

12 GeV Upgrade VARIANCE ANALYSIS REPORT

WBS: 1.4.2.2 - Construction Hall B Detectors Control Account Manager: L. Elouadrhiri For Period Ending: Sep 13

12 GeV 1.4.2.2	SCHEDULE FLAG				COST FLAG				
Values are in \$K Dollars (other than SPI & CPI)	(A)	(B)	(B-A)	(B/A)	(C)	(D)	(C-D)	(C/D)	
	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 Sep-13	138	247	109	1.79	247	294	-47	0.84	
Cumulative	138	247	109	1.79	247	294	-47	0.84	

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

1. Cause (Address Variances Individually)

SV: The drivers of the positive cost variances are the tracking system SVT (\$37K), DC (\$49K) and FTOF (\$36K). For the SVT this is due to fabrication and testing of 5 production modules which is part of the FNAL deliverable first milestone. The DC this is due to efficient work of stringing of R1 at ISU: all 6 chambers are completed, and the first shipment to JLab is due this December, as well as to the completion of stringing of 5 of the 6 R3 chambers. For FTOF this is due to efficient work of assembly and testing of panel 1b, which was fabricated at University of South Carolina and then assembled and tested at JLab ahead of schedule. It will be ready for installation in October. The completion of FTOF 1-a refurbishment also helped generate positive SV.

2. Proposed Solutions (Corrective Actions)

SV: None, the P6 schedule will catch up.

Estimated Resolution By (Date):

3. Impact on Project Cost/ Schedules

Schedule Variance Projection						
Oct	Nov	Dec	Jan	Feb	Mar	
109	80	80	0	0	0	

4. Comments

In addition to tracking the detectors with positive variances we are also tracking the detectors that are showing slightly negative

cost and schedule variances. Particular attention is given to the mirror systems on both Cerenkov Counters (1.4.2.2.4.1

and 1.4.2.2.4.2).

Control Account Manager:	Project Manager:
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	D. Miner for C. Rode
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Sep	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
12 GeV 1.4.2.2.1								
Month of Sep-13	81	168	87	2.07	168	175	-8	0.96
Cumulative	81	168	87	2.07	168	175	-8	0.96
12 GeV 1.4.2.2.1.1								
Month of Sep-13	55	92	37	1.67	92	98	-6	0.94
Cumulative	55	92	37	1.67	92	98	-6	0.94
12 GeV 1.4.2.2.1.3								
Month of Sep-13	26	75	49	2.90	75	77	-1	0.98
Cumulative	26	75	49	2.90	75	77	-1	0.98
12 GeV 1.4.2.2.2								
Month of Sep-13	8	12	5		12	14	-2	0.87
Cumulative	8	12	5	1.63	12	14	-2	0.87
12 GeV 1.4.2.2.2.3								
Month of Sep-13	8	12	5	1.63	12	14	-2	0.87
Cumulative	8	12	5	1.63	12	14	-2	0.87
12 GeV 1.4.2.2.3								
Month of Sep-13	3	39	36	14.46	39	39	0	1.01
Cumulative	3	39	36	14.46	39	39	0	1.01
12 GeV 1.4.2.2.3.1								
Month of Sep-13	1	1	0	1.00	1	14	-14	0.04
Cumulative	1	1	0	1.00	1	14	-14	0.04
12 GeV 1.4.2.2.3.2								
Month of Sep-13	2	38	36	18.49	38	24	14	1.58
Cumulative	2	38	36	18.49	38	24	14	1.58
12 GeV 1.4.2.2.4								
Month of Sep-13	46	28	-19	0.60	28	65	-38	0.42
Cumulative	46	28	-19	0.60	28	65	-38	0.42
12 GeV 1.4.2.2.4.1								
Month of Sep-13	39	25	-14	0.64	25	48	-23	0.52
Cumulative	39	25	-14	0.64	25	48	-23	0.52
12 GeV 1.4.2.2.4.2								
Month of Sep-13	8	3	-5	0.36	3	18	-15	0.15
Cumulative	8	3	-5	0.36	3	18	-15	0.15