

# 12 GeV Upgrade VARIANCE ANALYSIS REPORT

WBS: 1.3.4.1 - Construction Beam Transport Spreaders & Recombiners

**Control Account Manager: M. Bevins** 

For Period Ending: Aug 13

12 GeV 1.3.4.1	SCHEDULE FLAG				COST FLAG				
	(A)	(B)	(B-A)	(B/A)	(C)	(D)	(C-D)	(C/D)	
Values are in \$K Dollars (other than SPI & CPI)	Planned Value	Earned Value	Schedule Variance	Schedule Perform Index	Earned Value	Actual Cost	Cost Variance	Cost Perform Index	
	BCWS	BCWP	sv	SPI	BCWP	ACWP	CV	CPI	
Month of Aug-13	50	50	0	0.99	50	267	-217	0.19	
Cumulative	8438	8308	-130	0.98	8308	11337	-3028	0.73	

Yellow Flag: Index <.9 / >1.1 OR Variance > \$25K Red Flag: Index <.8 / >1.2 AND Variance > \$50K

# 1. Cause (Address Variances Individually)

CV: The bulk of the negative cumulative CV is the result of:

- 1) An optimistic estimate for the modification of the production drawings to incorporate the changes resulting from the adoption of the "Option B" S/R design. This was rework, so it results in a cost variance.
- Labor costs associated with the receipt inspection/measurement of dipoles. This effort was underestimated in the baseline.

The bulk of the Cv accumulated in Aug was due to higher than baseline costs for completion of installation tasks.

### 2. Proposed Solutions (Corrective Actions)

CV:

- 1) None. No offsetting corrective actions have been identified.
- 2) Working closely with septa magnet vendor and magnet measurement facility to complete magnet inspection and measurement activities as efficiently as possible.

Estimated Resolution By (Date): NA.

# 3. Impact on Project Cost/ Schedules

		Cost Variance Projection									
	CVcum	Sep	Oct	Nov	Dec						
Recoverable	- \$0	\$0	\$0	\$0							
Unrecoverable	-\$2990	-\$3250	-\$3300	-\$3300							
Error	-\$38	-\$38	-\$38	-\$38							

#### 4. Comments:

Control Account Manager :	Project Manager:
Michael E. Bevins	Leigh Harwood
	D. Miner for C. Rode

Aug	Planned Value	Earned Value	Schedule Variance	Schedule Perform Index	Earned Value	Actual Cost	Cost Variance	Cost Perform Index
	BCWS	BCWP	SV	SPI	BCWP	ACWP	CV	CPI
I2 GeV 1.3.4.1.1								
Month of Aug-13	0	0	0	No PV	0	35	-35	0.00
Cumulative	4169	4103	-65	0.98	4103	5094	-991	0.81
12 GeV 1.3.4.1.4								
Month of Aug-13	0	0	0	No PV	0	0	0	0.00
Cumulative	1550	1550	0	1.00	1550	2059	-508	0.75
I2 GeV 1.3.4.1.6								
Month of Aug-13	0	0	0	No PV	0	1	-1	0.00
Cumulative	466	466	0	1.00	466	732	-265	0.64
12 GeV 1.3.4.1.7								
Month of Aug-13	50	50	0	0.99	50	230	-181	0.22
Cumulative	2253	2189	-65	0.97	2189	3452	-1264	0.63