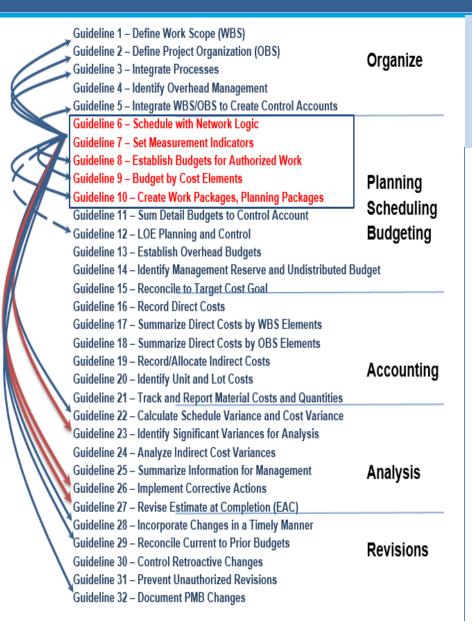
DOE Scheduling Tests and Processes



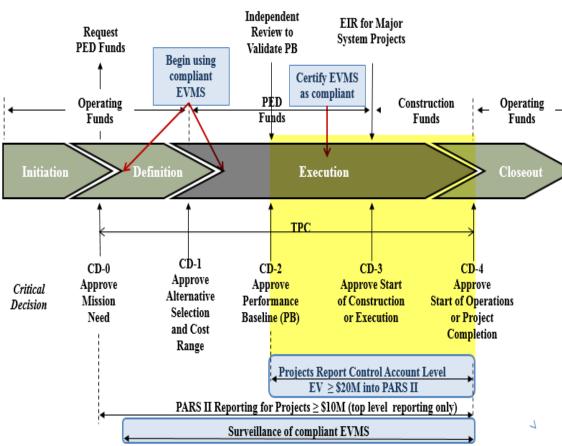
Buck Wilkerson
Humphreys & Associates
Supporting Project Management Policy and Systems (PM-30)
Office of Project Management Oversight and Assessments (PM)
Presentation for IPMW 2016
November 1, 2016

Integrated EVM / PM Acquisition Lifecycle





EVM is Integral to DOE's PM Philosophy from CD-0 to CD-4



Typical DOE Acquisition Management System for Line Item Capital Asset Projects

Guideline 6 – Integrated Master Schedule



- IMS is a key component of the EVMS
- More tests than any other guideline
 - However, most are automated
 - More than just the DCMA 14, but many of those are included
- GL 6 Broken into three areas:
 - GL 6.A Schedule Architecture
 - GL 6.B Schedule Construction
 - GL 6.C Schedule Maintenance

DOE Automated Assessment Tools

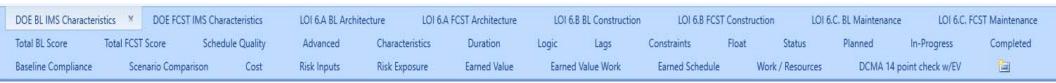


- DOE currently uses an assortment of tools to evaluate a contractor's management system
 - -PARS IIe
 - EV CAS for most of the EVMS Cost Tool evaluation
- Deltek Acumen Fuse for schedule analysis
 - Works best with P6
 - Quick and easy load of data does not change the contractor's delivery file
 - Customizable to DOE test metrics
 - Can perform many analysis functions
 - Diagnostics automated tests performed here
 - Logic analysis
 - Forensic testing over many periods

Fuse DOE Diagnostics



- Process documentation and Fuse workbooks provided to industry and other DOE departments
- Fuse not REQUIRED to evaluate DOE schedule metrics
 - All formulas are provided as part of the schedule analysis process documentation
- 10 additional diagnostics provided in the DOE template
 - Combined with the 22 provided diagnostics from Fuse
 - GAO, DCMA and NASA diagnostics also available



DOE Fuse Diagnostics



	Diagnostic Title	Diagnostic Description
Baseline	DOE BL IMS Characteristics	Metric counting only – provides scale of the baseline projects. Not used for assessment
	LOI 6.A BL Architecture	Provides analysis of the foundation of the IMS baseline files
	LOI 6.B BL Construction	Analyzes schedule metrics and construction techniques
	LOI 6.C BL Maintenance	Evaluates baseline update metrics and results of schedule analysis (float, LOE on CP, etc.)
	Total BL Score	Combination of 6A, 6B and 6C Baseline tests for a single output
Forecast	DOE FCST IMS Characteristics	Metric counting only – provides scale of the forecast projects. Not used for assessment
	LOI 6.A FCST Architecture	Provides analysis of the foundation of the IMS Forecast files
	LOI 6.B FCST Construction	Analyzes schedule metrics and construction techniques
	LOI 6.C FCST Maintenance	Evaluates Forecast schedules status and update metrics
	Total FCST Score	Combination of 6A, 6B and 6C Forecast tests for a single output

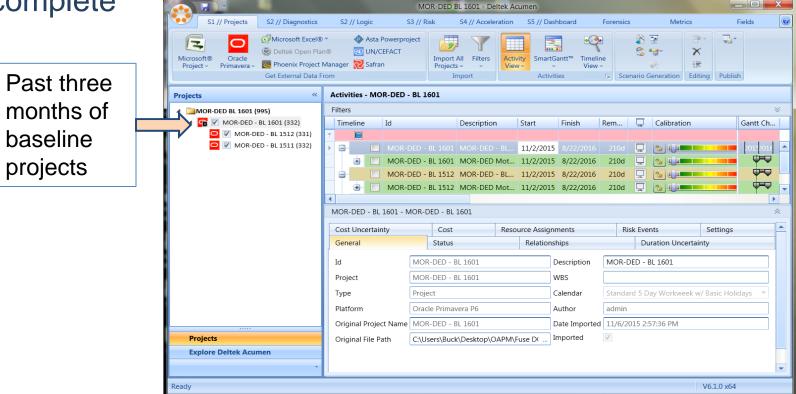
To Run Baseline Analysis



- Assign baseline files as projects
- Assign forecast files as baselines

- The forecast files tell the baseline metrics if the task is complete or

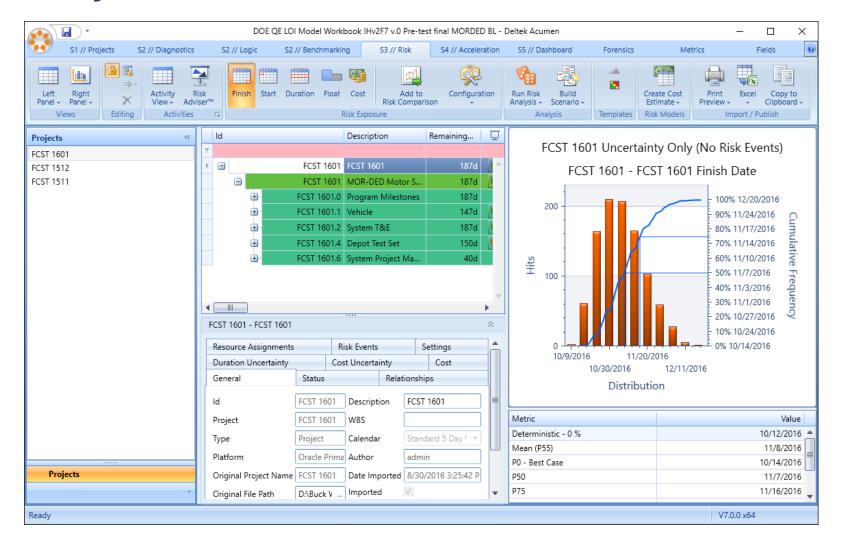
incomplete



Other Analysis Capabilities



Risk Analysis



Other Analysis Capabilities



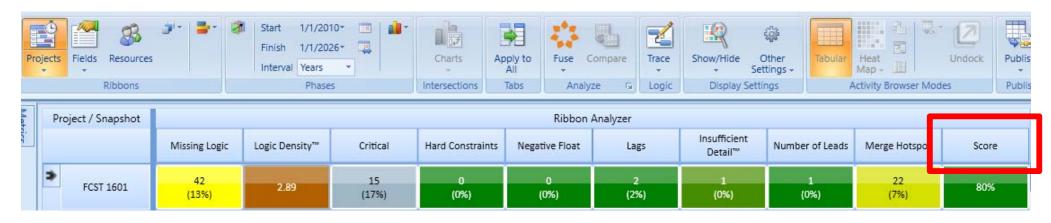
Dashboard



DOE IH v2.0 Fuse Template Standards



- Written for Fuse Release 7 at this time
 - Earlier releases will not correctly identify incomplete baseline activities and milestones
- Grey boxes are for information only, not a LOI test metric
- Looks for code fields to identify SM and SVTs, Critical Path, PP, SLPP, WBS, OBS and others
- Ignore Fuse-generated 'Scores'



DOE PM Website - ENERGY.GOV/PM



Please find the full set of slides presented at the IPMW DOE Track on the DOE PM Website EVM Page http://www.energy.gov/projectmanagement/earned-value-management

EARNED VALUE MANAGEMENT





KEY RESOURCES



PMCDP



EVMS



PARS IIe



FPD Resource Center



PM Newsletter



Forms and Templates

The mission of the DOE Earned Value Management website is to educate and train on theory and practice of Earned Value Management, and use it as an integrated Project Management process.

Earned Value Management (EVM) is a systematic approach to the integration and measurement of cost, schedule, and technical (scope) accomplishments on a project or task. It provides both the government and contractors the ability to examine detailed schedule information, critical program and technical milestones, and cost data.

Questions?