EARNED VALUE MANAGEMENT

‘GOLD CARD’

VARIANCES
Positive is Favorable, Negative is Unfavorable

OVERALL STATUS

Cost Variance
CV = BCWP – ACWP
CV% = ((CV) / BCWP) * 100

Schedule Variance
SV = BCWP – BCWS
SV% = ((SV) / (BCWSP/BWSP)) * 100

Variance at Completion
VAC = BAC – EAC
VAC% = ((VAC) / (BAC/BAC)) * 100

ECONOMIES

Eficiency
CPI = BCWP / ACWP
Favorable is > 1.0, Unfavorable is < 1.0

Schedule Efficiency
SPI = BCWP / BCWS
Favorable is > 1.0, Unfavorable is < 1.0

SCHEDULE METRICS (Selected)

BEI = Total Tasks Completed / (Total Tasks with Baseline Finish On or Prior to Current Report Period + Tasks without baseline finish dates)

Hit Task % = 100 * (Tasks in Denominator that Completed ON or Before Baseline Finish / Tasks Baselined to Finish within current Report Period)

ESTIMATE COMPLETION

EAC_CPI = ACWP_CUM + [(BAC – BCWP_CUM) / CPI_CUM]

EAC_Composite = ACWP_CUM + [(BAC – BCWP_CUM) / CPI_CUM + SPI_CUM]

TO COMPLETE PERFORMANCE INDEX (TCPI) §

TCPI Target = Work Remaining / Cost Remaining = (BAC – BCWP_CUM) / (Target – ACWP_CUM)

§ To Determine the TCPI for BAC, LRE, or EAC Substitute Target with BAC, LRE, or EAC

§ To Determine the Contract Level TCPI for EAC, You May Replace BAC with TAB

ACRONYMS

ACWP Actual Cost of Work Performed
ALUW Authorized Unpriced Work
BAC Budget At Completion
BCWP Budgeted Cost for Work Performed
BCWS Budgeted Cost for Work Scheduled
CA Control Account
CBB Contract Budget Base
EAC Estimate At Completion
LRE Latest Revised Estimate
MR Management Reserve
NCC Negotiated Contract Cost
OTB Over Target Baseline
PAC Price At Completion
PP Performance Measurement Baseline
PMB Planning Package
SLPP Summary Level Planning Package
TAB Total Allocuated Budget
TCPI To Complete Performance Index
UB Undistributed Budget
WP Work Package

EVMS POLICY:
DoDI 5000.02, Enclosure 1. Table 8. EVM in accordance with EIA-748 is required for cost or incentive contracts, subcontracts, intra-government work agreements, & other agreements valued > $20M (TY $). Contracts > $100M# (TY $) require that the EVMS be formally validated by the cognizant contracting officer. # Class Deviation-Earned Value Management System Threshold (9/1/15)

DoD’s EVM CONTRACTING REQUIREMENTS:

§ To Determine the TCPI for BAC, LRE, or EAC Substitute Target with BAC, LRE, or EAC

§ To Determine the Contract Level TCPI for EAC, You May Replace BAC with TAB

DoD’s EVM CONTRACTING REQUIREMENTS:

DFARS CLAUSES

252.234-7011 “NOTICE OF EVMS FOR SOLICITATIONS”
252.234-7002 “EVMS FOR SOLICITATIONS & CONTRACTS”
252.242-7005 “CONTRACTOR BUSINESS SYSTEMS” FOR SOLICITATIONS & CONTRACTS

Integrated Program Mngt Report DI-MGMT-81650A * 7 FORMATS = WBS, OBS / IPT, BASELINE, STAFFING, EXPLANATIONS & PROB ANALYSES, IHR, HISTORY / FORECAST COST

INTEGRATED BASELINE REVIEW MANDATORY FOR ALL CONTRACTS THAT HAVE EVM INVOKED ON THE CONTRACT

WBS For Defense Materiel Items MIL-STD-881D

EVM CoP: https://www.dau.mil/cop/evm

eMail Address: EVM.dau@dau.mil

Revised SEP 2018