



Public Meeting- November 19, 2019

Red Hill Fuel Storage Facility Tank Upgrade Alternatives and Release Detection

Presentations by:
Hawaii Department of Health
United States Environmental Protection Agency
United States Navy



Welcome and Thank You for Attending

Format for Tonight's Meeting

Part 1 ~ 30 minutes

Background and Water Protection

Hawaii Department of Health

Administrative Order on Consent
and Public Involvement

U.S. Environmental Protection Agency

Combined Tank Upgrade and
Release Detection Proposal

U.S. Navy

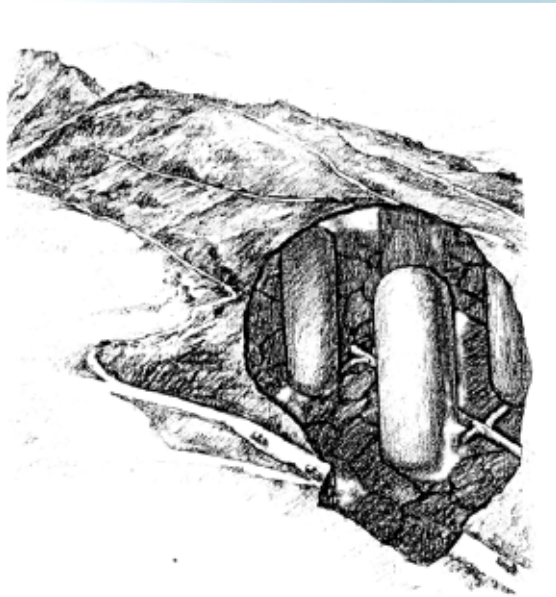
Transition to Public Comments Session

U.S. Environmental Protection Agency

Part 2 ~ 90 minutes- 120 minutes

Receiving Public Comments

Hearing Officer



Background

- In January 2014 the Navy reported a 27,000 gallon leak of jet fuel from Tank 5
- In response, the Hawaii Department of Health, U.S. EPA and U.S. Navy and Defense Logistics Agency entered into the Red Hill Administrative Order on Consent
- Objectives of the Red Hill Administrative Order on Consent
 - Ensure the Facility is operated and maintained in an environmentally protective manner
 - Ensure that groundwater and drinking water resources in the vicinity of the Facility are protected



Department of Health's Role in Water Protection and Oversight

- DOH protects Hawaii's drinking water resources and assures that safe drinking water is provided to the community
- DOH regulates owners and operators of public water systems that convey water to the community



Water Protection and Oversight

- DOH safeguards your drinking water
 - Administer drinking water and groundwater laws
 - Provide oversight of drinking water quality
 - Impose site-specific monitoring requirements
- DOH can also prevent the potential for contamination by regulating specific facilities, such as the Red Hill Fuel Storage Facility, through Administrative Orders





Red Hill Administrative Order on Consent

- Primary Objectives
 - Ensure that groundwater and drinking water resources in the vicinity of the Facility are protected
 - Ensure the Facility is operated and maintained in an environmentally protective manner
- How these Primary Objectives are achieved
 - Environmental Assessment
 - Infrastructure Analysis and Improvements

Red Hill Administrative Order on Consent

- Environmental Assessment
 - Investigation and remediation
 - Groundwater flow and contaminant analyses
 - Expanding the groundwater monitoring well network



- Infrastructure Analysis and Improvements

- Tank maintenance and operations
- Assessing factors that could result in releases
- Enhancing release detection and response
- Evaluating alternatives to improve the large storage tanks every 5 years



Tank Upgrade Public Involvement

Tank Studies Submitted
(Completed)

Public Information Workshop
(Completed)

Navy Proposes Upgrade
(Completed)

DOH & EPA
Public Meeting on
Navy Proposal
(Tonight)

DOH & EPA
Approve or
Disapprove Navy
Proposal

Submitted December 8, 2017

Held March 14, 2018

Proposed September 9, 2019



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DOH & EPA
Approve or
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Proposal

*Accepting comments until
December 9, 2019*

You will hear a short presentation on the Navy's tank upgrade proposal and then EPA and DOH want to hear from you.

Aloha

Red Hill Bulk Fuel Storage Facility Tank Upgrade Alternatives Decision Document



November 19, 2019



The Navy's Commitment



The proposed TUA Decision
accomplishes all three of these goals



The Navy's Objective

Finding a secondary containment solution

While the technology doesn't exist today that would allow Red Hill tanks to be double-walled in a realistic manner, we are absolutely committed to finding a way to provide secondary containment or we will defuel Red Hill in 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
8. Commitment to secondary containment

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

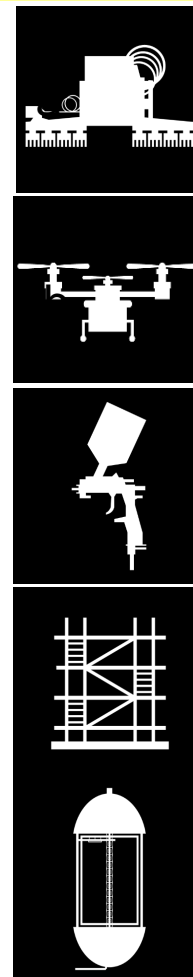
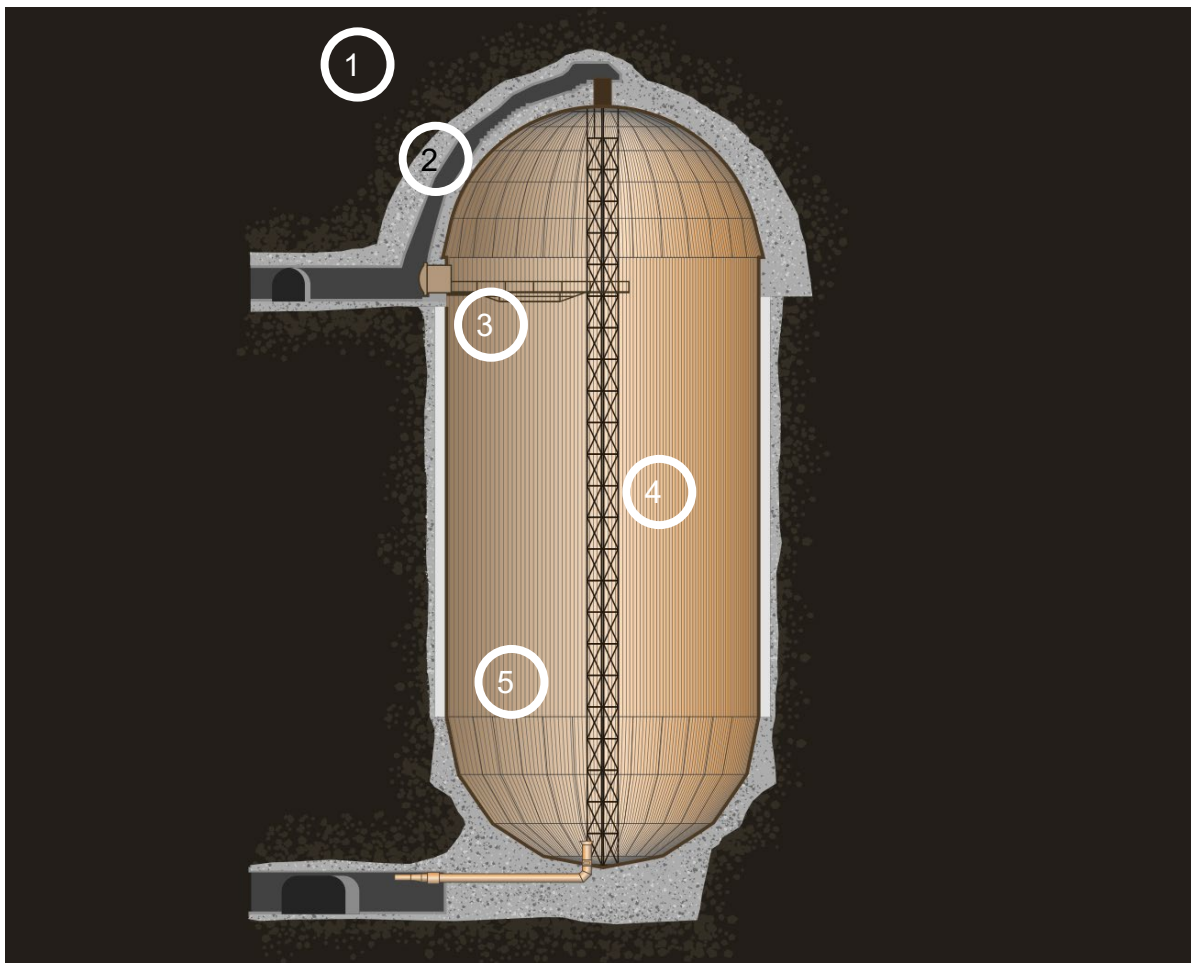
1. Determining feasibility for potential construction of water treatment plant
2. Improving release response procedures continuously



Navy/Industry/Academia Collaboration



Basalt
Concrete
Steel
Liner
Tank Interior
Secondary
Containment





Summary



- Substantial investments to protect drinking water
 - \$162 million over past five years
 - \$0.25 billion over next five years
- Red Hill: Secondary containment or defuel in 2045
- Water continues to be safe to drink
 - Routine water sampling/testing
- Tanks continue to pass semi-annual tank tightness tests
- AOC is working
 - Navy/DLA is accountable to EPA and the State of Hawaii
 - Navy/DLA meeting all AOC deadlines
- Red Hill fuel is critical to National Security and the people of Hawaii



Public Comments

- We'll take a short break to transition to the public comment portion of tonight's meeting
- Our hearing officer will explain how oral and written comments should be submitted



Public Comments

Public comment period closes on December 9, 2019

Written comments may be submitted to :

redhill@epa.gov or DOHrhcomments@HawaiiOIMT.onmicrosoft.com

OR

Attn: Red Hill

2827 Waimano Home Road, #100

Pearl City, HI 96782

For more information please visit:

<https://www.epa.gov/red-hill> or

<http://health.hawaii.gov/shwb/ust-red-hill-project-main/>