



ORION MARINE CONCEPTS



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CONTENTS



MARPOL SEAL LOG



ORION MARINE CONCEPTS

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INTRODUCTION;

This module has been created inline with the TSM Form 160, which is used for recording and reporting the MARPOL seals.

Structure of the section is same as the excel form, while the worksheet names on the excel, form are the main components of the system, the secondary headers form the second layer and the items to which the seals are physically attached are named as the "LINE ITEMS".

THE NAMING AND GROUPING CONVENTION;

Main Header (Currently the worksheet name on the TSM Form 160)

--**Sub header** (row heading in the excel with similar group equipment)

---- Line item (equipment/items to which the seals are actually attached/installed)

Example:

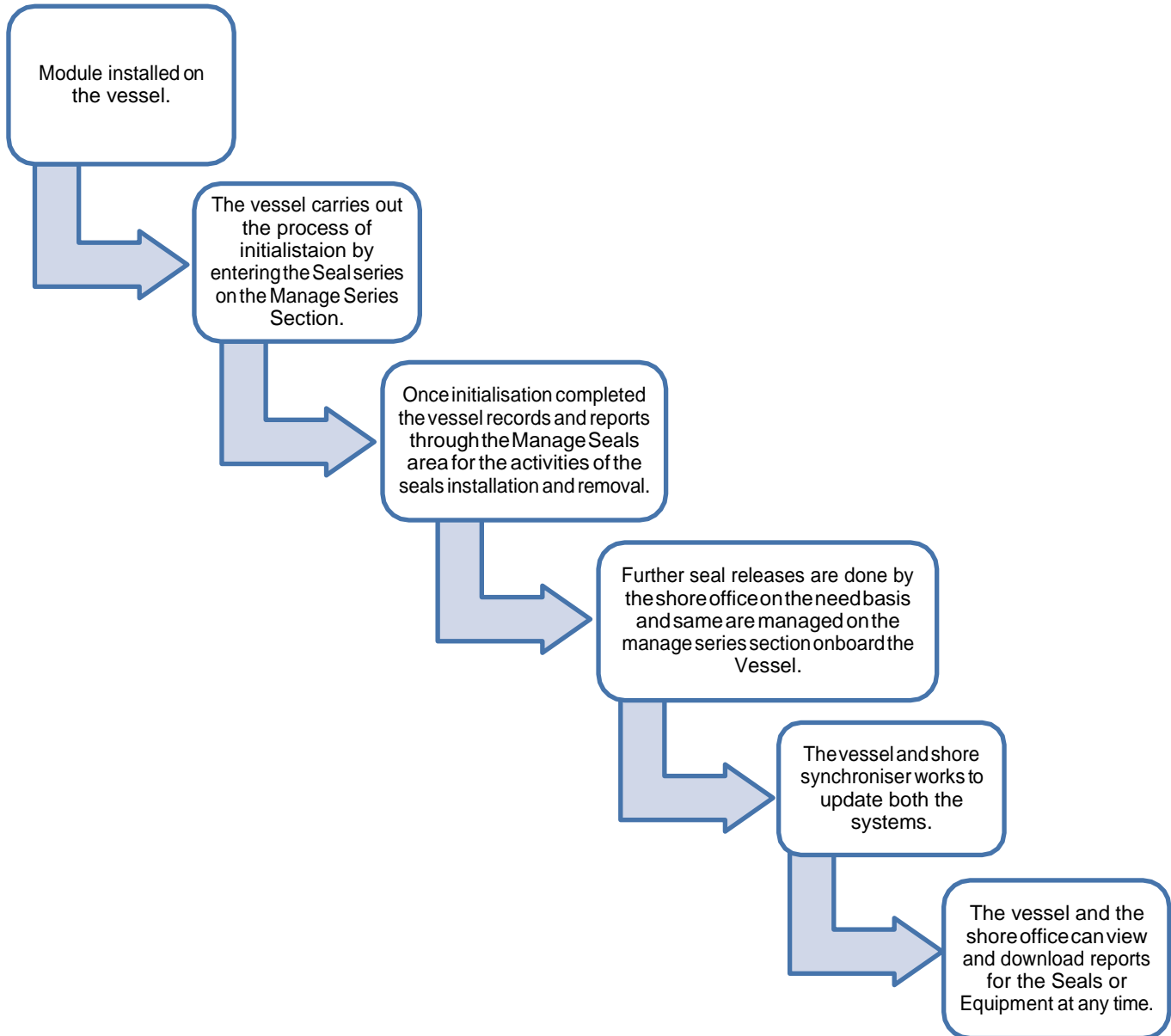
Portable Pump Flex Hose (Group main heading)

-- **Portable pump ID tag** (Deck and Engine combined in Steering Gear Room Locker)^(Group sub heading)

---- Portable pump (equipment/items to which the seals are actually attached/installed)



THE PROCESS FLOW OF THE MARPOL SEAL LOG;





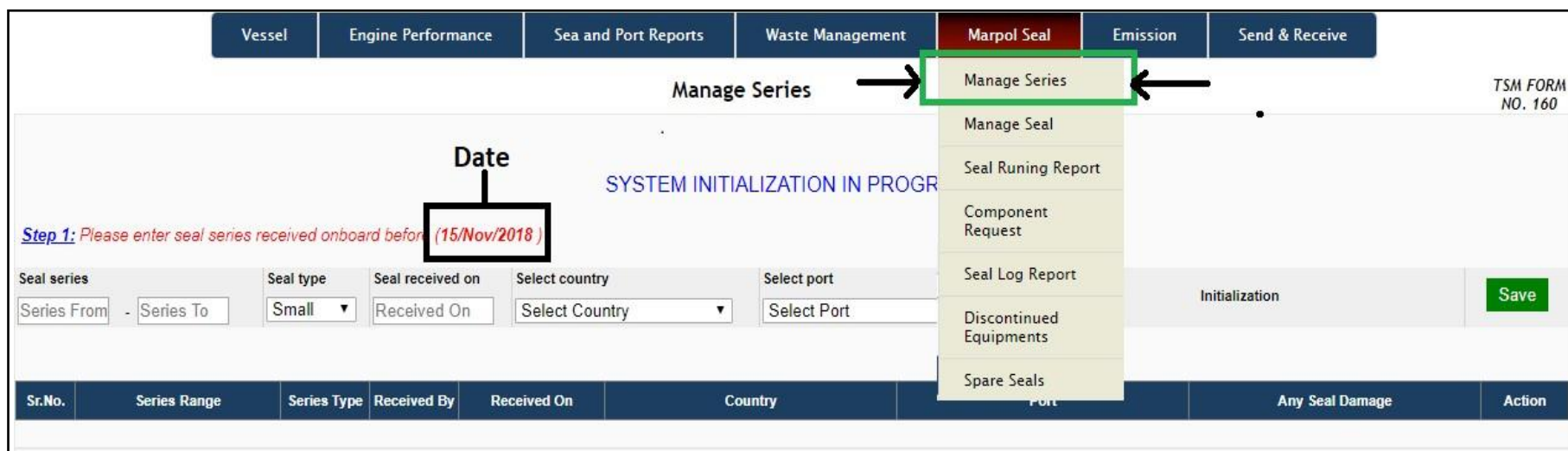
LOGIN TO NAU WITH THE BELOW CREDENTIALS;

Username: admin1
Password: admin1

A. STARTUP / INITIALISATION – A FOUR STEP PROCESS

STEP 1: Entering received seal series details

1. Click on the New top menu tab named; “MARPOL SEAL” and click on the “MANAGE SERIES”
2. Enter the seals received on board prior to the date SHOWN as initialization date.



The screenshot shows the software interface for entering seal series details. The top navigation bar includes tabs for Vessel, Engine Performance, Sea and Port Reports, Waste Management, Marpol Seal, Emission, and Send & Receive. The 'Marpol Seal' tab is active, and a dropdown menu is open, showing options: Manage Series (highlighted with a green box), Manage Seal, Seal Runing Report, Component Request, Seal Log Report, Discontinued Equipments, and Spare Seals. A 'Manage Series' button is also visible in the main area. Below the navigation bar, there is a section for 'SYSTEM INITIALIZATION IN PROGR' with a 'Date' field highlighted by a box and labeled 'Date', showing '(15/Nov/2018)'. A red text prompt reads: 'Step 1: Please enter seal series received onboard before (15/Nov/2018)'. Below this, there are input fields for 'Seal series' (Series From - Series To), 'Seal type' (Small), 'Seal received on' (Received On), 'Select country' (Select Country), and 'Select port' (Select Port). A 'Save' button is located to the right of these fields. At the bottom, there is a table header with columns: Sr.No., Series Range, Series Type, Received By, Received On, Country, Port, Any Seal Damage, and Action.



3. Once all the Seal series have been recorded, Click YES on the READY FOR STEP 2

Vessel
Engine Performance
Sea and Port Reports
Waste Management
Marpol Seal
Emission
Send & Receive

Manage Series

TSM FORM NO. 160

Factory Reset

SYSTEM INITIALIZATION IN PROGRESS

Step 1: Please enter seal series received onboard before (15/Nov/2018)

Seal series

Series From - Series To

Seal type

Small ▼

Seal received on

Received On

Select country

Select Country ▼

Select port

Select Port ▼

Initialization

Save

Sr.No.	Series Range	Series Type	Received By	Received On	Country	Port	Any Seal Damage	Action
1	2001-2050	Large	Master	01 Nov 2018	AMERICAN SAMOA (AS)	Pago Pago (PPG)	Intialization	✔
2	1001-1050	Small	Master	02 Nov 2018	BAHRAIN (BH)	Al Muharraq (GBQ)	Intialization	✔

* Ready for next step: Have you completed entries of all thome specific Series received onboard Prior 15/Nov/2018

No
 Yes

FAQ:

- Ques. How many series should I enter before going to Step 2?

Ans. You must enter all the Thome specific Yellow seal series that have been physically received onboard your vessel which were supplied by your Company since Jul'2017.



STEP 2:

Selecting the "Present In Use" and "Unused/ Spare" seals

Here you are required to select / enter all Thome specific Seal Series as "SPARE" which is PRESENTLY IN USE and UNUSED/SPARE SEALS (IN Master CUSTODY). Once these are marked as spare in **Step 2**, all these seal numbers will be available for allocating them to respective items from the Manage Seal area, in Step 3.

1. You can input all "Present in use" Seals individually as per "Large" or "Small". The Present in Use seals are to be inputted from the TSM 160/ TSM 160-M

SYSTEM INITIALIZATION IN PROGRESS

Step 1: Please enter seal series received onboard before (15/Nov/2018)

Seal series: Series From: - Series To: Seal type: Seal received on: Select country: Select port: Initialization:

Sr.No.	Series Range	Series Type	Received By	Received On	Country	Port	Any Seal Damage	Action
1	2001-2050	Large	Master	01 Nov 2018	AMERICAN SAMOA (AS)	Pago Pago (PPG)	Initialization	✓
2	1001-1050	Small	Master	02 Nov 2018	BAHRAIN (BH)	Al Muharraq (GBQ)	Initialization	✓

** Ready for next step: Have you completed entries of all thome specific Series received onboard Prior 15/Nov/2018* No Yes

Step 2: In the below area you are required to enter all seals which are presently IN USE and SPARE (Master custody).

Seal Type: Seal Range/Individual:



- Once all Present in use seals are entered as spare, next step in "Step2" is to enter all UNUSED/SPARE seals as spare seals. This can be done by selecting as range Or Individually as shown below "Step 2"

Vessel
Engine Performance
Sea and Port Reports
Waste Management
Marpol Seal
Emission
Send & Receive

Manage Series

TSM FORM NO. 160

Factory Reset

SYSTEM INITIALIZATION IN PROGRESS

Step 1: Please enter seal series received onboard before (15/Nov/2018)

Seal series

Series From - Series To

Seal type

Small

Seal received on

Received On

Select country

Select Country

Select port

Select Port

Initialization

Save

Sr.No.	Series Range	Series Type	Received By	Received On	Country	Port	Any Seal Damage	Action
1	2001-2050	Large	Master	01 Nov 2018	AMERICAN SAMOA (AS)	Pago Pago (PPG)	Initialization	✓
2	1001-1050	Small	Master	02 Nov 2018	BAHRAIN (BH)	Al Muharraq (GBQ)	Intialization	✓

* Ready for next step: Have you completed entries of all thome specific Series received onboard Prior 15/Nov/2018

No Yes

Step 2: In the below area you are required to enter all seals which are presently IN USE and SPARE (Master custody).

Seal Type: Small Seal Range/Individual: Range From : To : Save

FAQ:

1. Ques. What do I do with my old discarded/ used seals?
 Ans. There is no need to record all used and discarded seals. Only the ones "Presently in Use" and Unused/Spare seals to be entered.
2. Ques. What to do if I made a mistake in a seal input and that it was a used/discarded seal?
 Ans. In the step 2, such entry made for old used & discarded seal can be deleted. Find in the table below and delete the entry.
3. Ques. I forgot to enter a Seal Series?



Ans. Re-select "NO" as the answer under step 1, this would take back to step 1.

STEP 3: Locking Initialization

* Ready for next step: Have you completed entries of all thome specific Series received onboard Prior 15/Nov/2018 No Yes

1. All seals entered in s
2. Should any seals be sighted which is incorrect Or entered by mistake for discarded/used ones, same can be removed by clicking "delete" button available next to the seal.

Initialised Seals			
			Seal Search : <input type="text"/>
Sr.No.	Seal No.	Details	Action
1	S-1003	Spare	
2	S-1004	Spare	
3	L-2001	Spare	

3. Once all the Thome specific Seals "Present in use" and as "Unused/ spare" are entered, select **YES** and click on the Green button **"Proceed to Lock Initialization"**.



SYSTEM INITIALIZATION IN PROGRESS

Step 1: Please enter seal series received onboard before (15/Nov/2018)

Seal series: Series From - Series To | Seal type: Small | Seal received on: Received On | Select country: Select Country | Select port: Select Port | Initialization | **Save**

Sr.No.	Series Range	Series Type	Received By	Received On	Country	Port	Any Seal Damage	Action
1	2001-2050	Large	Master	01 Nov 2018	AMERICAN SAMOA (AS)	Pago Pago (PPG)	Initialization	✓
2	1001-1050	Small	Master	02 Nov 2018	BAHRAIN (BH)	Al Muharraq (GBQ)	Initialization	✓

* **Ready for next step:** Have you completed entries of all those specific Series received onboard Prior 15/Nov/2018 No Yes

Step 2: In the below area you are required to enter all seals which are presently IN USE and SPARE (Master/CE custody).

Seal Type: Large | Seal Range/Individual: Individual | Select | **Save**

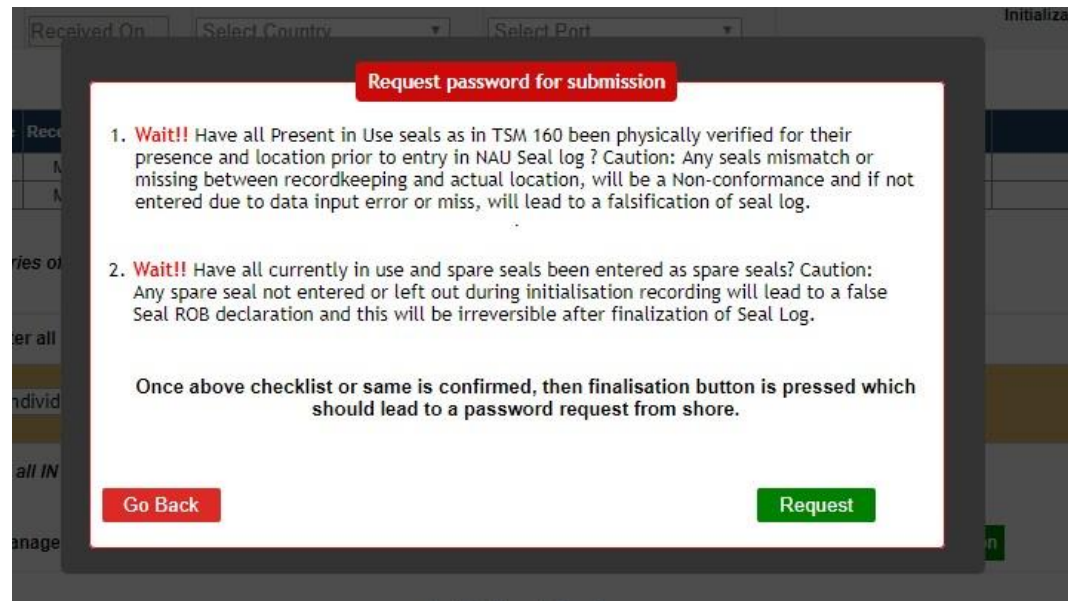
* **Ready for next step:** Have you accounted for all IN USE seals and SPARE seals (Master Custody) onboard ? No Yes

Step 3: To close initialization and proceed to manage seals section for connecting the line items with seals please click on this button: **Proceed to lock initialization**

4. **Final Overview** window will pop up to indicate on Seal series onboard and seals marked as spare (as in step 2).



5. Once confirmed all Present in Use Seals and Unused Seals/ Spare have been confirmed added and entered as spare, the **Proceed** tab is clicked for completing Initialization. A box will appear with Caution and Requesting Password from shore. **Read the Caution carefully!! Once sure, please click on REQUEST.**



FAQ:

1. Ques. I made a mistake in a seal marking as spare it was an old seal not required here?
Ans. You can **Go Back** to step 2 and delete the incorrectly inputted seal.
2. Ques. I forgot to enter a Seal Series?
Ans. Tag Seal series can be enter at any phase of NAU seal log.
3. Ques. Can password be provided for "proceeding" to next step OR return back to step 2 for corrections?
Ans. Both Approval and Cancellation passwords can be provided.



STEP 4: Entering the approval/cancellation password

1. Once you receive the password from shore, please enter in the box and click **submit** tab for getting to MANAGE SEAL Section.

The screenshot shows a software interface with a top navigation bar containing buttons for 'Vessel', 'Engine Performance', 'Sea and Port Reports', 'Waste Management', 'Marpol Seal', 'Emission', and 'Send & Receive'. The 'Marpol Seal' button is highlighted in red. Below the navigation bar, the main content area is titled 'Manage Series'. On the right side of this area, it says 'TSM FORM NO. 160' and a red 'Factory Reset' button. In the center, there is a blue prompt: 'Please Enter Password to Complete Initialization:'. To the right of this prompt is a white text input field and a green 'Submit' button, both of which are enclosed in a green rectangular box.

FAQ:

1. Ques. Where do I enter the subsequent seal series received onboard?
Ans. Once initialization is complete, the entry cells open allowing entering further New seals received onboard as replenishment.



B. "MANAGE SEAL" SECTION:

The "MANAGE SEAL" section allows the user to;

1. All "Present in Use seals" entered as spare in Phase A, will now be designated/ assigned to relevant Headers/ Sub headers/ Line Items boxes as per description/ location/ equipment matching with TSM 160/160-M.

Please note: NAU template for Line items and Sub Headers to be used maximum as long as Location & equipment for each such seal is matching with TSM 160.

NAU VESSEL MANAGEMENT SYSTEM

Logged in as VMS | May 10, 2018 - 12:09 (GMT -500)

LOGOUT

Vessel Waste Management Engine Performance Marpol Seal Sea and Port Reports Send & Receive

Manage Seal

TSM FORM NO. 160

Portable Pump Flex Hose > Portable Pump ID tag (Deck & Engine Combined in Steering Gear Rm Locker) > Portable Pu...

Install Seal

Seal no.	Installed by	Condition of the Seal	Date Time
S - 1003	Select Rank	Select Condition	

Save

Portable Pump ID tag (Deck & Engine Combined in Steering Gear Rm Locker)

1. Portable Pump Flex Hose

2. OWS & OOH System

3. Clean Dr & EOE Wash Tl

4. Sewage & Shore Discharge

5. Obsrv.Fire PR. Misc

6. Obsrv.Fire PR. Misc (2)

7. Pump Room-CORE & Fuel Store

Seal Tag Series In Use

Small Tag: 1001-1005/ROB 3

Large Tag: 2001-2005/ROB 3

2. In-case the Seal number to be assigned was not entered in step 2, but is present in TSM 160 as "present in use"; same can be now added as spare and thereafter assigned to respective Line item.



Vessel | Engine Performance | Sea and Port Reports | Waste Management | Marpol Seal | Emission | Send & Receive

Portable Pump Flex Hose > Portable Pump ID tag (Deck & Engine Combined in Steering Gear Rm Locker) > Portable Pu...

Install Seal

Seal no. Installed by Condition of the Seal Date Time

Oops!! 1020 is in discarded list! [click here to revert as Spare.](#)

No matches found

Previous Seal Status

- Once Max "Present in Use seals" are assigned to Line items of NAU template (as per TSM 160-M), any remaining seals (which are in Use & as per TSM 160/160-M) which have not been assigned any Line items, can now be added by creating/adding new Line items as shown below. As many newline items can be added under each of the Sub header.
- Also as necessary, new sub headers (Max-2) can be created/Added to each Header followed by adding Line items to these Newly Created headers for assigning remaining "present in Use" seals.

Manage Seal New Sub Header Added here TSM FORM NO. 160

a. Select the correct Header

Sub Component Enter equipment name :

Portable Pump ID tag (Deck & Engine Combined in Steering Gear Rm Locker)	Portable Pump to S tring Pump Inside 1 sicker / Deck & Engine Combined in Steering Gear Rm Locker	FIXED ON DECK (TANKERS) ; Portable Pump ID tag (SOP EP / Port & Sbd Main deck)	Portable Pump to S tring Pump (SOPE A/ Port & Sbd Main deck)	Portable Pump ID tag (Mid Ship/ Fuel)	Portable Pump to S tring Pump Inside 1 sicker (Mid Ship/ Fuel)	Portable Pump LOC KERR ID tag (SP Seal area Deck Locker Fuel/ MDD)	Flexible Hose (ID 1 1/2)
---	---	--	--	---	--	---	---------------------------

b. Select the correct Sub Header.

Portable Pump	Portable Pump	Portable Pump	Portable Pump	Portable Pump	Portable Pump	Portable Pump	Portable Pump
02 May 2018 12:00	02 May 2018 15:00	--	--	--	--	--	--
L + 2003	L + 2002	--	--	--	--	--	--
First installation...	Sevage Direct Over.	--	--	--	--	--	--

Line Item Enter equipment name : Sealed Date

New Line Item Added here Please select seal no. for the corresponding line item. Select Sealed Date



Ps Note: Once all "Present In use" Seals have been assigned to Line Items under respective Headers/ Sub Headers, **your NAU seal Log is considered to be fully implemented.**

NORMAL OPERATION OF NAU SEAL LOG: LOGGING OF Installing & Removing OF the Seals for a line item

Step 1: Installing a Seal.

1. Click on the desired Line Item.
2. Select the desired Seal from the drop down
Enter Condition as "Good" unless seal sighted to be damaged and enter date/ Time of installation of seal. Enter details and click **Save**

The screenshot shows the 'Manage Seal' interface. At the top, there are navigation tabs: Vessel, Waste Management, Engine Performance, Marpol Seal (active), Sea and Port Reports, and Send & Receive. Below these is a 'Manage Seal' section with options: Manage Seal (highlighted), Seal Log Report, and Component. The breadcrumb path is: Portable Pump Flex Hose > Portable Pump ID tag (Deck & Engine Combined in Steering Gear Rm Locker) > Portable Pu... The main form is titled 'Install Seal' and contains the following fields:

Seal no.	Installed by	Condition of the Seal	Date Time
S - 1003	Select Rank	Select Condition	

A dropdown menu is open for 'Seal no.', showing options: S - 1003 (selected), S - 1004, L - 2001, and L - 2002. A 'Save' button is located at the bottom right of the form.

Once Seal installed/ affixed, when such line item is clicked following window will appear:



Portable Pump Flex Hose > Portable Pump ID tag (Deck & Engine Combined in Steering Gear Rm Locker) > Portable Pu...

Current Seal Status - Installed

Current Seal no.: L - 2001 Installed By : Chief Engineer Installed On : 01 May 2018 10:00 Reason: Initialisation

Remove Seal

Removed by Date Time Reason

Select Rank Select Reason

Previous Seal Status

Seal no.	Issued By	Installed On	Installed By	Reason	Removed On	Removed By	Reason
L - 2001	Master	01 May 2018 10:00	Chief Engineer	Initialisation			

Step 2: Removing a Seal.

Case 1: If you know the Header/ Sub-header/ Line item for Seal change to be done, and then click on the Line Item to view the existing seal in place and click on "Remove Seal "for removing the seal. Enter Date/ Time of Removal.

NAU VESSEL MANAGEMENT SYSTEM Logged in as VMS | May 10, 2018 - 12:09 (GMT -500)

Logout

Vessel Waste Management Engine Performance **Marpol Seal** Sea and Port Reports Send & Receive

Manage Seal TSM FORM NO. 160

Portable Pump Flex Hose > Portable Pump ID tag (Deck & Engine Combined in Steering Gear Rm Locker) > Portable Pu...

Current Seal Status - Installed

Current Seal no.: L - 2001 Installed By : Chief Engineer Installed On : 01 May 2018 10:00 Reason: Initialisation

Previous Seal Status

Seal no.	Issued By	Installed On	Installed By	Reason	Removed On	Removed By	Reason
L - 2001	Master	01 May 2018 10:00	Chief Engineer	Initialisation			

Close

Sub Component

- 1-Portable Pump Flex Hose
- 2.OWS & OCM System
- 3. Clean Dr & EGE Wash Tk
- 4.Sewage & Shore Discharge
- 5.Obdvv,Fire PR, Misc
- 6.Obdvv,Fire PR, Misc (2)
- 7.Pump Room-ODME & Fwd Store

Portable Pump ID tag (Deck & Engine Combined in Steering Gear Rm Locker)

Portable Pump to Strong Point Inside Locker (Deck & Engine Combined in Steering Gear Rm Locker)

FIXED ON DECK ANKERS) : Portable Pump ID tag EP / Port & Starboard in deck

Portable Pump

01 May 2018 10:00

L - 2001

Initialisation

Click to work and view details



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Case 2: if you are not sure of the line item where the seal is installed, Search by the seal number to find the line item.

Manage Seal

TSM FORM NO. 160

+ Sub Component

[S-1008: Portable Pump >>>>](#)

Portable Pump ID tag (Deck & Engine Combined in Steering Gear Rm Locker)

Portable Pump to Strong Point Inside Locker (Deck & Engine Combined in Steering Gear Rm Locker)

FIXED ON DECK (TANKERS) : Portable Pump ID tag (SOP EP / Port & Stbd Main deck)

Portable Pump to Strong Point (SOPE P/ Port & Stbd Main deck)

Portable Pump ID tag (Mid Ship/ Fwd)

Portable Pump to Strong Point Inside Locker (Mid Ship/ Fwd)

Portable Pump LOCKER ID tag (If Separate Deck Locker Fwd/ MID)

Flexible Hose (ID tag)

Portable Pump	Portable Pump	Portable Pump	Portable Pump	Portable Pump	Portable Pump	Portable Pump	Portable Pump
01 Dec 2018 12:00	--	--	--	--	--	--	--
S - 1008	--	--	--	--	--	--	--
First installation..	--	--	--	--	--	--	--

Click to Open

Step 3:

Select / Enter the Required fields and click SAVE. The new installed seal "reason" will automatically pick up from the "removed" reason.

Portable Pump Flex Hose > Portable Pump ID tag (Deck & Engine Combined in Steering Gear Rm Locker) > Portable Pu...

Current Seal Status - Installed

Current Seal no.: L - 2001 Installed By : Chief Engineer Installed On : 01 May 2018 10:00 Reason: Initialisation

Remove Seal

Removed by: Date Time: Reason:

Save

Previous Seal Status

Seal no.	Issued By	Installed On	Installed By	Reason	Removed On	Removed By	Reason
L - 2001	Master	01 May 2018 10:00	Chief Engineer	Initialisation			



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Step 4: This changes the Current Seal Status to –“REMOVED”, this will remove the seal and the details get updated on the lower table with the complete data. You may simply close the window or Install a new seal.

Portable Pump Flex Hose > Portable Pump ID tag (Deck & Engine Combined in Steering Gear Rm Locker) > Portable Pu...

Current Seal Status - Removed

Current Seal no.: L - 2001 Removed By : Chief Engineer Removed On : 02 May 2018 12:00 Reason: Sewage Direct Overboard valve

Install Seal

Seal no. Installed by Condition of the Seal Date Time

L - 2002

Previous Seal Status

Seal no.	Issued By	Installed On	Installed By	Reason	Removed On	Removed By	Reason
L - 2001	Master	01 May 2018 10:00	Chief Engineer	Initialisation	02 May 2018 12:00	Chief Engineer	Sewage Direct Overboard valve

C. VIEWING / EXTRACTING REPORTS;

Detailed reports can be extracted by going to the menu named; “SEAL LOG REPORTS”



Vessel Waste Management Engine Performance **Marpol Seal** Sea and Port Reports Send & Receive

Seal Log Report **Manage Series** **Manage Seal** **Seal Log Report** **Component Request** TSM Form 160

All Equipments Selected All Sub Component Selected All Line Items Selected 2018-01-01 To 2018-05-10 GO PDF

Vessel Name: Orion_Vessel
1.0 Portable Pump Flex Hose From Date: 2018-01-01 To Date: 2018-05-10

1.1 Portable Pump ID tag (Deck & Engine Combined in Steering Gear Rm Locker)							
Seal number	Issued By	Installed On	Instated By	Reason	Removed On	Removed By	Reason
1.1.1 Portable Pump							
L 2003	Master	02-May-2018 12:00	Chief Engineer	First installation			
1.1.2 Portable Pump							
L 2002	Master	02-May-2018 15:00	Chief Engineer	Sewage Direct Overboard valve			
1.1.3 Portable Pump							
L 2001	Master	01-May-2018 10:00	Chief Engineer	Initialisation	02-May-2018 12:00	Chief Engineer	Sewage Direct Overboard valve

2.0 OWS & OCM System

D. EXPORTING THE DATA ASHORE

As per usual, click on the Send and Receive button on the Send and Receive section to export the data to the shore server.

FACTORY RESET

In-case for some reason you wish to delete the entire entries right from the Seal series, logging of the seals and have the system rolled back to start, you can click this button, this will open a Pop which needs you name and reason, etc.

Once entered and submitted, the Shore shall approve the same, until then the system will be on hold.

Caution: Once this is done, the system will reset back to initialization phase and all entries have to be done again. This measure to be taken only if several seals have not been entered or several seal records do not match TSM 160/160-M during implementation phase.



The screenshot shows a software interface with a 'Factory Reset' dialog box in the foreground. The dialog box has a title bar 'Factory Reset' and contains the following elements:

- Field: Enter Your Name: [Enter your name]
- Field: Reason : * Remark [Max char: 200]
- Buttons: Submit (green), Cancel (red)

In the background, there is a 'Factory Reset' button highlighted with a green box, and a green arrow points from this button to the dialog box. Other interface elements include a top navigation bar with 'Marpol Seal' selected, and a table at the bottom with columns 'Any Seal Damage' and 'Action'.

Any Seal Damage	Action
Initialization	✓
Initialization	✓

-----END DOCUMENT-----



Addendum

SNO.	Document Name	Document ID
1	Changing Line Items	ORN/MARPOL/001-001
2	Date Change	ORN/MARPOL/001-002
3	Deleting Series	ORN/MARPOL/001-003
4	Marking Seal as Spare	ORN/MARPOL/001-004
5	Seal Factory Reset	ORN/MARPOL/001-005
6	Seal Line-Item Discontinuation Request	ORN/MARPOL/001-006
7	Seal Log Amendment Password Entry	ORN/MARPOL/001-007
8	Series Details Amendments	ORN/MARPOL/001-008