

## TRIPARTITE 2019 TOKYO




**18 October**

**Session 6 Pollution Prevention**

# BALLAST WATER – EXPERIENCE BUILDING PHASE


## INTERCARGO BWTS SURVEY



FORM FOR INTERCARGO BALLAST WATER TREATMENT SYSTEM DATABASE  
(SYSTEMS FITTED ON MEMBERS VESSELS)

GENERAL INFORMATION	
System Manufacturer	
System Model/Series Name <sup>1</sup>	
Approval Administration	
Treatment Technology (UV, Electro-Chlorination, etc) <sup>2</sup>	
Type of Active Substance (if used)	
Location of treatment (ballast/ <del>deballast</del> /both) <sup>3</sup>	
Treatment Capacity	
Ship Ballast Pump Capacity	
Does the system use a filter	
Electrical Power Requirements <sup>4</sup>	
Number of Ships the System is Fitted on	
Installation on New Build or Retro-fit	

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FORM FOR INTERCARGO BALLAST WATER TREATMENT SYSTEM DATABASE  
(SYSTEMS FITTED ON MEMBERS VESSELS)

Date of Installation	
Is the system being operated and if so how many running hours	
ISSUES/PROBLEMS	
Installation Issues	
Commissioning Issues	
Operational Issues	
Post Installation Capabilities of manufacturer <sup>5</sup>	
Other	
OTHER COMMENTS	

**NOTES**

<sup>1</sup> Please use a different sheet for different systems

<sup>2</sup> If possible please include any System Design Limitations such as required salinity, min./max water temperature, required water density/ability to operate in fresh water, etc.

<sup>3</sup> Includes monitoring, neutralisation. Please indicate which.

<sup>4</sup> Most figures from manufacturers are for ideal operational conditions (20°C temp. more than 17degrees, 20PSU salinity). If possible, could members provide the actual power use and the environmental conditions.

<sup>5</sup> This could include lack of Technical support, availability of service engineers, etc.

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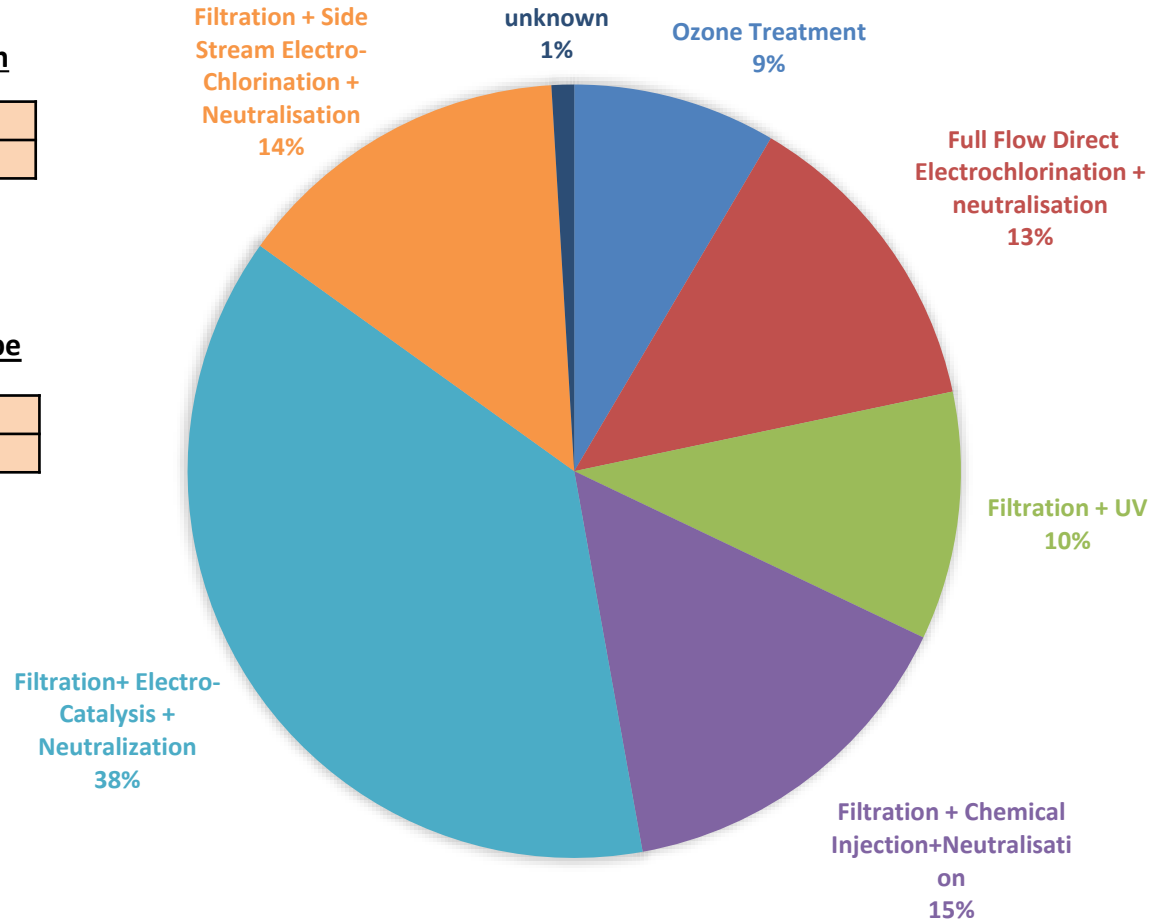
### INTERCARGO SURVEY RESULTS

#### Number of reported ships a BWTS is fitted on

Fitted at New Build	104
Fitted at Retro-fit	2

#### BWTS fitted by manufacturer & treatment type

Number of manufacturers	12
No. of different treatment types	6



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### INTERCARGO SURVEY RESULTS

#### Have issues been reported with the system

Treatment	Type of issue reported		
	Installation	Operational	Post Installation capabilities of manufacturer
Filtration + chemical injection	no	yes	yes
Ozone Treatment	no	yes	yes
Full Flow Direct Electro-Chlorination + neutralisation	no	yes	yes
Filtration + UV	no	yes	yes
Filtration + Electro-Catalysis + neutralisation	yes	yes	yes
Filtration + Side Stream Electro-Chlorination + neutralisation	yes	yes	no

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### INTERCARGO SURVEY RESULTS

Operational	Manufacturer capabilities
Sensor Failures (6)	Lack of Service engineer (14)
Chemical supply issues (5)	Lack of Technical Support (10)
Chemical Storage issues (5)	Availability of Spares (1)
Ballast Check Module Failure (5)	
Filter Blockage (4)	
UV Lamp Failures (4)	
Flowmeter issues (4)	



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**THANK YOU**