

## Red Hill Administrative Order of Consent Scoping Meetings

### Red Hill SOW Section 2 - Tank Inspection, Repair, Maintenance (TIRM) Scoping Meeting AGENDA 11/30/2015

Navy/DLA Facilitator: Terri Regin  
Meeting Minutes: Terri Regin

#### **A. Introductions/Opening Remarks/Section Agenda Review & Changes:**

- Navy/DLA
  
- EPA
  
- DOH

#### **B. Contents of Tank Inspection, Repair, and Maintenance Procedures Report (refer to section 2.2 of AOC SOW)**

##### **1. Discuss of Lessons learned from Tank 5 and related modifications to current procedures;**

- a. NAVFAC to provide their analysis of Lessons Learned
  - 1) Lessons learned are human-factor issues with QC
  - 2) The Govt relied too much on KTR QC.
  - 3) Release was not attributable to corrosion-related defects.
- b. EPA/DOH to provide their report
- c. Discussion on way forward in providing the analysis.
  - 1) What current documents are required to gain consensus.
  - 2) What changes to our process is required to substantiate the analysis.

##### **2. Discussion on Improving current TIRM:**

- a. Quality Control and Assurance of TIRM;
  - 1) Improve DoD criteria for Contractor Quality Control for test personnel, equipment, data recording, data prove-ups, analysis of data, etc.
  - 2) Improve DoD Criteria for Submittal requirements for API 653 Inspectors, welders, NDE technicians, materials,
  - 3) Improve DoD Criteria for procedures for welding, NDE, etc.
- b. Discussion of improving the QC & QA of Inspection Report and recommended repairs
- c. Discussion of development and execution of a QA Plan to review the Contractor's QC responsibilities.
- d. Discuss NAVFAC BMS for Quality Assurance

### **3. Discussion for improving the TIRM procedures**

- a. Discuss the development of a UFGS for tank inspection
  - 1) Provide QC criteria for the inspection design & personnel
  - 2) Performance requirements for establishing corrosion rate
  - 3) Performance requirements for determining tmin
  - 4) Provide requirements to repair tank after destructive testing
  - 5) Provide submittal requirements
  - 6) Provide material criteria
  - 7) List is to be expanded.
  
- b. Discuss the development of a UFGS for tank repair
  - 1) Require design of repairs prior to mobilization by an API 653 certified engineer experienced in repair of the Red Hill Tanks
  - 2) Require QC requirements for the design and personnel
  - 3) Refer to coating specification for coating
  - 4) Refer to welding specification for welding of pipelines
  - 5) Develop welding criteria for welding of tanks
  - 6) Provide material specifications (type of steel for patch plates)
  - 7) Provide requirements for repair

### **4. Schedule/frequency of modified American Petroleum Institute (“API”) 653 tank inspections, repairs, and maintenance.**

- a. The GOVT is more Risk Adverse than API RP 580
  - 1) mission requirements, Self-insured, Public, FAR requirements
- b. The suggestion of performing a CIR tank project continuously (similar to the Golden State Bridge inspect/repair project) can be investigated.
  - 1) Discuss Inspection/Repair procedures vs time vs # tanks that can be taken out at a time.

### **5. Current TIRM procedures:**

#### PART I - INSPECTION

- a. Non-destructive testing –
  - 1) LFET, BFET, UT, MT, Dye Penetrant, Pressure Test, Vacuum Test
  - 2) Provide equipment capabilities/reliabilities and personnel qualifications requirements
  - 3) Provide the procedure in performing the testing

- 4) Provide the safety hazards involved during the testing
- 5) Provide the environmental controls equipment required
- 6) Provide the electrical requirements to maintain the environmental controls & equipment.
- b. Destructive testing
- c. Quality control
- d. Welding
- e. Tank inspections
- f. Pipeline inspections
- g. Recommissioning (after maintenance or repair of tanks taken temporarily out of service);

**PART II - REPAIR**

- a. Non-destructive testing –
  - 1) UT, MT, Dye Penetrant, Pressure Test, Vacuum Test
  - 2) Provide equipment capabilities/reliabilities and personnel qualifications requirements
  - 3) Provide the procedure in performing the Repairs
  - 4) Provide the safety hazards involved during the Repairs
  - 5) Provide the environmental controls equipment required
  - 6) Provide the electrical requirements to maintain the environmental controls & equipment.
- b. Destructive testing – Not performed for Repairs
- c. Quality control
- d. Welding
- d. Tank Repairs
- e. Pipeline Repairs
- f. Recommissioning (after maintenance or repair of tanks taken temporarily out of service);

**PART III – MAINTENANCE**

- a. Alarm operation and testing

**6. Actions that can be taken throughout the facility, as soon as practicable, to reduce risk of release that can be implemented independent of tank upgrades.**

- a. Continue with inspections
- b. Use new criteria documents
- c. Adapt new QC and QA processes
- d. Incorporate new NAVSUP instruction to return the tank to Service.

- e. Work with Teams working on Tasks 3, 4, and 5 and incorporate findings into TIRM as appropriate

***C. Action Items***

***D. Additional Scoping Meetings Required?***

***E. Schedule***