van Meel, secretary general
info@euroshore.com
www.euroshore.com