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Monthly Program Report January 2015

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(List all UCNI guidance used)



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LANL Executive Summary

As part of a required Conduct of Operations review, on June 10, 2013, several key PF-4 Operation Procedures were paused halting most SNM operations in PF-4, prompting Laboratory Director Charlie McMillan to issue a temporary pause of all programmatic activities in PF-4. The Evaluation of the Safety Situation (ESS) memo has been issued allowing previously resumed operations to operate in PF-4 (primarily Pu238 and small sample testing related). The majority of Pu239 operations require a series of readiness assessments prior to returning to operational status.

The majority of plutonium operations have been (b) (7)(F)

. A funding model including programmatic and RTBF support and a resource-loaded schedule has been developed. The readiness project team will provide a separate monthly report as a follow-up to this report.

In January of 2015 the Plutonium Sustainment program at LANL completed or addressed the following high-level activities:

- 1) The new xenon backfill station chamber (used in the manufacturing of the Power Supply component) was delivered in January, 2015. Installation is currently underway and is expected to be complete in February.
- 2) LANL successfully completed the first Contractor Readiness Assessment (CRA) for (b) (7)(F)
 - The CRA was conducted from January 12-23, 2015
 - Report submitted on February 1, 2015
 - 2 pre-start findings and 3 post-start findings identified
 - The CRA Team concluded that (b) (7)(F) machining operations can safely proceed.
- 3) External construction of the Chlorine Distribution & Detection System (b) (3) was started on January 14, 2015; the scrubber design is nearing completion.

All three proposed NNSA Level 2 Milestones (MRT 5366, 5367, and 5373) associated with Plutonium Sustainment are on track for success in FY15.

The earned value metrics overall for LANL are within acceptable thresholds.

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

LANL Response to December NNSA Comments

- none

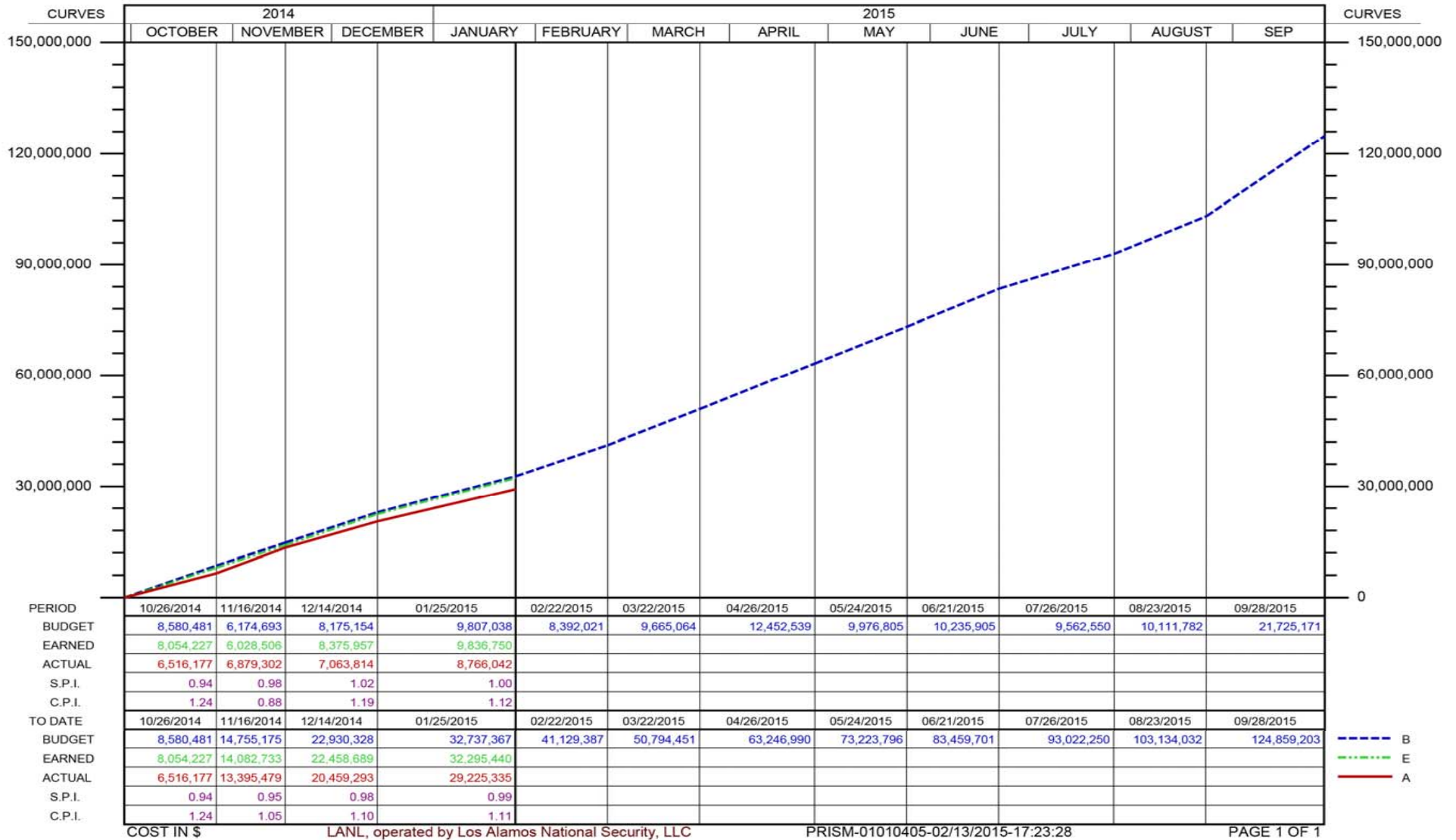
Table 1: January Baseline Change Requests

WBS	BCR #	BCR Description	Date Assigned	Date Approved	Impact	Cost Impact	Change Level
Pit Equipment	PSM-15-002	ER-Line Baseline	11/17/14	In process	Schedule	none	3
Pit Equipment	PSM-15-003	(b) (7)(F)	11/17/14	In process	Schedule/Cost	TBD	3
Pit Equipment	PSM-15-004	(b) (7)(F)	11/17/14	Cancelled; combined w/other	Schedule/Cost	TBD	3
Pit Equipment	PSM-15-005	Foundry D&D Baseline	11/17/14	In process	Schedule	none	3
Readiness/ Production Support	PSM-15-015	Redistribution of KKRA IFIT Funds in to Pu Sustainment	11/23/14	12/8/14	Scope/ Schedule/Cost	TBD	3
Project Controls	PSM-15-017	Correct Financial Periods in P6	12/1/14	12/2/14	Time phasing	none	4
Pit Development	PSM-15-026	MST-16 Casting Technology Road Map	1/20/15	pending	Scope/Schedule	\$750K	3

Earned Value Metrics

PERFORMANCE S-CURVE

01.01.04.05 - Pu Sustainment



1.0 LANL - Pit Development

MRT 5366		GREEN	Complete FY 2015 Key Equipment Upgrades and Replacement Activities		
Continue equipment upgrade and replacement activities including the following:					
1. Receive Precision Measurement Machines (PMM) #1 and #2 (Infinity) at LANL					
2. Release PMM #1 glove box fabrication design to procurement					
3. Complete factory acceptance testing for (b) (7)(F) System #1					
4. Complete decontamination and decommissioning (D&D) of 2 glove boxes (XB's) (assuming a disposition path is available at LANL)					
5. Start external installation for chlorine supply room					
6. Start glove box fabrication of (b) (7)(F)					
L3 Milestone	Baseline Date	Status/Comments	Completion Date	RGYB	
Conduct Factory Acceptance Test on Infinity PMM#1	March 27, 2015	FAT Completed	February 6, 2015	BLUE	
Receive PMM#1	May 29, 2015	Receipt projected for April 2015		GREEN	
Conduct Factory Acceptance Test on Infinity PMM#2	May 15, 2015			GREEN	
Receive PMM#2	July 24, 2015			GREEN	
Develop Checklist for Glovebox Mockup for PMM#1	January 2, 2015	Completed	December 15, 2014	BLUE	
Approve Final Glovebox Mockup for PMM#1	June 26, 2015	Glovebox mockup received December 18, 2014.		GREEN	
Approve PMM#1 Glovebox Fabrication Design for Construction (Release for procurement)	September 11, 2015			GREEN	
(b) (7)(F)	May 29, 2015	On Schedule		GREEN	
(b) (7)(F)	September 11, 2015	FAT currently scheduled for August 14, 2015		GREEN	
Start D&D of 2 XBs (gloveboxes)	January 9, 2015	Started D&D	October 21, 2014	BLUE	
2 XBs (gloveboxes) removed from room	May 15, 2015	\$1.1M reduction in funding. Insufficient funds to complete D&D of 2 XBs		GREEN	
IBC reports of completion of D&D of XBs	June 19, 2015	\$1.1M reduction in funding. Insufficient funds to complete D&D of 2 XBs		GREEN	
Start equipment procurement for Chlorine Supply Room	November 7, 2014	Completed	October 29, 2014	BLUE	
Complete equipment procurement for Chlorine Supply Room	February 27, 2015	Procurement starts on track		GREEN	
Start Construction for Chlorine Supply Room	March 20, 2015	Construction of the Chlorine Supply Room started	January 14, 2015	BLUE	
Procurement (ASM) issues request for proposal (RFP) for (b) (7)(F) Glovebox	January 30, 2015	Completed	December 2, 2014	BLUE	
Kickoff meeting with vendor for (b) (7)(F) Glovebox	March 13, 2015	Completed	December 19, 2014	BLUE	

Start (b) (7)(F) Glovebox fabrication	April 3, 2015	Completed	December 19, 2014	BLUE
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1.1 Technical Progress

- (b) (7)(F)

1.2 Equipment

- The plan to meet the grading criterion L2 milestone MRT 5366 includes the following by September 30, 2015:
 1. Receive Precision Measurement Machines (PMM) #1 and #2 (Infinity) at LANL
 2. Release PMM #1 glove box fabrication design to procurement.
 3. Complete factory acceptance testing for (b) (7)(F)
 4. Complete decontamination and decommissioning (D&D) of 2 glove boxes (XB's) (assuming a disposition path is available to LANL).
 5. Start external installation for chlorine supply room.
 6. Start glove box fabrication of (b) (7)(F).
- Receive Precision Measurement Machines (PMM) #1 and #2 (Infinity) at LANL (b) (3)
 - Factory Acceptance Testing for PPM#1 completed February 6, 2015. Receipt of PMM#1 projected for April 2015.
 - Factory Acceptance Testing for PMM#2 is scheduled for April 17, 2015.
- Release PMM #1 glove box fabrication design to procurement
 - Glovebox mockup received December 18, 2014 at SM-39. Weekly mockup glovebox working sessions continue.
- (b) (7)(F) (b) (3)
 - Preparation for (b) (7)(F) testing progressing with scheduled completion March 27, 2015.
 - Evaluation of location options for (b) (7)(F) (b) (3) is nearing completion. Impacts, if any, on (b) (7)(F) are under consideration.
- D and Decommissioning of (b) (7)(F) (b) (3)
 - \$1.1M reduction in funding. Insufficient funds to complete D&D of 2 XBs. Limited remaining funds will be used to close the project.
- Chlorine Distribution & Detection System (b) (3)
 - Construction started January 14, 2015
 - Scrubber design nearing completion.
- (b) (7)(F) (b) (3)
 - Glovebox manufacturer has submitted objective evidence to remain on the ISEL.
- Foundry Furnace Upgrade, GB-1
 - The original recovery schedule planned installation of the new power supply in first quarter of FY15. During vendor testing in the Detroit facilities prior to factory acceptance testing some performance parameters were not met. Specific components sent back to Norway for replacement and/or modification.
 - The Underwriters Laboratory testing and certification process became iterative and took significantly longer than projected. The UL stamp was obtained on February 17, 2015.
 - Three issues from the Factory Acceptance Testing are being resolved.
 - Receipt at LANL is planned for the third week of March 2015.

1.3 Issues

- None

1.4 Variance Analysis and Recovery Plan

- None

1.5 BCRs

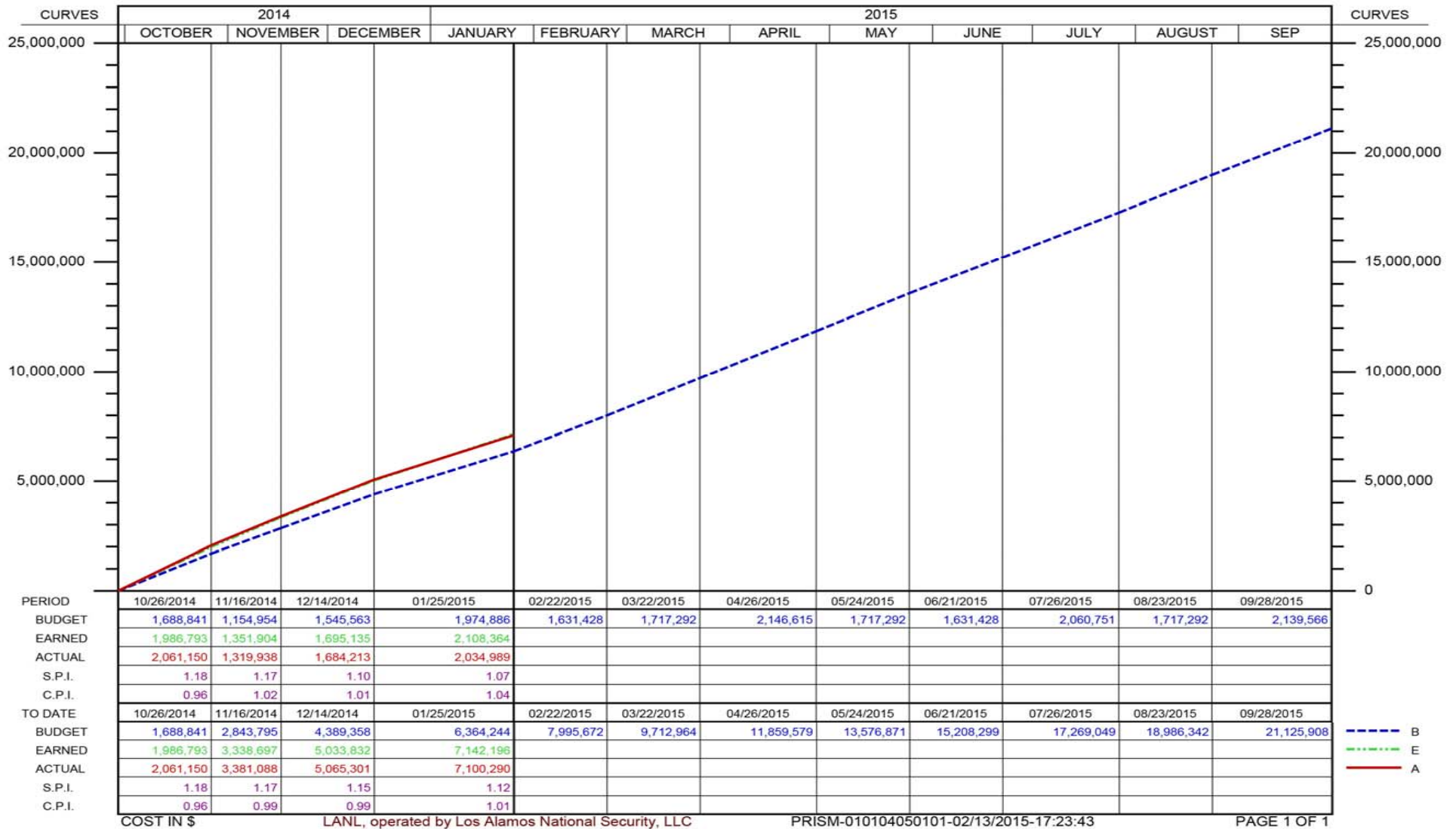
- PSM-15-002: This BCR establishes the baseline Primavera schedule for the ER line upgrades project based on the Continuing Resolution budget.
- PSM-15-004: This BCR funds the PF-4 location study for (b) (7)(F) to conclude at the end of January.
- PSM-15-005: This BCR establishes the baseline Primavera schedule for the Foundry D&D project based on the Continuing Resolution budget.

1.6 Risk Table

Work	Description	Handling Strategy	Status
(b) (7)(F)	(b) (7)(F)	If operations are not resumed in about mid-July when pits are hoped to be built, the workforce will continue to: focus on resuming operations by supporting readiness activities, supporting equipment investments, and exercising the flow sheet with surrogates if possible. (b) (7)(F) (b) (5), (b) (7)(F) (b) (7)(F)	(b) (7)(F) Management Self-Assessment is underway with the Red Team Review scheduled for November and the Contractor Readiness Assessment scheduled to begin in December 2014. Plans of Action are being developed for Machining and the Pit Flowsheet Readiness areas.
(b) (5)			
(b) (7)(F)			

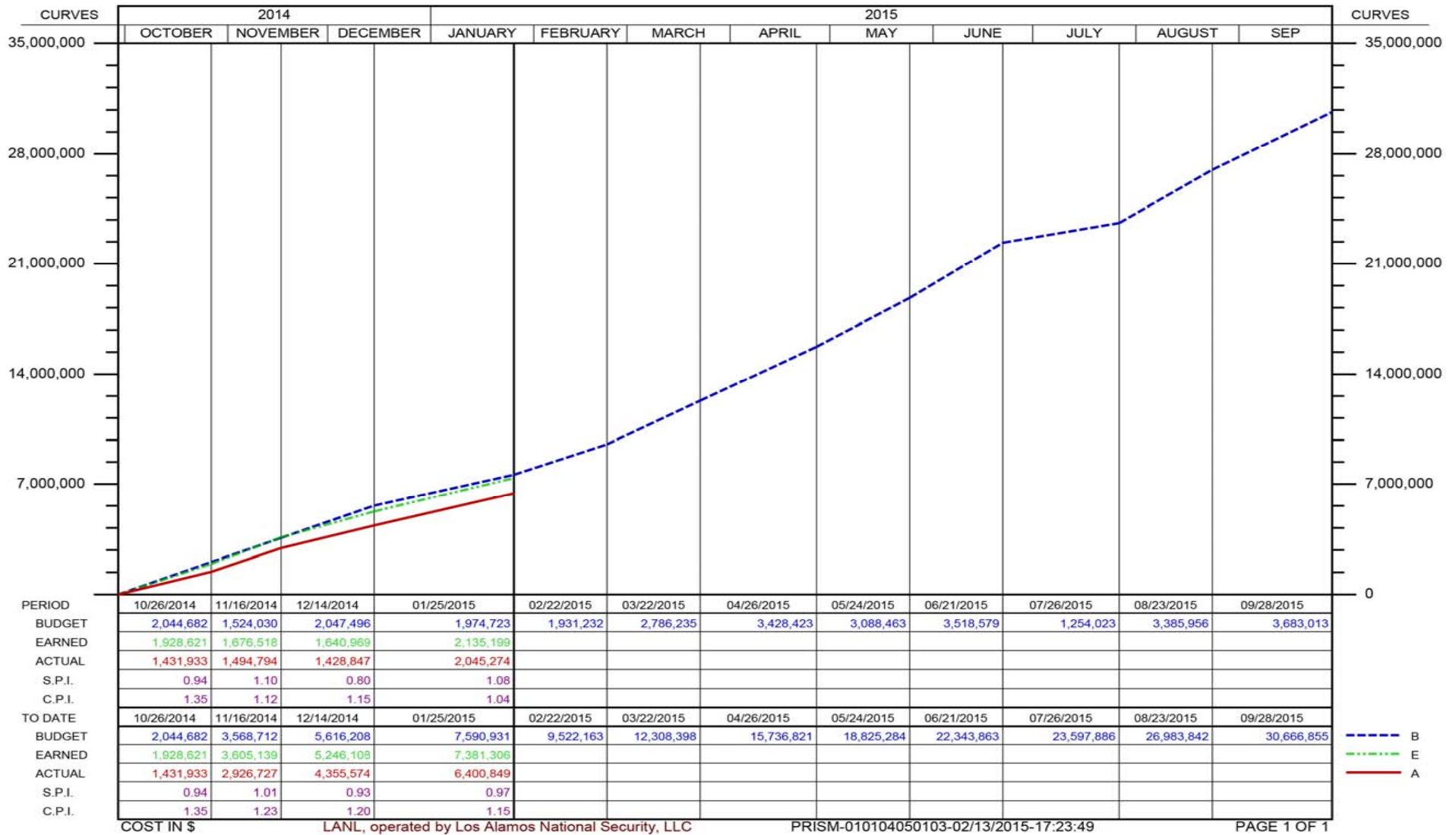
1.7 Earned Value Metrics

PERFORMANCE S-CURVE 01.01.04.05.01.01 - Pit Manufacturing and Design D



PERFORMANCE S-CURVE

01.01.04.05.01.03- Pit Manufacturing Equipment



2.0 LANL - Power Supply

MRT 5367		GREEN	Complete FY 2015 Power Supply Development Activities		
Continue the development of Power Supply production capability by completing one functional Atmosphere Control Box (ACB) Line in Assembly Test Facility (ATF) including the following: 1. Install prototype Xenon backfill station in ACB line 2. Install prototype Xenon leak check station in Assembly Test Facility (ATF) 3. Manufacture surrogate Power Supply using KCP provided (b) (7)(F) components					
L3 Milestone	Baseline Date	Status/Comments	Completion Date	RGYB	
Install prototype Xenon backfill station in ACB line	September 30, 2015	Delivery to LANL expected in January, 2015	February 3, 2015	BLUE	
Install prototype Xenon leak check station in ATF	September 30, 2015			GREEN	
Manufacture surrogate Power Supply using KCP-provided DEV 2 components	September 30, 2015	An ICO has been issued to KCP by the DA for procurement of material to make the DEV2 parts		GREEN	

2.1 Technical Progress

- LANL participated in the NNSA Site Review in Kansas City for the Power Supply. There was also a concurrent Project Realization Team (PRT) meeting. LANL reported on the progress of the Live Unit at both meetings. The aqueous dissolution (Demo Batch-1) was completed and samples taken for Analytical Chemistry. Early results suggest that a single dissolution step is good enough to meet fuel product specifications. Complete results will be discussed at the February PRT meeting. Line 7 where fuel granulation occurs was also released for operations and the furnaces were tested for the first time in more than a year. One furnace appears ready to operate and a couple of others will need some gaskets replaced to stop leakage. Granulation will occur in mid-February. The Live Unit is scheduled to be completed and tested by the first week of July 2015.
- All Development Lot 2 parts have been received from Kansas City via SNL. Two surrogate power supplies were assembled using Dev Lot 2 parts with pre-Dev compact modules (waste not, want not). The units function perfectly and a test plan will be developed at the February PRT meeting to optimize data generation.
- The new xenon backfill station chamber was delivered in January and has been placed in the ACB line (A3). Installation planning and designs have been completed and are scheduled to be completed the last week of February. This timing is within the tolerance to create the Live Unit.
- FSO 008 has been opened for a second oxide production demonstration run one (Demo 2). The dissolution and fuel fabrication is expected in early February 2015. The second demonstration is being done to gather more data on cleanup factors, isotopic ratios, calorimetry versus analytic chemistry, and to create small standards for measurement use.
- The heat source liner (using D04) testing for Department of Transportation special forms sealed source certification (49CFR 173.469) is complete without issue. The liner passed all the tests for sealed sources and the reports will be submitted to Safety Basis for final approval.

2.2 Equipment

- Testing and debugging of the new (b) (7)(F) (for heat source fabrication) has isolated a break in the cabling as the most likely cause of the malfunctions. Parts from the Development Lab unit were donated to the cause and one of the two PF4 AMETs is on line. The parts for the second have been ordered and are expected to arrive in late February.
- The Sine-on-Random software for the Unholtz-Dickie vibration table has arrived and been installed on the controller. This pattern is required to test the Power Supply after assembly. It represents a change made by the DA systems group.

- Modifications are being made to the thermal chamber room to force more cool air into the room during operations. Two of three chambers can run without affecting the room but adding the third tends to raise the temperature above the manufacturer suggested 80°F.
- Critical spares for the equipment have been identified and purchase and controlled stores is on-going. The parts range from valves on the dri-trains to filters for the chillers and ACBs to pumps for the xenon machines.

2.3 Issues

- NNSA and SNL systems have provided LANL with a challenge to produce a live unit by Baseline Design Review (BDR). LANL has agreed to give their best effort to meet the challenge. All groups at LANL that have a role have been contacted and a comprehensive activity list has been developed. The unit to be produced and the tests to be accomplished have been defined in a joint SNL-LANL-KCP document (GE2A3752) published by SNL.

2.4 Variance Analysis and Recovery Plan

- None

2.5 BCRs

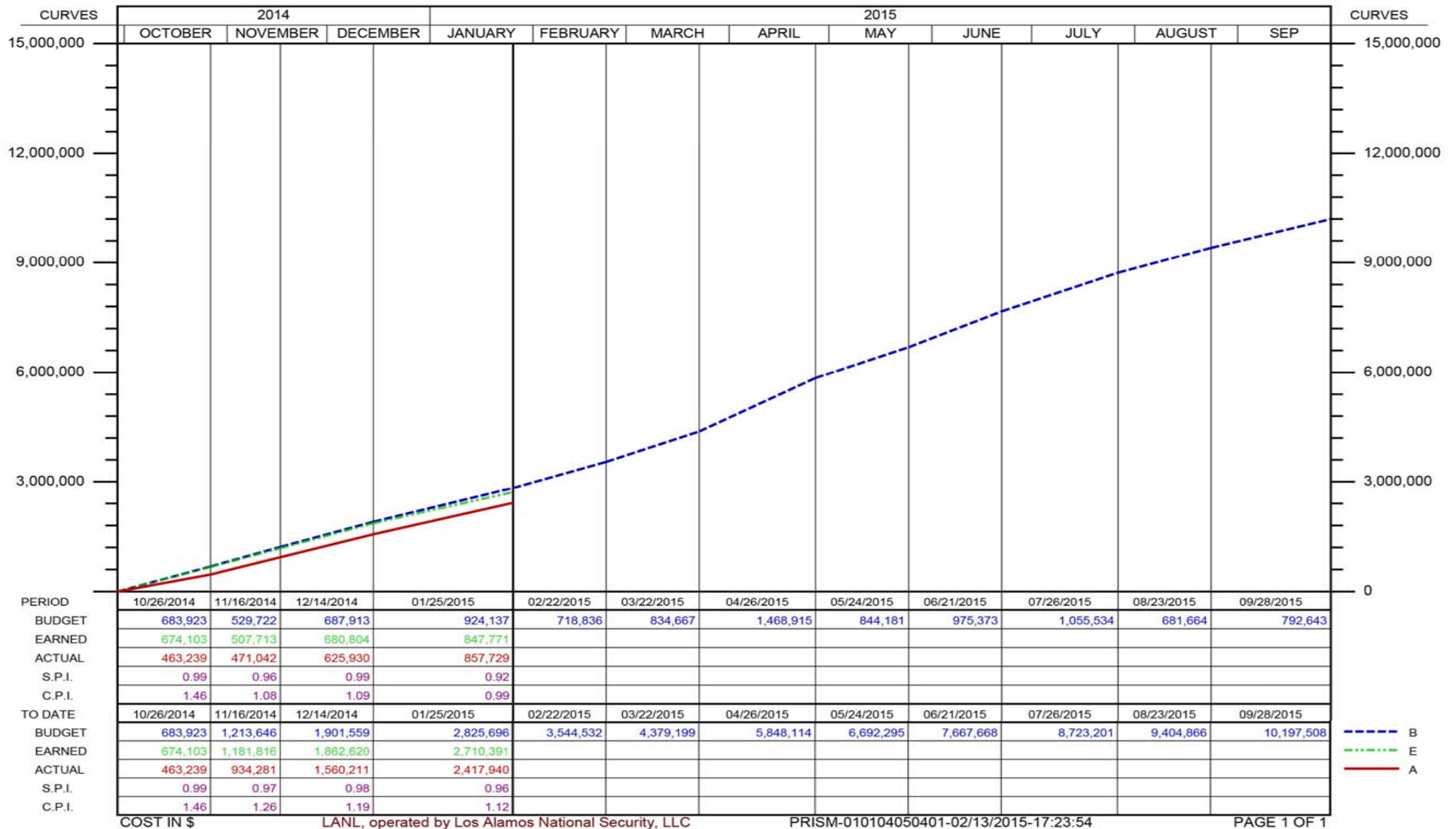
- None

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. Communicate and integrate frequently with Power Supply surveillance, NE-75, and other programs to make the best use of available staff. 2. Request that LANL and LAFO management allow for increase in dose to staff assigned to this work. 3. 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.
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.	LANL continues to provide input at the monthly PRT meeting.
(b) (7)(F)	(b) (7)(F)	(b) (7)(F)	
UT Cold Development	Develop and install a cold UT inspection station at SM39 that will be used for (b) (7)(F).	1. Working with other LANL groups to determine if equipment and resources are available to inspect (b) (7)(F) at another LANL location.	Hardware bought and on-hand; equipment delivered at SM39; funding for development and installation has resumed in FY15.

2.7 Earned Value Metrics

PERFORMANCE S-CURVE 01.01.04.05.04.01 - Power Supply Production



3.0 Program and Manufacturing Support Services

MRT 5373	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, 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-123.1 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 (FY15 budget authority and FY14 carryover), time phased spend plan by month, actual to date expenditures, estimates to complete, commitments (liens or encumbrances)				
Activity	Baseline Date	Status/Comments	Completion Date	RGYB
October Report	November 24, 2014	Issued	November 24, 2014	BLUE
November Report	December 24, 2014	Issued	December 22, 2014	BLUE
December Report	January 24, 2015	Issued	January 23, 2015	BLUE
January Report	February 24, 2015	Issued	February 23, 2015	BLUE
February Report	March 24, 2015			GREEN
March Report	April 24, 2015			GREEN
April Report	May 24, 2015			GREEN
May Report	June 24, 2015			GREEN
June Report	July 24, 2015			GREEN
July Report	August 24, 2015			GREEN
August Report	September 24, 2015			GREEN

3.1 Program Management

- Supported the resumption scheduling effort with priority assignments and procedure list review.
- Managing FY2015 work packages.
- Working with other programs to insure shared scope, like preventive and corrective maintenance, are equitably portioned across programs.
- Increasing maintenance work to match increased funding.
- PF-4 Readiness:
 - Successfully Completed First Contractor Readiness Assessment (CRA) for (b) (7)(F)
 - The CRA was conducted from January 12-23, 2015
 - Report submitted on February 1, 2015
 - 2 pre-start findings and 3 post-start findings identified
 - The CRA Team concluded that (b) (7)(F) machining operations can safely proceed.
 - Developed Baseline Change Request (BCR) #1 to document adjustments to schedule
 - Re-ordered & consolidated planned assessments from December 2014 bins
 - Integrated other programmatic deliverables; e.g., TA-55 Reinvestment Project II construction work
 - Captured shift of (b) (7)(F) CRA start date from 12/8/14 to 1/12/15
 - Included FRA for Pit Flowsheet
 - Schedule remains paced by Criticality Safety Evaluation Documents (CSEDs) and we are actively working to optimize the use of criticality safety analyst resources.

3.2 Support

- Procurement and Warehousing
 - o The NPI-8 procurement team successfully processed 137 procurement requests this month. The team was able to work through the period without the development of a substantial (> 1 week) and permanent backlog.
 - o Warehouse transactions
 - o Warehouse distributions: 2,403
 - o Warehouse receipts: 1,666
 - o Cost of warehouse distributions: \$134,461
 - o Cost of warehouse receipts: \$145,461
 - o Change in warehouse valuation: \$10,624.
- Developed and implemented an enclosure database. Database is used to record current enclosure appurtenances, instruments/equipment, utilities and proposed modifications to these areas. A copy of database was provided to (b) (6) .
- Met with the institutional quality receipt inspection management team to brainstorm ideas to reduce cycle times (current = 90 days). Discussed the need for additional resources to support current as well as future demand (i.e., CMRR- REI/PEI, TA22, WR.) Solutions will require funding, resources and management support.
- Calibration
 - o PF-4 shutdown has impacted the number of items submitted for re-calibration compared to historical data for the same time periods. This is expected to change as PF-4 operations restart.
 - o A total of 42 M&TE items were calibrated in January. Achieved target cycle times for equipment turn around to avoid mission and deliverable impacts.
- Document Control and Records Management
 - o New DARs received by the team = 118
 - o New DARs received for MET-1 = 41
 - o New DARs received for MET-2 = 13
 - o Completed DARs by the team = 71
 - o Completed DARs for MET-1 = 19
 - o Completed DARs for MET-2 = 6
- Records Management Results
 - o Boxes indexed and shipped offsite = 10
 - o Boxes indexed and stored in VTR = 4.25
 - o Boxes received for processing = 0.0
- Preventive and Corrective Maintenance

Preventive Maintenance has been operating on a “replace as it fails” basis. In early FY2015, a detonator production and surveillance equipment plan will be compiled. This plan will include an investment prioritization along with a risk table.

 - o The NPI-3 TA-55 300/400 Area maintenance team processed the following tasks for January:
 - a. Trouble-call/Repairs GB Systems - 3 ea.
 - b. Preventive Maintenance GB Systems - 2 ea.
 - c. Trouble-call/Repairs Programmatic Equipment - 1 ea.
 - d. Preventive Maintenance Programmatic Equipment - 2 ea.
 - o SPDS Maintenance – 200 Area
 - e. Trouble-call/Repairs GB Systems - 4 ea. (Window Changes 200 Area).
 - o Projects Supported

- a. Foundry West (GB 351/354)
- b. (b) (7)(F) Upgrades
- c. (b) (7)(F) D&D - Decon, utility line disconnect, and Fissile Material Ops support, waste profiles.
- d. House Vac Pump replacement – initiated cold test set-up assembly and engineering design change to add chiller.
- e. Continued support for Limited Chilled Water system design and install for Welder.
- f. Transition spool and replacement window design – Ready for Prototype procurement/fab – specification development
- g. Power Source Aqueous Line re-design support
- h. Blank off plate – repair of degraded GB penetration cover panel.
- i. Supporting MET-1 maintenance plan development for all furnace ops – cont..
- j. Pu238 MM upgrade options –
- k. Foundry project and (b) (7)(F) repair support
- l. TRP – Seismic Upgrade support on GB's in 327 and 429.
- o The NPI-3 TA-55 Plantwide Issues support - maintenance team processed the following tasks for January:
 - Decon support for ESS upgrades - Safety Upgrades support for sprinkler guards (GB flood prevention and fire protection issues)
 - a. Trouble-call/Repairs GB Systems - ea .
 - b. Preventive Maintenance GB Systems - 0 ea.
 - c. NPI-3/NPI-7 working water discard issues (RCRA and crit safety) (continued)
 - d. GB Decontamination Requests - 1 in 300 area, 4 in 200 Area (incl. window changes), and (b) (3) wipe down
 - e. Trolley glove inspection and change-out support
- Work Management and Control
 - a. Supported Readiness Assessments – (b) (7)(F) CRA, Balance of Machining, IFITs, and Pit Flowsheet MSAs. 1 new PM package fire suppression inspection
 - b. 1 Corrective Packages for window change for intro
 - c. MEL and History input
 - d. Scoping and resource estimates for backlog and repair of ~50 contamination sources.
 - e. Initiated Annual Maintenance Work Plan (AMWP) development for Glovebox and other Programmatic Safety Basis listed equipment.
 - f. PM/CM Performance review based on FY14 equipment history briefs and work order issues- reviewed GB Torque issues and filter change.
 - g. P950 Conduct of Maintenance management assessment by MSS

3.3 Issues

Metrology

- Facility environmental control issues put program calibrations at risk in January. Due to aging equipment, required humidity levels for electrical calibrations fell below minimum, causing calibrations to have to proceed at the discretion of the calibrator. Fortunately no calibrations were affected by the condition.
- The process is underway to replace the S&CL's current metrology information management system "Mudcats." Customer input is being sought and vendor requirements are being developed.

- Directorate-driven campaigns to revisit space issues can potentially impact efforts made in the past by Pu Sustainment and DSW programs to address 'one-deep' areas. Where redundant capability was established, equipment may be earmarked for salvage or inactivation.
- The ASM-implemented M&TE accountability project aimed at identifying all LANL M&TE in the LANL Sunflower accountability system was completed for S&CL-owned standards and equipment.

3.4 Variance Analysis and Recovery Plan

- Through month end October spending relative to planned at the MAL level. Some work packages are underrunning while others are overrunning; working with work package managers to ensure spending tracks closely to planned rates with exceptions fully explained.

3.5 BCRs

- None

3.6 Earned Value Metrics

PERFORMANCE S-CURVE

01.01.04.05.06.01 - Program Support



4.0 Facilities and Readiness/Waste and Institutional Support

4.1 Technical Progress

- TA-54 has indicated that they are at ~ 85-90% of their safety basis-mandated composite source term limit.

4.2 Equipment

- None

4.3 Issues

- Basement MAR is at 66% capacity.
- No 55-gallon drums can be shipped to TA-54 as a result of a recently declared PISA
- During a recent management assessment of safety basis quality at the waste facilities, several Unreviewed Safety Question (USQ) documents were reviewed. During this review, it was discovered that approximately one year ago the USQ process determined that a maintenance activity, which temporarily altered the configuration of a TSR Design Feature and a Specific Administrative Control, did not involve a USQ (i.e., resulted in a negative determination). The maintenance activity was conducted and the TSR Design Feature and SAC were restored to normal configuration as described in the DSA/TSRs. The maintenance activity and resulting change to the Design Feature and SAC constituted a non-approved change to the TSRs. In accordance with *SBP-112-3-R1.2, Unreviewed Safety Question Process*, any change to the TSRs requires DOE/NNSA approval prior to implementation of the change, and, therefore, does not enter the USQ process. This incorrect use of the USQ process and subsequent maintenance activity resulted in a TSR violation as confirmed at a fact-finding meeting held shortly after the incident.

4.4 Variance Analysis and Recovery Plan

- None

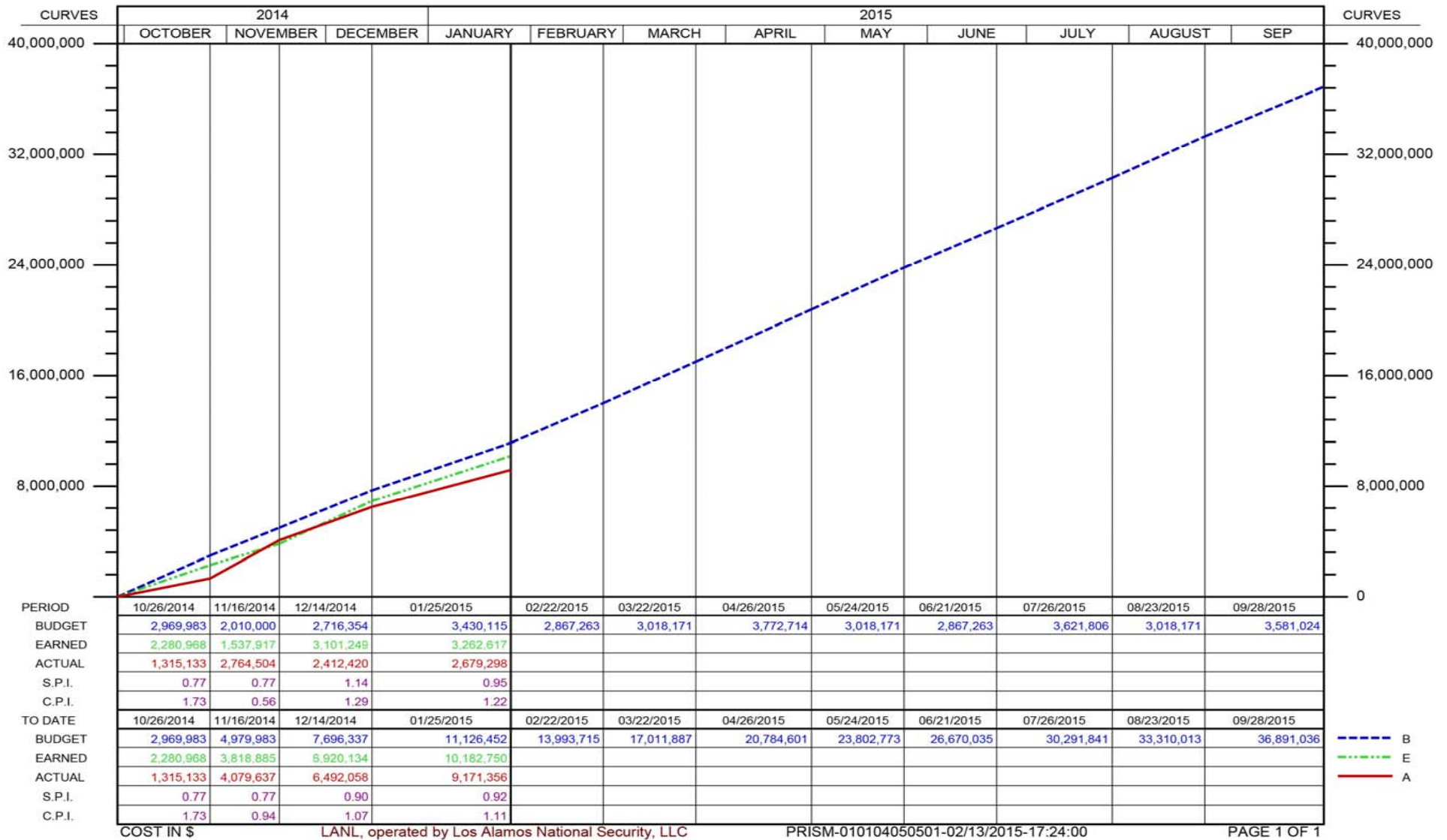
4.5 BCRs

- None

4.6 Earned Value Metrics

PERFORMANCE S-CURVE

01.01.04.05.05.01 - RTBF Recovery



COST IN \$

LANL, operated by Los Alamos National Security, LLC

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PERFORMANCE S-CURVE

01.01.04.05.02 - Waste & Other Landlord Recover

