



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:

Oil Record Book Part I (M/V DEMO) - Training only
 File Edit Entry options View User Help
M/V DEMO
 S.A. MALLIAROUDAKIS MARITIME LTD.

New entry... Delete entry... Print entries... Number of ORB entries in selected view: 29

#	Date	Code	Item	Record of Operations	Entry Status	Remarks
1	10NOV-2017	C	11.1	SLUDGE TANK (FR.33 -45, PORT SIDE)		
			11.2	16.10M3		
			11.3	14.50M3		
			11.4	0.50M3		
Entry added by: Demo User (CHIEF ENGINEER)						
2	10NOV-2017	C	11.1	SLUDGE TANK (FR.33 -45, PORT SIDE)		
			11.2	16.10M3		
			11.3	10.00M3		
Entry added and closed by: Demo User (CHIEF ENGINEER)						
3	10NOV-2017	C	11.1	WASTE OIL TANK (FR.33 -45, PORT SIDE)		
			11.2	48.30M3		
			11.3	13.30M3		
Entry added and closed by: Demo User (CHIEF ENGINEER)						
4	10NOV-2017	C	11.1	INCINERATOR SERVICE TANK (FR.33 -45, PORT SIDE)		
			11.2	2.00M3		
			11.3	0.00M3		
Entry added and closed by: Demo User (CHIEF ENGINEER)						
5	10NOV-2017	C	11.1	INCINERATOR SETTLING TANK (FR.33 -45, PORT SIDE)		
			11.2	2.00M3		
			11.3	0.15M3		
Entry added and closed by: Demo User (CHIEF ENGINEER)						
6	10NOV-2017	I		WEEKLY INVENTORY OF BILGE WATER TANKS (LISTED UNDER ITEM 3.3)		
				BILGE WATER HOLDING TANK (FR.14 -22, CENTRE)		
				QUANTITY:54.30M3, 46.20M3 RETAINED		
Entry added and closed by: Demo User (CHIEF ENGINEER)						
7	10NOV-2017	I		WEEKLY INVENTORY OF BILGE WATER TANKS (LISTED UNDER ITEM 3.3)		
				BILGE WATER HOLDING TANK 2 (FR.14 -22, CENTRE)		
				QUANTITY:54.30M3, 45.70M3 RETAINED		
Entry added and closed by: Demo User (CHIEF ENGINEER)						
8	10NOV-2017	C	12.3	0.50M3 SLUDGE FROM INCINERATOR SERVICE TANK (FR.14 -15, ER CASING, UPPER DECK, STARBOARD), 0.00M3 RETAINED		

Check or update Sludge/Holding tanks quantities

Update/Check Actual vs Expected Quantities...

ICPPC tank details and settings...

Warnings...



Application warnings

Warnings

#	Application message(s)
1	The retained quantity of SLUDGE TANK, will exceed tank's total capacity in about 9 days, based on the given entry flow rate (0.10m3/day)
2	The retained quantity of WASTE OIL TANK, will exceed tank's total capacity in about 12 days, based on the given entry flow rate (0.12m3/day)
3	The expected quantity of INCINERATOR SERVICE TANK, has reached tank's total capacity
4	The retained quantity of BILGE WATER HOLDING TANK, will exceed tank's total capacity in about 27 days, based on the given entry flow rate (0.20m3/day)
5	The retained quantity of BILGE WATER HOLDING TANK 2, will exceed tank's total capacity in about 89 days, based on the given entry flow rate (0.20m3/day)
6	Group F (port) operation needs to be added when failed equipment will become functional again.

Legend

- Information
- Warning
- Error

Exit

Sludge tank quantities retained on board, should be updated every week. Remaining days for the next update: 4

Oil Record Book Part I (M/V DEMO) - Training only
 File Edit Entry options View User Help
M/V DEMO
 S.A. MALLIAROUDAKIS MARITIME LTD.

New entry... Delete entry... Print entries... Number of ORB entries in selected view: 29

Record of Operations

#	Date	Code	Item	Record of Operations	Entry Status	Remarks
1	10NOV-2017	C	11.1	SLUDGE TANK (FR.33 -45, PORT SIDE)		
			11.2	16.10M3		
			11.3	14.50M3		
			11.4	0.50M3		
Entry added by: Demo User (CHIEF ENGINEER)						
2	10NOV-2017	C	11.1	SLUDGE TANK (FR.33 -45, PORT SIDE)		
			11.2	16.10M3		
			11.3	10.00M3		
Entry added and closed by: Demo User (CHIEF ENGINEER)						
3	10NOV-2017	C	11.1	WASTE OIL TANK (FR.33 -45, PORT SIDE)		
			11.2	48.30M3		
			11.3	13.30M3		
Entry added and closed by: Demo User (CHIEF ENGINEER)						
4	10NOV-2017	C	11.1	INCINERATOR SERVICE TANK (FR.33 -45, PORT SIDE)		
			11.2	2.00M3		
			11.3	0.00M3		
Entry added and closed by: Demo User (CHIEF ENGINEER)						
5	10NOV-2017	C	11.1	INCINERATOR SETTLING TANK (FR.33 -45, PORT SIDE)		
			11.2	2.00M3		
			11.3	0.15M3		
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6	10NOV-2017	I		WEEKLY INVENTORY OF BILGE WATER TANKS (LISTED UNDER ITEM 3.3)		
				BILGE WATER HOLDING TANK (FR.14 -22, CENTRE)		
				QUANTITY:54.30M3, 46.20M3 RETAINED		
Entry added and closed by: Demo User (CHIEF ENGINEER)						
7	10NOV-2017	I		WEEKLY INVENTORY OF BILGE WATER TANKS (LISTED UNDER ITEM 3.3)		
				BILGE WATER HOLDING TANK 2 (FR.14 -22, CENTRE)		
				QUANTITY:54.30M3, 45.70M3 RETAINED		
Entry added and closed by: Demo User (CHIEF ENGINEER)						
8	10NOV-2017	C	12.3	0.50M3 SLUDGE FROM INCINERATOR SERVICE TANK (FR.14 -15, ER CASING, UPPER DECK, STARBOARD), 0.00M3 RETAINED		

Check and update actual tank quantities

Update expected tank quantities

Sludge/Holding tank quantities

Double click on a list item or click the button next to a selected tank in order to review the quantities transferred between tanks

#	Tank name	Total Capacity (m3)	Expected Quantity (m3)	Actual Quantity (m3)	Diff (m3)	Diff (%)
1	SLUDGE TANK	16.10	14.90	14.00	-0.90	-7.0%
2	WASTE OIL TANK	48.30	46.86	46.50	-0.36	-0.77%
3	INCINERATOR SERVICE TANK	2.00	2.00	2.00	0.00	0.0%
4	INCINERATOR SETTLING TANK	2.00	1.15	1.15	0.00	0.0%
5	BILGE WATER HOLDING TANK	54.30	46.90	2.20	-44.70	-82%

* Current expected quantities R.O.S., as calculated from previous recorded operations and auto-flow rate settings

One or more actual values entered differ from the expected ones, as calculated by the operations made since the last actual quantities measurement. Please contact Technical Dept. at S.A. MALLIAROUDAKIS MARITIME LTD.

Tank quantities plot



Vessel's state and position: At Port At Sea

Special areas check: Vessel's position attempts with GMA's special area

Click here to see the reports where Special areas check is applied.

Reduce values Save actual quantities Exit

Check or update Sludge/Holding tanks quantities

Update/Check Actual vs Expected Quantities...

ICPPC tank details and settings...

Warnings...



Sludge tank quantities retained on board, should be updated every week. Remaining days for the next update: 4

Select an operation... (M/V DEMO) X

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/DCM

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

The screenshot shows the 'Create an entry for ORB - Part I (M/V DEMO)' window. The 'General Info' section includes the date '13/11/2017' and a 'Remarks' field. The 'Operation Details' section is for 'Group C - Disposal of oil residues'. A table lists the disposal of oil residues from four tanks:

#	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	46.96	
3	INCINERATOR SERVICE TANK	2.00	1.90	0.10
4	INCINERATOR SETTLING TANK	2.00	1.15	

The 'Total Quantity to be disposed (m3)' is 0.10. The 'Select disposal method' section has 'Incinerator' checked. The 'Duration (hrs)' is 5. The 'Incinerator's capacity' is 0.20 m3/hr. An 'Operation Preview' table shows the entry details:

Date	Code	Item	Record of Operations
13NOV-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

An information box states: 'Please indicate the total incineration time, in hours.' A success message box says: 'Oil Record Book Trainer - Entries successfully added... Entries have been successfully added to Vessel's ORB!'

Report settings

Date filter

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

Report

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

Oil Record Book - Part 1

Name of the Ship: M/V DEMO
 Distinctive Number or Letters: 59962

Machinery Space Operations

#	Date	Code (letter)	Item (number)	Record of Operations / Signature of officers 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	49.30M3
7			11.3	49.30M3
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

Not official use - Training only

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Check Sludge Production ✕

Report settings

Date filter

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