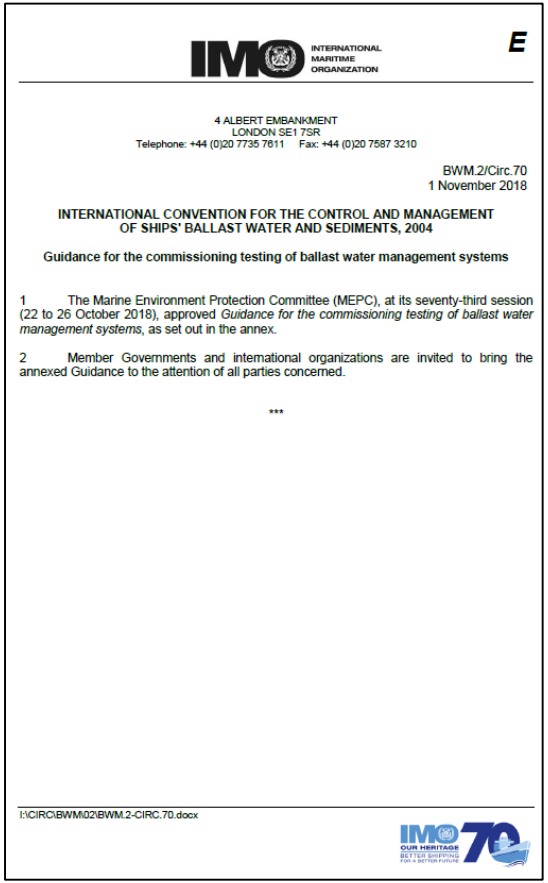
Glosten

PACIFIC BALLAST WORKING GROUP

VALLEJO, CALIFORNIA 3 APRIL 2019

SAMPLING AND CONTINGENCY MEASURES



IMO INTERNATIONAL MARITIME ORGANIZATION

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BWM.2/Circ.70
1 November 2018

INTERNATIONAL CONVENTION FOR THE CONTROL AND MANAGEMENT OF SHIPS' BALLAST WATER AND SEDIMENTS, 2004

Guidance for the commissioning testing of ballast water management systems

1 The Marine Environment Protection Committee (MEPC), at its seventy-third session (22 to 26 October 2018), approved *Guidance for the commissioning testing of ballast water management systems*, as set out in the annex.

2 Member Governments and international organizations are invited to bring the annexed Guidance to the attention of all parties concerned.

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.1 a sample should be collected during a ballast water uptake to characterize the ambient water, by any means practical (e.g. in-line sample port or direct harbour sample). The ambient water should be accepted for testing regardless of the level of challenge it poses to the BWMS;

.2 a sample should be collected during the corresponding ballast water discharge after the full treatment has been applied. Samples should be taken in accordance with the *Guidelines on ballast water sampling* (G2);

.3 the representative samples should be analysed for all size classes included in the D-2 standard using indicative analysis methods listed in table 3 of BWM.2/Circ.42/Rev.1; and

.4 the applicable self-monitoring parameters (e.g. flow rate, pressure, TRO, UV intensity, etc.) of the BWMS should also be assessed, taking into account the System Design Limitations of the BWMS, and the correct operation of all sensors and related equipment should be confirmed.

IMO Process

- BWM.2/Circ.70 (note 4.3)
- IMarEST Paper on Indicative Measures

FINAL DRAFT

INTERNATIONAL STANDARD

ISO/FDIS 11711-1

ISO/TC 8
Secretariat: SAC
Voting begins on: 2019-02-18
Voting terminates on: 2019-04-15

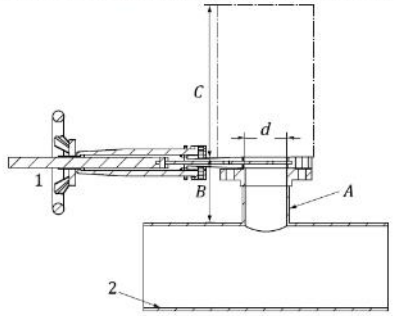
Ships and marine technology — Aquatic nuisance species —

Part 1:
Ballast water discharge sample port

Reference number
ISO/FDIS 11711-1:2019(E)

Contents Page

The access flange shall be of standard design to ISO 7005-1 PN 20 DN 50 (identical dimensionally to DIN 2544 PN 20, ASME B16.5 class 150 or JIS B 2220 10K). Flanges shall be flat face. It is acceptable to utilize a flanged valve as the access flange provided it meets the ISO 7005-1 PN 20 DN 50 standard.



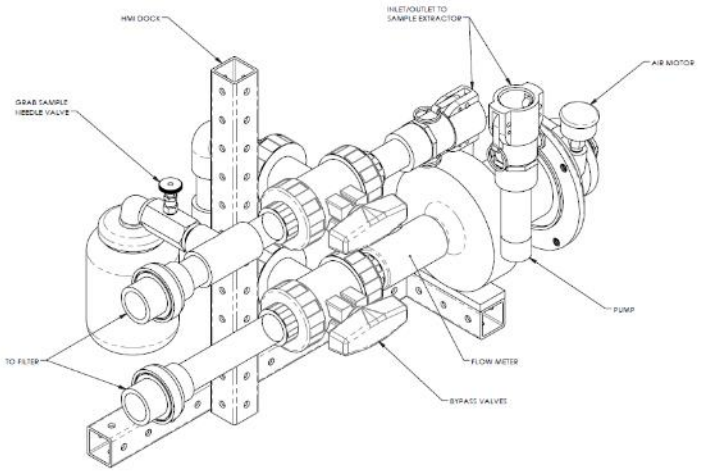
Key
1 sample port valve
2 ballast discharge pipe
A nominal pipe size (DN)
B inner wall of ballast discharge pipe to face of access flange (max)
C equipment operating area extending outward from face of access flange (min)
d clearance through port diameter (min)

NOTE Figure not to scale.

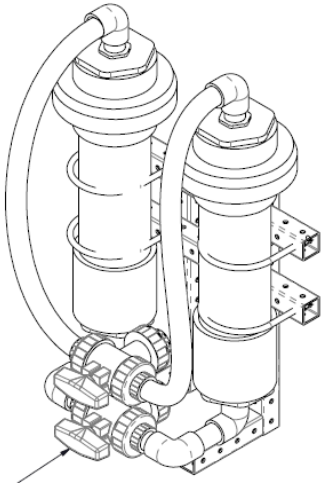
Figure 2 — Perpendicular sample port arrangement

ISO Process

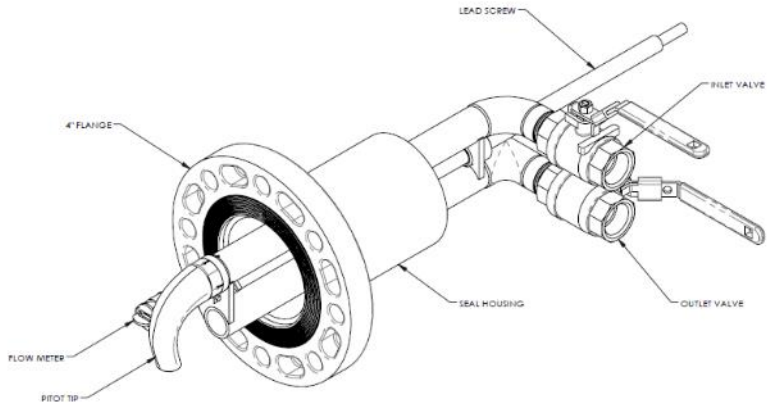
- 11711-1 Sample Port (final votes)
- 11711-2 Sample Probes (under development)
- 11711-3 Analysis (outline only)
- Next meeting Marine City, Korea (June)



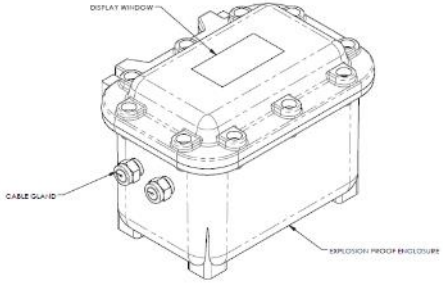
Circulation Pump



Filters for Full Analysis



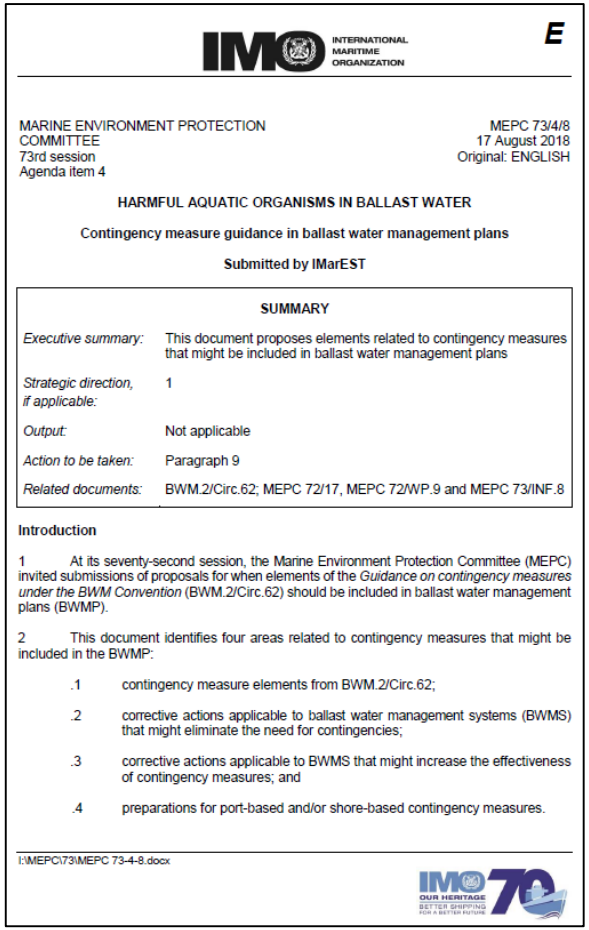
Sample Probe



Data Collector

Glosten/CA State Lands Commission Sampler

- Indicative and fully analysis capable
- Suitable for tank ships and general cargo vessels
- Testing on Golden Bear in August/September 2019



IMO INTERNATIONAL MARITIME ORGANIZATION

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MARINE ENVIRONMENT PROTECTION COMMITTEE
73rd session
Agenda item 4

MEPC 73/4/8
17 August 2018
Original: ENGLISH

HARMFUL AQUATIC ORGANISMS IN BALLAST WATER

Contingency measure guidance in ballast water management plans

Submitted by IMarEST

SUMMARY

Executive summary:	This document proposes elements related to contingency measures that might be included in ballast water management plans
Strategic direction, if applicable:	1
Output:	Not applicable
Action to be taken:	Paragraph 9
Related documents:	BWM.2/Circ.62; MEPC 72/17, MEPC 72/WP.9 and MEPC 73/INF.8

Introduction

1 At its seventy-second session, the Marine Environment Protection Committee (MEPC) invited submissions of proposals for when elements of the *Guidance on contingency measures under the BWM Convention* (BWM.2/Circ.62) should be included in ballast water management plans (BWMP).

2 This document identifies four areas related to contingency measures that might be included in the BWMP:

.1 contingency measure elements from BWM.2/Circ.62;

.2 corrective actions applicable to ballast water management systems (BWMS) that might eliminate the need for contingencies;

.3 corrective actions applicable to BWMS that might increase the effectiveness of contingency measures; and

.4 preparations for port-based and/or shore-based contingency measures.

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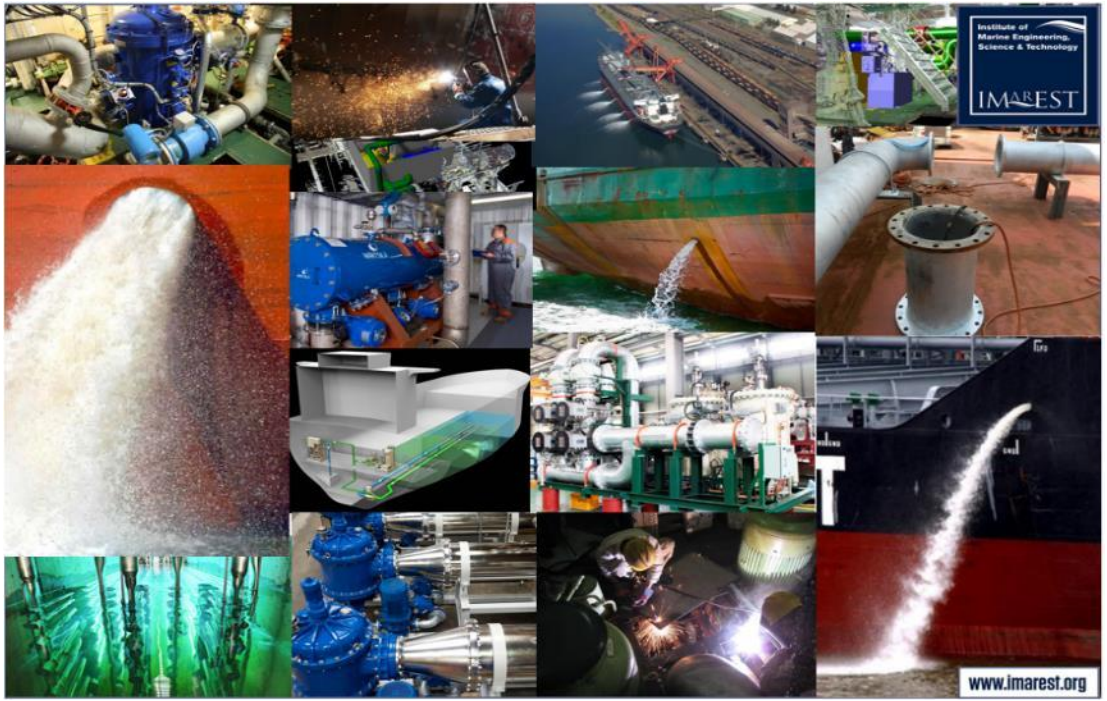
IMO 70 OUR HERITAGE BETTER SHIPPING FOR A BETTER FUTURE



IMO Contingency Measures

- IMarEST Paper on Contingency Measures
- Revision to G6 Guidelines to include CM
- Support by industry, i.e. INTERTANKO guide

Glosten inTank BWMS for Contingency Measures

- May 2018 – Coos Bay Oregon Deployment
- September 2018 – TS Dool Deployment
- March 2019 – Apuana D NON Deployment
- Working on Type Approval USCG