How “Not” to Manage an Oil and Hazardous Substance Spill Prevention and Response Program

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Petroleum Partners Project Sites
Environmental Plans and Training

- Hickam AFB
- FISC Pearl Harbor
- FISC Guam

Other DESC Project Sites:
- DFSP Korea
- San Juan, PR ANG
- U.S. Virgin Islands (PR ANG)
- Japan GOCO
- Okinawa GOCO
- Antigua AS
- Ascension AAF
- Aviano AB Italy
- Incirlik AB Turkey
- Eielson AFB
- Anchorage, AK ANG
- Fairchild ANG
- Fort Wainwright
- Fort Richardson

Other PP Locations:
- Amaty, Kazakhstan
- Baku, Azerbaijan
- Bratislava, Slovak Republic
- Shanghai, China
Objectives

• O&HS SPR Plans
• How “Not” to Manage an O&HS SPR Program
  - Common mistakes
  - Odds and ends
• Q&A
Oil Storage Inventory and Facility Diagram
Inspection/ Record-Keeping

API Standard 570 Inspection Report
and
API RP1110 Pressure Test Report
For Calendar Year 1999
in accordance with
State of Florida
Florida Administrative Code
Rule 62-761

Prepared for
Tyndall AFB
and
Defense Energy Support Center
DESC-FQ

Prepared by
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Used Cooking Oil

- A common oversight
  - Defined as a storage container
  - Inspections
  - Training
Used Cooking Oil – What “Not” To Do
Used Cooking Oil -
What “Not” To Do
Used Cooking Oil - What To Do
Transformers, Substations, and Generators

• Oil-filled electrical equipment
  – General containment/diversion
  – Inspections

• Internal tank for generator
  – Specific containment
  – Inspections
Transformers, Substations, and Generators - What “Not” To Do
Transformers, Substations, and Generators - What “Not” To Do
Transformers, Substations, and Generators - What “Not” To Do
Transformers, Substations, and Generators - What To Do
Impermeable Containment

- Deteriorating or failed
  - Concrete surfaces
  - Expansion joint seals
  - External liners
  - Coatings
Impermeable Containment - What “Not” To Do
Impermeable Containment - What To Do
Mobile and Portable Containers

- Containment
- Placement
- Inspections
Mobile and Portable Containers - What “Not” To Do
Mobile and Portable Containers – What “Not” To Do
Mobile and Portable Containers - What To Do
Piping and flex hoses pose the second most significant risk of fuel release.
Piping and Flex Hoses -
What “Not” To Do
Piping and Flex Hoses - What “Not” To Do
Piping and Flex Hoses - What “Not” To Do
Piping and Flex Hoses - What “Not” To Do
Piping and Flex Hoses - What To Do
Piping and Flex Hoses - What To Do
Pipe Support Design

- Properly design pipe supports to:
  - Minimize abrasion and corrosion
  - Allow for expansion and contraction
Pipe Support Design – What “Not” To Do
Pipe Support Design – What “Not” To Do
Pipe Support Design -
What “Not” To Do
Pipe Support Design - What To Do
Tank and Piping Protection

• Ensure oil storage and transfer elements are protected from vehicular activity
  - Traffic routing
  - Warning signage
  - Barriers
  - General placement
Tank and Piping Protection - What “Not” To Do
Tank and Piping Protection - What “Not” To Do
Tank and Piping Protection - What To Do
Tank and Piping Protection - What To Do
Hydrant Pits and Shop-Fabricated Fuel Tanks

- Surface and ground water intrusion
- Inspection
- Shop-fabricated fuel tank management
Hydrant Pits and Organizational Fuel Tanks - What “Not” To Do
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Hydrant Pits and Organizational Fuel Tanks - What To Do
Odds and Ends

• A grab bag of what “not” to do
• A grab bag of what to do
Odds and Ends - What “Not” To Do
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Odds and Ends - What “Not” To Do
Odds and Ends - What To Do
Odds and Ends – What To Do
Odds and Ends – What To Do
Odds and Ends - What To Do
Closing

Q & A