THETIS-EU: PRF Module

Introduction

Miguel C. Ricardo / Project Officer
Unit 3.1 – Maritime Digital Services / Digital Services and Simplification

Workshop on the Implementation of PRF (EU) Directive 2019/883

Lisbon / 20 October 2021

EMSA

1.

Background

What is THETIS-EU?

Web-based tool for recording ship inspections regulated by EU legislation

In service since **1st January 2015**

Currently supports **six** inspection regimes:

Sulphur - Directive (EU) 2016/802

PRF - Directive (EU) 2019/883 (*)

MARSEC - Regulation (EC) 725/2004

ROPAX - Directive (EU) 2017/2110

Ship Recycling - Regulation (EU) 1257/2013

MRV Regulation – Regulation (EU) 2015/757

** repealing Directive 2000/59/EC*

PRF Directive (EU) 2019/883
What Changed / Will Change?

- **PRF is a mandatory inspection reporting tool (Article 14), already available for reporting PRF inspections,**
- **New non-compliances, inspection actions, waste types have already been configured,**
- **Future developments:**
- Display of Advanced Waste Notification (as per Annex 2) as relayed by SSN to THETIS-EU,
- Risk-based Targeting Mechanism (*),
- Indicator of Dedicated Storage Capacity (*).

(*) implementation to take place after adoption of supporting implementing acts.

THETIS & THETIS-EU: Two Systems

THETIS

International Conventions
(e.g., **MARPOL**)
(**PSC Directive**)

- ✓ Storage of inspection data
- ✓ Targeting Mechanism

THETIS-EU

Sulphur Directive
PRF Directive
MARSEC Reg.
ROPAX Directive
Ship Recycling Reg.
MRV Reg.

- ✓ Storage of inspection data
- ✓ *Risk Based Targeting for PRF (future)*

Common

- ✓ **Ship Details**
- ✓ **Port Call Details**

THETIS-EU: User Roles and Access Rights

EMSA

User Role with Access Rights to:

THETIS-EU Reader

- **Consult:** Ship Details, Inspections, Alerts

THETIS-EU Inspector

- **Consult:** Ship Details, Inspections, Alerts
- **Report:** Inspections, Alerts
- **Update:** Ship Details

THETIS-EU Processor

- **Consult:** Ship Details, Inspections, Alerts, Statistics
- **Report:** Alerts
- **Update:** Ship Details

THETIS-EU National Administrator

- **Consult:** Ship Details, Inspections, Statistics
- **Manage:** THETIS-EU User Accounts

2.

Reporting PRF Inspections in THETIS-EU

PRF Inspection Workflow 1/2

Port Call

1. Ship Search

Pre-Boarding Info

Ships' Reporting Obligations

Advanced Waste Notification (Article 6 of PRF Directive):

- At least 24H prior to arrival if port call is know or,
- As soon as the port call is known, if information available less than 24H prior arrival or,
- At latest upon departure from previous port, if duration of voyage less than 24H

Pre-Boarding Info: Waste Notification

Port Call Details

PortCall

Port		Position in Port	19387379
ETA	11/01/2021 09:00	ATA	14/01/2021 15:52
ETD		ATD	15/01/2021 23:03
Source	SAFE_SEA_NET	Next port of call	
Ship Call ID		Last update from	
Last port	RUPRI		

Waste Notification: Communicated by SafeSeaNet

Waste notification

Last Port delivered		Waste delivered status	Some
Last port delivered date	11/01/2021 00:00		

Waste Details

Provider of last update

Last update received at 15/01/2021 22:03

Waste Details: Communicated by SafeSeaNet

Waste Type	To Be Delivered	Max Storage	Retained On Board	Estimate Generated	Delivered At Last Port	Port of Delivery of Remaining Waste
Glass	0.02 M3	0 M3	0 M3	0 M3	0 M3	
Food waste	0.01 M3	0 M3	0 M3	0 M3	0.01 M3	
Special items (e.g. medical waste, oily rags, paint, cans, dated pyrotechnics, batteries, print cartridges, etc.)	0.02 M3	0 M3	0 M3	0 M3	0 M3	
Oily Residues (Sludge)	0 M3	54.4 M3	5 M3	0.5 M3	0 M3	RUPRI

Close

Future elements of the Waste Notification

- New Waste Types as per Annex 2,
- Convention reference (e.g., MARPOL Annex V).

To be no longer reported:

- "Delivered At Last Port"

Waste Notification will also be available in SafeSeaNet.

Location: *Ships (search) > PortCall > Details*

Pre-Boarding Info: Port Call History

Back to Search Ships

IMO | Name | Flag state/Registry

PortCall history

	Port	Anchorage	SECA	ETA	ATA
Actions			✔		11/09/2020 11:05
Actions			✔	27/10/2019 10:00	27/10/2019 09:45
Actions				25/10/2019 14:00	25/10/2019 13:03
Actions			✔	23/10/2019 21:00	23/10/2019 20:05
Actions				22/10/2019 08:00	22/10/2019 06:02
Actions			✔	15/10/2019 21:00	20/10/2019 09:52
Actions				17/10/2019 14:00	17/10/2019 10:00

Makes available the port call history of the ship at any port of an EU MS.

With the historical information, is possible to verify past reported waste notifications.

Location: *Ships (search) > Actions > Ship > Details > tab "Port Call History"*

Pre-Boarding Info: Inspection History

Inspection history

	Date of inspection	Regime	Member State	Port	
Actions	09/07/2021 11:50	Sulphur	[illegible]	[illegible]	
Actions	07/06/2021 14:47	PRF Sulphur	[illegible]	[illegible]	
Actions	15/03/2021 15:20	PRF	[illegible]	[illegible]	
Actions	01/10/2020 13:04	PRF	[illegible]	[illegible]	
Actions	12/05/2020 11:58	Sulphur	[illegible]	[illegible]	
Actions	30/04/2020 09:00	PRF	[illegible]	[illegible]	
Actions	06/03/2020 12:44	PRF	[illegible]	[illegible]	
Actions	09/09/2019 11:30	PRF	[illegible]	[illegible]	
Actions	28/03/2019 11:48	PRF	[illegible]	[illegible]	
Actions	21/02/2019 15:15	Sulphur	[illegible]	[illegible]	
Actions	08/01/2019 12:50	PRF	[illegible]	[illegible]	
Actions	03/08/2018 06:44	PRF	[illegible]	[illegible]	

Information on past PRF inspections may lead to a more targeted inspection or, in case a ship was never PRF inspected, may also lead to an inspection to be carried out.

The above will be an important element for the "Risk-Based Targeting"

Location: *Ships (search) > Actions > Ship > Details > tab "Inspection history"*

Pre-Boarding Info: Automatic Alerts
Current Implementation (To be revised)

Port Call Details

PortCall

Port		Position in Port	19387379
ETA	11/01/2021 09:00	ATA	14/01/2021 15:52
ETD		ATD	15/01/2021 23:03
Source	SAFE_SEA_NET	Next port of call	
Ship Call ID		Last update from	
Last port	RUPRI		

Waste notification

Last Port delivered		Waste delivered status	
Last port delivered date	11/01/2021 00:00		

Alert	Name

Failure to comply with PRF reporting obligations

Alert automatically triggered when "*Waste delivered status (All, Some, None)*" is not reported in the ship call or not sent in a timely fashion as per Article 6.

(Note: "Waste delivered status" will no longer be available with the next release of SSN, and the conditions to trigger the same alert will have to be re-visited)

Alert	Name

No PRF inspection recorded

NORWEGIAN DAWN

Automatically triggered when there is no PRF inspection reported in THETIS-EU. To be amended to check in the last 12 months.

Location: *Ships (search) > Actions > Ship > Details > tab "Alerts"* ***or*** *Ships (search) > Actions > Details*

Pre-Boarding Info: Manual Alerts
Current Implementation (To be revised)

Manual alerts may be triggered by the PRF inspector outside or within the scope of a PRF inspection.

The alerts reported by a MS are visible to all MSs accessing THETIS-EU.

However, manually created alerts can only be archived by another MS while reporting a PRF inspection (tab: "Alerts").

It is important to archive alerts, at a time a PRF inspection is reported, if found to be no longer relevant.

Location: *Ships (search) > Actions > Ship > Details > tab "Alerts"* ***or*** *Ships (search) > Alert > Add alert*

Pre-Boarding Info: Exemptions

Exemptions communicated to SSN (as per Article 9.3) and relayed to THETIS-EU:

- Advanced Waste Notification (Article 6),
- Delivery of Waste from Ships (Article 7(1)),
- Payment of Fees (Article (8))

Given the transitional period, the exemptions are still displayed in THETIS-EU with the former reference of the PRF Directive 2000/59/EC.

The exemption "Waste Notification" will be taken into account to not trigger the alert – "*reporting obligation*" – depending on which ports are indicated to be exempted.

Majority of active exemptions registered in SafeSeaNet are for waste notification.

Location: *Ships (search) > Actions > Ship > Details > tab "Exemptions"*

PRF Inspections Workflow 2/2

Port Call

Inspected

1. Ship Search

Pre-Boarding Info

Post-Boarding Info

Inspection Type:
PRF

2. Process inspection

3. Inspection On-Going

4a. Inspected

OR

4b. Inspected and Penalty Applied

5a. Prohibition Departure Order Issued / Lifted / Revoked

5b. Request Ship to Deliver All Waste: Insufficient Storage / Next Port Unknown / All Waste: PRF

6. Inspection Report

REPORT OF INSPECTION IN ACCORDANCE WITH **REGULATION (EC) No. 1257/2013 on Ship Recycling**

Inspection Particulars

Reporting authority of	Portugal	**Date of inspection**	28/05/2018
Port of inspection	Lisbon	**Date of report**	28/05/2018
Inspector(s)	Miguel Ricardo(	**Outcome**	Inspection on-going (Ship Recycling)
Report Signatory(ies)	Miguel Ricardo		

Ship Particulars

IMO number	[illegible]	**Name**	[illegible]
Ship Type	Other special activities	**Flag State/Registry**	Portugal
Keel laying date	26/06/1985	**Call sign**	
Gross Tonnage	2290	**MMSI**	

ISM Company

IMO number	[illegible]	**Address**	[illegible]
Name	[illegible]	**City, Country**	[illegible]

Statutory Certificates

Certificate	Issuing Authority	Issuing date	Expiry date	Surveying authority	Last survey date	Observation	Last survey place
Inventory Certificate[1]	Portugal - Portugal	28/05/2018					

Non-compliances 1 non-compliances

	Non-compliance	Nature of Defect	Observation	Actions	National Provision
1	Control Measures of Hazardous Materials	Not as required		11 - Ship detained	

Inspection Outcomes

Inspection Actions

Post-Boarding Info: Non-Compliances

Further information: *Documents > "PRF Directive 2019 883" folder* ***or*** *EMSA's PRF Inspection Guidance.*

Post-Boarding Info: Waste Receptacles

PRF inspectors may update this information as a supporting element to findings.

It may play a role for the future RBT, in particular, by cross-checking the reported AWN information with the information reported in the last inspection – e.g., Maximum Capacity.

Currently, **28%** of ships in service that have had a call in a EU port since 2020, have at least one detail of a waste receptacle reported by PRF inspectors. The number is expected to increase as more MSs progressively report PRF inspections in THETIS-EU.

Group	Type	Capacity [m3]	Level of filling [m3]
Cargo residues	Non	0.4	0
Garbage	Food Waste	0.48	0
Garbage	Domestic waste	0.48	0
Garbage	Operational waste	0.2	0
Garbage	Plastics	0.24	0
Garbage	Other - e-waste	0.2	0
Sewage	Non	50.68	0
Oil	Oily bilge water	13.55	0.4
Oil	Oily residues (sludge)	36.66	0.76
Garbage	Cooking Oil	0.01	0

Post-Boarding Info: Waste Disposal

To record information of which waste that has been disposed as found by inspector on-board:

- Garbage Record Book
- Oil Record Book
- Waste Receipt

To report where waste has been disposed as found on supporting documentation on-board:

- Sea Discharge
- Incinerated
- PRF

Post-Boarding Info: Statutory Certificates

Four PRF-related statutory certificates can be reported.

1) IOPP, **2)** International Pollution Prevention (NLS in Bulk), **3)** International Sewage Pollution Prevention, **4)** IAPP.

The **new addition**, with respect to the previous Directive, is the IAPP, in relation to the ozone-depleting substances (ODS) listed in the IAPP supplements.

3.

Future Developments

Overview of PRF-related information exchange

Future developments

Development in place

Advanced Waste Details / Waste Receipts: Future Pre-boarding Information

- **THETIS-EU to be receive from a future version SSN (v5) the following:**
  - Advanced Waste Notification as per Annex 2 to be communicated according to new waste types of the PRF Directive,
  - Waste Receipts as per Annex 3 to be communicated to SafeSeaNet,
- **When updating the elements "Waste Receptacles" or "Waste Disposal" in a PRF inspection — the new waste types as per Annex II are already available in THETIS-EU.**

RBT / Dedicated Storage Capacity
Future Pre-boarding Information

- **After the adoption of the implementing acts, THETIS-EU will be further enhanced support:**
  - Risk-Based Targeting mechanism for selection of ships to be inspected - more alerts will have to be implemented,
  - Indicator of Dedicated Storage Capacity (*UWC (%) = Amount Retained on Board / Max. dedicated storage capacity*) using the AWN as a supporting element,
- **The above is dependent on the new waste types to be reported in the "Advanced Waste Notification" in a future release of SafeSeaNet.**

Considerations on AWN/DSC

- **Even though THETIS-EU will have pre-boarding information on the "Advanced Waste Notification" & indicator "Dedicated Storage Capacity":**

  PRF Inspector still needs to check on board of the ship the elements indicated in the AWN/DSC and confirm & perform the calculation of dedicated storage capacity, because:

  - Ships may be exempted from reporting AWN,
  - Ships < 300 GT are out of the scope of VTMIS Directive,
  - Possible data-quality issues (missing/incomplete/inaccurate) with the AWN. SSN Data Quality Report (October/2021): 19% of the ship calls were missing Waste Notification (already factoring in waste notification exemptions).

EU PRF Facilities from CLD & Other Sources

- Currently, the PRF Inspector can indicate in THETIS-EU to which (EU/non-EU) PRF Facility the waste was disposed to,
- List of PRF Facilities are retrieved from other internal sources (MARINFO) or updated as a result in a request in the THETIS Helpdesk,
- In the future, **EMSA's Central Location Database (CLD)** will support the reporting of all (**EU**) PRF Facilities by MSs – similar to what occurs with IMO GISIS – and transmitted to THETIS-EU,
- **Non-EU** PRF Facilities may also be reported in THETIS-EU, as found in previous waste receipts. However non-EU PRF facilities will **not** be available in CLD.

PRF Incidents from SSN

- **SSN will allow the reporting of Waste Incident Type (which is triggered outside the scope of a PRF inspection),**
- **Waste Incidents reported through SSN will also be shared with THETIS-EU,**
- **In case of an incident, the risk of the ship will be higher,**
- **Waste Incident Type that will be available to be reported in SSN:**
- Advance Waste notification not reported (article 6),
- Waste not delivered (article 7.1),
- Waste receipt not reported (article 7.3),
- Vessel has sailed but not sufficient storage capacity (article 7.4),
- Other.

PRF Inspection Commitment

A new feature – "**PRF Inspection Commitment**" – will be available indicating to the Nat. Adm. the number of inspections to be carried out *vis-à-vis* the PRF inspections that have been actually reported in THETIS-EU.
To be made available in support of *Article 11 – Inspection commitments.*

Future Location: *Inspection Overview for THETIS Nat. Adm. & THETIS-EU Processors*

4.
Concluding Remarks

Concluding Remarks

- **Competent Authorities responsible for the enforcement of the PRF Directive can nominate one or more THETIS-EU PRF National Administrators,**
- **The nominated THETIS-EU National Administrators should be communicated to the THETIS Helpdesk (thetis@emsa.europa.eu)**
- **THETIS-EU Training Platform can be used at any time, and training accounts can be requested to the THETIS Helpdesk.**

THETIS-EU PRF Inspection Module will be continuously developed & enhanced also as a result of the feedback received in the THETIS Helpdesk from the end-users: thetis@emsa.europa.eu

Thank you for your time! Questions?

- twitter.com/emsa_lisbon
- facebook.com/emsa.lisbon

EMSA
European Maritime Safety Agency