DESCRIPTION OF OIL RECORD BOOK TRAINER

ORB TRAINER -BRIEF DESCRIPTION

ORB Trainer is the most complete and easy-to- use software assistant for creating valid entries for Oil Record Book – Part I (Machinery Space Operations), in compliance with MARPOL requirements. The application is based on IMO's guidance, for the recording of operations in the Oil Record Book Part I (Machinery Space Operations). Combining a clean, easy to use interface and a perpetual check of the remaining on board quantities for tanks included in vessel' s IOPP Certificate, ORB Trainer simplifies the creation of the desirable ORB entries while making sure they are valid.

The software is provided **for both onboard and office use** and it is accompanied by **analytical guide for installation, training, guidance, as well as prompt support from SMM (UK) Ltd..**

Offers special functions like:

- **Authorization of officers** for entries
- **Keeping Quantities Log** of each IOPP tank
- Commands and **tools to create, delete, show and print ORB entries**
- View and check remaining on board tank quantities.
- **Automatic warnings**, such as the **estimated day of overflow** of an IOPP tank
- Reminder for standard entries (ie: weekly inventory).
- **Automatic check of entry correctness**
- **Auto-flow rates** can be set either at port or at sea.
- **Automatic Check of Sludge Production Quantities**

- **Automatic Warnings for User set limits**. (

- **Ensuring consistency** of the sequence of operations for the harmonization of quantities logistics.

- **Insertion-Indication of E.T.A. and warning** for collection of oil residues

- **Automatic Checks and validations** during the insertion of entries

- Check of coordinates against **Special Areas** (ie. OWS) & **SECAs** (ie. Incinerator)
- **Print and preview filtered entries** and **export to PDF**.

- **Image backup of current ORB Entries**

- **Audit Log** for all Users' activities
- Restrictions in **Disposal Methods** of Oil Residues

- **Automatic Estimation** of **Auto Flow Rates**

- **Familiarization of officers** with record keeping as per applicable regulations.

- Automatic synchronization of data between vessel and office.

- **Lifetime Support** and Maintenance

UNIQUE FEATURES OF THE SMM ORB TRAINER SOFTWARE COMPARED TO COMPETITION FOR VESSEL AND OFFICE APPLICATION

- **All MARPOL - Group options (entry of codes A to I) appear in a single window.**

- **Insertion of every ORB entry is automatically generated** in a wizard environment

- **Statistics** in charts along with printout reports are provided in the software

- **Print-out is identical copy to the Official Oil Record Book Hardcopy**,

- **In-house development**

- Can be **harmonized** with your **Safety Management System**

Please see below **Screenshots**:

M/V DEMO - Machinery Space Operations

Group A

Cleaning of oil fuel tanks
(Item No's: 1, 2, 3.1, 3.2, 3.3)

Ballasting
(Item No's: 1, 2, 4.1, 4.2)

Both Above Operations
(Item No's: 1, 2, 3.1, 3.2, 3.3, 4.1, 4.2)

Group B

Discharge of dirty ballast
(Item No's: 5, 6, 7, 8, 9.1, 9.2, 10)

Cleaning water from fuel oil tanks
(Item No's: 5, 6, 7, 8, 9.1, 9.2, 10)

Group C

Weekly inventory of oil residues tanks
(Item No's: 11.1, 11.2, 11.3)

Manual collection of oil residues
(Item No's: 11.1, 11.2, 11.3, 11.4)

Manual collection of oil residues from Hold. Tank
(Item No's: 11.1, 11.2, 11.3, 11.4)

Transfer oil residues to port facilities
(Item No: 12.1)

Transfer oil residues to other tank(s)
(Item No: 12.2)

Disposal of oil residues (Sludge)
(Item No's: 12.3, 12.4)

Group D

Non-automatic pumping of bilge water from engine-room bilge wells or other source
(Item No's: 13, 14, 15.1, 15.2, 15.3)

Non-automatic pumping from a bilge tank (IOPPC par. 3.3)
(Item No's: 13, 14, 15.1, 15.2)

Non-automatic transfer from a bilge tank (IOPPC par. 3.3) to other tank(s)
(Item No's: 13, 14, 15.3)

Group E

Automatic pumping of bilge water overboard from bilge tanks (IOPPC par. 3.3)
(Item No's: 16, 18)

Automatic pumping of bilge water overboard from engine-room bilge wells
(Item No's: 16, 18)

Automatic transfer of bilge water to bilge tanks (IOPPC par. 3.3)
(Item No's: 17, 18)

Group F

Condition of the oil filtering equipment (incl. alarm and automatic stopping devices)
(Item No's: 19, 20, 21)

Group G

Accidental or other exceptional discharges of oil
(Item No's: 22, 23, 24, 25)

Group H

Bunkering of fuel oil
(Item No's: 26.1, 26.2, 26.3)

Bunkering of diesel oil
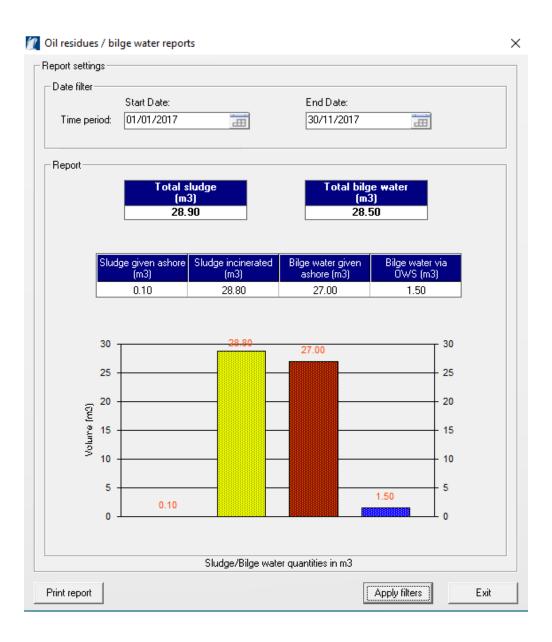(Item No's: 26.1, 26.2, 26.3)

Bunkering of bulk lubricant oil
(Item No's: 26.1, 26.2, 26.4)

Group I

Additional operational procedures and general remarks

Test OWS/OCM

Optional sealing of MARPOL Annex I related valve

Breaking of optional sealing of MARPOL Annex I related valve

Search for desired operation...

Back to ORB entries

Create an entry for ORB - Part I (M/V DEMO)

ORB Operation: Disposal of oil residues (Sludge)

Logged in as: Demo User (CHIEF ENGINEER)

General Info

Date: 13/11/2017   Remarks:

Operation Details

Group C - Disposal of oil residues

Disposal of oil residues

#	Tank name (IOPPC par. 3.1)	Total Capacity (m3)	Expected Quantity (m3)	Transfer Quantity (m3)
1	SLUDGE TANK	16.10	14.98	
2	WASTE OIL TANK	48.30	46.86	
3	INCINERATOR SERVICE TANK	2.00	1.90	0.10
4	INCINERATOR SETTLING TANK	2.00	1.15	

Total Quantity to be disposed (m3) : 0.10

Select disposal method:
☑ Incinerator
☐ Boiler
☐ Water evaporation
☐ Regeneration
☐ Other Method

Duration (hrs)
5

Incinerator's capacity: 0.20 m3/h

Information
Please indicate the total incineration time, in hours.

Oil Record Book Trainer - Entries successfully added...
Entries have been successfully added to Vessel's ORB!
OK

Operation Preview

Date	Code	Item	Record of Operations
13-NOV-2017	C	12.3	0.10M3 SLUDGE FROM INCINERATOR SERVICE TANK (FR.14 - 15, ER CASING, UPPER DECK, STARBOARD), 1.90M3 RETAINED
			BURNED IN INCINERATOR FOR: 5.0HRS

Add entry   Clear data   Exit

Oil residues / bilge water reports ✕

Report settings

Date filter

Time period:

Start Date: `01/01/2017`

End Date: `30/11/2017`

Report

Total sludge (m3)	Total bilge water (m3)
28.90	28.50

Sludge given ashore (m3)	Sludge incinerated (m3)	Bilge water given ashore (m3)	Bilge water via OWS (m3)
0.10	28.80	27.00	1.50

Sludge/Bilge water quantities in m3

[Print report]   [Apply filters]   [Exit]

M/V DEMO   Oil Record Book - Part I   Page : 2

Name of the Ship ......M/V DEMO....................
Distinctive Number or Letters ....SBBLQ...........................

Machinery Space Operations

#	Date	Code (letter)	Item (number)	Record of Operations / Signature of officer in charge / name of and signature of authorised surveyor
1	09-NOV-2017	C	11.1	SLUDGE TANK (FR.33 - 45, PORT SIDE)
2			11.2	16.10M3
3			11.3	16.10M3
4				Signature Rank Date
5	09-NOV-2017	C	11.1	WASTE OIL TANK (FR.28 - 37, PORT SIDE)
6			11.2	48.30M3
7			11.3	48.30M3
8				Signature Rank Date
9	09-NOV-2017	C	11.1	INCINERATOR SERVICE TANK (FR.14 - 15, ER CASING, UPPER DECK, STARBOARD)
10			11.2	2.00M3
11			11.3	2.00M3
12				Signature Rank Date
13	09-NOV-2017	C	11.1	INCINERATOR SETTLING TANK (FR.14 - 15, ER CASING, UPPER DECK, STARBOARD)
14			11.2	2.00M3
15			11.3	1.15M3
16				Signature Rank Date
17	09-NOV-2017	C	11.1	INCINERATOR SETTLING TANK (FR.14 - 15, ER CASING, UPPER DECK, STARBOARD)
18			11.2	2.00M3
19			11.3	1.25M3

Save to PDF   Exit

Check Sludge Production

Report settings

Date filter

	Start Date:	End Date:
Time period:	01/01/2017	30/11/2017

Fuel Oil Consumption in that Time Period

Total (m3):	8000
Daily (m3):	24.0

[Calculate]

Results

Measured Sludge Production (m3)	Calculated Sludge Production (m3)	Difference (m3)	Difference (%)
67.24	64.00	3.24	5.1

[Print report]　　　　　　　　　　[Exit]

WE CAN SAIL TOGETHER…..

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