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Monthly Program Report March 2016

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Report

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~~Guidance Used: CG-SS4, 9/2000, DOE-OC~~

~~(List all UCNI guidance used)~~



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LANL Executive Summary

The majority of Pu239 operations are undergoing readiness assessments and restart activities prior to returning to operational status. Restarted operations of concern to Plutonium Sustainment include the (b) (7)(F) and Machining Operations (including pit coring, disassembly, the tube drill and press, and the (b) (7)(F)). Readiness has been completed for pit flowsheet operations and those processes are being restarted with a scheduled completion by the end of April. The remaining operations have been condensed into three elements: Furnace Operations/Casting/ARIES, Pyrochemical Processing, and Americium, Aqueous Chloride/Nitrate and Cementation Operations. The casting and furnace operations federal readiness assessment is scheduled for April 2016. A funding model including programmatic and RTBF support and a resource-loaded schedule has been developed with completion in September 2016. The readiness project team provides details in a separate report.

In March of 2016 the Plutonium Sustainment program at LANL completed or addressed the following high-level activities:

- 1) The induction furnace power supplies were received at LANL and final onsite testing is underway for the foundry upgrade project.
- 2) Installation of the first (b) (7)(F) has begun at the development lab. The installation design is complete and approved by the Laboratory Building Official (LBO).
- 3) LANL Pu Sustainment presented planning, status, schedule, and cost information for Pit Production, PF-4 Equipment Installations, (b) (7)(F) at the Program Review March 29-30, 2016.
- 4) LANL presented results from a joint LANL/LLNL glovebox cost study at the Pu Sustainment Program Review March 29-30, 2016.
- 5) (b) (7)(F)
- 6) Readiness – The restart plan for pit flow sheet operations is being executed. Ten of twenty-two processes within Pit Flow Sheet have been restarted. The Federal Readiness Assessment for Casting/Furnace Operations/Aries is scheduled to complete in April.

All five NNSA Level 2 Milestones for FY16 (MRT 5696-5699, and 5705) are on track to be completed successfully in FY16. The earned value metrics overall for LANL are within acceptable thresholds.

Each of the four major LANL WBS elements is discussed in detail below.

LANL Response to NNSA Comments

None.

Table 1: February Baseline Change Requests

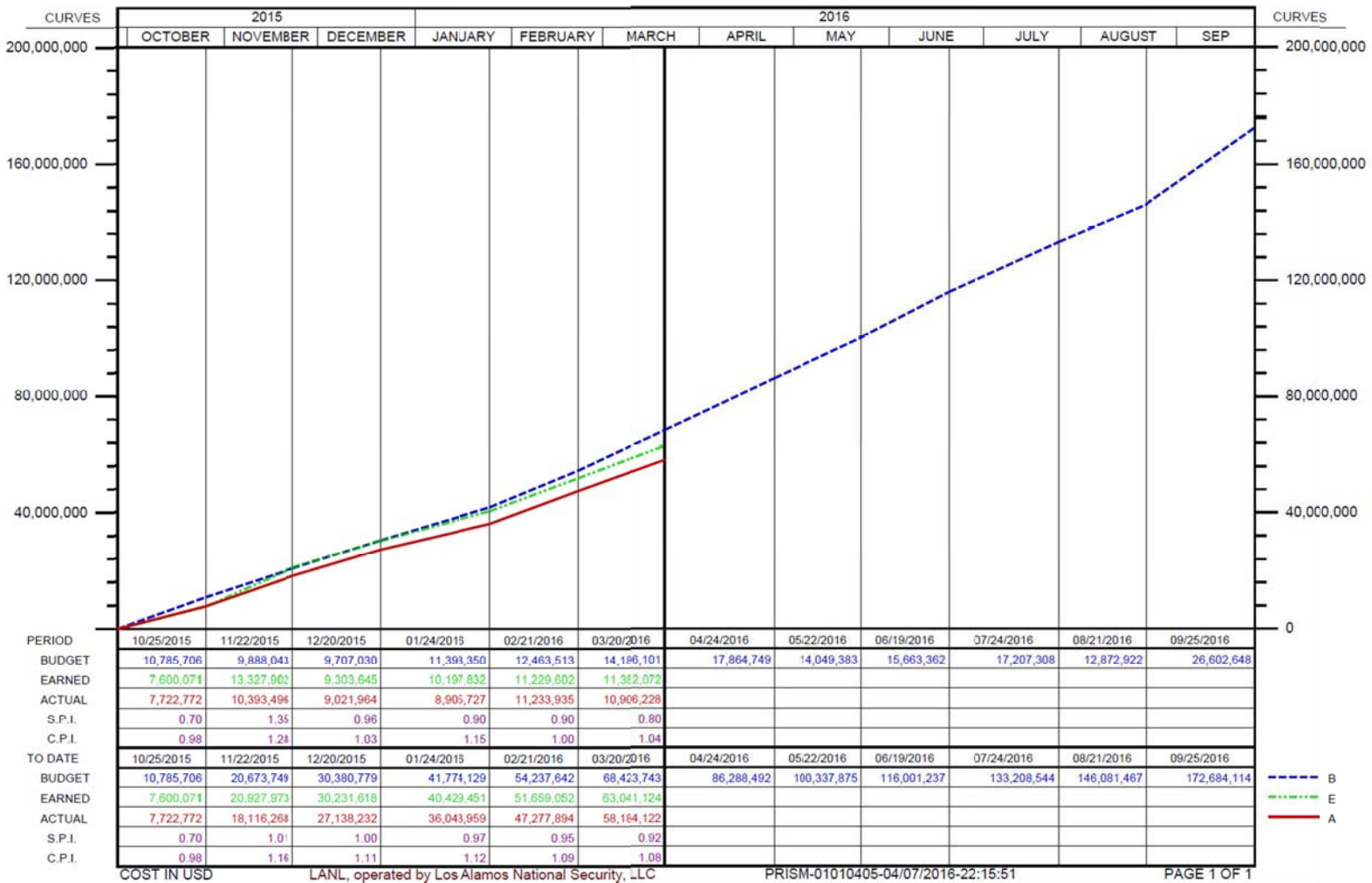
WBS	BCR #	BCR Description	Date Assigned	Date Approved	Impact	Cost Impact	Change Level
Power Supply	PSM-16-013	Moving scope between KFML and KMMS program codes due to CR	11/12/15		none	none	4
Pit Development	PSM-16-017	University Studies WP Modifications	12/7/15	12/21/15	Scope/Cost	\$300k	4
Technology Development	PSM-16-022	Lighthouse Detectors	1/7/16	3/15/16	Scope/Cost	\$150k	3
Technology Development	PSM-16-023	Pu 242	1/7/16	3/16/16	Scope/Cost	\$500k	3
Manufacturing Systems	PSM-16-025	Maintenance Support	1/12/16	3/17/16	Scope	\$1,916k	3
Pit Equipment	PSM-16-026	LINAC	1/12/16		Scope	\$1,246k	3
Manufacturing Systems	PSM-16-027	MQ Support	1/13/16	3/7/16	Scope	\$1,254k	3
Pit Development	PSM-16-028	AC Support	1/13/16		Scope	\$3,000k	3
~~Manufacturing Systems~~	~~PSM-16-029~~	~~Business Services Support~~	~~1/13/16~~	~~cancelled~~	~~Scope~~	~~\$200k~~	~~3~~
Manufacturing Systems	PSM-16-032	Industrial Engineering Support	1/14/16	3/17/16	Scope	\$750k	3
Pit Equipment	PSM-16-035	300 Area D&D	1/15/16	1/29/16	Scope	\$3,401k	3
Pit Equipment	PSM-16-037	Cold CMM Re-plan	1/21/16		Scope	\$227k	3
Pit Equipment	PSM-16-038	(b) (7)(F)	1/21/16	1/27/16	Scope	\$60k	3
Manufacturing Systems	PSM-16-040	Line Management Support	1/22/16	3/8/16	Scope	\$140k	3
~~Pit Equipment~~	~~PSM-16-048~~	~~Pack/Un-pack~~	~~1/26/16~~	~~cancelled~~	~~Scope~~	~~\$500k~~	~~3~~
Pit Equipment	PSM-16-049	Procure HVAC Equipment for CMM#1	2/2/16	2/18/16	Scope/Schedule /Cost	\$453k	3
Pit Equipment	PSM-16-050	Procure Radiography Equipment for CMM#2	2/2/16	2/18/16	Scope/Schedule /Cost	\$1,315k	2
Pit Equipment	PSM-16-051	CMM#1 & 2: HVAC Support, Glovebox Design	2/2/16	2/22/16	none	none	4
Pit Development	PSM-16-052	Analytical Chemistry WP - Shift in Charge Code	2/2/16	3/8/16	none	none	4
Pit Equipment	PSM-16-053	Scope/schedule change for PML	2/9/16	2/10/16	Scope/Schedule	none	3
Pit Equipment	PSM-16-054	D&D Relocate Dri-Trane and Shower Piping, and Cabinet	2/16/16		Scope/Schedule /Cost	\$450k	3
Pit Development	PSM-16-060	Pu-242 Replan	3/1/16		Scope/Schedule /Cost	\$1.5M	3
Pit Development	PSM-16-061	Lighthouse Project TA-55 Application 2016	3/1/16		Scope/Schedule /Cost	\$1.795M	2

Pit Development	PSM-062	Low Temperature Expansion for Plutonium	3/1/16		Scope/Schedule /Cost	\$1.022M	3
Pit Equipment	PSM-16-064	Return Funds due to closing of In-line work package	3/7/16	3/24/16	None	\$84k	3
Pit Equipment	PSM-16-065	Revise Funding for Procurement of Cold CMM	3/8/16	3/29/16	None	\$900k	3
Pit Equipment	PSM-16-072	Reschedule Disassembly of Mock GB and Infinity	3/17/16		Schedule	None	3
Pit Development	PSM-16-073	Material Characterization Procurement	3/17/16		Cost	\$1.488M	2
Pit Development	PSM-16-074	Neutronics Code Capabilities	3/17/16		Scope/Schedule /Cost	\$600k	3
Pit Development	PSM-16-075	Elastic Modulus Measurements	3/17/16		Scope/Schedule /Cost	\$270k	3
Pit Equipment	PSM-16-076	(b) (7)(F)	3/19/16		Scope/Schedule /Cost		3
Pit Equipment	PSM-16-079	Actinide Surface Science Lab Replan	3/24/16	3/29/16	Scope/Schedule /Cost	None	3

Earned Value Metrics

PERFORMANCE S-CURVE

01.01.04.05 - Pu Sustainment



1.0 LANL - Pit Development

MRT 5696		GREEN	Complete FY 2016 Key Equipment Upgrades and Replacement Activities		
Continue equipment upgrade and replacement activities including the following:					
1. Conduct the Factory Acceptance Test (FAT) for the glovebox for Coordinate Measuring Machine (CMM) #1.					
2. Complete the 100% design for the radiography glovebox associated with CMM #2.					
3. Conduct the Fabrication Acceptance Testing (FAT) for CMM #3.					
4. Complete installation of (b) (7)(F) at cold lab (SM-39).					
5. Conduct FAT for (b) (7)(F)					
6. Complete full construction design and work authorization documents to be ready to begin construction of the (b) (7)(F) and glove box in the plutonium facility (PF-4).					
L3 Milestone	Baseline Date	Status/Comments	Completion Date	RGYB	
CMM#1 GB shell fit-up(s) complete	June 10, 2016			GREEN	
CMM#1 GB weld acceptance complete	July 18, 2016			GREEN	
Conduct CMM#1 GB Factory Acceptance Testing (FAT)	September 9, 2016			GREEN	
Complete radiography location study (PMWB approval)	December 22, 2015	Complete	January 26, 2016	BLUE	
Radiography Glovebox 90% design complete	May 2, 2016	Complete	February 17, 2016	BLUE	
Radiography Glovebox 100% design complete	June 17, 2016			GREEN	
Start fabrication of CMM#3	March 1, 2016	Complete	November 16, 2015	BLUE	
Complete CMM#3 FAT	August 8, 2016	Estimating early FAT completion. Tentatively scheduled in April 2016.		GREEN	
Receive (b) (7)(F)	October 9, 2015	Complete	October 9, 2015	BLUE	
(b) (7)(F) installation design Laboratory Building	February 15, 2016	Design complete awaiting LBO approval. Expected in April.	February 10, 2016	BLUE	
Official approved					
Construction star (b) (7)(F)	March 18, 2016	Construction started	January 16, 2016	BLUE	
Complete installation of (b) (7)(F)	July 1, 2016			GREEN	
Complete (b) (7)(F) tank test	December 25, 2015	Complete	November 18, 2015	BLUE	
Complete FAT of (b) (7)(F)	June 3, 2016	Estimating early FAT completion. Tentatively scheduled in April 2016.		GREEN	
Complete (b) (7)(F) Glovebox construction design	June 12, 2016			GREEN	
(b) (7)(F) Glovebox work authorization documentation development completed	August 6, 2016			GREEN	

MRT 5698	GREEN	(b) (7)(F) Development Activities		
(b) (7)(F)				
1. Complete the Engineering Development Unit at the direction of the LANL PA, to demonstrate a feasible flow sheet. Present results and lessons-learned to the PRT.				
2. Issue Production Strategy to the PRT.				
3. Issue TRL/MRL assessment and forecast to achieve TRL-9 and MRT-9.				
L3 Milestone	Baseline Date	Status/Comments	Completion Date	RGYB
(b) (7)(F) Reviews Complete	April 27, 2016	Process reviews in progress		GREEN
(b) (7)(F)	June 8, 2016	Scheduled to start May 16, 2016		GREEN
Issue Production Strategy to the PRT	April 29, 2016	Draft strategy in review		GREEN
Issue TRL/MRL assessment and forecast to achieve TRL-9 and MRT-9	April 29, 2016	Draft assessment in review		GREEN

MRT 5699		GREEN	(b) (7)(F)		
(b) (7)(F)					
(b) (7)(F)					
PA capabilities to meet both certification and production milestones.					
L3 Milestone	Baseline Date	Status/Comments	Completion Date	RGYB	
(b) (7)(F)	February 1, 2016	(b) (7)(F) Scheduled to review with DA for March 23, 2016	February 25, 2016	BLUE	
Complete Gap Analysis Report	April 1, 2016	Results presented at Pu Sustainment Program Review	March 30, 2106	BLUE	
(b) (7)(F)	June 30, 2016	Presented at joint IPT/Program Review	March 30, 2016	BLUE	

1.1 Technical Progress

- Pit Fabrication

- (b) (7)(F)
 - (b) (5), (b) (7)(F)
 - (b) (7)(F)
 - The results were then reported at the Program Review and the IPT on March 30, 2016.
 - Results of the ongoing joint LANL/LLNL glovebox cost study were presented at the Program Review March 30, 2016. A few cost-saving findings are being incorporated by LANL for glovebox projects. The draft report will be issued.

- Pit Re-tubing Engineering Development

- (b) (7)(F) . On track for April completion.
 - EDU #1 travelers are being developed. EDU#1 will consist of tube cutting, (b) (7)(F), tube crimping, (b) (7)(F), leak testing, and radiography. EDU#1 is planned for May 16, 2016.

1.2 Equipment

The plan to meet the grading criterion L2 milestone MRT 5696 includes the following by September 30, 2016:

1. Conduct the Factory Acceptance Test (FAT) for the glovebox for Coordinate Measuring Machine (CMM) #1.
 2. Complete the 100% design for the radiography glovebox associated with CMM #2.
 3. Conduct the Fabrication Acceptance Testing (FAT) for CMM #3.
 4. Complete installation of (b) (7)(F) at cold lab (SM-39).
 5. Conduct FAT for (b) (7)(F)
 6. Complete full construction design and work authorization documents to be ready to begin construction of the (b) (7)(F) and glove box in the plutonium facility (PF-4).
- Coordinate Measurement Machine glovebox procurement (b) (3)
 - CMM #1 glovebox fabrication in progress and on track and is 45% complete.
 - CMM #2 glovebox fabrication in progress and on track.
 - CMM #2 Radiography Trunk Line (TL) completed on March 23rd, 2016, one month ahead of schedule.
 - CMM #2 GB design scheduled to complete on July 25th, 2016 and remains on track.
 - CMM#3 (Cold CMM, SM-39)
 - CMM #3 unit fabrication in progress and Factory Acceptance Testing is tentatively scheduled for April, four months ahead of schedule.
 - (b) (7)(F) installation (SM-39)
 - Electrical rough-in is 95% complete
 - Mechanical rough-in is 75% complete
 - (b) (7)(F) procurement (b) (3)
 - Factory commissioning successfully completed. Factory acceptance testing scheduled for April 18th.
 - (b) (7)(F) and glovebox (b) (3)
 - 90% installation design is in progress and on track.

1.3 Issues

- None

1.4 Variance Analysis and Recovery Plan

- None

1.5 BCRs

- PSM-16-017: This BCR defunds research activities at NM Tech and provides funds for technology research at TA-55.
- PSM-16-022: This BCR provides funds to investigate if the LANL Lighthouse Detector technology can be used at TA-55 for “defense-in-depth” SNM detection.
- PSM-16-023: This BCR provides funds for ²⁴²Pu recovery technology.
- PSM-16-024: This BCR provides funds for the completion of the Precision Machining Line to close out Field Change Requests (FCRs).
- PSM-16-026: This BCR provides additional funds to the Linac project for the system procurement.
- PSM-16-028: This BCR provides additional funds for Actinide Chemistry (AC) support.
- PSM-16-035: This BCR provides additional funds to the 300 Area D&D project supporting the CMM projects.
- PSM-16-037: This BCR provides additional funds to the cold CMM project.
- PSM-16-038: This BCR provides additional funds to the (b) (7)(F) Project project for the concrete chiller pad.
- PSM-16-049: This BCR provides funds for procurement of required enclosure HVAC system.
- PSM-16-050: This BCR provides funds for procurement of the in-line radiography unit.
- PSM-16-051: This BCR facilitated fabrication modifications due to a re-design of the large visibility windows.
- PSM-16-052: This is an administrative BCR to change the cost codes associated with chemistry.
- PSM-16-053: This BCR facilitated baseline change, which incorporates readiness planning and moved out CSEDs due to resource constraints.
- PSM-16-054: This BCR provides funding to the CMM D&D project for relocation of interfering utilities.
- PSM-16-060: This BCR provides funding for purification of Pu-242
- PSM-16-061: This BCR provides additional funds to develop the LANL Lighthouse Detector technology for SNM detection (see PSM-16-022).
- PSM-16-062: This BCR provides funds to investigate thermal expansion measurements of plutonium at low temperature.
- PSM-16-064: This BCR returns funds to Pu Sustainment after the In-line radiography construction component was completed.
- PSM-16-065: This BCR provided additional funding to assist in the procurement of the Cold CMM.
- PSM-16-072: This BCR rescheduled the ongoing work with a mock glovebox and the new CMM in cold space in building SM-39.
- PSM-16-073: This BCR will provide funding for purchase of an Auger instrument to support material characterization.
- PSM-16-074: This BCR will provide funding to support development of deterministic neutronics code capabilities for criticality safety.
- PSM-16-075: This BCR will provide funding for hardware development supporting elastic modulus measurements of plutonium.
- PSM-16-076: This BCR will provide additional funds for the D&D and installation phase associated with the (b) (7)(F) in PF-4 at TA-55.
- PSM-16-079: This BCR will replan the scope and schedule for the Actinide Surface Science Lab.

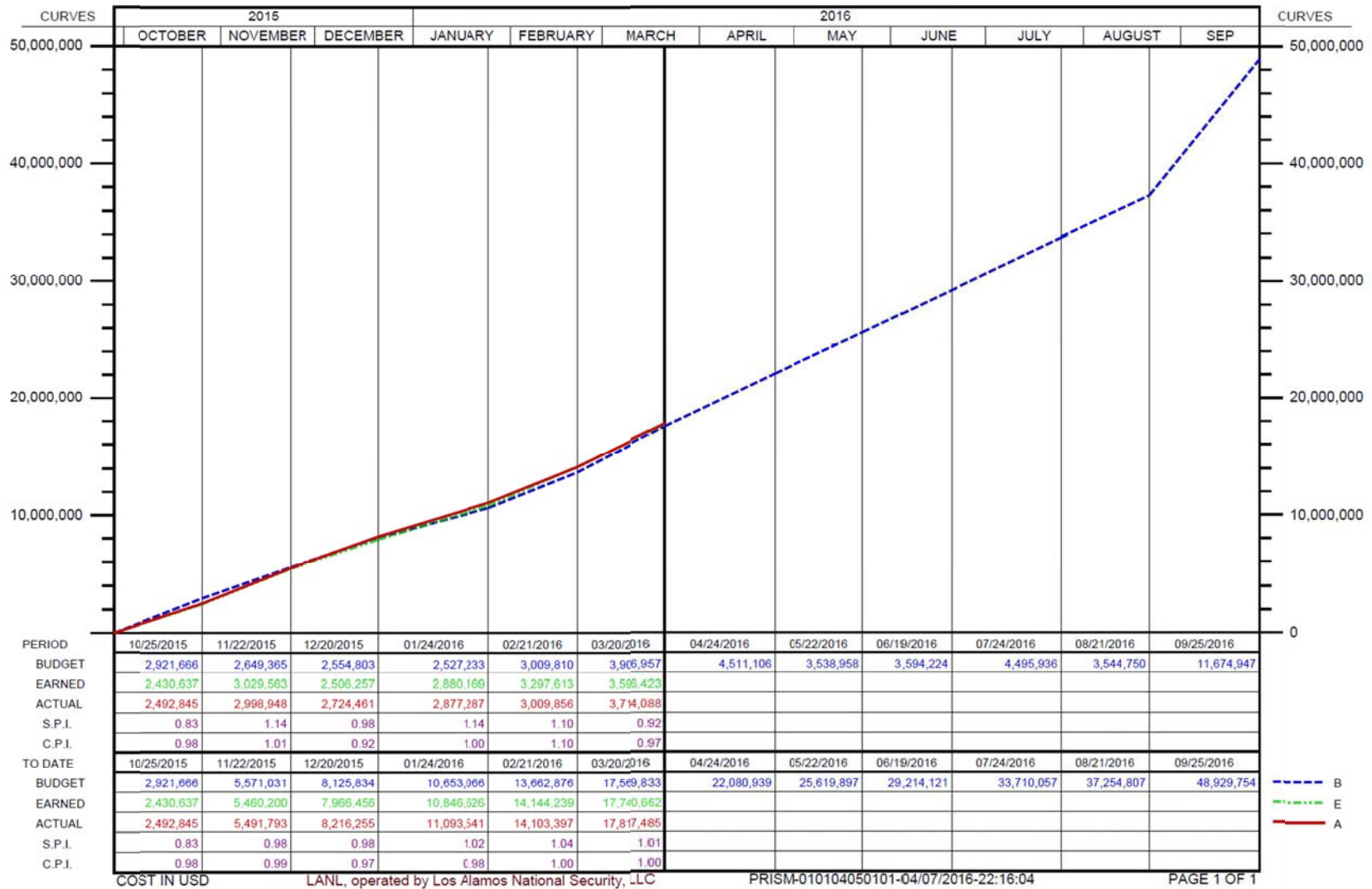
1.6 Risk Table

Work	Description	Handling Strategy	Status
(b) (7)(F)	(b) (7)(F)	None	(b) (7)(F)
(b) (5)			
Pit Re-Tubing	The DA Specification has not been completed and released. The specification may impact processes, inspections and fill gas, or require a pressure proof test that will impact the scope in (b) (7)(F). The risks could impact the ability to complete process reviews and start tooling in FY16. The specification may contain pole height and contour measurement requirements that may increase scope/cost in FY17 and beyond.	The milestone of one FY16 EDU unit completed should be minimally affected by the stated risk. The risk will have a larger impact on completing the EDU phase and moving into PPI in FY17. The risk will be handled by early review/comment with the design agency to mitigate impacts from the specification.	Draft specification was released. The comment/revision process will attempt to alleviate risks.
Installation of equipment in PF-4	Readiness activities could take conflict with D&D and installation of equipment in PF-4. Since readiness, in general, is a higher priority than equipment installation, equipment schedule delays could occur.	Prioritize installation work to emphasize areas of limited conflict (ie. PF-4 basement, SM-39, areas not subject to readiness, etc.).	(b) (7)(F) and CMM was slowed in FY15.
(b) (7)(F)			

1.7 Earned Value Metrics

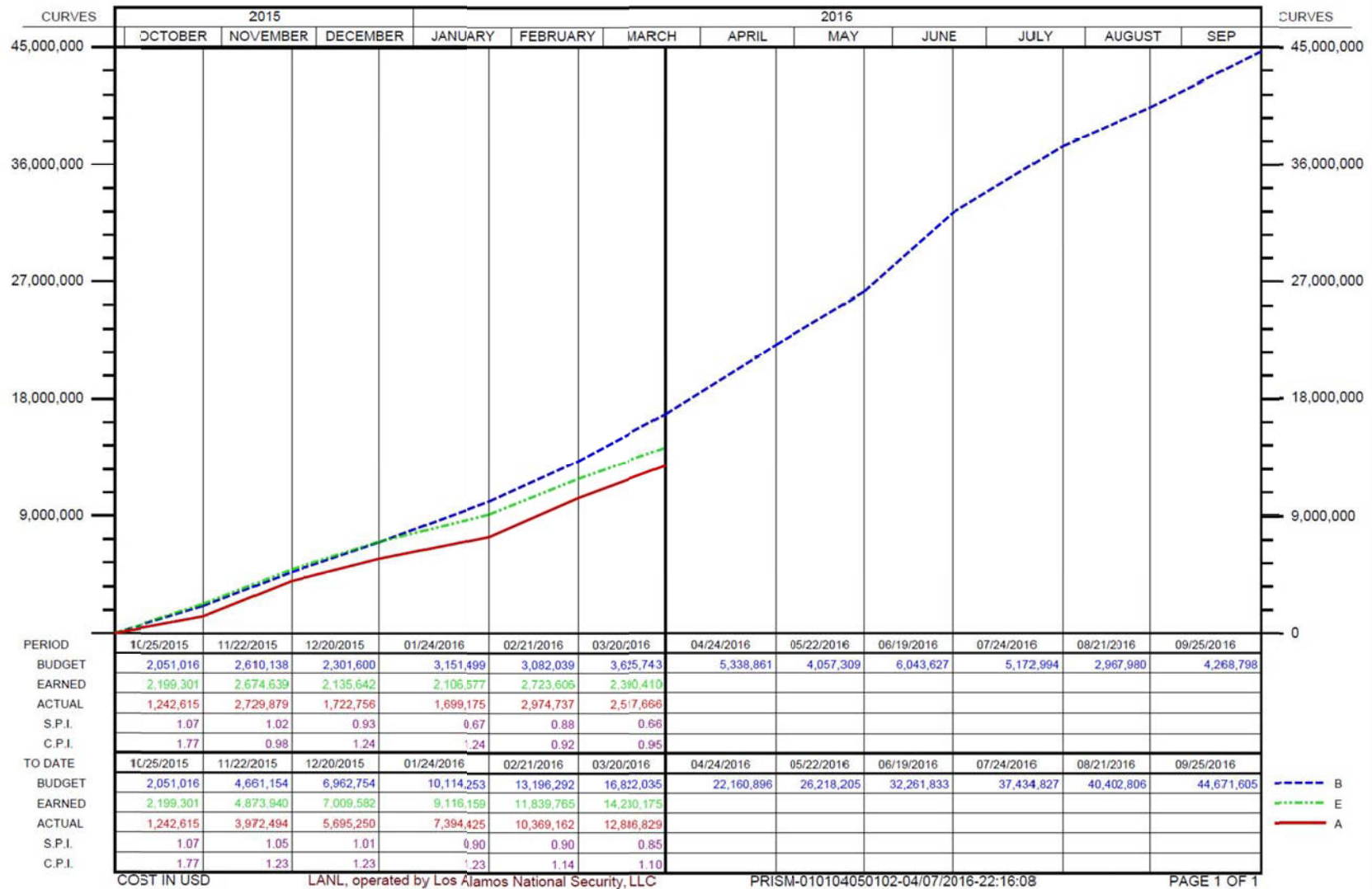
PERFORMANCE S-CURVE

01.01.04.05.01.01 - Pit Fab. and Process Dev.



Unclassified

PERFORMANCE S-CURVE 01.01.04.05.01.02- Pit Manufacturing Equipment



2.0 LANL - Power Supply

MRT 5697		GREEN	Complete FY 2016 Power Supply Development Activities		
Continue to progress the development of Power Supply production capability: Complete & (b) (7)(F)					
L3 Milestone	Baseline Date	Status/Comments	Completion Date	RGYB	
Demonstrate (b) (7)(F) on Haynes-25 Clad Material.	November 18, 2015	Completed.	October 21, 2015	BLUE	
Xenon Leak Station installed, tested, and ready for use (PF5)	May 1, 2016	(1) Purchases to support installation are complete. (2) The design package is complete. (3) Construction install work has started. (4) UT Station assembled and being tested at TA-8.		GREEN	
Complete installation and readiness of Ultrasonic Testing station in PF-4.	July 1, 2016	(1) Station assembled and installed in PF-5. (2) Sensitivity testing for xenon in the ppb range on-going.		GREEN	
Electrical Testers from Kansas City delivered, installed, and tested and ready for use (PF5)	July 15, 2016	(1) E-testers manufactured and in calibration testing at KC. (2) PF-5 install preparations (cabling, power) complete		GREEN	
Manufacturing B-Line fully operational (PF5)	September 1, 2016	(1) Xenon backfill station design complete and being manufactured at vendor. (2) Atmosphere Box B-3 modified to accept Xe backfill station (extra power, gas feed-throughs, pressure relief).		GREEN	
Manufacture Power Supply using NSC provided components.	September 30, 2016	Equipment to support shipping purchased and being installed as it arrives.		GREEN	

2.1 Technical Progress

- Aqueous processing for batches Demo 3 and Demo 4 completed and samples sent for chemical analysis. The analyses will allow the demonstration of product blending at the fuel fabrication step of ball milling. These two fuel batches will be used to determine cleanup factors through Aqueous Purification, refine the procedures for sample analysis, and create calorimetry standards.
- MQ has assumed full ownership of the PVS (Product Verification and Submittal) function. The Quality Assurance Inspection Procedures (QAIPs) are being developed and training and qualification of Verification Inspection and Acceptance Stamping personnel from QPA is going.
- Made several PFEs for SNL DA System Group which will be used for Margin Testing
- General Klotz visited the facility and was interested in overall manufacturing strategy from the aspect of throughput, safety and staffing.
- Performed tests that confirmed that re-designed Baseplate is adequate for shipping
- This will provide a means to test the resistor cap with the baseplate for shipping.

- Testing behavior of Min-K in glovebox environment to determine validity of 2 week time limit as written in DA's specification
- Developed and successfully (b) (7)(F) , to be used as pre/post campaign functional confirmation for (b) (7)(F) systems.

2.2 Equipment

- The Ultrasonic Testing Inspection Stations are at Technical Area 8 (TA-8) and have been assembled and testing is underway prior to installation in PF-4. Both systems have holding fixture/water tank designs completed and manufacturing is on-going locally. The room in PF-4 which will contain the system has had construction work begin.
- The major leak in the xenon leak detection system have been corrected and piping for the calibration gases installed. Testing on surrogate units altered to have gross leaks as well non leaking surrogate units completed in March
- Critical spare parts continue to be procured to support the entire Power Supply project.
- Shelving installed in Air Fired Furnaces to accommodate more throughput
- Laser power and focus meters hooked up to laser system computers and functioning as design.
- Vibration testing with new 4-place fixture
- Maintenance to chilled water systems ongoing.

2.3 Issues

- None

2.4 Variance Analysis and Recovery Plan

- None

2.5 BCRs

- PSM-16-013: Administrative BCR to move scope funded by Pu Sustainment from the first quarter of FY16 to quarters 2-4. This shifts costs off Pu Sustainment during the Continuing Resolution.

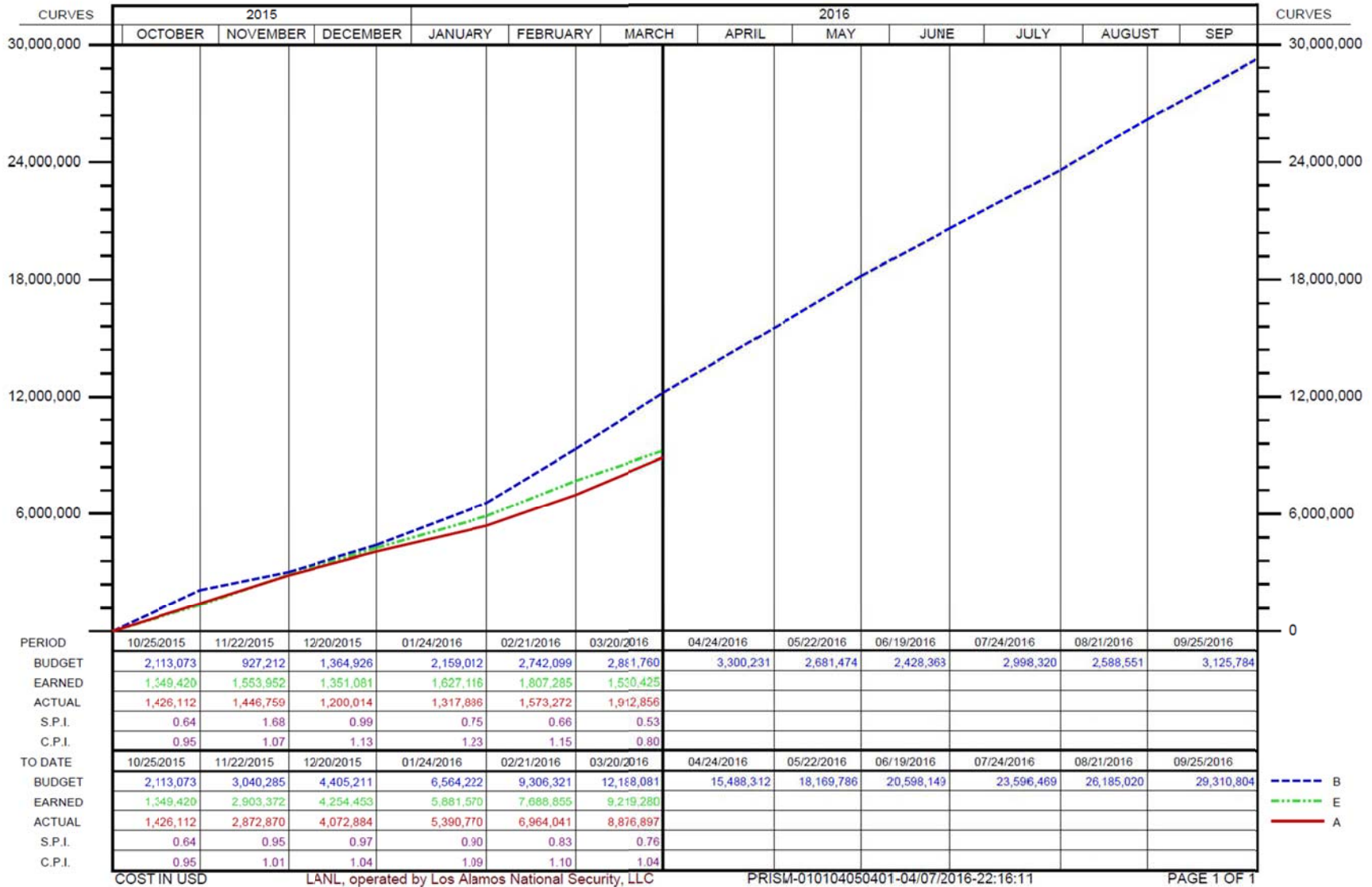
2.6 Risk Table

Work	Description	Handling Strategy	Status
Workforce development and recruiting	Dedicated staffing and depth of trained operators are both at risk to support the Development, PPI, and Qual series for Power Supply manufacturing development. The plan to start hiring in FY13 for dedicated staffing did not occur. Staffing is shared with other programs and may not always be available as scheduled. Note that the increase in staff also was planned to maintain lower dose rates in the staff as part of LANL ALARA goals.	1. Aggressive hiring is planned for FY16 to ramp up the staffing. 2. Communicate and integrate frequently with Power Supply surveillance, NE-75, and other programs to make the best use of available staff. 3. Request that LANL and LAFO management allow for increase in dose to staff assigned to this work. 4. Delay non-critical path activities until they become critical path for FPU.	Working closely with other Programs to maintain adequate personnel coverage for all, and optimize use of resources. Workforce attrition has occurred at a pace greater than or equal to the new hiring. Hiring is a high priority.
Design Maturation beyond PRT Schedule	Delays in the delivery of the various required design phases (AERs, BDR, etc.) will lead to a delay in LANL's delivery of the FPU.	1. Communicate and integrate frequently with the PRT on LANL design needs. 2. Provide monthly input into the PRT's Integrated Schedule to formally manage any delays.	The PRT is working to resolve schedule issues that could delay FPU. As of this monthly report, FPU is not in danger of being missed.

2.7 Earned Value Metrics

PERFORMANCE S-CURVE

Power Supply Including MMP



COST IN USD

LANL, operated by Los Alamos National Security, LLC

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PAGE 1 OF 1

3.0 Program and Manufacturing Support Services

MRT 5705	GREEN	Complete and submit a monthly report to NA-123.1 detailing the programmatic status of the Plutonium Sustainment Program by Site		
Provide program status on technical details, cost and schedule, funding, milestones and risk to NNSA on a monthly basis				
1. All participants must submit a site specific monthly status report to NA-196 no later than the 24th day of each month. 2. The monthly report should be a word document in report type format using the FY14 reporting template and include submission of excel spreadsheet supporting financial data. 3. Minimum topics include (extracted from FY14 format): a. Executive Summary, Milestone Status (Level 2 and Level 3), Technical Progress, EVMS charts (where available), Issues, Variance Analysis and Recovery Plan and Risk Table. b. The financial portion includes: Cost and schedule, funding (FY16 budget authority and FY 15 carryover), time phased spend plan by month, and actual to date expenditures.				
Activity	Baseline Date	Status/Comments	Completion Date	RGYB
October Report	November 24, 2015	Issued	November 24, 2015	BLUE
November Report	December 24, 2015	Issued	December 23, 2015	BLUE
December Report	January 24, 2016	Issued	January 21, 2016	BLUE
January Report	February 24, 2016	Issued	February 24, 2016	BLUE
February Report	March 24, 2016	Issued	March 21, 2016	BLUE
March Report	April 24, 2016	Issued	April 22, 2016	BLUE
April Report	May 24, 2016			GREEN
May Report	June 24, 2016			GREEN
June Report	July 24, 2016			GREEN
July Report	August 24, 2016			GREEN
August Report	September 24, 2016			GREEN

3.1 Program Management

- Developed materials to support the Program Review March 29-30, 2016.
- Developing a schedule to BCR after pit flowsheet startup, supporting up to (b) (7)(F)

3.2 Support

- (b) (7)(F)
- (b) (7)(F)

3.3 Issues

- None

3.4 Variance Analysis and Recovery Plan

- None

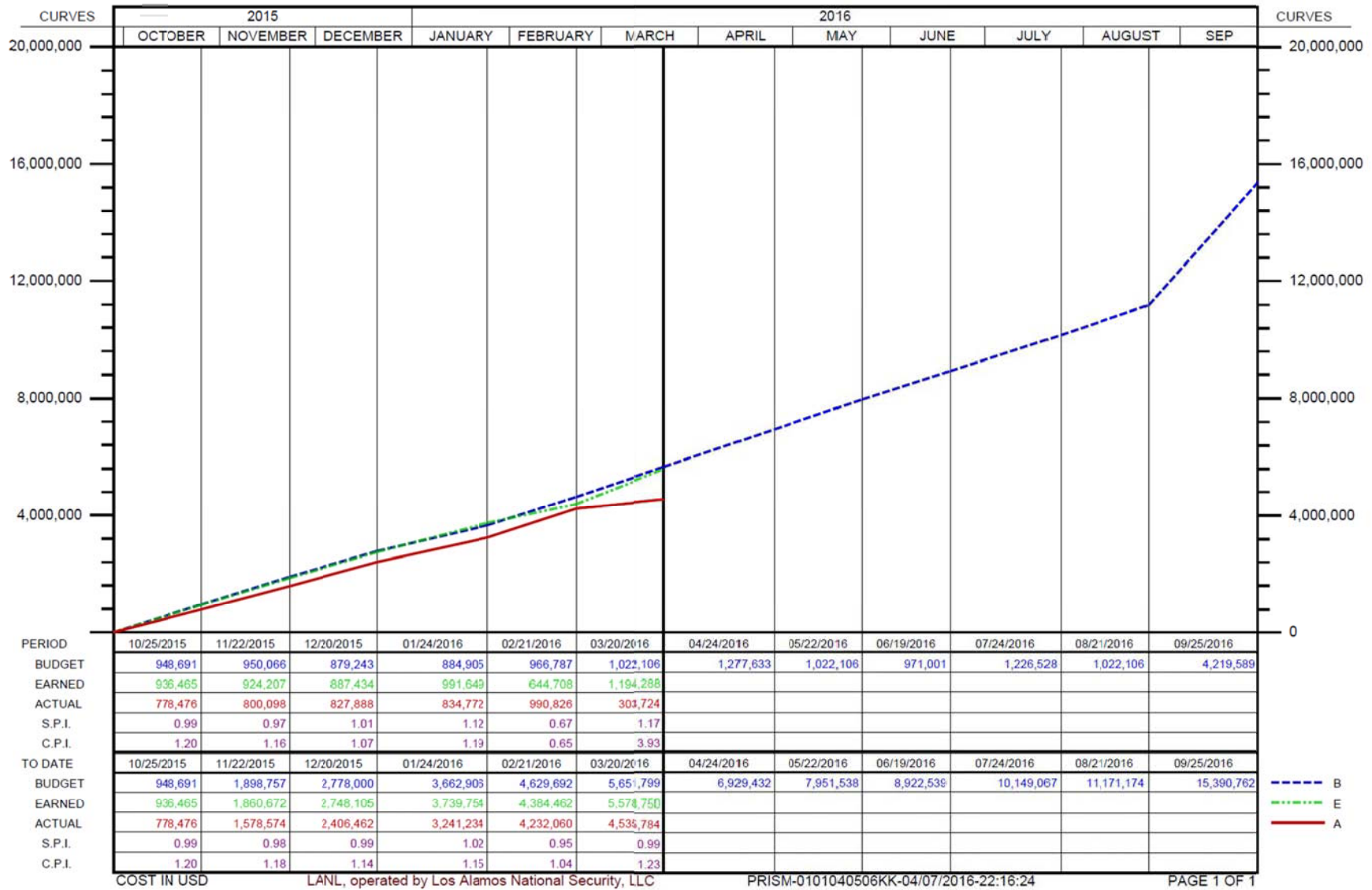
3.5 BCRs

- PSM-16-025: This BCR provides additional funds for maintenance support.
- PSM-16-027: This BCR provides additional funds for Manufacturing Quality (MQ) support.
- ~~PSM-16-029: This BCR provides additional funds for business services support.~~ This BCR was cancelled.
- PSM-16-032: This BCR provides additional funds for industrial engineering support.
- PSM-16-040: This BCR provides additional funds for line management support.

3.6 Earned Value Metrics

PERFORMANCE S-CURVE

Pit Manufacturing Support



4.0 Facilities and Readiness/Waste and Institutional Support

4.1 Technical Progress

- Preventive and corrective maintenance on track with no issues.
- PF-4 Readiness status
 - (b) (7)(F) – Restarted and in normal operations status.
 - Machining – Restarted and in normal operations status.
 - Pit Flow Sheet – Restart plan is being executed. 10 of 22 processes within Pit Flow Sheet have been restarted.
 - Casting/Furnace Operations/Aries –The Federal Readiness Assessment is scheduled to begin in April.
 - Pyrochemical Operations – The Management Self Assessment is scheduled to begin May 2, 2016.

4.2 Equipment

- None

4.3 Issues

- Criticality Safety Evaluation Documents are driving the schedule. (b) (5), (b) (7)(F)

4.4 Variance Analysis and Recovery Plan

- None

4.5 BCRs

- None

4.6 Earned Value Metrics

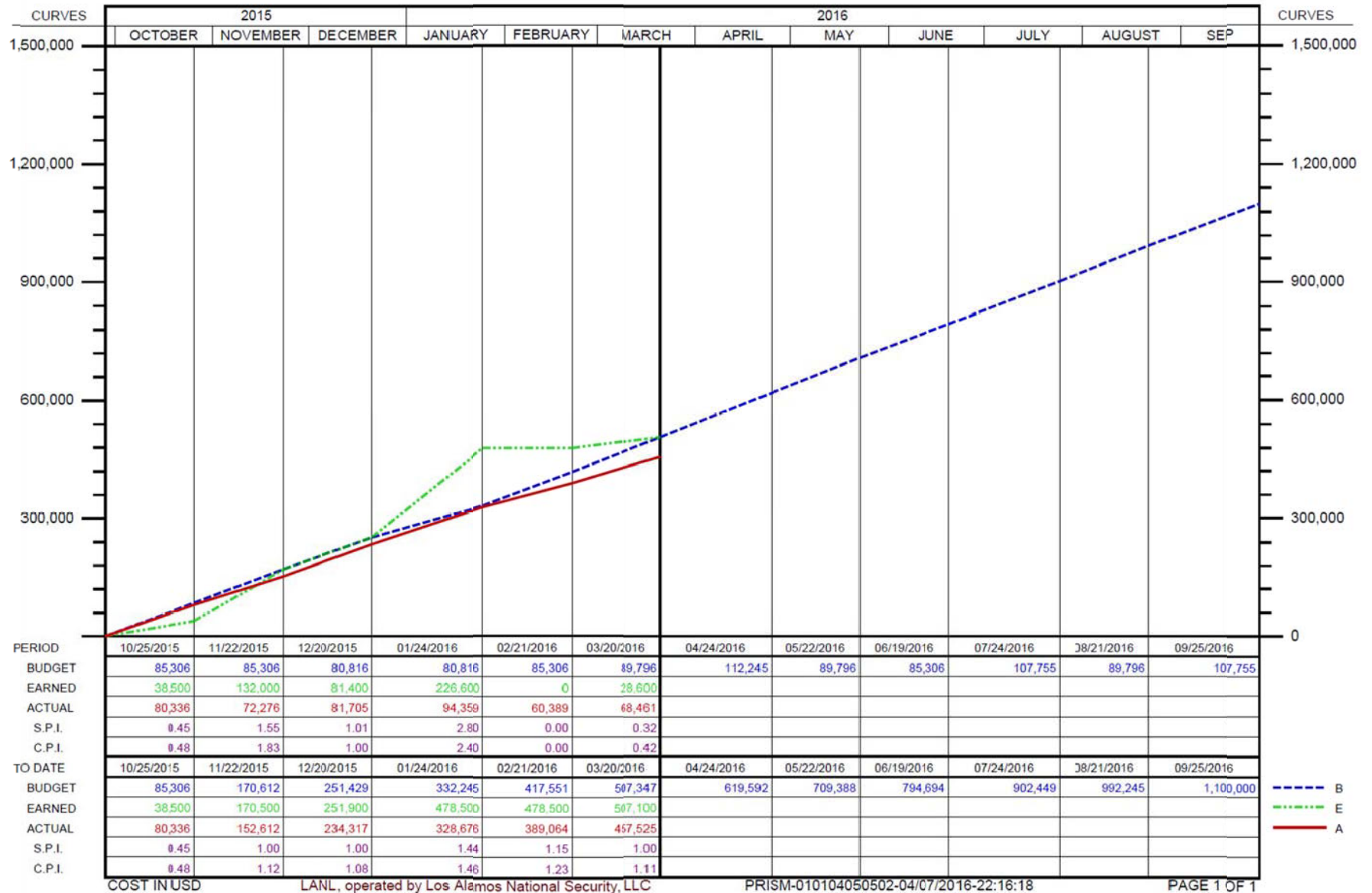
PERFORMANCE S-CURVE 01.01.04.05.05.01 - LANL RTBF Recovery (ADS)



Unclassified

PERFORMANCE S-CURVE

01.01.04.05.05.02 - LANL Waste Processing (ADS)



COST IN USD

LANL, operated by Los Alamos National Security, LLC

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