

# The [Whole] Truth about ANSI-Compliant EVMS

ICEAA Workshop
June 2013





#### Introduction

- EVMS that complies with ANSI/EIA 748(B)
   Standard often characterized as "good project management"
  - Basic concepts/principles of EVM can be likened to sound project management
  - "ANSI-compliant" EVM system much more than any contractor would do on their own
  - Downplaying expense/effort involved in achieving ANSIcompliance is fiscally irresponsible and borderline unethical





#### Outline

- Speaker Background
- What it means to be "ANSI-compliant"
- EVMS policy and why it exists
- The real reasons why it's so difficult
- Recommendations for improvement
- Conclusion
- Questions





# Speaker Background

- Currently
  - Managing Principal, Western Region and EVM Practice Lead for Project Time & Cost, Inc.
  - Immediate Past President of AACE International
  - Active member of both NDIA's PMSC and EFCOG's PMWG
- Formerly
  - Vice President of EVM for SM&A
  - Vice President of Project Controls for Parsons Government
     Group



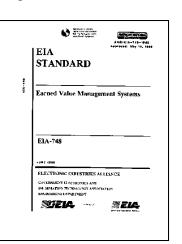


- Earned Value (EV)
  - Term for budgeted value of work that has been physically performed (also referred to as BCWP)
- Earned Value Management (EVM)
  - Management approach in which scope, schedule, and budget are integrated to better assess project performance
- ANSI-compliant EVM System (EVMS)
  - Detailed system that complies with ANSI/EIA-748(B)
     Standard
  - EVM ≠ EVMS





- ANSI/EIA-748(B)\* Standard
  - Spearheaded by NDIA Program
     Management Systems Committee (PMSC)
    - Issued in 1998
      - Adopted by DoD in 1999
    - Adopted by OMB in 2003 as best practice
      - Mandated by for "developmental" contracts in 2006
  - Transferred ownership from government to industry
    - Overarching intent to keep it general enough to build in flexibility



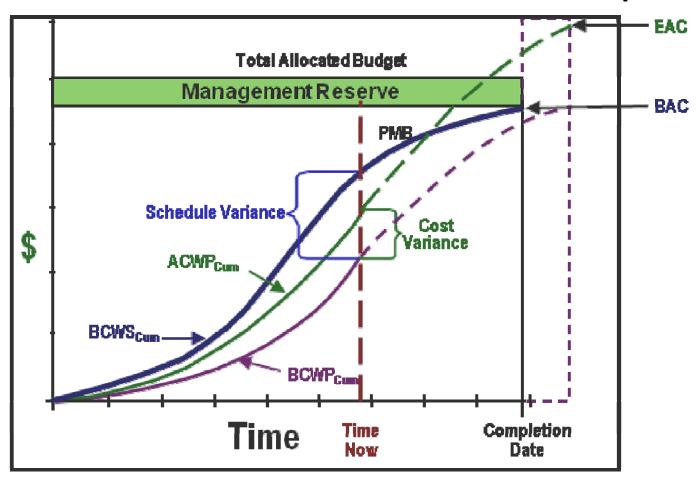




- Supporting Definitions
  - Control Account (CA)
    - Time-phased, management control point for cost, schedule, and work scope
    - "Detail planned" as work packages and planning packages
  - Summary Level Planning Packages (SLPPs)
    - Authorized work not yet detail planned
  - Performance Measurement Baseline (PMB)
    - Sum of all time-phased control account/SLPP budgets, plus UB
    - Basis for overall program management





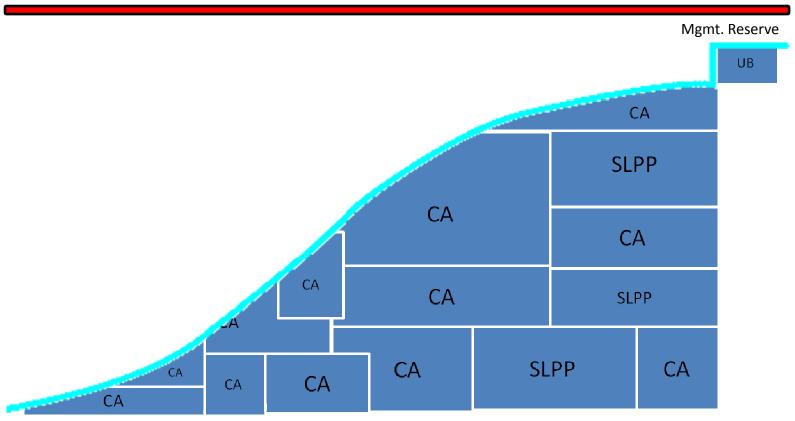


Source: DAU EVMS Gold Card 8









Source: SM&A EVMS Seminar





WP#	Item	<b>Totals</b>		
2.1.1	Earthwork	150		
2.1.2	Concrete	250		
2.1.3	Steel Structure	200		
2.1.4	Mechanical	150		
2.1.5	Electrical	150		
2.1.6	Arch Finishes	100		
	Total	1,000		

WP#	Item	June	July	Aug	Sept	Oct	Nov	Dec
2.1.1	Earthwork							
2.1.2	Concrete							
2.1.3	Steel Structure							
2.1.4	Mechanical							
2.1.5	Electrical							
2.1.6	Arch Finishes							

WP#	Item	<b>Totals</b>	June	July	Aug	Sept	Oct	Nov	Dec
2.1.1	Earthwork	150	50	50	50				
2.1.2	Concrete	250		80	110	60			
2.1.3	Steel Structure	200				80	100	20	
2.1.4	Mechanical	150				50	70	30	
2.1.5	Electrical	150				20	<b>5</b> 0	70	10
2.1.6	Arch Finishes	100					20	50	30
	Total	1,000	50	130	160	210	240	170	40
	Cumulative		50	180	340	550	790	960	1,000





## **EVMS Policy and Why it Exists**

- Current DoD Policy
  - "ANSI-compliant" EVMS required on cost/incentive type contracts \$20 million or more in value
  - "Validated" (by DCMA) as compliant if \$50 million or more
  - Integrated Master Schedule also required whenever EVMS is
- Other government agencies use slightly different thresholds
  - http://www.ndia.org/Divisions/Divisions/Procurement/Documents/PMSCommittee/CommitteeDocuments/OtherDocuments/AgencyEVMSPolicySummaryRev120109.pdf





## **EVMS Policy and Why it Exists**

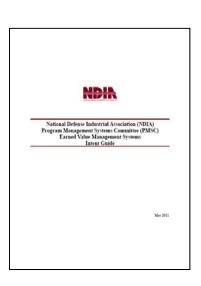
- Contract Type ≈ Risk Ownership
  - High Risk Contracts
    - Cost [Reimbursable]
      - Scope usually not well defined ("developmental")
      - "Best Efforts" contract
    - [Fixed Price] Incentive
      - Allowable costs reimbursed to contractor up to preset ceiling
      - Cost reimbursable nature still enough risk to require EVMS
- EVMS is Risk Management from DoD's perspective





## **EVMS Policy and Why it Exists**

- NDIA EVMS Intent Guide
  - Provides "additional insight into 32 guidelines identified in ANSI Standard"
    - All guidelines embedded within document
    - "Typical attributes" and "objective evidence" required for compliance purposes
  - Latest revision in May 2011
    - Available as free download from NDIA PMSC website (<a href="http://www.ndia.org/Divisions/Divisions/Procurement/Pages/Program Management Systems Committee.aspx">http://www.ndia.org/Divisions/Divisions/Procurement/Pages/Program Management Systems Committee.aspx</a>)







- Key requirements called out within ANSI Standard either not well understood or counter to commercial PM practices
  - Time phased budgets at control account level
    - Key role of control account manager (CAM)
  - Rolling wave planning process
  - Product-oriented WBS
  - Management reserve





- Key Elements of EVMS policy still not well understood
  - Risk ownership as basis for requirement
  - DoD requirements often thought to be encompassed within ANSI Standard
    - IMS requirement/reporting
    - Contract Performance Reports (CPRs)
    - Integrated Baseline Reviews (IBRs)
    - CPI/SPI
  - Non-DoD agencies often mistakenly assume that requiring an ANSI-compliant EVMS will invoke all of the above





- Contractor proposals often overlook EVMS-related costs
  - Lack of understanding by proposal management
    - PP&C leadership often not engaged during proposal
  - "Low bid mentality" often leads to low dollar values being proposed
    - Contractors often don't realize that EVMS-related costs are fully reimbursable
    - USG rarely seeks to verify that sufficient costs have been proposed





- The Validation Process
  - "Checklist mentality" fails to consider materiality of findings
    - Extended process diverts key resources from executing program
  - EVMS validation requirement has virtually no impact on DoD program execution/completion
    - Program execution proceeds even if validation not achieved
    - Recent DFAR business system rule changes intended to rectify this issue instead focus on penalizing contractor





#### Recommendations for Improvement

- Government agencies should consider the following:
  - Continue education and outreach effort
    - Implement requirements for recognized certifications\*
  - Dedicate certain % of proposed contract value to EVMS implementation/validation effort
    - Must include monetary incentive program for CAMs
  - Tie validation to key program milestones (PDR, CDR, etc.)\*\*
    - Implement graded approach based on materiality of findings

<sup>\*</sup> USCG already doing this

<sup>\*\*</sup> DOE already doing this





#### Conclusion

- True "ANSI-compliance" is determined at control account level
- DoD's EVMS policy exists to mitigate their risk in large cost/incentive contracts
- Several requirements in ANSI Standard are still misunderstood
- Three recommendations offered for how USG can make improvements to their contractual requirement





#### Questions?

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