

VARIANCES
Cost VarianceFavorable is Positive, Unfavorable is NegativeCost VarianceCV = BCWP - ACWPCV % = (CV / BCWP) *100Schedule VarianceSV = BCWP - BCWSSV % = (SV / BCWS) *100Variance at CompletionVAC = BAC - EACOVERALL STATUS% Schedule $= (BCWP_{CUM} / BAC) * 100$ % Complete $= (BCWP_{CUM} / BAC) * 100$ % Spent $= (ACWP_{CUM} / BAC) * 100$ DoD TRIPWIRE METRICS

TwCost EfficiencyCPI = BCWP / ACWPFavorable is > 1.0, Unfavorable is < 1.0</th>TwSchedule EfficiencySPI = BCWP / BCWSFavorable is > 1.0, Unfavorable is < 1.0</td>

TW BASELINE EXECUTION INDEX (BEI) = A Schedule Metric

BEI = Tasks with Actual Finish Date / (# of Baseline Tasks Scheduled to Finish Prior to Status Date

+ Tasks Missing Baseline Start or Finish Date)

TW CRITICAL PATH LENGTH INDEX (CPLI) = A Schedule Metric

CPLI = (CP Length (Time Now To Contract End)) + Total Float (To Contract End Baseline Finish) / CP Length

Hit / Miss = Month's Tasks Completed ON or AHEAD / Month's Tasks Scheduled to Complete

# ESTIMATE AT COMPLETION (AC) = Actuals to Date + [(Remaining Work)/(Performation)	ance Factor)]

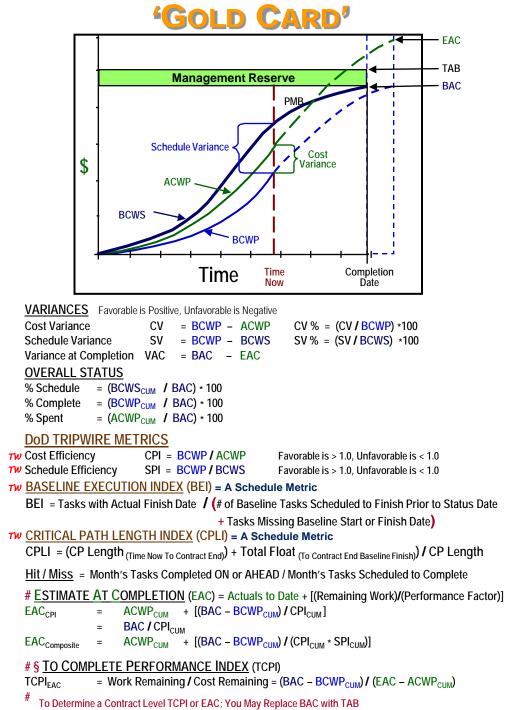
EAC _{CPI}	=	ACWP _{CUM} + [(BAC – BCWP _{CUM}) / CPI _{CUM}]
	=	BAC / CPI _{CUM}
EAC _{Composite}	=	$ACWP_{CUM} + [(BAC - BCWP_{CUM}) / (CPI_{CUM} * SPI_{CUM})]$

§ TO COMPLETE PERFORMANCE INDEX (TCPI)

TCPI_{EAC} = Work Remaining / Cost Remaining = (BAC – BCWP_{CUM}) / (EAC – ACWP_{CUM})

[#] To Determine a Contract Level TCPI or EAC; You May Replace BAC with TAB

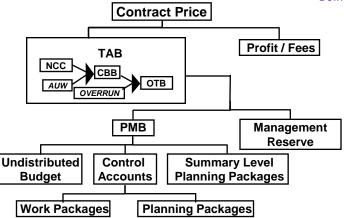
§ To Determine the TCPI BAC or LRE Replace EAC with BAC or LRE



EARNED VALUE MANAGEMENT

§ To Determine the TCPI BAC or LRE Replace EAC with BAC or LRE

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ACRONYMS

_		ontrine		
		Actual Cost of Work Performed	Cost of work accomplished	= ACTUAL COST
Αl	JW	Authorized Unpriced Work	Work contractually approved, but not yet neg	gotiated / definitized
B/	AC	Budget At Completion	Total budget for total contract thru any giver	1 level
B	CWP	Budgeted Cost of Work Performed	Value of work accomplished	= EARNED VALUE
B	CWS	Budgeted Cost of Work Scheduled	Value of work planned to be accomplished	= PLANNED VALUE
C	4	Control Account	Lowest CWBS element assigned to a single	focal point to plan & control
			scope / schedule / budget	
CE	ЗB	Contract Budget Base	Sum of NCC & AUW	
EÆ	٩C	Estimate At Completion	Estimate of total Cost for total contract thru	any given level
			may be generated by Ktr, PMO, DCMA, etc.	$= EAC_{Ktr / PMO / DCMA}$
LF	RE	Latest Revised Estimate	Ktr's EAC or EAC _{Ktr}	
M	R	Management Reserve	Budget withheld by Ktr PM for unknowns / ri	sk management
N	CC	Negotiated Contract Cost	Contract Price Minus profit or fee(s)	
0	ΓВ	Over Target Baseline	Sum of CBB & recognized overrun	
PÆ	٩C	Price At Completion	NCC Plus Profit or Fee(s)	
P۱	ИΒ	Performance Measurement Baseline	Contract time-phased budget plan	
PF	2	Planning Package	Far-term CA activities not yet defined into W	/Ps
SL	_PP	Summary Level Planning Package	Far-term activities not yet defined into CAs	
TÆ	٨B	Total Allocated Budget	Sum of all budgets for work on contract = No	CC, CBB, or OTB
TC	CPI	To Complete Performance Index	Efficiency needed from 'time now' to achieve	e a BAC, EAC, or LRE
UE	3	Undistributed Budget	Broadly defined activities not yet distributed	to CAs
W	Р	Work Package	Near-term, detail-planned activities within a	
		-		

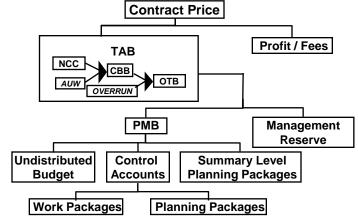
EVM POLICY: DoDI 5000.02, Encl 4. Table 5. EVMS in accordance with ANSI/EIA-748 is required for cost or incentive contracts, subcontracts, intra-government work agreements, & other agreements valued > \$20M (Then-Yr \$). EVMS contracts ≥ \$50M (TY \$) require that the EVM system be formally validated by the cognizant contracting officer. Additional Guidance in Defense Acquisition Guidebook & Earned Value Management Implementation Guide (EVMIG). EVMS is discouraged on Firm-Fixed Price & Time & Material Contracts; & LOE activities regardless of cost.

EVM CONTRACTING REQUIREMENTS:

FAR EVM Clauses NOT For DoD	– 52.234-2 for Solicitation = Pre-Award IBR or – 52.234-3 = Post Award IBR
	– 52.234-4 for Solicitation & Contract
For DoD ≥ \$20M DFARS CLAUSES	S – 252.234-7001 "Notice of EVMS" FOR Solicitations
	- 252.234-7002 "EVMS" FOR SOLICITATIONS & CONTRACTS
CONTRACT PERFORMANCE REPORT	- DI-MGMT-81466A [*] 5 Formats = WBS, Organization, Baseline, Staffing, Explanation
INTEGRATED MASTER SCHEDULE	– DI-MGMT-81650* MANDATORY FOR DOD EVMS CONTRACTS
INTEGRATED BASELINE REVIEW	- MANDATORY FOR ALL EVMS CONTRACTS

* See the EVMIG for CPR & IMS tailoring guidance

EVM Home Page = https://acc.dau.mil/evm eMail Address: EVM.dau@dau.mil **Revised September 2010**



ACRONYMS ACWP Act

ACWF	P Actual Cost of Work Performed	Cost of work accomplished	= ACTUAL COST
AUW	Authorized Unpriced Work	Work contractually approved, but not yet neg	gotiated / definitized
BAC	Budget At Completion	Total budget for total contract thru any giver	i level
BCWF	P Budgeted Cost of Work Performed	Value of work accomplished	= EARNED VALUE
BCWS	Budgeted Cost of Work Scheduled	Value of work planned to be accomplished	= PLANNED VALUE
CA	Control Account	Lowest CWBS element assigned to a single scope / schedule / budget	focal point to plan & control
CBB	Contract Budget Base	Sum of NCC & AUW	
EAC	Estimate At Completion	Estimate of total Cost for total contract thru	
		may be generated by Ktr, PMO, DCMA, etc.	= EAC _{Ktr / PMO / DCMA}
LRE	Latest Revised Estimate	Ktr's EAC or EAC _{Ktr}	
MR	Management Reserve	Budget withheld by Ktr PM for unknowns / ri	sk management
NCC	Negotiated Contract Cost	Contract Price Minus profit or fee(s)	
OTB	Over Target Baseline	Sum of CBB & recognized overrun	
PAC	Price At Completion	NCC Plus Profit or Fee(s)	
PMB	Performance Measurement Baseline	Contract time-phased budget plan	
PP	Planning Package	Far-term CA activities not yet defined into W	/Ps
SLPP	Summary Level Planning Package	Far-term activities not yet defined into CAs	
TAB	Total Allocated Budget	Sum of all budgets for work on contract = No	CC, CBB, or OTB
TCPI	To Complete Performance Index	Efficiency needed from 'time now' to achieve	e a BAC, EAC, or LRE
UB	Undistributed Budget	Broadly defined activities not yet distributed	to CAs
WP	Work Package	Near-term, detail-planned activities within a	CA

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