



# Overview Of Pollution Control In Waterways And Sheet Ferry Harbor

Septiana Widi Astuti<sup>1</sup>, Muhammad Khairani<sup>2</sup>, Fisca Dian Utami<sup>2</sup>, Dwi Redha Mhaddats<sup>2</sup>

<sup>1</sup>Politeknik Perkeretaapian Madiun Indonesia

<sup>2</sup>Politeknik Transportasi Sungai, Danau dan Penyeberangan Palembang

\*email: septiana@ppi.ac.id

**Abstract.** The potential for environmental pollution can occur in shipping activities and port activities, therefore the Ministry of Transportation issued PM Number 58 of 2013. Based on conditions at the port, it was found that regulations were still not fulfilled, such as tools and materials for dealing with environmental pollution and the competence of port personnel. The purpose of writing this mandatory working paper is to determine the conformity of port conditions with applicable regulations. The method used in analyzing is gaps analysis where researchers compare actual conditions at the port with expected conditions in accordance with applicable regulations. Based on the results of the analysis, it can be concluded that the conditions at the Selamat crossing port are still not in accordance with PM Number 58 of 2013, so it is necessary to procure tools and materials to control pollution and increase the competence of port personnel.

**Keywords:** Countermeasures, gaps, Competencies

## 1 Introduction

In ferry transportation activities at ports, environmental pollution is often encountered due to shipping and port activities, therefore, in an effort to ensure maritime protection, the Ministry of Transportation issued Ministerial Regulation Number 58 of 2013 concerning the prevention of pollution in waters and ports. This regulation mandates that Port Authorities and Port Business Entities are required to provide environmental pollution control tools and must have pollution control personnel.

## 2 Research methodology

The research was carried out using descriptive qualitative methods, primary data was obtained through observation, interviews and questionnaires, then secondary data was obtained from PT. The data analysis technique in this research uses gap analysis. Gap Analysis a measurement method to determine the gap between the performance of a

© The Author(s) 2024

P. M. Latuheru et al. (eds.), *Proceedings of the International Conference of Inland Water and Ferries Transport Polytechnic of Palembang on Technology and Environment (IWOSPA-T&E 2023)*, Advances in Engineering Research 236,

[https://doi.org/10.2991/978-94-6463-484-6\\_12](https://doi.org/10.2991/978-94-6463-484-6_12)

variable and the expectations of that variable. In this research, researchers carried out analysis gaps regarding two aspects where the current conditions are in accordance with the regulations. The following two aspects include the fulfillment of equipment, readiness and competency of personnel.

### 3 Results and Discussion

#### 3.1 Data Presentation

Data is presented and described descriptively, data obtained from observations, questionnaire surveys and interviews. The questionnaire respondents were all personnel at the PT. ASDP Indonesia Ferry (Persero) Sheet Branch Ferry Port and the interview sources were the Sheet BPTD Class II Corps of NTB Province.

**Table 1.** Results of research survey regarding inventory of pollution control tools

No	Equipment	Condition of equipment in the field		Quantity
		There is	No	
1.	localizer(oil boom)		√	.... m
2.	suction device (skimmer)	Type:....tons/hour	√	.... Units
3.	temporary holding device (temporary storage)	Type:.... 3	√	....Units
4.	absorbent material (sorbent)	Type:....	√	.... Pcs
5.	decomposer(dispersant)	Type:....	√	.... Gallon

**Table 2.** Survey results regarding pollution control personnel

Name	Education	Task	Certificate countermeasures pollution
Andri Tri N	DIV	Squad Commander	There isn't any
Saharbini	SENIOR HIGH SCHOOL	Supervisory Officer arrival and Departure of the ship	There isn't any
Soidiannuruzaman	DIV	Checking Officer Lashing	There isn't any
Bahtiar Kusuma	DIV	Supervisory Officer arrival and Departure of the ship	There isn't any
I Made Sudiana	SENIOR HIGH SCHOOL	Checking Officer Manifest	There isn't any

Ridho Dharma L	DIV	LPS officer	There isn't any
Azwar Anas	DIV	Squad Commander	There isn't any
Dasa Limpah P	DIII	Sispro Manager Services Harbor	There isn't any
Pande I Kadeq S	SENIOR HIGH SCHOOL	Checking Officer Lashing	There isn't any
Rogil Ubaidullah	SENIOR HIGH SCHOOL	Checking Officer Lashing	There isn't any
Gilang Anggarianto	DIV	Checking Officer Manifest	There isn't any
Zakaria	SENIOR HIGH SCHOOL	Supervisory Officer arrival and Departure of the ship	There isn't any
Teuku Faisal R	DIII	Squad Commander	There isn't any
Then Rohma Adi	DIV	Checking Officer Manifest	There isn't any
Ida Wayan Bimantara	DIII	Checking Officer Lashing	There isn't any
Ansori Faith	DIII	Checking Officer Lashing	There isn't any
Muhammad Saleh	DIV	Checking Officer Lashing	There isn't any
I Gede Pasek Bachelor	DIII	LPS officer	There isn't any

### 3.2 Data Analysis

From table 1, it is known that pollution control equipment and materials at the port are not available at all so it is not in accordance with Minister of Transportation Regulation Number 58 of 2013. In the researcher's analysis, the PT ASDP Indonesia Ferry (Persero) Sheet Branch ferry port should have equipment and materials pollution prevention, remembering article 9 paragraph 1 of Minister of Transportation Regulation Number 58 of 2013 that ports are required to have pollution prevention equipment and materials. From table 2, the researcher assesses that the pollution prevention personnel at the PT.

### 3.3 Discussion

Based on the results of the data presentation in table 1 and the analysis carried out by researchers, it can be seen that the ferry port of PT. article 9 regarding the obligation to have pollution control equipment. Therefore, the researcher proposes that PT. . Based on the data presentation in table 2 and data analysis,

- a. Skills improvement training for BPTD Class II NTB Province Satpel Sheet Personnel.
- b. Recruitment of outsourced pollution control personnel by PT.ASDP Indonesia Ferry (Persero) Selamat Branch

## 4 Conclusion

### 4.1 Conclusion

Based on the analysis and discussion, the researchers drew conclusions from a review of pollution prevention in the waters and ferry ports of PT ASDP Indonesia Ferry (Persero) Selamat Branch. namely, the crossing port does not yet have pollution control equipment, which means it is not in accordance with Minister of Transportation Regulation Number 58 of 2013 article 9 which mandates that every port must have pollution control equipment and materials. Then the sheet crossing port does not yet have

pollution control personnel, which means it is not in accordance with Minister of Transportation Regulation Number 58 of 2013 article 7 paragraph 1 and article 7 paragraph 2 which mandates that ports must have competent pollution prevention personnel.

### 4.2 Suggestion

Suggestions that can be proposed in an effort to fulfill the Minister of Transportation Regulation Number 58 of 2013, and as input for operators and port authorities are as follows, the harbormaster carries out an assessment of potential pollution in accordance with the criteria in article 22 of the Minister of Transportation Regulation Number 58 of 2013. Then PT. ASDP Indonesia Ferry (Persero) Sheet Branch procures pollution control equipment and materials in accordance with pollution potential and BPTD Class II NTB Province proposes increasing the pollution prevention competency of personnel to the relevant directorate general or PT.ASDP Indonesia Ferry (Persero) Sheet Branch recruits employees outsourcing in the field of pollution control.

## Reference

1. Darmono. (1995). Logam Dalam Sistem Biologi Makhluk Hidup. Jakarta : UI Press.
2. Kementerian Perhubungan. (2013). Peraturan Menteri Perhubungan Nomor 58 Tahun 2013 tentang penanggulangan pencemaran diperairan dan pelabuhan. Kementerian Perhubungan. Jakarta.
3. Kementerian Perhubungan. (2015). Peraturan Menteri Perhubungan Nomor 39 Tahun 2015 tentang Standar Pelayanan Penumpang Angkutan Penyeberangan. Kementerian Perhubungan. Jakarta.
4. Kementerian Perhubungan. (2020). Keputusan Menteri Perhubungan Nomor 263 Tahun 2020 tentang Prosedur Penanggulangan Keadaan Darurat Tumpahan Minyak (Tier-3) dilaut. Kementerian Perhubungan. Jakarta.
5. Kementerian Perhubungan. (2021). Peraturan Menteri Perhubungan Nomor 39 Tahun 2021 tentang Perubahan atas Peraturan menteri Perhubungan Nomor 58 Tahun 2013 Tentang penanggulangan pencemaran di Perairan Dan pelabuhan. Kementerian Perhubungan. Jakarta.

**Open Access** This chapter is licensed under the terms of the Creative Commons Attribution-NonCommercial 4.0 International License (<http://creativecommons.org/licenses/by-nc/4.0/>), which permits any noncommercial use, sharing, adaptation, distribution and reproduction in any medium or format, as long as you give appropriate credit to the original author(s) and the source, provide a link to the Creative Commons license and indicate if changes were made.

The images or other third party material in this chapter are included in the chapter's Creative Commons license, unless indicated otherwise in a credit line to the material. If material is not included in the chapter's Creative Commons license and your intended use is not permitted by statutory regulation or exceeds the permitted use, you will need to obtain permission directly from the copyright holder.

