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forProject Technology, Inc.

COST & SCHEDULE VARIANCES

$$CV = BCWP - ACWP$$

$$SV = BCWP - BCWS$$

$$CV\% = \frac{BCWP - ACWP}{BCWP} \times 100$$

$$SV\% = \frac{BCWP - BCWS}{BCWS} \times 100$$

PERFORMANCE INDICES / PERCENTAGES

$$CPI = \frac{BCWP}{ACWP}$$

$$SPI = \frac{BCWP}{BCWS}$$

$$TCPI (BAC) = \frac{BAC - BCWP}{BAC - ACWP}$$

$$TCPI (EAC) = \frac{BAC - BCWP}{EAC - ACWP}$$

$$\% \text{ Complete} = \frac{BCWP}{BAC} \times 100$$

$$\% \text{ Scheduled} = \frac{BCWS}{BAC} \times 100$$

$$\% \text{ Spent (BAC)} = \frac{ACWP}{BAC} \times 100$$

$$\% \text{ Spent (EAC)} = \frac{ACWP}{EAC} \times 100$$

AT-COMPLETION VALUES

$$EAC = ACWP + ETC$$

$$ETC = EAC - ACWP$$

$$VAC = BAC - EAC$$

INDEPENDENT EACS

$$IEAC (CPI) = ACWP + \frac{BCWR}{CPI}$$

$$IEAC (3\text{-Period Avg}) = ACWP + \frac{BCWR}{CPI (3\text{-Period Avg})}$$

$$IEAC (0.8 CPI + 0.2 SPI) = ACWP + \frac{BCWR}{0.8 CPI + 0.2 SPI}$$

$$IEAC (CPI \times SPI) = ACWP + \frac{BCWR}{CPI \times SPI}$$

Earned Value Quick Reference – Acronyms

ACWP	Actual Cost of Work Performed
AE	Apportioned Effort
ATB	Above Target Budget
AUW	Authorized Unpriced Work
BAC	Budget at Completion
BCWP	Budgeted Cost for Work Performed
BCWR	Budgeted Cost of Work Remaining
BCWS	Budgeted Cost for Work Scheduled
CA	Control Account
CAM	Control Account Manager
CAP	Control Account Plan
CBB	Contract Budget Base
CPI	Cost Performance Index
CTC	Contract Target Cost
CV	Cost Variance
EAC	Estimate at Completion
EOC	Elements of Cost
ETC	Estimate to Complete
G&A	General & Administrative
IBR	Integrated Baseline Review
IEAC	Independent Estimate at Completion
IMP	Integrated Master Plan
IMS	Integrated Master Schedule
IPMDAR	Integrated Program Management Data & Analysis Report
IPMR	Integrated Program Management Report
IPT	Integrated Product Team
LOE	Level of Effort
MR	Management Reserve
NCC	Negotiated Contract Cost
OBS	Organizational Breakdown Structure
ODC	Other Direct Cost
OTB	Over Target Baseline
OTS	Over Target Schedule
PMB	Performance Measurement Baseline
PP	Planning Package
QBD	Quantifiable Backup Data
RAM	Responsibility Assignment Matrix
SLPP	Summary Level Planning Package
SPI	Schedule Performance Index
SRA	Schedule Risk Assessment
SV	Schedule Variance
TAB	Total Allocated Budget
TCPI	To Complete Performance Index
UB	Undistributed Budget
VAC	Variance at Completion
VAR	Variance Analysis Report
WBS	Work Breakdown Structure
WP	Work Package



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