

Section B

Spent Nuclear Fuel Stabilization and Disposition (RL-0012)



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PROJECT SUMMARY

The KOP Processing System & MCO Loading Design Control Decision Document was in the final stages of the review and approval process at the end of the month following incorporation of comments. The document is scheduled to be released in early November. The Final Design Report Compliance Matrix, Formal Design Review Report, and the Final Design Report will be approved and issued following the release of the Control Decision Document.

PRC-STP-00539, *Fit-up Inspection of Copper Insert into MK1A Scrap Baskets (OCRWM)*, was issued and the inspection was executed at MASF. The results of the inspection documented that the pre-production copper insert cast body built to maximum dimensions fit in all sectors of six production MCO scrap baskets. This inspection validates the conclusions of the previously performed management assessment of the MCO scrap baskets.

A modification to the subcontract with URS, *Copper Inserts for MCO Scrap Baskets*, was approved allowing them to proceed with a contract change with their supplier, Copper Alloys in United Kingdom. This enables Copper Alloys to continue with the production pours of the KOP MCO Basket Copper Inserts. The Production pours are scheduled to be completed and shipped in December 2011.

A second revision of the TRL-6 Test Report was issued for review by the Joint Testing Group (JTG).

Construction activities to remove the KW Annex crane and structure north of column line 4 were completed and construction activities associated with installation of the three-hour fire wall on the north end of the KW Annex were initiated.

Preparation for the TRA-2, expected to be conducted by DOE-EM in June, 2012, continued with the receipt of the updated DOE-EM TRA questionnaire set from an EM consultant. DOE-EM has included additional criteria to evaluate the "Waste Processing System" at TRL-4 and TRL-6 beyond those contained in the DOE Guide 413.3-4a (1), released September, 2011. The TRA self-evaluation will include this expanded criteria set to assure the ECRTS project is well prepared for the formal TRA-2.

DOE-RL issued a formal review plan for their review of CHPRC's Phase 2 Technology Evaluation and Alternatives Analysis recommendation. The plan supports DOE concurrence with the recommendation by December, 2011 consistent with CHPRC's current schedule.

Operations continued to perform simulator training and Systems/Bay qualifications with existing NCOs in order to support Processing Scrap Fuel MCOs in mid FY2012.

A memorandum of agreement on K Basin Sludge between the Richland Field Office and the Carlsbad Field Office, developed as a result of meeting in late August, was signed by both parties at the WIPP Corporate Board Meeting this week. This documents agreement on a number of topics related to WIPP waste acceptance criteria.

TARGET ZERO PERFORMANCE

	CM Quantity	Rolling 12 Month	Comment
Days Away, Restricted or Transferred	0	2	N/A
Total Recordable Injuries	0	2	N/A
First Aid Cases	2	11	10/11 – Employee strained lower back while demobilizing cords. (22392) 10/17 – Employee had right eye irritation caused by sawdust. (22398)
Near-Misses	0	0	N/A

KEY ACCOMPLISHMENTS

The Engineered Container Retrieval and Transport System (ECRTS) Preliminary Design Report (PDR) was approved by ECRTS Project Management on 10/10/2011. Formal CHPRC Review of the ECRTS Design was initiated and continued the rest of the month.

MAJOR ISSUES

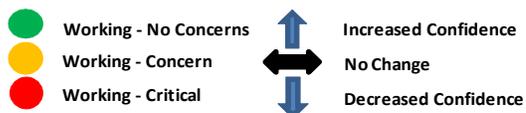
None at this time.

RISK MANAGEMENT STATUS

Unassigned Risk

Risk Passed

New Risk



Risk Title	Risk Strategy/Handling	Assessment		Comments
		Month	Trend	
STP-030: 100K KOP system operations	Refurbish IWTS, FRS, CLS to minimize operational downtime	●	↔	Baseline includes refurbishment.
STP-007: Competing K Basin Priorities	Integrated, detailed working schedules/plan-of-the-week meetings	●	↔	MCO Dry Runs completed, Engineered Container Sampling campaign have all completed. KOP Pretreatment operations initial processing completed.
KBC-010: Unexpected TRU Debris or Other Waste	Develop characterization & blending/packaging strategy; establish alternate waste disposition pathways	●	↔	No issues at this time.
KBC-011: DSA/FHA Limits Impact Waste Staging	Modify DSA/FHA to increase combustible loadings	●	↔	Work in this area is proceeding without impact.
KBC-018: Discovery of Additional Sludge or SNF	Ensure SNF handling capabilities and WCH agreements are in-place	●	↔	WCH has delayed shipments, and has requested extension of the window to make additional shipments.
STP-039: KOP Separations Process Qualification	Test the mechanical separations process in a relevant environment at MASF	●	↔	Pretreatment test equipment modified and shipped to 100K for staging
STP-075A: ECRTS Technology Maturation Testing	Continue technology testing at MASF to demonstrate TRL-6 maturity by March 2012 TRA.	●	↔	Full Integrated Testing (TRL-6) is in-process with no known issues.
STP-082: Changing in Classification of Annex from PC-2	Continue meetings with RL and stakeholders on hazards analysis	●	↔	It has been determined that the PC-2 is correct classification.

PROJECT BASELINE PERFORMANCE

Current Month

(\$M)

RL-0012 Spent Nuclear Fuel Stabilization and Disposition	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance (\$)	Schedule Variance (%)	Cost Variance (\$)	Cost Variance (%)
Base	5.6	6.8	4.9	1.2	20.8	1.9	28.2

Numbers are rounded to the nearest \$0.1M

CM Schedule Performance (+\$1.2M/20.8%)

ECRTS Design work performance was understated in September and corrected this period and work on the Annex modifications was ahead of schedule in the period.

CM Cost Performance (+\$1.9M/28.2%)

ECRTS Design performance was corrected in the period resulting in claimed performance for work costed in the previous period. Annex modification costs and MCO procurements had missing accrual for the period and K Basin Operations were under-budget for the period.

Contract-to-Date

(\$M)

RL-0012 Spent Nuclear Fuel Stabilization and Disposition	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance (\$)	Schedule Variance (%)	Cost Variance (\$)	Cost Variance (%)	Budget at Completion (BAC)	Estimate at Completion (EAC)	Variance at Completion (VAC)
Base	256.4	256.0	254.7	-0.4	-0.2	1.2	0.5	601.2	600.3	0.9

Numbers are rounded to the nearest \$0.1M

CTD Schedule Performance (-\$0.4M/-0.2%)

The combined 100K and STP variance is within reporting thresholds.

CTD Cost Performance (+\$1.2M/+0.5%)

The combined 100K and STP variance is within reporting thresholds.

Contract Performance Report Formats are provided in Appendix A.

Estimate at Completion (EAC)

The current EAC is slightly lower than the projects BAC.

FUNDS VS. SPEND FORECAST

(\$M)

RL-0012 Spent Nuclear Fuel Stabilization and Disposition	FY2012		
	Projected Funding	Spending Forecast	Spend Variance
Base	91.0	79.6	11.5

Numbers are rounded to the nearest \$0.1M.

Funds/Variance Analysis

Funding includes FY2011 carryover and FY2012 new Budget Authority. Current variance is being analyzed.

Critical Path Schedule

Critical Path Analysis can be provided upon request.

Baseline Change Requests

No BCRs implemented in the period.

MILESTONE STATUS

TPA milestones represent significant events in project execution. DOE Enforceable Agreement milestones were established to provide high-level visibility to critical deliverables and specific status on the accomplishment of these key events. The following table is a one year look ahead of key milestones.

Number	Title	Type	Due Date	Actual Date	Forecast Date	Status/ Comment
DNFSB 120W	Complete Sludge Treatment	DNFSB	11/30/09			A pending Implementation Plan update will address this milestone.
M-016-171	Complete K Basin Sludge Treatment & Packaging Tech Eval Report	TPA	3/31/12			On Schedule.

SELF-PERFORMED WORK

The Section H.20 clause entitled, Self-Performed Work, is addressed in the Monthly Report Overview.

GOVERNMENT FURNISHED SERVICES AND INFORMATION (GFS/I)

None currently identified.