

PROSES PENCEGAHAN PENCEMARAN TUMPAHAN MINYAK (*OIL SPILL*) DIPELABUHAN OPERASIONAL PT.PERTAMINA SEI PAKNING

Nama Taruna : Syafiq Destiawan .H
NIT : 8103230011
Dosen Pembimbing : Dr.Hardiyanto, S.Pd., M.Si

ABSTRAK

Penelitian ini bertujuan untuk mengidentifikasi peralatan operasional pencegahan pencemaran minyak sesuai implementasi MARPOL serta menganalisis implementasi sistem pencegahan pencemaran minyak di PT Pertamina Trans Kontinental Port Sei Pakning. Penelitian menggunakan metode deskriptif kualitatif dengan teknik pengumpulan data melalui studi literatur, observasi, wawancara, dan dokumentasi. Penelitian dilaksanakan pada bulan Juni 2026, sedangkan data dianalisis secara deskriptif berdasarkan MARPOL Annex I, OPRC 1990, dan Peraturan Menteri Perhubungan Nomor 58 Tahun 2013. Hasil penelitian menunjukkan bahwa perusahaan telah memiliki peralatan utama *Oil Spill Response* yaitu: *Oil boom*, *oil skimmer*, *pollutank*, *dispersant*, *sorbent (pad, pillow, boom)*, *oil seaspray*. Serta implementasi sistem pencegahan pencemaran minyak telah dilaksanakan melalui penyediaan peralatan, pembentukan organisasi *Oil Spill Response* Tier-1, pelaksanaan *oil spill drill*, dan penerapan Standar Operasional Prosedur (SOP). Namun, masih diperlukan peningkatan jumlah peralatan, pemeliharaan, dan kompetensi personel untuk mendukung kesiapsiagaan operasional.

Kata kunci: Pencemaran Laut, Tumpahan Minyak, Pencegahan, Marpol, Peralatan Operasional

OIL SPILL POLLUTION PREVENTION PROCESS AT PT. PERTAMINA SEI PAKNING OPERATIONAL PORT

Cadet Name : Syafiq Destiawan .H
NIT : 8103230011
Advisor : Dr.Hardiyanto, S.Pd., M.Si

Abstract

This study aims to identify operational equipment for oil pollution prevention in accordance with MARPOL requirements and to analyze the implementation of the oil pollution prevention system at PT Pertamina Trans Kontinental, Sei Pakning Port. A qualitative descriptive method was employed, utilizing data collection techniques such as literature review, observation, interviews, and documentation. The study was conducted in June 2026, with data analyzed descriptively based on MARPOL Annex I, OPRC 1990, and Ministry of Transportation Regulation Number 58 of 2013. The results indicate that the company possesses key Oil Spill Response equipment, including oil booms, oil skimmers, pollutant tanks, dispersants, sorbents (pads, pillows, and booms), and oil sea spray systems. Furthermore, the oil pollution prevention system has been implemented through the provision of equipment, the establishment of a Tier-1 Oil Spill Response organization, the conduct of oil spill drills, and the application of Standard Operating Procedures (SOP). However, improvements regarding equipment quantity, maintenance, and personnel competence are still required to support operational readiness.

Keywords: Marine Pollution, Oil Spill, Prevention, Marpol, Operational Equipment