



A Brief Overview of Pipeline Regulations at Marine Oil Terminals

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California State Lands Commission Marine Facilities Division Pipeline Program Overview

- ◆ Brief History of Marine Facilities Division (MFD) Program
- ◆ Typical Marine Oil Terminal (MOT) Pipeline
- ◆ Overview of the MFD MOT Pipeline Regulation
- ◆ Areas for MFD Pipeline Program Improvement





Marine Facilities Division

Brief History

- ◆ The MFD was created to implement the State Lands Commission's responsibilities under the Lempert-Keene-Seastrand Oil Spill Prevention and Response Act of 1990
- ◆ The Act recognized the need to prevent oil spills into the Marine Waters of the State of California and to protect the public health and safety and the environment



Marine Oil Terminals in California

Marine Oil Terminals





Typical MOT Pipeline

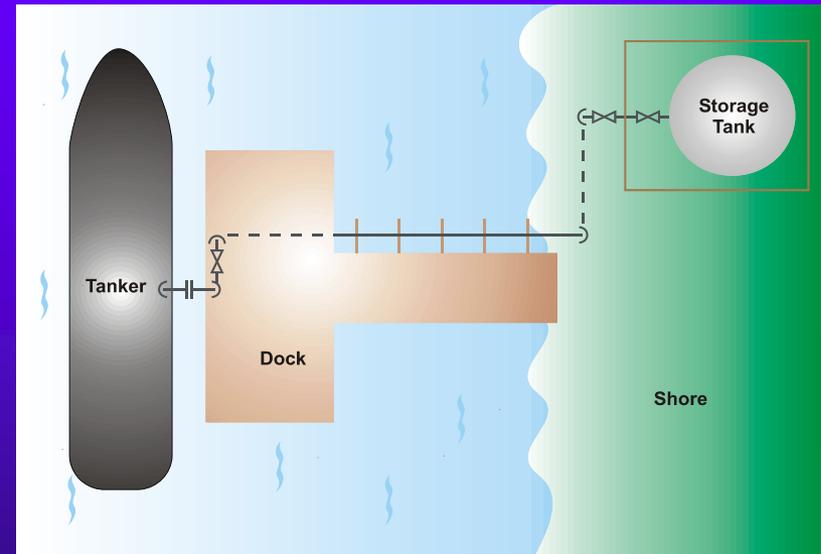
- ◆ Oil Service
- ◆ Over water
- ◆ 4 - 42" diameter <150 psi
- ◆ 40 - 240 °F





Typical MOT Pipeline Layout

- ◆ Differs from CSFM
- ◆ Location
- ◆ Length
- ◆ Configuration





Overview of the MFD MOT Pipeline Regulation Title 2, Division 3, Chapter 1, Article 5.5

- ◆ Required Pipeline Testing
 - ◆ Periodic Hydrotest (SLPT)
 - ◆ Triennial Wall Thickness Measurements
 - ◆ Visual Corrosion Survey





Areas Where MOT Static Liquid Pipeline Tests can Improve:

- ◆ Temperature measurement
- ◆ Documented conditions
- ◆ Medium modulus (SLPT using hydrocarbon medium)
- ◆ Review



Areas Where MOT Pipeline Preventative Maintenance Program (PMP) can improve:

- ◆ Documentation
- ◆ Pipeline Wall Thickness
- ◆ Internal audits
- ◆ Records
- ◆ Cathodic Protection System
- ◆ Procedures



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