

Attachment 1

Introduction to the new Green Award requirements for Bilge and Sludge Management

for Annex 3: Oil tanker (3a), Bulk carrier (3b), LNG carrier (3c) and Chemical tanker (3d)



Why new requirements for bilge and sludge handling?

Observing incidents in the past years, it has been proven in many cases that oily water discharge problem cannot be controlled or eradicated by a single equipment i.e. Oily Water Separator (OWS). This equipment has the responsibility of handling numerous components of chemical substances and oil. The new requirements focus more on the roots of the problem; giving a better view on the exact components that are dealt with on a day to day basis by the crew and other possibilities onboard that would help reduce the risk involved in bilge and sludge handling and increase the efficiency of the OWS. The new requirements introduce the structural possibilities (presence of various tanks) for various processes that could be implemented. Splitting the process of oily water separation into different proposed methodologies and the use of different equipment would reduce the workload of the OWS resulting in the trouble free reliable process of bilge water and proper disposal as per international regulations.

According to the above we have introduced a new group of requirements for bilge and sludge handling and divided them into three elements:

- **5820** – Management of bilge water and sludge handling onboard;
- **5821** – Outfitting of bilge water system;
- **5822** – Outfitting of sludge handling system.

Regarding **Management of bilge water and sludge handling onboard** we have focussed on the following:

- Creating company policies on the use of chemicals and detergents used in machinery spaces;
- Familiarization and training of the crew on the use and composition of these chemicals and detergents;
- Assigning responsibilities to designated people both in the office and the crew onboard;
- Appropriate training provided for the engineers in terms of Bilge water management;
- Pointing out the responsibilities of the shipping companies in formation/implementation of various checklists related to bilge water management.

Attachment 1

Introduction to the new Green Award requirements for Bilge and Sludge Management

for Annex 3: Oil tanker (3a), Bulk carrier (3b), LNG carrier (3c) and Chemical tanker (3d)



Regarding **Outfitting of bilge water system** we have focussed on the following:

- **Clean Drains:** Additional GA requirements for MEPC.1/Circ 642 to bring it in line with MARPOL requirements;
- **Soot Collection Tank Arrangement:** Additional GA requirements to enable proper bilge water handling;
- **Oily Bilge water Tank Arrangement:** Additional GA requirements to improve the efficiency of the BWS;
- **Oil Content Meter:** Compliance with MEPC.107 (49) and focus on BWS testing facilities/procedures;
- Installation of the specialized tanks for specialized purposes in order to increase the efficiency of the OWS (Doc 5.2);
- Installation of the oil skimming equipment in order to provide a proper handling of sludge;
- Provision of proper management instructions regarding the disposal of soot and soot water mixtures;
- Assigning responsibilities for operating and maintaining the oily water separator and oil content meter.

Regarding **Outfitting of sludge handling system** we have focussed on the following:

- Installation of the incinerator as per MEPC.1/Circ. 40(68);
- Transfer of the oily residue (sludge) tank content via a heated tank capable of draining water and evaporating of the water content;
- Improvement of pump arrangements to reduce records in Oily Record Book;
- Additional GA requirements from MEPC.1/Circ 642 to bring it in line with MARPOL requirements;
- Improvement in the efficiency of the incinerator and the workload of the ER personnel;
- Alternative solution with the aim to reduce sludge production/waste like:
 1. Sludge decanter;
 2. Reception facilities;
 3. Low sulphur fuel or incinerator.

The basis for the above requirement is derived from the MEPC.1/Circ 642 document and modified by Green Award for easy reference.

For the Green Award modified MEPC.1/Circ 642 drawing, please refer the following link:
<http://www.greenaward.org/69-downloads.html>