



Section E

Advanced Reactors Transition

PROJECT MANAGERS

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SUMMARY

The Advanced Reactors Transition (ART) Program, WBS 1.12.1.1, PBS RL-TP11, consists of the 309 Building and the Nuclear Energy (NE) Legacies activities.

NOTE: All information is of September 30, 2000.

Top 4 Accomplishments for FY 2000

Residual sodium was reacted in three small tanks, using the water vapor-nitrogen process and the small cleaning station.

A decision to react the residual NaK in the Cooling Loop was made in January 2000, following the accident involving NaK at Oak Ridge. It involved reaction of about one pound of residual NaK from a cold trap cooling loop. This was the first use of the cleaning station to clean a piping system; all previous residue reaction work had been with residue remaining in tanks.

The 309 Bldg./Plutonium Recycle Test Reactor (PRTR) Tank Farm ion exchange column was stabilized, removed and shipped for burial along with associated above ground piping.

The 309 Bldg. -32 ft level of the containment building was cleaned up and stabilized.

Fiscal-year-to-date milestone performance (EA, DOE-HQ, and RL) shows that there are no milestones due.

ACCOMPLISHMENTS THIS REPORTING PERIOD

- For the month of September surveillance and maintenance activities continued on the 309 Building and NE legacies.
- Final rinsing and drying of the cold trap annulus side of the 337B Cold Trap cooling system has been completed. The temporary connecting piping between the cleaning station and the system has been dismantled. The reaction process for all the residual NaK in the system is now complete. The cleaning station has been laid up for extended downtime, since all of the small alkali metal test systems have now been cleaned.
- Completed the 309 Building –32 ft level of the containment building clean up and stabilization.
- Work instructions have been prepared for stabilizing the Fuel Transfer Port in the 309 Building.

- In preparation for transition of the 309 Building to the ERC, the -32 ft level of the containment building was cleaned up. Cleanup consisted of removing steel I-beams, scaffolding, materials and unattached equipment. In the process four 4x4x8 ft boxes (500 cu.ft.) were filled, and removed to the containment main floor. Following material removal the floors, sumps and 8 ft. up the walls were wiped down and painted. In total about 9,000 sq.ft. was wiped down and stabilized. The C-Cell (with a floor area of 800 sq.ft) was down graded from a contamination area (CA) to a fixed contamination area (FCA).

SAFETY

Safety data for ART is included in a separate FFTF report.

CONDUCT OF OPERATIONS / ISMS STATUS

CONDUCT OF OPERATIONS

Conduct of operations data for ART is included in a separate Fast Flux Test Facility (FFTF) report.

ISMS STATUS

The DOE ISMS Phase 2 report, previously issued, was favorable.

BREAKTHROUGHS / OPPORTUNITIES FOR IMPROVEMENT

No breakthroughs or opportunities for improvement have been identified at this time.

UPCOMING ACTIVITIES

- Ship Thermal Transient Loop cold trap offsite.
- Continue Fuel Transfer Pit cleanout in the 309 Building/PRTR facility.

COST PERFORMANCE (\$M):

	BCWP	ACWP	VARIANCE
Advanced Reactors Transition	\$ 1.7	\$ 2.2	-\$ 0.5

The unfavorable \$0.5M (30 percent) cost variance is not a true reflection of the ART performance for FY 2000. This is the result of the system not being able to split B&R cost for EX-04-J1-02-0 between ART and FFTF. FFTF is partially supported by EX-04 funding which was utilized in September when \$917K of FFTF cost was booked. The true ART cost was \$1.3M resulting in a \$0.4M favorable variance.

SCHEDULE PERFORMANCE (\$M):

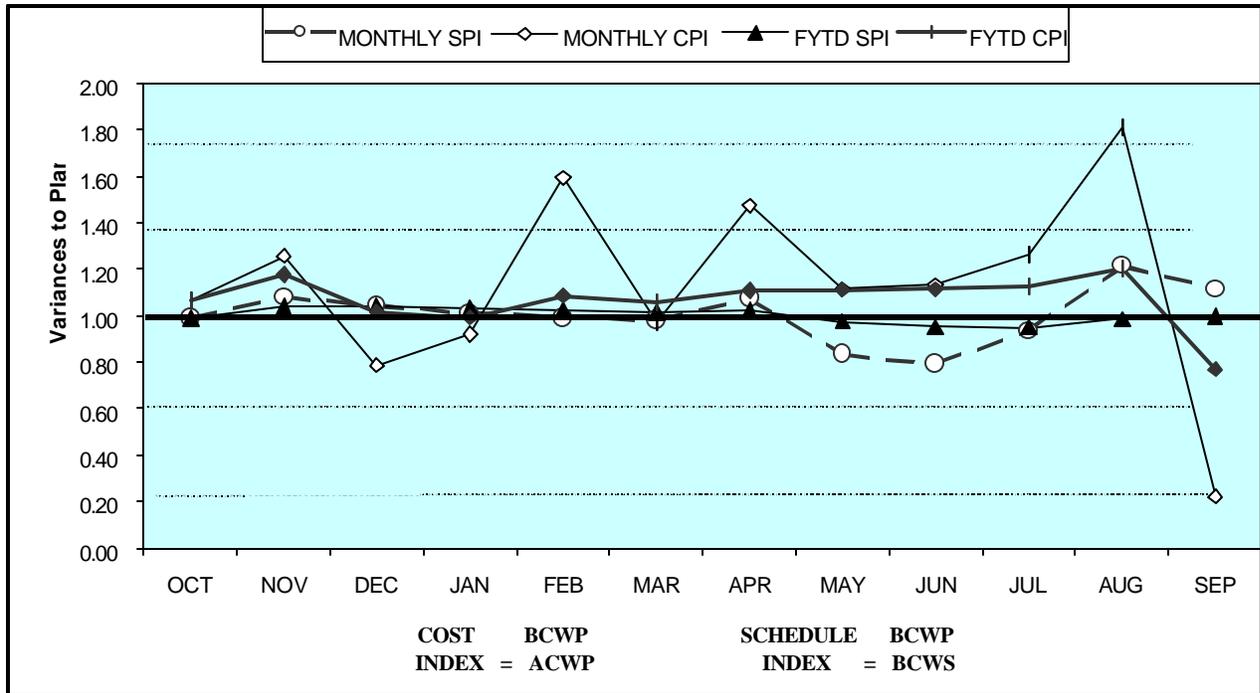
	BCWP	BCWS	VARIANCE
Advanced Reactors Transition	\$ 1.7	\$ 1.7	\$ 0.0

The schedule variance is within acceptable thresholds.

FY 2000 COST/SCHEDULE PERFORMANCE – ALL FUND TYPES
CUMULATIVE TO DATE STATUS – (\$000)

By PBS	FYTD						
	BCWS	BCWP	ACWP	SV	%	CV	%
PBS TP11 WBS 1.12 Advanced Reactors Transition	\$ 1,673	\$ 1,673	\$ 2,172	\$ (0)	0%	\$ (499)	-30%
Total	\$ 1,673	\$ 1,673	\$ 2,172	\$ (0)	0%	\$ (499)	-30%

COST/SCHEDULE PERFORMANCE INDICES (MONTHLY AND FYTD)



FY 2000	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MONTHLY SPI	0.99	1.08	1.05	1.01	0.99	0.98	1.08	0.83	0.79	0.93	1.22	1.11
MONTHLY CPI	1.07	1.26	0.79	0.92	1.59	0.97	1.47	1.12	1.13	1.26	1.81	0.22
FYTD SPI	0.99	1.04	1.04	1.03	1.02	1.01	1.02	0.98	0.95	0.95	0.99	1.00
FYTD CPI	1.07	1.18	1.02	0.99	1.09	1.06	1.11	1.11	1.11	1.13	1.20	0.77
MONTHLY BCWS	\$79	\$113	\$88	\$93	\$116	\$139	\$116	\$254	\$146	\$144	\$196	\$191
MONTHLY BCWP	\$78	\$122	\$92	\$94	\$115	\$136	\$125	\$211	\$115	\$134	\$239	\$212
MONTHLY ACWP	\$73	\$97	\$117	\$102	\$72	\$140	\$85	\$189	\$102	\$106	\$132	\$957
FYTD BCWS	\$79	\$192	\$280	\$373	\$489	\$627	\$743	\$997	\$1,143	\$1,286	\$1,483	\$1,673
FYTD BCWP	\$78	\$200	\$292	\$386	\$501	\$637	\$761	\$972	\$1,088	\$1,222	\$1,461	\$1,673
FYTD ACWP	\$73	\$170	\$287	\$389	\$461	\$601	\$686	\$875	\$977	\$1,083	\$1,215	\$2,172

COST VARIANCE ANALYSIS: (-\$0.5M)

WBS/PBS

Title

1.12/TP11 Advanced Reactors Transition

Description and Cause: The unfavorable \$0.5M (30 percent) cost variance is not a true reflection of the ART performance for FY 2000. This is the result of the system not being able to split B&R cost for EX-04-J1-02-0 between ART and FFTF. FFTF is partially supported by EX-04 funding which was utilized in September when \$917K of FFTF cost was booked. The true ART cost was \$1.3M resulting in a \$0.4M favorable variance.

Impact: None.

Corrective Action: None.

SCHEDULE VARIANCE ANALYSIS: (\$0.0M)

WBS/PBS Title

1.12/TP11 Advanced Reactors Transition

Description and Cause: None.

Impact: None.

Corrective Action: None.

FUNDS MANAGEMENT FUNDS VS SPENDING FORECAST (\$000) FY TO DATE THROUGH SEPTEMBER 2000 (FLUOR HANFORD, INC. ONLY)

	Project Completion *			Post 2006 *			Line Items *		
	Funds	Actual Cost	Variance	Funds	Actual Cost	Variance	Funds	Actual Cost	Variance
The River									
1.12 Advanced Reactors (EM)				\$ 4,199	\$ 2,073	\$ 2,126			
Total Advanced Reactors Operating				\$ 4,199	\$ 2,073	\$ 2,126			
Total Advanced Reactors Line Item									

* Control Point

ISSUES

There is nothing to report at this time.

BASELINE CHANGE REQUESTS CURRENTLY IN PROCESS

PROJECT CHANGE NUMBER	DATE ORIGIN	BCR TITLE	FY00 COST IMPACT \$000	S E C H	T E C H	DATE TO CCB	CCB APR'VD	RL APR'VD	CURRENT STATUS
ART-2000-004	7/18/00	FY '00 to '01 "Bridge Change Request"	2,160	X	X	8/23/00	8/31/00	9/22/00	Approved
ART-2000-005	9/21/00	Resource Adj.	0			N/A			Approved
FH-2001-002	9/25/00	FY2001 Fee Reduction to 90%	-\$2						Draft Prepared
ADVANCE WORK AUTHORIZATIONS									
		Nothing to report at this time.							

MILESTONE ACHIEVEMENT

Fiscal-year-to-date milestone performance (EA, DOE-HQ, and RL) shows that there are no milestones due.

Tri-Party Agreement / EA Milestones
Nothing to report at this time.
DNFSB Commitments
Nothing to report at this time.

MILESTONE EXCEPTION REPORT

<u>Number/WBS</u>	<u>Level</u>	<u>Baseline</u>	<u>Forecast</u>
<u>Date</u>		<u>Milestone Title</u>	<u>Date</u>

OVERDUE – 0

FORECAST LATE – 0

PERFORMANCE OBJECTIVES

Nothing to report at this time.

KEY INTEGRATION ACTIVITIES

Nothing to report at this time.