

Aloha

Red Hill Bulk Fuel Storage Facility Update HONOLULU CITY COUNCIL



November 6, 2019



Secondary Containment

Navy/DLA are committed to finding a secondary containment solution

The technology doesn't exist today that would allow Red Hill tanks to be double-walled in a practicable manner. We are absolutely committed to finding a way to provide secondary containment or we will remove the fuel from Red Hill ~ 2045.



TUA Decision Layers of Protection

PREVENTION

1. Improving Tank Inspection Repair and Maintenance Program continuously
2. Recoating tank interior steel liners to prevent corrosion as specified by coating specialist
3. Decommissioning nozzles (piping at bottom of tank) to reduce risk
4. Enhanced contractor qualification process to improve tank inspection and repairs
5. Updated processes and procedures for inspection, testing, quality control, quality assurance
6. Upgraded procedures for returning tanks to service
7. Revised and standardized operator training

DETECTION

1. Conducting continuous (versus monthly) soil vapor monitoring
2. Conducting daily visual inspection of pipeline
3. Conducting manual fuel inventory trend analysis
4. Installing permanent enhanced release detection system in each tank
5. Increased tank tightness testing from annual to semi-annual, twice the state requirement
6. Improved fuel inventory monitoring using automated fuel handling equipment
7. Increased groundwater monitoring wells from eight to 15 since 2014; add eight more by 2021

MITIGATION

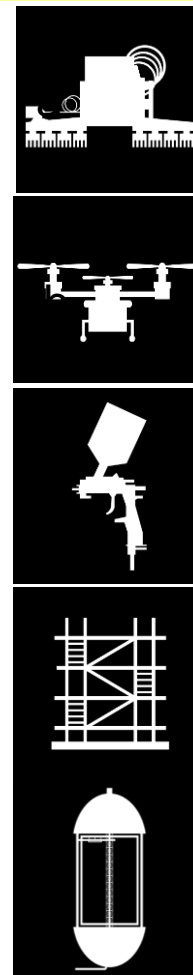
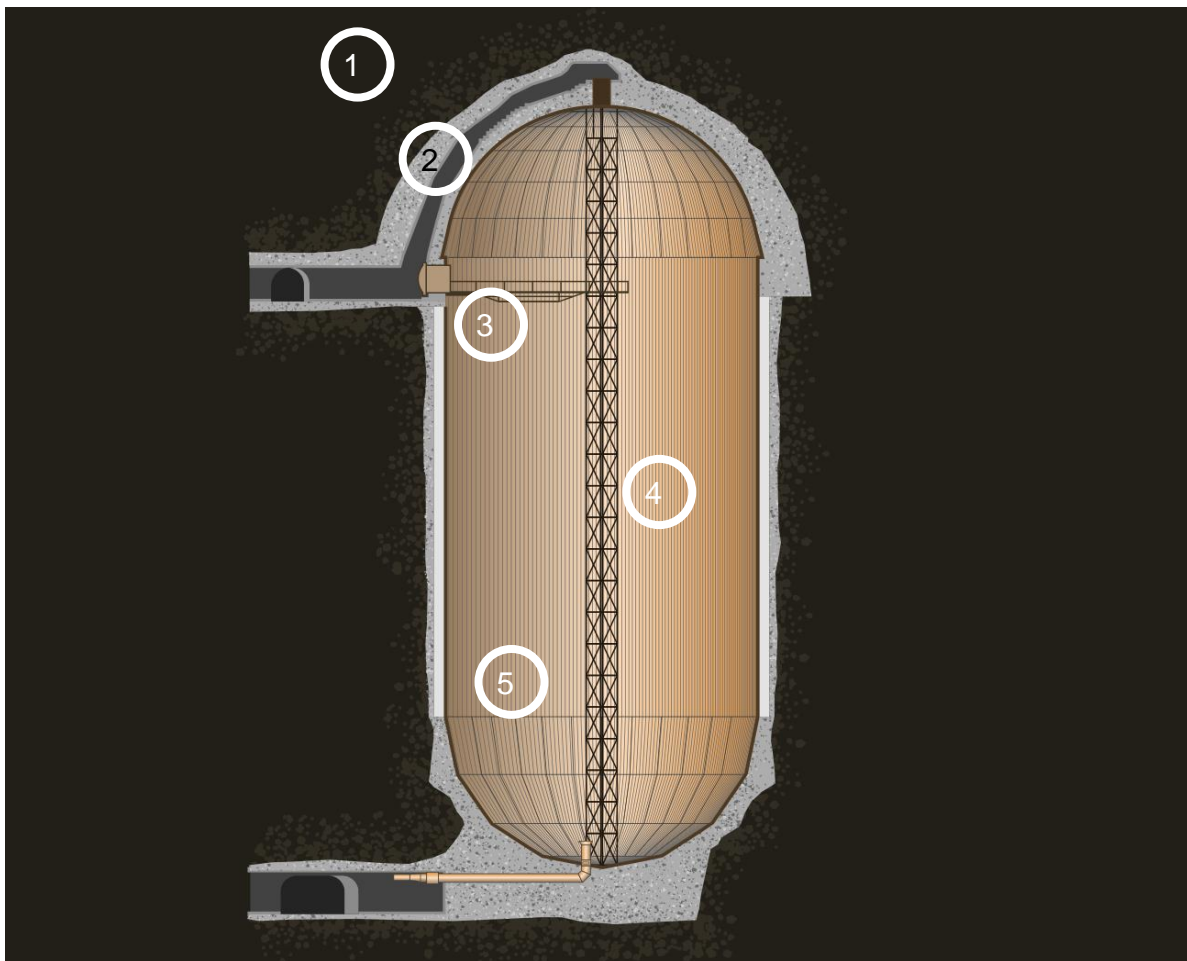
1. Determining feasibility for potential construction of water treatment plant
2. Improving release response procedures continuously



Navy/Industry/Academia Collaboration



Basalt
Concrete
Steel
Liner
Tank Interior
Secondary
Containment





Summary



- Water is safe to drink
- Tanks continue to pass semi-annual tank tightness tests
- AOC is working
 - Navy/DLA is held accountable to EPA and the State of Hawaii
- DoD invested \$162 million in the last 5 years to modernize the facility and protect the environment
- DoD anticipates investing a quarter billion dollars in the next 5 years
- DoD is committed to secondary containment or will defuel ~ 2045