

EVMS Training Snippet Library: PARSII EVMS Reports Overview



Office of Acquisition and Project Management (OAPM) MA-60
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Achieving Management and Operational Excellence

This EVMS Training Snippet, sponsored by the Office of Acquisition and Project Management (OAPM) provides an overview of the vast amount of data available in PARS II for EVMS analysis purposes. PARS II offers direct insight into EVM project data from the contractor's internal systems. The reports are developed with the users in mind, organized and presented in an easy to follow manner, with analysis results and key information to determine the status and health of the project.



- **Purpose**

- Official “System of Record” for capital asset project performance information
- Same data as maintained in our contractors’ project management systems
- Used by federal and contractor personnel across the nation to record and track the progress of capital asset projects

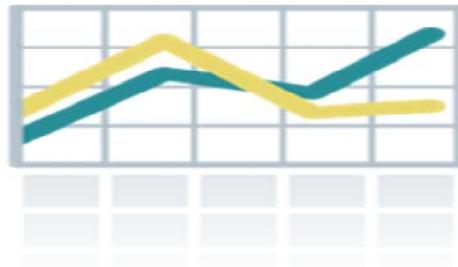


PARS II is the Department of Energy’s official “System of Record” for capital asset project performance information. PARS II uses the same data as maintained in our contractors’ project management systems, so everyone from the Federal Project Director’s staff to the Secretary of Energy will have easy access to the same data.

The PARS II software application is managed by the Office of Acquisition and Project Management (OAPM) MA-60 and is used by federal and contractor personnel across the nation to record and track the progress of capital asset projects.

- **Goal**

- Provide accurate, timely, complete, and verifiable project performance data
- Provide greater transparency on the performance of specific projects
- Facilitate the efforts of project analysts to analyze, track, and validate the data



Deployed in October 2010, the goal of this system is to provide accurate, timely, complete, and verifiable project performance data. The system provides greater transparency on the performance of specific projects, and facilitates the efforts of project analysts to analyze, track, and validate the data.

Analysis Reports – Project Analysis SOP



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The screenshot displays the PARS II web application interface. On the left is a navigation menu with the following items: **OVERSIGHT & ASSESSMENT**, **PROJECT PERFORMANCE**, **ALL REPORTS**, and **SSS Reports**. The **SSS Reports** item is selected. The main content area shows a tab labeled **SSS Reports** and a sub-tab labeled **All monetary values at**. Below the tabs is a toolbar with **Add** and **Paste** buttons. A **Shared Reports** section is expanded, showing a list of folders:

- Analysis Reports
- Data Validity Check
- Schedule Health Assessment
- Variance Analysis
- Trend Analysis
- EAC Reasonableness
- Predictive Analysis
- APM DepSec Monthly Reports

PARS II contains a wealth of information. This snippet group will key on the reports included in the folder named “Analysis Reports” and the APM Deputy Secretary Monthly Reports. The reports covered in this Snippet are also discussed in OAPM’s EVMS Project Analysis Standard Operating Procedure (EPASOP) with the exception of the APM Deputy Secretary monthly report.

Analysis Reports



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- **Data Validity Check**
 - EV Data Validity (WBS Level)
 - Retroactive Change indicator (6-Mo, PMB Level)
- **Schedule Health Assessment**
 - Schedule Missing Logic (Activity Level)
 - Relationship Leads and Lags Report
 - Schedule Relationship Types (Activity Level)
 - Schedule Hard Constraints (Activity Level)
 - Schedule Total Float Analysis (Activity Level)
 - Schedule Duration Analysis (Activity Level)
 - Invalid Forecasts and Actual Dates (Activity Level)
 - Schedule Hit or Miss Report
- **Variance Analysis**
 - EV Project Summary (6-Mo, PMB Level)
 - Performance Analysis (WBS Level)
 - Variance Analysis Cumulative (WBS Level)
- **Trend Analysis**
 - Baseline Volatility – Past and Near-Term (PMB Level)
 - EV Project Summary (6-Mo, PMB Level)
 - MR Balance v. CV, VAC, & EAC Trends
 - Management Reserve (MR) Log
 - Performance Index trends (WBS Level)
 - Variance Analysis Cumulative (WBS Level)
- **EAC Reasonableness**
 - CPI vs. TCPI (PMB Level)
 - EV Data Validity (WBS Level)
 - Performance Index Trends (WBS Level)
- **Predictive Analysis**
 - Funding Status (Monthly at Project Level)
 - IEAC Analysis (WBS Level)

As we expand each subfolder, the individual reports supporting each analysis step are listed. It is important to point out that the reports are dynamic, that is the content and selections change based on continuous process improvement and access to more data.

In addition to these reports, the APM Red/Yellow report will also be covered in the Group 5 Snippets; however, much more information is available in PARS II. Explore the other reports to gain familiarity so that depending on your role or interest, you can find what you need. Questions and suggestions should be directed to the PARS II help desk.



- **Each Snippet provides:**
 - Purpose of the subfolder grouping
 - List of reports included in the subfolder
 - Brief summary of each report
 - How to use the report for project management and/or EVMS compliance purposes

Each of the snippets in Group 5 will cover the following points. First, the purpose of the subfolder grouping will be explained. The content of each subfolder will be listed with a brief summary of each report. The snippets will help users understand the specific information provided by each report and explain how to relate that information to project performance and / or the health of the EVM system.

DOE OAPM EVM Home Page



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EARNED VALUE MANAGEMENT

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- Documents and
- Publications
- RCA and CAP

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.

- EVMS Surveillance Standard Operating Procedure (ESSOP) - 26 Sep 2011 (pdf)
- EV Guideline Assessment Templates - (MS Word)
- DOE EVMS Cross Reference Checklist - (pdf)
- DOE EVMS Risk Assessment Matrix - (MS Word)
- Formulas and Terminology "Gold Card" - Sep 2011 (pdf)
- Slides from the OECM Road Show: Earned Value (EV) Analysis and Project Assessment & Reporting System (PARS II) - May 2012 (pdf)
- DOE EVM Guidance

EVM TUTORIALS

Module 1 - Introduction to Earned Value (pdf 446.86 kb) July 17, 2003

This module is the introduction to a series of online tutorials designed to enhance your understanding of Earned Value Management. This module's objective is to introduce you to Earned Value and outline the blueprint for the succeeding modules. This module defines Earned Value management. It looks at the differences between Traditional management and Earned Value management, examines how Earned Value management fits into a program and project environment, and defines the framework necessary for proper Earned Value management implementation.

<http://energy.gov/management/office-management/operational-management/project-management/earned-value-management>

- Career Development
- Program
- Real Estate
- History

For information relative to EVMS procedures, templates, helpful references, and training materials, please refer to OAPM's EVM Home page. Check back periodically for updated or new information.