Tank 5 HISTORY

Tank 5 Fuel Release Was Caused By Human Error, Not Corrosion

TANK 5 RELEASE
- Tank 5 Passed The Biennial Leak Detection Test 29 June 2009, No Leaks
- Tank 5 Defueled For a Three-year Inspection and Repair Project, 1 Oct 2009
- Contractor Improperly Repaired Tank 5
- An API Inspector Certified Tank 5 Suitable for Service
- Navy Detected a Discrepancy, “Unscheduled Fuel Movement” 12 Jan 2014
- Release Was Reported To Regulators 13 Jan 2014

INCIDENT INVESTIGATION
- Poor Workmanship – Defective Welding Was Ineffective
- Contractor Quality Control
- Insufficient Navy Quality Assurance
- Tank 5 Was Incorrectly Certified “Suitable for Service”
- Government Failed To Acknowledge Alarms While Filling Tank

IMPROVED PROCESS
- Development of Tank Inspection and Tank Repair Specifications
  - Requires Improved Contractor Quality Control
  - Improved Standard of Care for Inspection and Repair
- Improved Navy Quality Assurance Process
- New Filling and Return to Service Instruction
- Tank 5 Was Completely Reinspected in 2017

The Tank Inspection Repair and Maintenance Report and Decision Report Provide Detailed Information

14 March 2018
The Administrative Order of Consent and Statement of Work has produced a Regulator approved Tank Inspection and Repair and Maintenance (TIRM) plan.

Detailed marking of a tank allows for a more precise/thorough inspection. This results in higher quality control and quality assurance.

This state-of-the-art technology identifies the difference between:

• Aesthetics – dents, etc. (non-actionable)
• Defects – welds, pits, etc. (actionable)
• Corrosion – depending on plate thickness (actionable/non-actionable)
• Redundancy – redundant measures in place

This process exceeds industry best practices and is being further refined/validated through destructive testing, Section 5 of the AOC

14 March 2018
There are many steps, challenges, and limitations to inspect and repair a Red Hill Tank.

**Steps**

A. Plan Project (~6 months)
   - Award contract
   - Develop requirements and documents

B. Inspection (~18 months)
   - Design an inspection
   - Clean and prepare tank for inspection
   - Inspect (structural, hydraulic, coating)
   - Manage data, determine required repairs

C. Repair (~10 months)
   - Modify contract
   - Repair tank fit for service

D. Return Tank to Service (~2 months)
   - Ensure documentation is thorough
   - Prepare tank for fuel
   - Execute fill plan

**Challenges**

- Active military operations
- Safety
- Size, geometry, access
- Security
- Complexity

**Limitations**

- Active military operation needs
- Demands for three fuel types
- Facility readiness
- Infrastructure criteria
- Acquisition regulations

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20 tanks in two rows

Two tanks are out of service

Three tanks undergo REPAIR at a time

The process continues until all tanks are completed

Three more tanks go into the repair process after the first three are returned to service

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The Tank Inspection Repair & Maintenance Report provides important detailed information.

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