

***Pu Sustainment
Monthly Program Review***

**Monthly Management Review
February, 2011**

(b) (6)

, Program Director

Integrated Program Management, IPM-2

January Accomplishments

- The cold foundry installation is on budget but technical problems recently discovered with protocol communication between the pallet and the control system and vendor delays in shipping needed plumbing hardware are causing schedule concerns. The final designs of interlock chassis and wire connection diagram are now behind schedule. The installation of the 480, 208 and 120 V wiring was initially estimated to take three weeks is now estimated at six weeks. These impacts on schedule are under investigation to determine the impact if any to the end of the year L3 milestone.
- The pit production IPT had a successful IPT Meeting at Livermore on February 16-17 addressing a number of topics including specifications and drawing updates, as well as test plans for assembly assessments at LLNL. Additionally LLNL has updated approximately 50% of the required drawings for the design definition update milestone.

(b) (7)(F)

January Accomplishments (cont)

- (b) (7)(F) **Analytical tests were performed on feed metals.** (b) (7)(F)
- (b) (7)(F)
Higher powers were used than in previous experiments to try and match defocused electron beam welds. The parts are waiting to be cross sectioned for Metallography.
- **During February, Pu Sustainment Operations achieved the following:**
 - Began assembly of (b) (7)(F)
 - Completed manufacture of (b) (7)(F) (b) (7)(F)
 - Completed manufacture of a (b) (7)(F)
 - (b) (7)(F)

Issues/Changes/Coming Attractions

■ Issues resolution from January

- (b) (7)(F) (b) (7)(F)
- Evaluation of the (b) (7)(F) which were taken off line for radiation leakage. Acceleration of the lift mechanism upgrades for the foundry life extension project will be required to return furnaces to operation. BCR is being prepared to re-align equipment scope to allow for this work.
- (b) (7)(F) and will be accepted as is.

■ New or remaining issues.

- (b) (7)(F) A new tooling fixture is under development.

- ## ■ Baseline Change Control –
- None this month – Preparation for an extensive BCR to bring the baseline into alignment with a protracted continuing resolution, incorporate the scaling experiment project, and equipment projects re-alignment is under preparation.

Issues/Changes/Coming Attractions(cont)

■ Coming Attractions

- Br. General Finan, DP10, March 2, 2011
- Chairman Frelinghuysen – House Energy & Water, March 3rd – 4th at LANL
- Center for International Security and Cooperation, March 10th – 11th at LANL
- (b) (3), (b) (6)
- ICBM Weapons School, March 18th at LANL
- Mission Committee, March 21st – 24 in Washington D.C.
- (b) (3) April 4th – 8th in Nevada
- Second quarterly review for Pu Sustainment, April 12th – 13th at LLNL.

February 2011 Matrix

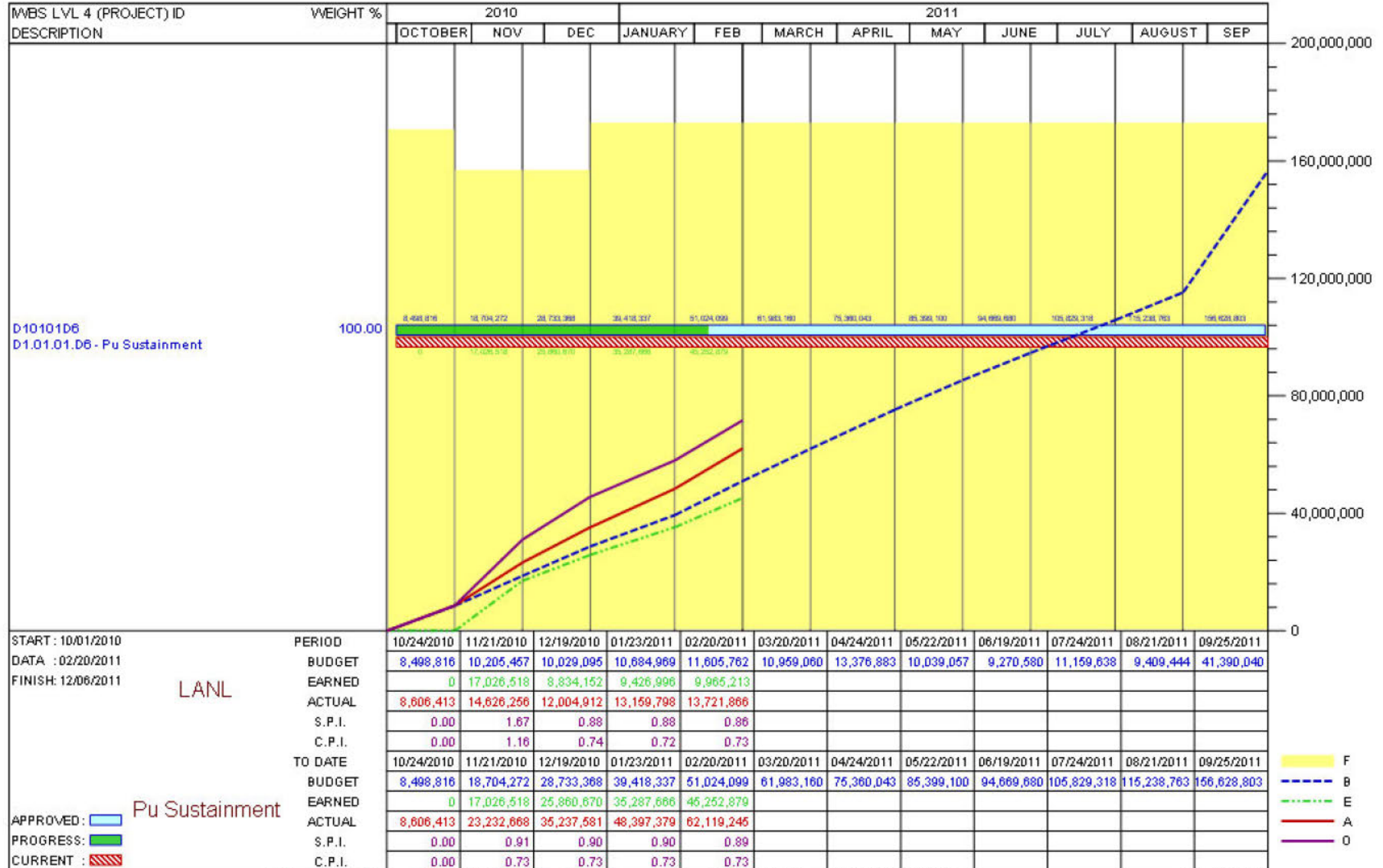
Product/Process Performance											
			Foundry (b) (6) NCO-1 (b) (6) MET-2	Machining (b) (6) NCO-1 (b) (6) MET-2	Analytical (b) (6) AAC	Welding (b) (6) NCO-1 (b) (6) MET-2	Assembly (b) (6) NCO-1	Dim. Inspect (b) (6) QA-DI (b) (6)	NDE (b) (6) AET-6	MET (b) (6) MST-16	NCM (b) (6) MST-6
Product Performance (Weight 40%)	Schedule (b) (6)	Weight 0.1	SD: 00 CP:00 100%	SD: 00 CP:00 100%	SD: 00 CP:00 100%	SD: 00 CP:00 100%	SD: 04 CP:00 86%	SD: 00 CP:00 100%	SD: 00 CP:00 100%		
	Product Quality (b) (6)	Weight 0.1	A:2 U:1 67%	A:0 U:3 0%	A:0 U:0 100%	A:0 U:0 100%	A:0 U:0 100%	A:0 U:0 100%	A:0 U:0 100%		
	Process Quality (b) (6)	Weight 0.1	NCR: 01 90%	NCR: 04 85%	NCR: 00 100%	NCR: 00 100%	NCR: 00 100%	NCR: 00 100%	NCR: 00 100%		
	Product Documentation (b) (6)	Weight 0.1	I:06 90%	I:01 90%	I:00 90%	I:00 100%	I:00 100%	I:00 100%	I:N/A 100%		
Product Performance Subtotal			87%	69%	98%	100%	96%	100%	100%		
Process Performance (Weight 60%)	M&TE (b) (6)	Weight 0.12	Ex:02 90%	Ex:01 90%	Ex:00 100%	Ex:11 50%	Ex:01 90%	Ex:03 85%	Ex:00 100%		
	Preventive Maintenance (b) (6)	Weight 0.12		Ex:0, Df:0 90%	Ex:0, Df:0 100%		Ex:0, Df:0 100%				
	WI/Document Control (b) (6)	Weight 0.12	Exp:0 Ext:0 100%	Exp:0 Ext:0 100%	Exp:0 Ext:0 100%	Exp:0 Ext:0 100%	Exp:0 Ext:0 100%	Exp:0 Ext:0 100%	Exp:0 Ext:0 100%		
	Training (b) (6)	Weight 0.12	0:0, 1:0 95%	0:0, 1:0 95%	0:0, 1:3 85%	0:0, 1:0 95%	0:0, 1:1 85%	0:0, 1:0 95%	0:0, 1:0 95%		
	Process Materials (b) (6)	Weight 0.12	EP:00 ED:00 100%	EP:00 ED:00 100%	N/A N/A	EP:00 ED:00 100%	EP:00 ED:00 100%	EP:00 ED:00 100%	EP:00 ED:00 100%		
	Process Performance Subtotal		96%	95%	96%	86%	95%	95%	99%		
Total Score		92%	85%	97%	92%	96%	97%	99%			

FY11 Level 2 Milestones DSW – Pu Sustainment

MRT ID	MRT Description	Due Date/ Status	Comments
	Pu Sustainment - LANL		
3712	(b) (7)(F) PEP	9/30/11	
3714	D&D of (b) (7)(F) IAW...PEP	9/30/11	
3715	(b) (7)(F) PEP	9/30/11	
3716	(b) (7)(F)	9/30/11	(b) (7)(F) JTA Mock Pit #8 (built by Surveillance in FY10) was declared defective by Pantex. Issues with future builds #9 - #15 by Pu S have developed. Among them is a revocation of the Mock Pits' Quality Assurance Plan (QAP). The Pu S Pit Mfg QAP is now being used. Additional Materials characterization will be required. TPC will potentially approach the high end of the original estimate (\$3M).
	Pu Sustainment – Power (LANL)		
3713	(b) (7)(F) PEP	9/30/11	(b) (7)(F)
	Pu Sustainment - LLNL		
3712	(b) (7)(F) PEP	9/30/11	
3715	(b) (7)(F) PEP	9/30/11	

PERFORMANCE BARCHART AND S-CURVE

Pu Sustainment Overall



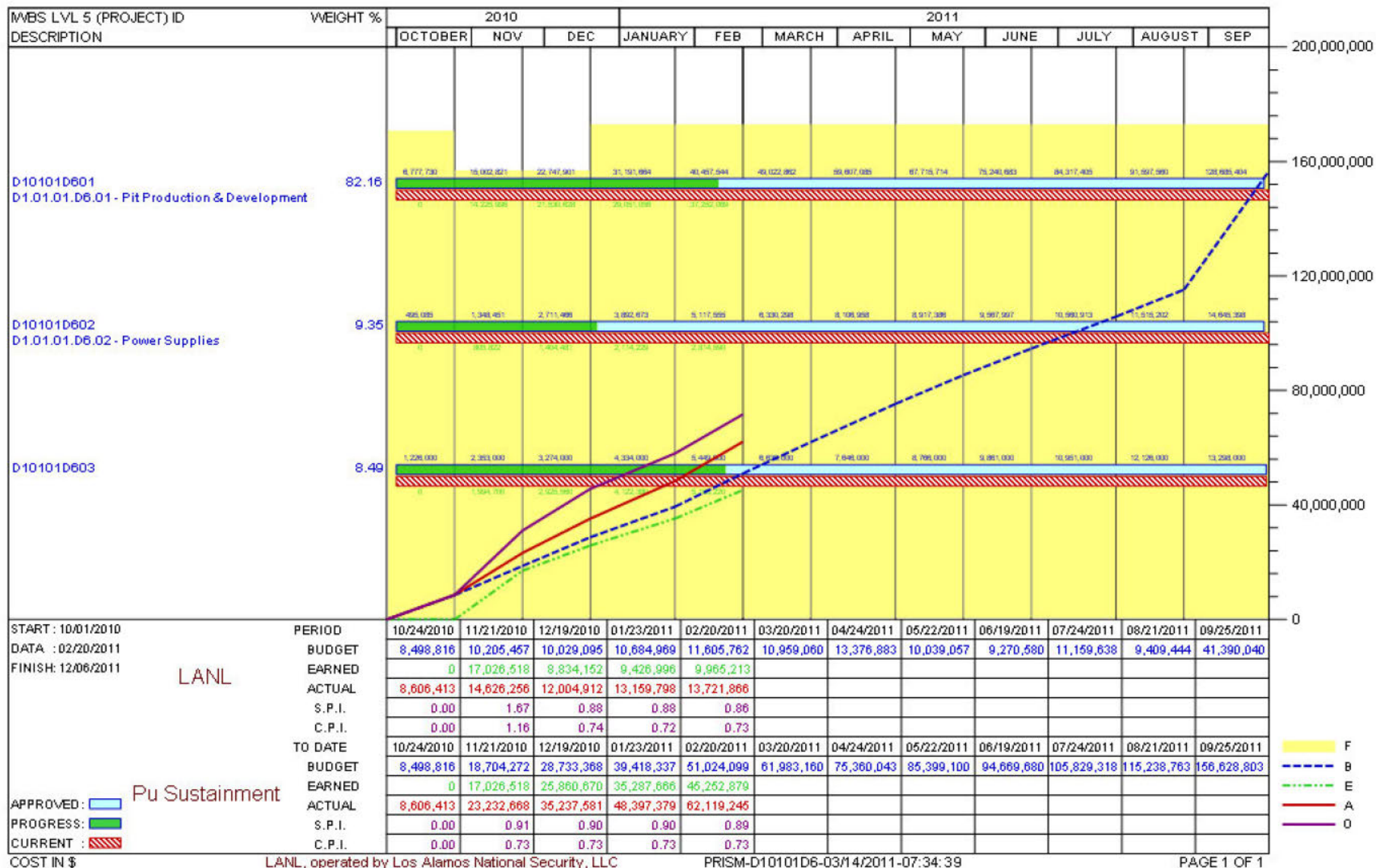
COST IN \$ LANL, operated by Los Alamos National Security, LLC

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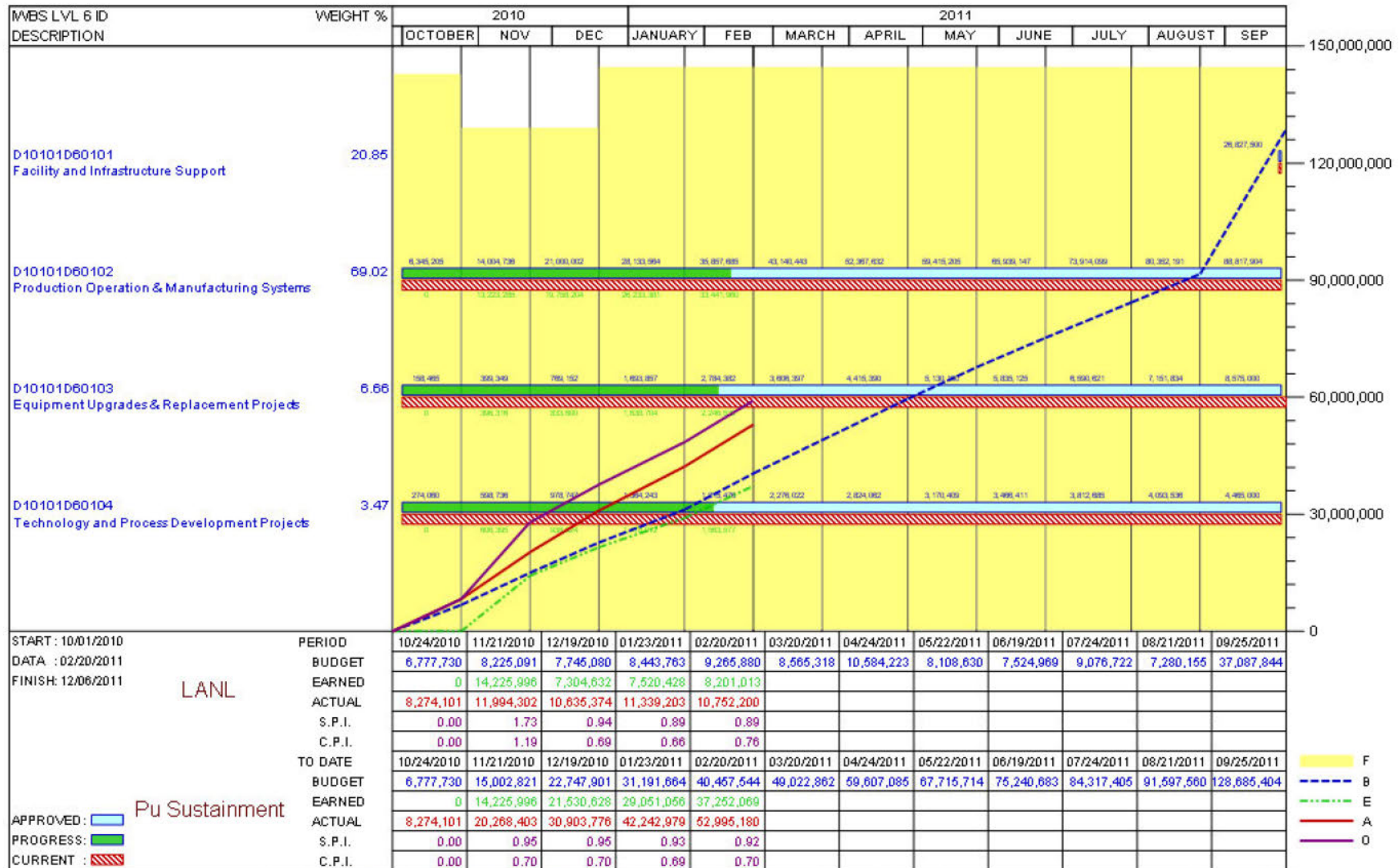
PERFORMANCE BARCHART AND S-CURVE

Pu Sustainment Overall



PERFORMANCE BARCHART AND S-CURVE

Pit Production & Development IWBS Level 5



COST IN \$

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PERFORMANCE BARCHART AND S-CURVE

Power Supplies - IWBS Level 6

