Prevention First 2012

WesPac Pittsburg Marine Terminal

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Ben C. Gerwick, Inc. | COWI North America
Ports and Terminals, Oakland, CA
WesPac Pittsburg Marine Terminal

Project Participants

› WesPac Energy–Pittsburg LLC
  › WesPac Energy LLC
  › Oiltanking Holding Americas, Inc.

› Other Key Participants
  › GenOn – Power Plant Owner
  › City of Pittsburg – Lead Agency
  › Ben C. Gerwick, Inc. – Marine Structural Engineer
  › SPEC Services – Mechanical, Electrical, and Piping Engineer
  › TRC Solutions – Environmental Consultant
  › E2 ManageTech – Environmental Consultant
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Project Location
PG&E constructed the power plant in the 1950's to run on fuel oil or natural gas.

From 1973 to 1982, fuel oil was primary energy source, which led to tank farm and marine terminal expansion.

Subsequently, the fuel oil facilities were idled and the plant currently uses only natural gas.

Fuel oil infrastructure includes the Marine Terminal, Storage Terminal and pipelines.
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Proposed Project

› WesPac is reactivating the Marine Terminal and Storage Terminal to provide crude oil unloading and storage
› Project is needed to fill growing need for additional crude oil imports as California production declines.
› Key project components include:
  › Marine Terminal retrofit/replacement
  › Modernization of tanks
  › Replace/upgrade equipment
  › Construct new pipeline to connect to existing pipeline
On Shore Improvements – Storage Terminal

- New tank bottoms and internal floating roofs
- Replace all electrical and mechanical equipment
- New and retrofitted header lines
- Connections to KLM and San Pablo Bay Pipelines
- New control building & warehouse
- Stormwater & fire protection improvement
- Rail Unloading Facility
Existing Marine Terminal
WesPac Pittsburg Marine Terminal

Assessment of Existing Structures

› Key Considerations
  › Compliance with MOTEMS Requirements
  › Compatibility with WesPac Operational Requirements
  › Regulatory Implications

› Steps Performed
  › Above and Below Water Investigation
  › Geotechnical Investigation
  › Navigation Study
  › Operational Needs Assessment
  › Preliminary Suitability Determination
  › Developed a Path Forward for Each Structure
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New Terminal Design
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New Terminal Design
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Breasting Dolphins
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Existing Pipeway
New Pipeway
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Unloading Platform
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**Current Status**

- Design Submitted to the CSLC in February 2012
- Dredging and Structure Permit Applications Filed
- EIR in Progress
- Construction Planned for 2014