

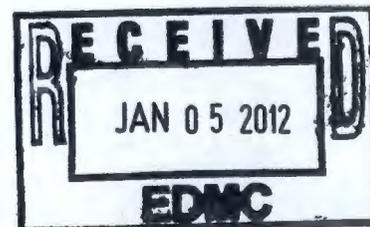
**Meeting Summary for ORP and Washington State Department of Ecology
December 2011 Tank Farms SST Project Managers Meeting**

Date held: December 20, 2011 7:30AM-9:00AM in ORP Room 2200

Subject: Summary and Discussion of the ORP Tank Farms Single-Shell Tank (SST) Activities

Representatives from the Project Management Teams of ORP and Ecology (see Attachment A for list of attendees) met on December 20, 2011 to discuss agreements, issues, and actions of the following, on-going Tank Farms Hanford Federal Facility Agreement and Consent Order (HFFACO or Tri-Party Agreement) and Consent Decree (CD) SST Activities (ORP presenters are listed in parenthesis):

- SST Corrective Action for WBS 5.2 Retrieve and Close Single Shell Tanks (Bob Lober)
- SST Retrieval and Closure Program TPA and CD Activities (Chris Kemp)
- Tank in Appendix H Status (Chris Kemp)
- C-Farm Retrieval Schedule (Kathy Higgins)
- Tank Retrievals with Individual Milestones (Chris Kemp)
- SST Integrity Assurance (Jeremy Johnson)
- Tank Operations Contract Overview (Dan Knight)



Questions and discussion among the ORP and Ecology representatives resulted in an update and/or extension of several existing work agreements, issues, and actions as well as several additional follow-on actions (see Attachment B). Further details for all ORP TPA and CD programs will be released in the full TPA and CD Monthly Reports for December 2011, which will be posted to the TPA Administrative Record.

ORP also provided 2 handouts in response to previous Ecology requests: 1) Answers for Ecology Baseline Questions (see Attachment C); and 2) SST Integrity Milestones and Target Dates Remaining Work Scope Durations (see Attachment D).

The following ORP/Ecology Tank Farm Project Managers were in attendance and agree this summary and attached documents reflect the actual occurrences of the Tank Farms SST Project Managers Meeting for December 2011.



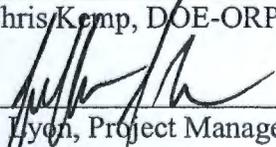
Bob Lober, DOE-ORP

Date: 1-4-12



Chris Kemp, DOE-ORP

Date: 1-4-12



J. Lyon, Project Manager,
Washington State Department of Ecology

Date: 1-4-12

Attachment A, List of Attendees

1 Page

**Attachment B, ORP/Ecology TPA and CD Agreements, Issues, and Actions
Updates for December 2011**

1 Page

ORP/Ecology TPA and CD Agreements, Issues, and Actions Updates for December 2011

Agreements:

1. Resolution of M-045-101 is extended to 01/31/2012 to crosswalk with the permit.
2. M-045-80 (Items 2, 3, and 4) – Ecology and ORP agree to extend submittal and response to Ecology comments to 01/31/2012.
3. M-045-81 – Ecology and ORP agree to extend submittal and response to Ecology to 01/31/2012 contingent on disposition of RCRs.
4. Quick turnaround results from vadoze zone data will be discussed in C-101 TWRWP (linked to Action 10).
5. Tentative agreement between ORP and Ecology for approval of Waste Management Area C Closure Demonstration Project Plan, Revision 3, pending Ecology Senior Management approval.
6. ORP will meet with Ecology to discuss work priorities if/when funding appropriations are received to discuss work priorities, tentative for end of January/early February.

Issues:

1. Agreement on content/format of CD Tank Completion Certification is needed. Meetings have been held on 12/12/2011 and 12/19/2011. The next meeting is scheduled for 01/09/2012.

Actions:

1. ORP will submit change notice for M-045-92B specific to monitoring plan, scope, and schedule for TY Barrier. Actionee: Bob Lober. **Open. 12/07/2011 meeting discussed this action (minutes signed for TPA AR). Anticipated date for change notice submittal is mid-January.**
2. Brief Ecology on Sample Analysis/Validate C-101 and C-104 post May 2012. Actionee: Bob Lober. **Open.**
3. Continue meetings on RFI nature and extent sections/CMS between ORP and Ecology. Actionee: Bob Lober. **Open.**
4. Ecology provide a date to submit comments on WIR Process Description for M-045-80 Item 1. Actionee: Jeff Lyon. **Closed. RCR provided on 12/05/2011 via Ecology Letter 11-NWP-146, tentative ORP response to RCR is 01/31/2011.**
5. Ecology will review ORP's response to Ecology's (Lyon) questions on Baseline clarification [Handout given by Jeff Lyon]. Actionee: Jeff Lyon. **Open.**
6. Ecology and ORP will meet to discuss meaning/interpretation of CD definition of practicability. Actionee: Chris Kemp. **Closed. Meetings on-going under Issue 1 above.**
7. ORP will provide Ecology the red-flag tank numbers for SST and DST system from initial report on plutonium particle size issue. Actionee: Chris Kemp. **Open.**
8. ORP will send the Ramen Report to Ecology. Actionee: Chris Kemp. **Open.**
9. ORP will prepare and work with Ecology to sign a change package for target dates M-045-91F-T01 and M-045-91G-T03. Actionee: Jeremy Johnson. **Open.**
10. ORP/WRPS will setup meeting to discuss the TWRWP Revision for C-101. Actionee: Jeff Luke. **Open.**

Attachment C, ORP Answers for Ecology Baseline Questions

3 Pages

Line Item	Name	Addition Information	Answer
General	Precursor/Dependant/Independent	None noted does USDOE have that in the Baseline?	Yes the schedule contain predecessors and successors.
General		What is the definition of "Critical (After)"	The critical path is a series of activities that determines a projects completion time. The duration of the activities on the critical path controls the duration of the entire project; a delay to any of these activities will delay the finish date of the entire project. Critical activities are defined by either the total float or the longest path in the project network.
5.3.9.5.4.1	Tc-99 recycle LAW	What are the criteria that be be used for the SOW	Determine the retention of technetium (Tc) in WTP LAW glasses during the vitrification process when recycle is included. As assessment will be made of the summary incorporation of Tc in ILAW and the accumulation in the recycle stream of volatile species and any consequent effects on salt formulation. Testing will be performed at bench and pilot scales using two different Joule-heated ceramic melter systems. Deliverable will be completion of the Final DM10 Test Summary Report and Completion of the DM1200 test Operations and Tc Retention Project Report.
5.3.1.7.1.1	Prelim. WFD Flow-sheets	Provide deliverable to Ecology (100% complete), define and provide elements of this WBS	Document being provided
5.2.1.1.2.1	SST Ret, Operator Training	Provide detail, is it being impacted by the layoffs.	This activity provides annual training for a 3 year ramp up to hire and train single-shell tank retrieval/closure crews to support multiple SST retrieval operations. It includes classroom training and on-job training, and training at the Cold Test Facility using a SST simulator. It is not effected by the layoffs.
5.2.4.1.1.1	C2.2.2.2-1 integrated SST WMA closure plan	Provide deliverable to Ecology (100% complete), define and provide elements of the WBS	This task is a contract deliverable to ORP which is a publically releasable information summary-level assessment, which addresses EIS, regulatory approach(es), retrieval objectives, closure demo workslope, CMS, integration with continuous sites and pipelines within an integrated context (RPP-PLAN-40761). The Integrated SST WMA Closure Plan also serves as a means to articulate the level of uncertainty in closure applicable to WMA and between WMAs and how assumptions, scope and schedule change is updated yearly.
5.2.5.6	Tier 3 Closure plans (7)	Definition and elements of schedule/costs, @160 days per tank and 96 days for comments	This element encompasses the development and submittal of a Tier 3 RCRA Closure plan to support component closure of individual tanks and ancillary equipment.
5.1.1.4.1.1	Core Procedure Program	Definition and elements	This element provides development, delivery and maintenance of all procedures for the Tank Operations Contractor. This work is performed by WRPS Technical writers and editors.
5.3.7.3.2.1	Semi-annual ORR	Provide deliverable - WTP ORR annual report	WRPS will conduct a continuing in-process review of WTP operational readiness to promote contractor understanding of and planning for future WTP operations. WRPS will work with WTP to resolve any operational issues which surface and support and efficient turnover of completed WTP facilities. The 2010 report was provided to Ecology. A report will be issued annually.

Line Item	Name	Addition Information	Answer
5.3.1.7.3.1	WFD tank mixing and sampling project management	Definition and elements	This activity provides the program management support functions that mitigate the technical risks associated with the ability of the Tank farms feed delivery and certification systems to adequately mix and sample high level waste feed in to order to meet the WTP feed certification requirements. The elements consist of WRPS personnel and nationally recognized independent experts contracts
5.3.7.5.1.1	Coordinate WTP interface control program	Definition and elements - started at beginning of FY2011	This WBS element provides for the overall coordination of the WTP Interface Management Program which includes reviewing and updating of all WTP Interface Documents, identification and resolution of interface incompatibilities, and integration with ORP, RL, and other site Prime Contractor interface management programs. Provides staffing to coordinate and administer WTP specific interface.
5.3.10.1.2.1	CD-0 for secondary treatment and alternatives analysis	Provide both deliverables to Ecology	This document was provided to Ecology.
5.3.10.1.5.1	Down select alternatives	Provide deliverable to Ecology	DOE will be releasing this document once approved with a copy to go to Ecology.
5.2.5.6.17 & 18.01	CT and CR vault projects	Projects end on 11/3/17 and 10/6/17, duration 1285 days provide definition and elements	Retrieval and interim closure C-301 Catch Tank located in 200 East, and Retrieval and interim close 2440CR Vault. Assume modified sluicing for retrieval technology. Deactivate equipment and isolate transfer lines, pits and penetrations to the tank. Placement of a grout in the tanks to stabilize and bulk fill. Also prepare a Tier 3 Closure Plan to be submitted to Ecology.
5.3.6.6.4.1	Interim Hanford storage conceptual design	Definition and elements - started April 11, 2011, provide alternatives analysis, will be complete June 29, 2012 for CD-1	Provide project management and oversight of design and construction of the shipping facility which includes site preparation, procurements, construction activities, and acceptance testing.
5.2.4.2.5.2	Risk assessment technical activities	Provide laboratory results and waste release testing, 1 tank,	This task includes specific studies to determine input parameters to risk assessments and is specific to waste release studies. Recent deliverable is PNNL-20616. Waste residual studies are an important component of WMA C PA Engineered Systems Data Package that underwent review by PA workshop attendees. This scope has been deferred due to funding priorities in FY2012.
5.2.1.4.1.2	Interim measure documentation of FY12 plans	Provide deliverable to Ecology	This scope describes the task which supports the M-45-56 annual meeting and is a subset element of Activity entitled "Regulatory Document Support and Development"
5.2.1.1.1.2	Manage retrieval project controls	Definition and elements	This WBS provides the management budget for SST Retrievals.
5.6.1.4.3.2	CR Vaults & Pits characterization and D&D	Definition and elements - 200 day duration, USDOE has identified this as "Critical (After)", completion 3/23/2017	This task characterizes the CR Vaults and pits to achieve closure.
5.2.2.6.2.2	C-102 Retrieval Design and Engineering	is it being impacted by the layoffs, why is this critical (after)	Retrieval scope is not being impacted by layoffs.
5.3.6.4.5.2	HSF Design	Critical (after), preliminary design due 10-30-19, definition and elements	Schedule has zero float which makes it critical.

Line Item	Name	Addition Information	Answer
5.2.4.2.3.3	Draft Tier 2 Closure Plan and Framework Closure Tier 1	Provide both deliverables to Ecology, issue plan 5-31-13 is this on schedule, for final delivery 9-3-14	The schedule for this depends on upon issuing the EIS and funding availability.
5.2.1.4.3.3	Direct Push	Definition and elements - USDOE has identified elements as "critical (after)", what impacts will the layoff have on this WBS	WRPS will conduct a continuing in process review of WTP operational readiness to promote contractor understanding of and planning for future WTP operations. WRPS will work with WTP to resolve any operational issues which surface and support and and effic
5.2.5.6.14.3	C Farm Closure Cap	USDOE has identified elements as "critical (after)", this element starts construction on 10-13-20, I thought baseline was compliant, this indicates that the baseline is not compliant	The Lifecycle Baseline was approved in June 2010 and was based on the System Plan Rev 4 which changed the same month the Consent Decree/TPA was signed in October 2010 DOE-ORP recognizes there is a need to update the Lifecycle Baseline to reflect System Plan Rev 6 (versus Rev 4 as seen here) plus there is a constrained milestone to complete closure in 2019 but the activities are not logic tied to the milestone. The Retrieval and Closure project has discussed this schedule weakness with Ecology in the past and the plans to update the Baseline to reflect the path forward once funding availability is better defined.
5.2.2.6.2.4	C-102 Contract award	Due 12-29-11 USDOE has identified elements as "critical (after)" is this affected by any other contractor activities, or USDOE directives	Schedule has zero float which makes it critical
5.1.5.1.3.4	Shop Equipment	Definition and elements, USDOE has identified elements as "critical (after)"	Purchase 4,300 gallon water truck, not critical
	No WBS line item for the technology development need to retrieve these tanks	A-101, A-103, AX-101 USDOE self identified these tanks as similar rheology as the S-102 tank. For the s-102 tank there is no well understood technology capable of retrieving this type of "heel" per change request	Good comment DOE is aware and is evaluating how to best reflect this retrieval in the PMB schedule.
5.1.5.1.2.3	Central scheduling, project integration	Definition and elements - started at beginning of 2011	This activity is for the central scheduling group and coordinates all monthly updates to the schedules and reporting on a monthly basis.
5.2.2.1.1 (&3).08	RDR for A-101, A-103, AX-101 Hard Heel retrieval	2016, 107 day duration, provide basis for short retrieval duration?	The 107 day activity is for sampling. Retrieval is expected to take 40 days and is based on the tank volume and method of retrieval.

**Attachment D, ORP SST Integrity Milestones and Target Dates Remaining
Work Scope Durations**

1 Page

ORP SST Integrity Milestones and Target Dates

Remaining Workscope Durations

Milestone ID	Scope	Original Due Date:	Estimated Months Remaining to Complete Scope:
M-045-91B-T01	DOE shall provide Ecology a report containing the results and interpretation of testing, and analysis performed on concrete core obtained from Tank A-106 or alternate tank.	Sep-14	24
M-045-91D-T01	DOE shall provide Ecology a report containing the results and interpretation of testing, and analysis, performed on the concrete dome samples obtained from the Tank C- 107 plug.	May-13	12
M-045-91E	DOE shall provide to Ecology a completion of Single-Shell Tank farms dome deflection surveys every two years, beginning 9/30/13.	Sep-13	10
M-045-91F	DOE shall provide to Ecology for approval, a report (Summary Conclusions Report on Leak Integrity) summarizing and evaluating the information submitted under M-045-91F-T01 through T-04.	Dec-13	12
M-045-91F-T01	DOE shall provide to Ecology, as a HFFACO secondary document, a report evaluating the applicability to Hanford SSTs, of the liquid leak rate assessments of sludge and salt-cake from the Savannah River Site.	Jan-12	12
M-045-91F-T02	DOE shall provide to Ecology as a HFFACO secondary document a report evaluating the common factors of liner failures for SSTs that have leaked and will provide recommendations as appropriate, such as enhanced Leak Detection, Monitoring, and Mitigation. For purposes of this milestone, the SSTs that have leaked are identified through RPP-32681, Rev 0, Process to Assess Tank Farm Leaks in Support of Retrieval and Closure Planning.	Jul-13	12
M-045-91F-T04	DOE shall provide to Ecology, as a HFFACO secondary document, a report on the 100-series single-shell tanks which have been or will be identified as having leaked in RPP-32681, Rev 0, Process to Assess Tank Farm Leaks in Support of Retrieval and Closure Planning, leak assessment reports. This report will use an interagency assessment process as described in Section 4.0 of RPP-32681, Rev 0.	Jul-13	12
M-045-91G	DOE shall provide, or Ecology approval, a Summary Conclusions Report of Structural Analyses of Record-(AOR) for SSTs. This report shall provide conclusions from the four separate AORs and be certified by an IQRPE. 530,000 gallon tanks (B, BX, T and U Farms) 750,000 gallon tanks (BY, S, TX and TY Farms) 1,000,000 gallon tanks (A, AX and SX Farms) 55,000 gallon tanks (B,C, T and U Farms)	Apr-14	12
M-045-91G-T03	DOE shall provide to Ecology the Structural Analyses of Record final documentation for SSTs for: 1,000,000 gallon tanks (A, AX and SX Farms, Type IV)	Sep-12	9
M-045-91G-T04	DOE shall provide to Ecology the Structural Analyses of Record final documentation for SSTs for: 55,000 gallon tanks (B, C, T and U Farms, Type I)	Oct-13	7
M-045-91G-T06	DOE shall provide a Report to Ecology documenting and evaluating the Visual Inspections of 12 SSTs, per criteria in M-045-91 G-T05. The need for additional visual inspections will be jointly decided by Ecology and ORP following March 31, 2012 (submittal of the report that meets this Target Date).	Mar-12	3
M-045-91H	DOE shall submit a change package (if deemed necessary by DOE and Ecology) to establish additional milestones based on information obtained from the actions in the preceding M-045-91 series milestones to date.	Jul-15	N/A
M-045-91I	DOE shall provide, to Ecology, an-IQRPE certification of SSTs structural integrity for the remainder of the mission, or for such time as 2018 as the IORPE believes he/she can reasonably certify. -The analysis supporting the certification shall be performed in accordance with the requirements identified for analysis in WAC 173-303-640(2) and will include a due-diligence review of RPP-10435. IQRPE certification of the SST leak integrity is not required. A work plan and schedule for additional integrity assessment activities will be submitted as a change package to cover any time-period between the end date of the IQRPE certification and the end date of the mission.	Sep-18	N/A