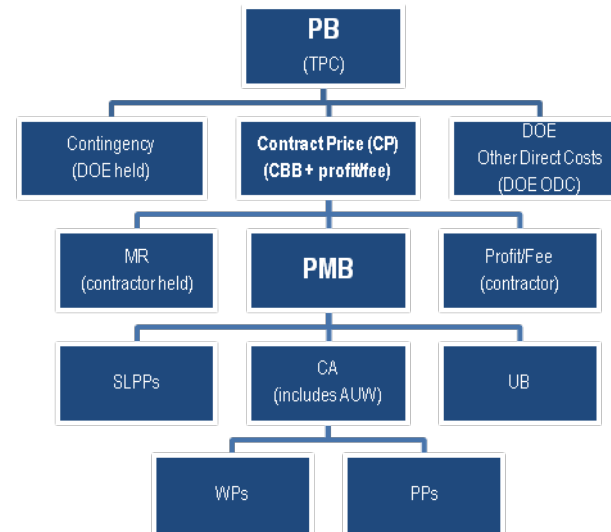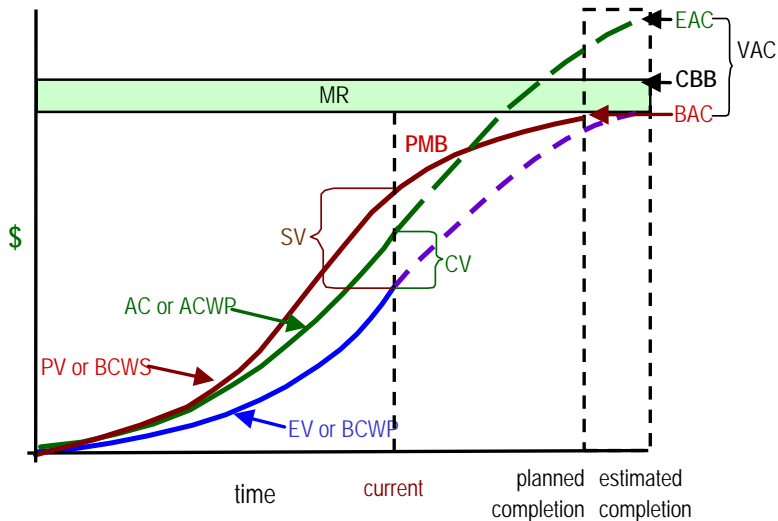# DOE EVMS GOLD CARD

PERFORMANCE BASELINE COMPONENTS

(Performance Baseline must clearly document scope/KPPs, TPC and CD-4 date)

AUW= Authorized Unpriced Work (contractually approved, but not yet negotiated)
CA   =   Control Account (includes AUW) = WPs + PPs
CBB =   Contract Budget Base = PMB + MR
CP   =   Contract Price = CBB + profit/fee
MR   =   Management Reserve is held by contractor (Contingency is held by DOE)
PB   =   Performance Baseline (TPC) = CP + Contingency + DOE ODC
PMB =   Performance Measurement Baseline = CAs + UB + SLPPs
PP   =   Planning Package (far-term activities within a CA)
SLPP =   Summary Level Planning Package
UB   =   Undistributed Budget (activities not yet distributed to CA)
WP   =   Work Package (near-term, detail-planned activities within a CA)

EVMS BASIC COMPONENTS*

AC= Actual Cost   =   ACWP   =   Actual Cost of Work Performed
EV= Earned Value   =   BCWP   =   Budgeted Cost of Work Performed
PV= Planned Value   =   BCWS   =   Budgeted Cost of Work Scheduled
BAC = Budget at Completion=   Σ BCWS   =   Sum of Budgeted Cost of Work Scheduled

*For analysis purposes, AC, EV and PV calculations may be based on various time periods, e.g., monthly, cumulative, last 3 months from CD-2 or BCP or internal replan.

VARIANCES*

CV	=	$EV - AC$		=	$BCWP - ACWP$	=	Cost Variance
SV	=	$EV - PV$		=	$BCWP - BCWS$	=	Schedule Variance
CV%	=	$(EV - AC) / EV$	=	$(BCWP - ACWP) / BCWP$	=	Cost Variance (%)
SV%	=	$(EV - PV) / PV$	=	$(BCWP - BCWS) / BCWS$	=	Schedule Variance (%)
VAC	=	$BAC - EAC$				=	Variance at Completion

OVERALL STATUS

% scheduled   = PV_{cum} / BAC = $BCWS_{cum} / BAC$
% complete   = EV_{cum} / BAC = $BCWP_{cum} / BAC$
% budget spent   = AC_{cum} / BAC = $ACWP_{cum} / BAC$
Work Remaining (WR) = $BAC - EV_{cum}$ = $BAC - BCWP_{cum}$

PERFORMANCE INDICES*

CPI   = EV / AC = $BCWP / ACWP$ =   Cost Performance Index
SPI   = EV / PV = $BCWP / BCWS$ =   Schedule Performance Index
$TCPI_{BAC}$ = $WR / (BAC - ACWP_{cum})$ =   BAC-based To Complete Performance Index
$TCPI_{EAC}$ = $WR / (EAC - ACWP_{cum})$ =   EAC-based To Complete Performance Index

COMPLETION ESTIMATES

EAC   = BAC / CPI_{cum} =   Estimate at Completion (general)
EAC_{CPI} = $AC_{cum} + WR / CPI_{cum}$ =   Estimate at Completion (CPI)
$EAC_{composite}$ = $AC_{cum} + WR / (CPI_{cum} \cdot SPI_{cum})$ =   Estimate at Completion (composite)
ETC   = $EAC - AC_{cum}$ =   Estimated to Complete