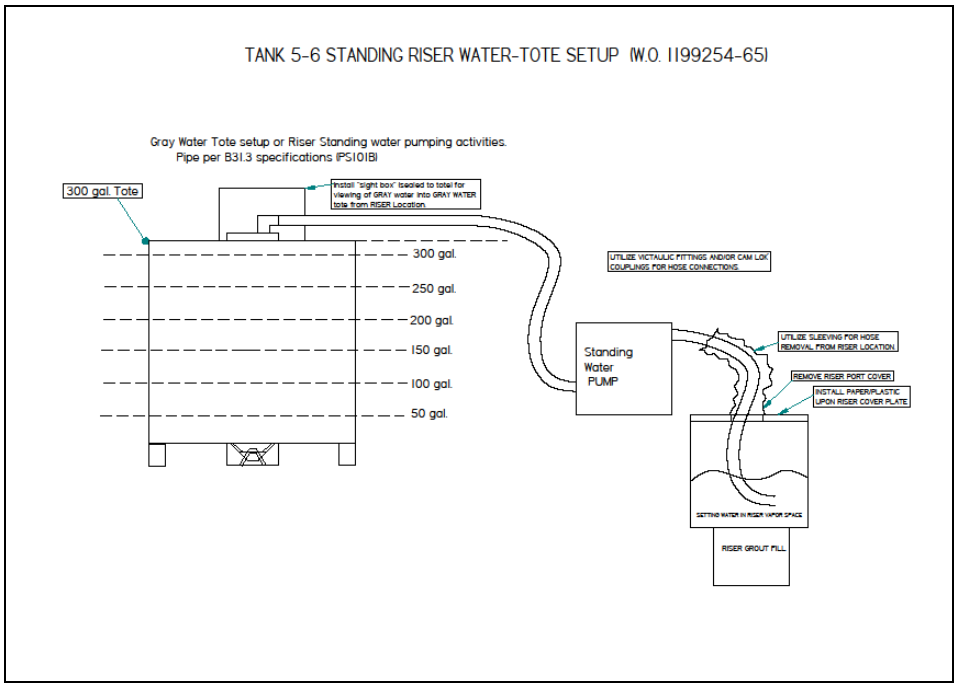
Passport Information

Date Created	12/05/2013
Planner Name	Alexander, Ona
Planner Telephone	2-3011
Equipment Name	Tanks 5 & 6
Facility	FTF
CLI Number	241905 & 241906
Functional Class	PS

1.0 Scope of Work:

This scope of work covers activities for Tanks 5 & 6 various risers to remove standing water in risers. Water exists on top of tank grout fill in various riser locations and must be removed prior to or during riser grout activities.



AHA Number **TF- 16117 R/0**					Drawing			
Pre Job Briefing Checklist **OPS-SO-LWO.01**					Procedure			
SRWP	**NA**	OR	Job Specific RWP	**170**	Calibration Datasheet			
Permits HLW-CL-2013-00138					ASME B31.3:	**X**	Yes	No
Fluid Service: Category: D Normal Category: M								
Additional Attachments: SEE SECTION 7.0. OF THIS WORK ORDER., Attachment "F" Tote Change Out								

2.0 Precautions and Limitations:

2.1. Workers are required to review and sign in on appropriate RWP (identified by RPD).

2.2. Warning barricades are required for work areas to control unauthorized access to the work area, identify hazards associated with work, and prevent personnel contact with falling objects and moving parts of equipment.

2.3. Housekeeping should be performed before, during, and after work activities. Promptly remove debris, unnecessary tools, materials, and equipment, as the job progresses.

2.4. Personnel should not attempt to lift more than they are capable of lifting. If equipment is hard or awkward to handle, mechanical means (e.g., forklift, pallet jack) should be used and/or additional personnel should perform the task.

2.5. Any electric powered tool/equipment that will be used shall be connected to a Ground Fault Circuit Interrupter (GFCI) protected outlet.

2.6. If unexpected loss of localized ventilation or improper air flow occurs, place job in a safe condition, exit the area, and **NOTIFY** RCO FLM, PIC, and IH for path forward _____/_____

3.0 Prerequisites:

3.1. FLM: **ENSURE** the following permits are available to support the scope of work.

RWP/SRWP #: **RWP# 13-FTF-170**
AHA #: **TF- 16117 R/0**

_____ _____ _____
Print Name Signature Date

3.2. Engineering: **ENSURE** that USQ's have been approved and issued for tank grout placement.

USQ Number: **USQ-FTF-2013-00348** Revision Number: **___0____**

ENG: _____ _____ _____
Print Name *Signature* *Date*

NOTE: Pre-job briefing shall identify persons/positions responsible for spill response.

3.3. Construction: **PERFORM** a pre-job briefing per OPS-SO-LWO.01. _____/_____

3.4. Construction: WGS to **ENSURE** AHA Hazards and Controls are **REVIEWED** with craft personnel prior to start of work activities. _____/_____

3.5. Construction: **NOTIFY** GCO for a container request at least 48 hours prior to performing work. ☐

3.6. Construction: **NOTIFY** IH 24 hrs. prior to performing work. ☐

3.7. Construction: **NOTIFY** RPD prior to performing work to ensure no tank top work scope conflicts exist. ☐

3.8. Construction: **NOTIFY** Camera Inspection Crew
(Contact: Danny Blair 803 335-8094) ☐

3.9. Construction: **CONTACT** Shift Manager prior to start of work activities. (8-8936) ☐

3.10. Construction: **REQUEST** the Shift Manager to evaluate entry into any and all appropriate LCO(s) prior to starting work:
Shift Manager Signature _____Date _____ _____/_____

3.11. Construction: **ENSURE** RPD has performed the necessary steps to ensure proper radiological controls are in place, including the following;

- Air samplers set up.
- Barricades in place.
- Monitor points and step off pads in place.
- Hoses and cords crossing rad. boundaries tagged and secured. ☐

4.0 Task Performance: **Initial/Date**

4.1. Construction: **INSTALL** barricades and postings as required per 8Q Procedure 9. _____/_____

4.2. Construction: **CONTACT** RCO prior to activities involving breaching riser plates. _____/_____

Note 1: All Flammability and Mercury Vapor sampling will be performed in the Tank 5-6 Grout Placement packages with respective attachments completed.

Note 2: Refer to Attachment "F" for Gray Water Tote Change Out activities.

Note 3: RCO may utilize Invisible Blue (MSDS 34146-1) for potential contamination issues inside riser enclosures. Personnel to keep distance when spraying activities are performed.

Note 4: Localized ventilation is required for all open riser activities to include plug removal and installation and removal.

Note 5: RPD will perform step 4.3. Concurrently with steps 4.4. through 4.16.

*****RADCON ACTION STEP*****

4.3. Construction: **ENSURE** RPD performs a contamination survey of the work area (Tk5 & 6 Riser plate Locations) prior to and during ***riser port opening and pumping activities.***

IF radiological conditions are greater than any of the following levels:

Contamination (dpm/100cm2)		Probe	Dose Rate (mrem/hr)			Airborne	
200	α	ND	α	NA	Extremity	N/A	
1000	βγ	50,000	βγ	NA	Skin		
Riser plate, port openings/sleeving, hose exterior		On line to tote		5	WB Working Rate		

THEN SUSPEND work activities and place area in a safe condition. **NOTIFY** LWGS, RCO FLM and Shift Manager for path forward.

Construction: **RECORD** Action Taken: (Note: N/A if levels not exceeded)

_____

Construction: _____ RPD _____ _____/_____

4.4. Construction: **SETUP standing water pump** equipment to include all hoses on supply and return side of pump and gray water tote connections. _____/_____

Task Performance continued: **Initial/Date**

4.5. Construction: **ENSURE** all hose joints on the supply side of pump are bagged w/absorbents prior to pump start-up. ____/____

4.6. Construction: **ENSURE** sleeving is installed upon standing water pump hose per RCO recommendations prior to removal of riser port cover. ____/____

4.7. Construction: **PLACE** a HEPA filtered Copus Blower at the source (riser opening) to be used during plug removal and hose removal from risers. The circular duct should, at a minimum, be within one duct's diameter from the source of contamination. ____/____

4.8. Construction: **REMOVE** riser cover port plug & **INSERT** Standing water pump hose into riser. ____/____

4.9. Construction: **SEAL** Sleeving to riser plate when port cover has been removed. ____/____

4.10. Construction: **PUMP** standing water from riser location to gray water tote location until no water is seen entering gray water tote. ____/____

4.11. Construction: **SHUT DOWN** pump and allow for water in hose to run back to riser. ____/____

4.12. Construction: With RCO concurrence, **REMOVE** Standing water pump hose, sleeving as hose is removed from riser port and ensure hose end is wrapped and secured. ____/____

4.13. Construction: **REPLACE** port cover and seal per RCO recommendations. ____/____

4.14. **Construction: REPEAT Steps 4.3. thru 4.12. until all risers on Tanks 5 and 6 are free of standing water.** ____/____

4.15. **Document as standing water removal is complete per riser as follows (N/A risers not pumped):**

Tank 5 Risers:

4.15.1. **Riser 1 LWGS Initial/date** ____/____

4.15.2. **Riser 2 LWGS Initial/date** ____/____

4.15.3. **Riser 3 LWGS Initial/date** ____/____

4.15.4. **Riser 4 LWGS Initial/date** ____/____

4.15.5. **Riser 5 LWGS Initial/date** ____/____

4.15.6. **Riser 6 LWGS Initial/date** ____/____

Task Performance continued: **Initial/Date**

4.15.7. **Riser 7 LWGS Initial/date** _____/_____

4.15.8. **Riser 8 LWGS Initial/date** _____/_____

4.15.9. **Riser N LWGS Initial/date** _____/_____

4.15.10. **Riser S WLGS Initial/Date** _____/_____

4.15.11. **Riser S LWGS Initial/date** _____/_____

4.15.12. **Riser E LWGS Initial/date** _____/_____

4.15.13. **Riser W LWGS Initial/date** _____/_____

4.15.14. **Annulus Inlet LWGS Initial/date** _____/_____

4.15.15. **Annulus Exhaust LWGS Initial/date** _____/_____

Tank 6 Risers:

4.15.16. **Riser 1 LWGS Initial/date** _____/_____

4.15.17. **Riser 2 LWGS Initial/date** _____/_____

4.15.18. **Riser 3 LWGS Initial/date** _____/_____

4.15.19. **Riser 4 LWGS Initial/date** _____/_____

4.15.20. **Riser 5 LWGS Initial/date** _____/_____

4.15.21. **Riser 6 LWGS Initial/date** _____/_____

4.15.22. **Riser 7 LWGS Initial/date** _____/_____

4.15.23. **Riser 8 LWGS Initial/date** _____/_____

4.15.24. **Riser N LWGS Initial/date** _____/_____

4.15.25. **Riser S LWGS Initial/date** _____/_____

4.15.26. **Riser E LWGS Initial/date** _____/_____

4.15.27. **Riser W LWGS Initial/date** _____/_____

4.15.28. **Annulus Inlet LWGS Initial/date** _____/_____

4.15.29. **Annulus Exhaust LWGS Initial/date** _____/_____

Task Performance continued: **Initial/Date**

Note 1: RPD will perform step 4.16. Concurrently with steps 4.17. through 4.19. when all riser pumping has ceased.

Note 2: Constr. will ensure water in pump supply hose falls back into riser vapor space after pumping. Pump is to be elevated to ensure water in return hose falls back into tote after pumping.

Note 3: For radiological purposes, no line breaks are to be made to pump configuration. Every attempt to rid supply/return hoses of water should be made. Pump assembly w/hoses intact, will be disposed of per GCO direction.

*****RADCON ACTION STEP*****

4.16. Construction: **ENSURE** RPD performs a contamination survey of the work area (Tk5 & 6 tote location) prior to and during ***pump/ hose assembly removal and disposal***

IF radiological conditions are greater than any of the following levels:

Contamination (dpm/100cm2)		Probe	Dose Rate (mrem/hr)			Airborne	
200	α	ND	α	NA	Extremity	N/A	
1000	βγ	50,000	βγ	NA	Skin		
Pump connections @riser and tote.		On line to tote		5	WB Working Rate		

THEN SUSPEND work activities and place area in a safe condition. **NOTIFY** LWGS, RCO FLM and Shift Manager for path forward.

Construction: **RECORD** Action Taken: (Note: N/A if levels not exceeded)

_____

Construction: _____ RPD _____ _____/_____

4.17. Construction: **ENSURE** supply/return hoses are drained as described in notes at top of page. _____/_____

4.18. Construction: **REMOVE** pump assembly, bagging hose ends per RCO direction. _____/_____

4.19. Construction: **DISPOSE** of pump assembly per GCO directions. _____/_____

Task Performance continued: **Initial/Date**

4.20. Construction: **CONTACT** RPD to perform surveys prior to removing tools/materials from radiological work area. ____/____

NOTE: All low-level waste should be packaged for disposal by Waste Generator and verified by Waste Verifier prior to disposal.

4.21. Construction: **PERFORM** housekeeping activities as follows: ____/____

- **CLEAN** tools used.
- **REMOVE** waste and/or excess material generated from work activities.
- **DISPOSE** of waste per GCO/Waste Verifier directions.

5.0 Post Maintenance Testing & Return to Service:

N/A

6.0 Post Work & Feedback:

6.1. Construction LWGS/PIC: **PERFORM** a post job walk-down to verify all work is completed for this task. ____/____

6.2. Construction CDE: **CHECK** the work package for completeness and ensure all documents used during the job are identified on the P211 Work Package Print Report in section Print Report - Work Order Record Documents (M102 / M104) or, if added during work execution, identified in Documents added to work package in field. ____/____

6.3. Construction: **ENTER** any feedback including field revisions and recommendations for improvements for future work in Passport OR NA if no feedback applies (CO Comments - Mechanic Feedback to be addressed by Work Control). ____/____

6.4. Construction CDE: **ENSURE** all MT&E has been documented in the work package and the MT&E Log has been properly completed CDE and/or QCE may initial/date. This step may be marked N/A with justification statement and initialed/dated by the CDE if no MT&E was used. ____/____

7.0 Attachments / References:

- 1199254-18 (TK.6) AND 1199252-30 (TK.5) GROUT FILL PACKAGES
- RISER SIGN-OFF SHEET 1 FOR TANKS 5 & 6 (PORT PLUG REMOVAL)
- RISER SIGN-OFF SHEET 4 FOR TANKS 5 & 6 (RISER PLACEMENTS)
- TANK 5-6 RISER STANDING WATER PUMP- TOTE SETUP SKETCH
- Attachment “F” Tote Change Out