



PARS Update

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General Engineer / Performance Team Lead
Department of Energy, Office of Project Management



AGENDA

Agenda

- PARS Overview
- User Forum Questions/Response – Discussion
- Empower
- SQL Reports
- Other Updates
 - New Extractor
 - Two-Factor Authentication
 - Password Management
 - Database
- Lessons Learned
- User Training
- Change Requests
- Other Software



PARS Overview

- PARS last updated from Dekker tool to BIRST business intelligence tool three years ago. Change driven by Dekker obsolescence with Microsoft operating system.
- **Currently there are two parts to PARS – Overview and Assessment (O&A) + BIRST**
 - **O&A – no changes, we do plan to consider how O&A operates or flags in the future (FPD Toolbox)**
 - **BIRST - encountering frequent stability problems from embedded aging software code, and not utilizing COTS requires significant resources to buildout analysis and reporting**
- **Key Dates**
 - July 2nd, 2018 - CCB Decision to move from BIRST to Empower
 - September 24th to November 20th – User Forums with NA, EM, SC, NE, FE, CIO, HQ, and EFCOG PCSG
 - Seven Day outage over Memorial Day 2019 – In Production June 2019



Business Intelligence Tool Retirement

All,

The Department of Energy's Project Assessment and Reporting System (PARS) will be undergoing a software change during the summer of 2019. The current Business Intelligence tool in PARS for analysis and reporting, BIRST, will be retired in June 2019. In its place, Empower, a commercial off-the-shelf (COTS) product from Encore Analytics, will be added to PARS. This change is necessary because BIRST is growing increasingly more difficult to maintain due to changing DOE security and infrastructure requirements, and a decline in vendor support as BIRST becomes increasingly "cloud focused".

PM will develop and deploy a new updated extractor to upgrade current Microsoft Office technology. DOE Contractors should notice minimal to no change in their processes and will continue to upload data into the PARS application. It is important to remember that PARS only stores data (Contractor Project Performance - CPP) in accordance with contract requirements as an official record. Data is displayed without calculations as a direct representative of what has been uploaded.

To ensure Program Office requirements and concerns are addressed, Zac West, Garrett Richardson, and the members of the PARS team from PM-30 would like to meet with each program's PARS representatives. Ideally, this would include Program and Field-level Users and each session would be scheduled via WebEx. Following Program and Field input, an additional session will be held with EFCOG Project Controls members. The intent of these sessions is to gain a perspective as to what will be of most value for Users. Findings will be shared at the Project Management Workshop in February 2019.

PM's goal is to ensure PARS provides the maximum benefit to each Program Office and Field Site and enables informed decision making based on credible, accurate and transparent data. The sessions will likely be about 2 hours long, with a 30 minute overview, and an hour and a half of discussion of User requirements in order to identify and prioritize how to best utilize PARS dashboards and reports. Zac will begin scheduling these sessions over the next week with the goal of completing these sessions by the end of October.

Please provide your point of contact to Zac West matthew.west@hq.doe.gov and Garrett Richardson garrett.richardson@hq.doe.gov and they will reach out to the POCs to get this scheduled.

Your assistance and support in improving PARS is appreciated.

Sincerely,

Mike

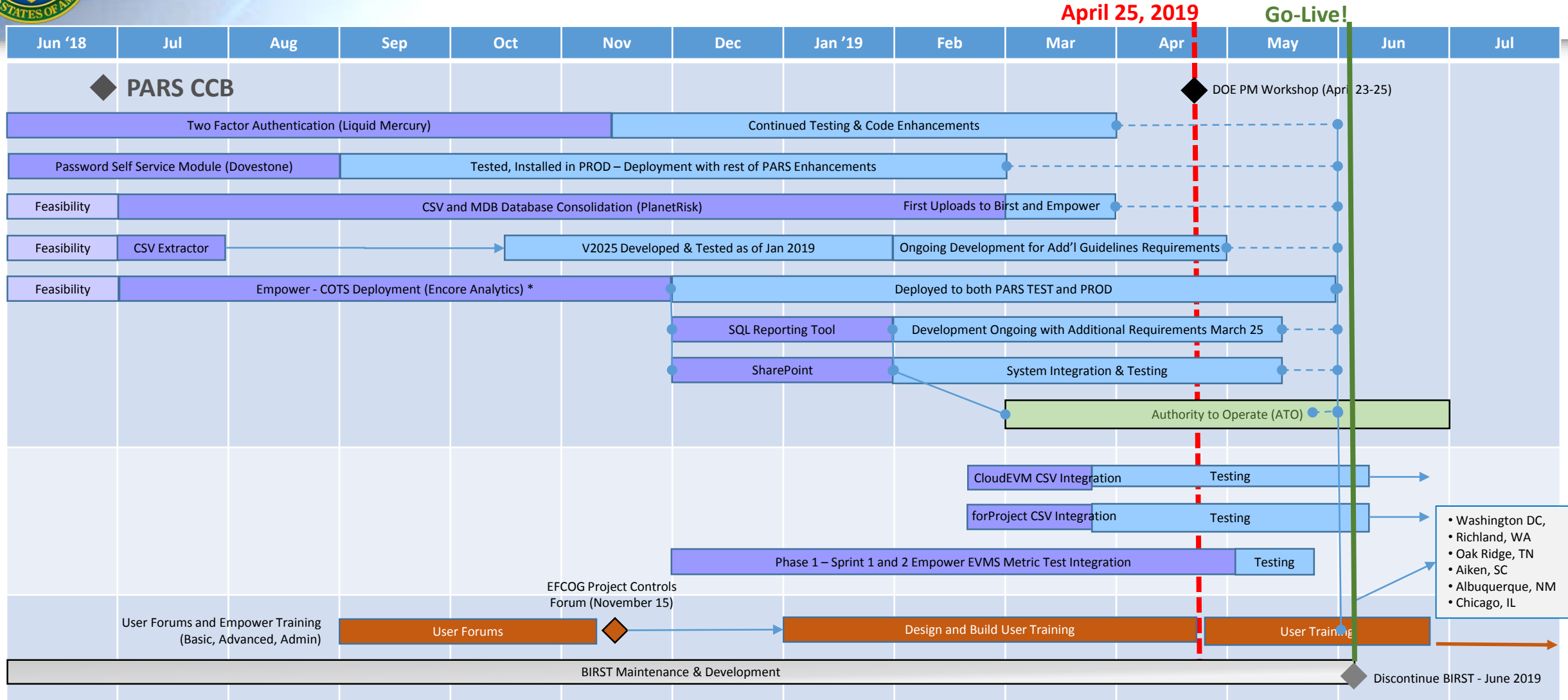
Michael A. Peek, PE CCP PMP CFM
Deputy Director
Office of Project Management (PM)
U.S. Department of Energy
1000 Independence Ave, SW
Washington DC 20585

Sent by Mike Peek on Sep 6, 2018 to:

- **Steve Meador - SC**
- **Cameron Manning - NA**
- **Rodney Lehman - EM**
- **Mary McCune - NE**
- **Lisa Nicholson - FE**
- **Denise Hill - CIO**



PARS Top Level Schedule

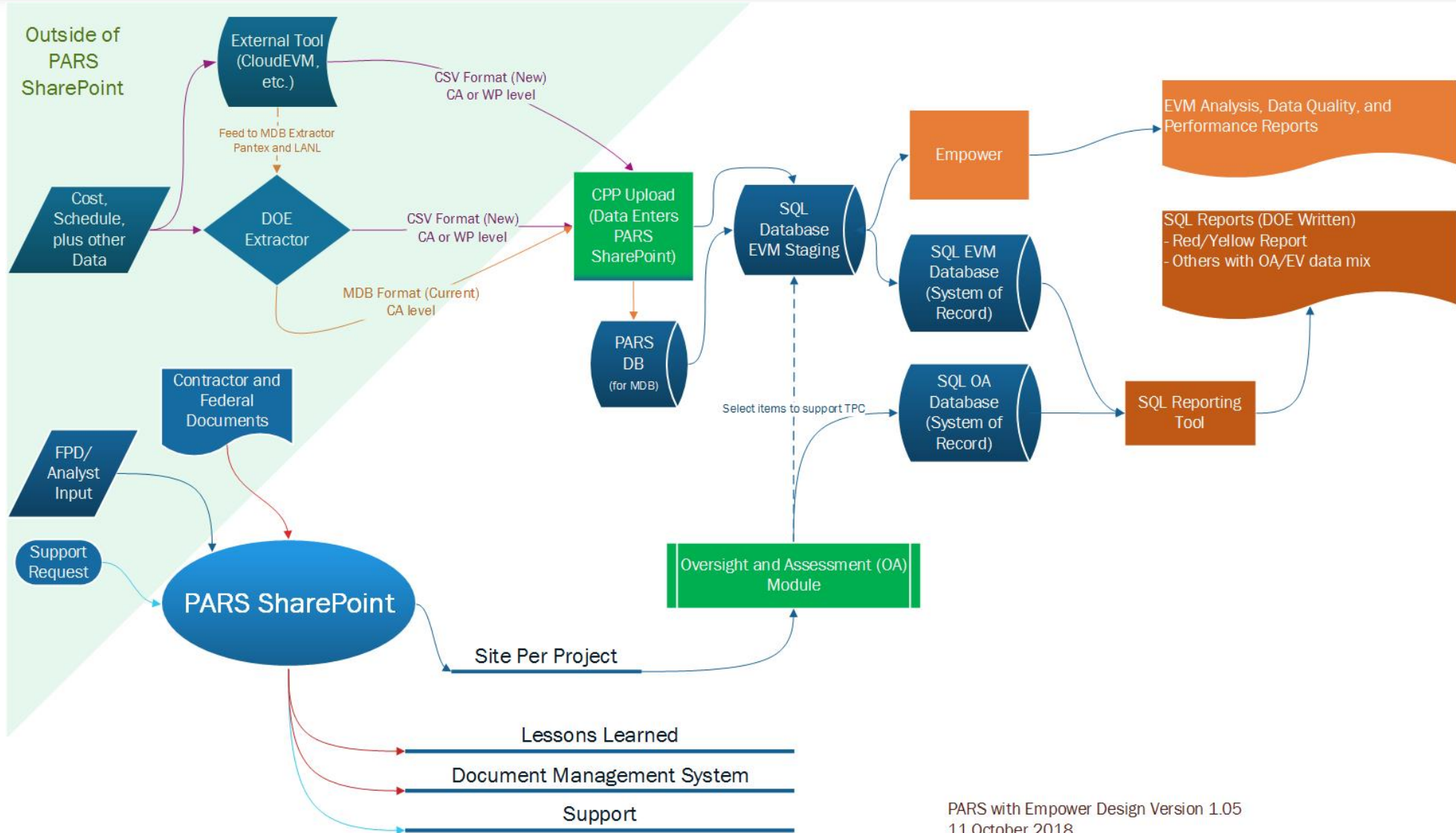


- Washington DC,
- Richland, WA
- Oak Ridge, TN
- Aiken, SC
- Albuquerque, NM
- Chicago, IL

* Optimized CSV format.



PARS Flowchart with Empower (June 2019)





User Forums

With the changes required to the DOE PARS,

- Held forums with government and contractor users from September to November 2018.
- **Enabled 156 of the 317 or 49% of users to participate and comment.**

The PARS team appreciates this tremendous response.



Questions and Discussion – Count of Comments

Question	CIO	EM	FE	NA	NE	PM	SC	Grand Total
1. What do you like about PARS now (that we should not lose)?	1	3		2	1	3	4	14
2. What frustrates you about PARS (that we can try to address)?		2	3	1	1	3	5	15
3. What are the top 10 reports that you use?		5	1	1			5	12
4. What reports are not available now that would help you?	4	9	1	2		1	3	20
5. How do you use PARS to help assess projects?	3	3	7		1		2	16
6. How do you think DOE uses PARS to inform Senior Leaders?			1					1
7. What do you like about Empower?		1	1	2				4
8. What concerns do you have about the transition to Empower?	1	2	2	3		1	2	11
9. What more would you like PARS to have (functions, data, etc.)?		3		1	2	1	3	10
Grand Total	9	28	16	12	5	9	24	103



Top Issues from User Forum

1 - What do you like about PARS now (that we should not lose)?

- **Maintain / enhance program level reports (NA, SC, EM) – SQL reports / Empower**
- **Maintain IT projects (SC) – done**
- **Keep retroactive change report – prefer similar to the Dekker version (EM) – under design by Encore Analytics and added to SQL Reports.**
- **Consider PARS weapons system option (NA) – for future discussion, if NNSA wants to pursue.**
- **Auto-populate last months narrative into edit window for current period (NA) – add to change request**
- **Make sure contractors can see CPP data in Empower (SC) - done**
- **Be able to show trend charts with thresholds (SC) - done**



Top Issues from User Forum

2 - What frustrates you about PARS (that we can try to address)?

- Everything is frustrating (SC) – **improvements designed for intuitive use**
- Want consistency between internet browsers (SC) – PARS optimized for Chrome. Will work in others.
- Selecting projects multiple times in a session (SC) – **within Empower**
- On line help is hard to use (SC) – work underway to update analysis SOP, help, FAQ, training, and snippets.
- **Setting up new accounts via MIS (FE) – process change by DOE not likely. PM has little influence.**
- Rounding to nearest \$000 rather than to the penny (SC) – **will use whole numbers – will also not flag in most cases where difference is \$1000 or less**
- BIRST tools are not intuitive – clunky (EM) – **agree!**
- **Contractor limited as to data they can see to publish (NA) – should see all data for project**



Top Issues from User Forum

3 - What are the top 10 reports that you use?

- **Maintain CPR Format 1 (SC) – available – Will move outside or Admin area**
- **Generate CPR Format 1 for prior periods (SC) - yes**
- **SPI/CPI in spreadsheet with thresholds (SC) - available**
- **Programmatic reports for FPD and Program (SC) – empower supports grouping and summation**
- **Schedule related metrics – BEI and hit/miss (SC) – available. There are HitPlanCmp, HitActCmp, and HitIndex fields in Empower**
- **Ability to see history as PARS records in – not what the contractor uploads each month (EM) - available**
- **Reports that identify high EAC (EM) - available**
- **Retroactive change report (EM) – Encore Analytics working to add to Empower. Added to DOE SQL Reports**
- **Report that shows last and current months assessments (NA) - available**



Top Issues from User Forum

4 - What reports are not available now that would help you?

- Not sure – PARS is not user friendly. Know there is a lot of data, but not sure of reports (SC) - **improvements designed for intuitive use**
- **Chart that show remaining contingency as a function of time (SC) - add to change request for Empower. FPD toolbox report in SQL Reports**
- Ability to put in initial cost estimate and support multiple accounting codes (SC) – **add to change request**
- **Portfolio and Enterprise reports for senior leaders – need to be able to tailor. (EM) – initial reports support – will work with programs to make adjustments**
- History report on logs (EM) - **add to change request**
- **Ability to compile project reports by site (EM) - available**
- Ability to see BCP (BCR, BCA, etc.) locally that impact MR / C (EM) – **add to change request**
- Include scheduling ability (CIO) – **no plan to add scheduling capability to PARS**
- Ability to report project performance by FY (EM) - **add to change request, but 12 month report may provide next year.**
- Ability to track KPIs (CIO) - **add to change request**



Top Issues from User Forum

4 - What reports are not available now that would help you? Cont.

- **Provide historical data – prior narratives (CIO) - available**
- Look at customize performance reporting – over last 6 months, over last 12 months, etc. (CIO) – **6 month and 12 month included in Empower**
- Ability to use for non-capital projects (CIO) - **available**
- **Need program level reports with defined business rules (NA) – rules needed at the enterprise level**
- Need rules for integrating multiple CPP uploads in to a single project [program] (NA) – **not allowed at this time. Uploads can be organized as parent / child once in PARS**



Top Issues from User Forum

5 - How do you use PARS to help assess projects?

- Sum of MR and Contingency as a basis of assessment (SC)
- Contingency Survey (SC)
- Will it work as an EPMO tool? (CIO) - **yes**
- Track special actions for major changes to CBB (FE) – **add to change request**
- Linkage to STARS (FE) - **there are no linkages between PARS and STARS**
- **Do contractors need to buy Empower to benefit (FE) - no**



Top Issues from User Forum

6 - How do you think DOE uses PARS to inform Senior Leaders?

Only One response to this question.

In User forums, PM provided a discussion on the Red / Yellow slides, how DOE uses them with senior leaders.

One person asked – how can they see this slide/report - - **in SQL report and on PM MAX after publication each month**

<https://community.max.gov/x/0xbeRg>



Top Issues from User Forum

7 - What do you like about Empower?

- Provide more hands on experience prior to going live in June (EM) – **training and support are being updated for rollout with courses April to September.**
- Like the VAR tool and 6 month trending. VAR and CAR tools are one of the better features – **add to change request for future development in PARS. 6 month trend exists in Empower.**



Top Issues from User Forum

8 - What concerns do you have about the transition to Empower?

- Train senior leaders how to benefit and read reports as well as project level leaders (FE) – looking at developing an Executive Level Training Course after training users (1 + hours overview)
- Training road show to sites would be helpful (NA, EM, FE, SC) – planned – slide below addresses
- Phased roll out by lab (SC) – not possible
- Power user level training (CIO) – user training will cover occasional to advanced users.
- Training tailored to specific user levels (NA) – two levels planned – executive and user.
- Request feed back from User Forums to programs (NA) – continuous improvement.



Top Issues from User Forum

9 - What more would you like PARS to have (functions, data, etc.)?

- Provide formulas PARS uses to programs (SC) – updating PAR user document to provide.
- Provide raw data dump to program (NA) – add to change request, consider the export of Empower first
- Provide data dictionary to programs (SC) – will finalize this summer
- Better instruction on MAX on how to get an account (SC) - done
- Ensure contractors can see what FPDs and above see (SC) - done
- Contractor provide comments / narrative before FPD (EM) – add to change request
- Integrate PARS and MAX – not possible due to design



Empower

- Business case analysis looked at 10 software tools
 - Screening Criteria – 11 elements
 - Evaluation Criteria – 5 elements
 - **Empower – only tool to meet all screening criteria and have a positive outcome for each of the evaluation criteria**
 - In use by other programs and contractors at DOE

Screening Criteria:

- Infrastructure as a service - Server Appliance Primary (required to work in the PARS environment – Security Requirement)*
- Enterprise Based Tool - Project and Portfolio Based Reporting
- Ability to support Earned Value Management Systems
- SAML 2.0 - ability to pass parameters (required for security, able to pass certificates and tokens)*
- Data Import Format Standardization – Ability to push DOE data to tool under a standard format
- SQL back-end structure (our data and system of record resides in SQL)
- Export to excel, PDF and PowerPoint (with formatting)
- Cross-browser compatibility (IE, Edge, Chrome, Firefox)
- Display in modal/SharePoint compatibility
- Permissions via user interface and ability to limit data based on access*
- U.S. based support – support for an appliance version of the tool

Evaluation Criteria:

- COTS - Known Entity and/or DOE industry Partners – COTS is preferred over GOTS
- No reliance on Flash/JAVA – Prefer HTML5 with no flash or JAVA requirements
- Built in EVM Reports – Less customization preferred
- Vendor who will provide support to develop tests for EV and performance analysis and reporting
- Ability to make adjustments to tests and thresholds based on contract agreements (tailorable) without going back to vendor



Dashboards for Empower

- Allow users to get to data quickly
- **DOE Dashboards initially planned under the KISS principle**
 - Leadership
 - Data Validity
 - Schedule Health
 - Variance Analysis
 - Trend Analysis
 - Forecast
 - DOE PM EVMS Tests
- Considers all 317 current users.
- Balance of Empower Views, Charts, and Reports are available, expect where they may not work in the PARS environment, ie WAD



Basis of Dashboards



Based on PM's EVMS Project Analysis SOP which will be updated consistent with the Empower dashboards.

Analysis is set up following:

1. Data validity check
2. Schedule Health
3. Variance Analysis
4. Trend analysis
5. Predictive analysis and an independent EAC

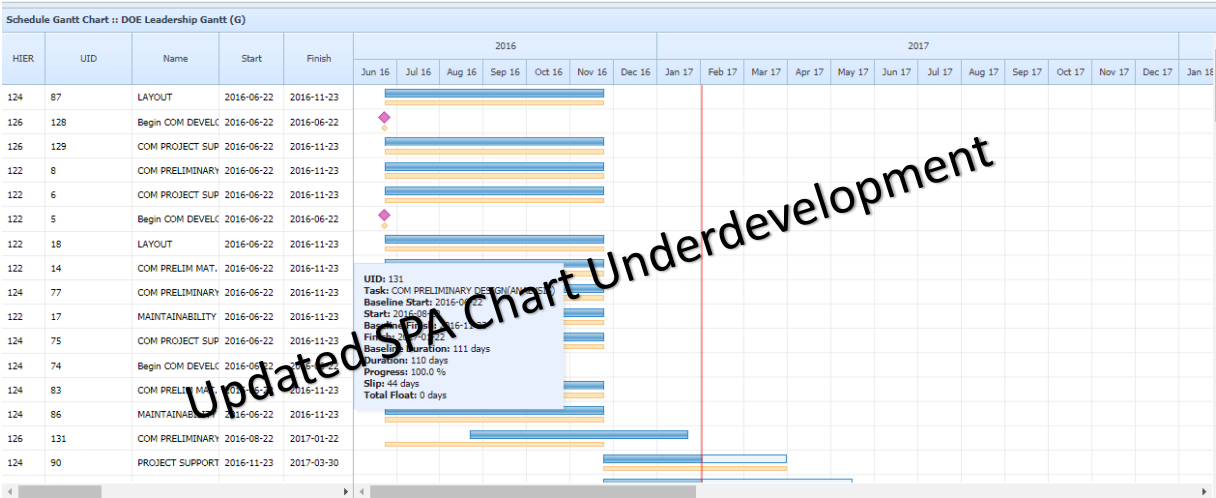
Empower provides additional checks and these will be available for the user.



Leadership Dashboard

MOH-2 JAN 17 WBS Dollars :: DOE Leadership :: DOE Leadership														
HIER	WBS	Description	DOE Program	Site	LL	Percent Complete	Variance at Completion	Baseline (Schedule) Execution Index	Variance Schedule	Variance Cost	Budget at Completion	Estimate at Completion	Variance at Completion	
1	1000	MOH-2	Mohawk Vehicle	Douglas		32.95	↓	0.842	↓	↓	20,796,200	20,761,000	35,200	

HIER	WBS
1	1000



AI Narrative Report

MOH-2 JAN 17 WBS Dollars [1000 : MOH-2]
AI Narrative

Summary
This effort is behind schedule and over cost to date, and is projected to underrun at completion. This element's BAC of 20,796,200 represents 100.0% of the total contract budget. The estimate at completion appears to be optimistic. At least one OSD tripwire has been breached.

Performance to Date
The effort is behind schedule and over cost: 35.0% of the effort is scheduled to have been completed, while 33.0% has been completed, and an amount equal to 35.3% of the budget has been spent. The SPI indicates that work equal to 94.2% of that planned has been accomplished.

The minimum total float of linked tasks is -42.75 days. The BEI indicates that a number of tasks equal to 84.2% of those baselined to finish have actually finished. The CEI indicates that 66.7% of the tasks forecast last period to finish this period have actually finished.

The CPI indicates that for every dollar expended, 0.932 dollars of value have been earned.

EAC Analysis
The TCPI-EAC indicates that to achieve the EAC, every dollar expended in the future will have to earn 1.040 dollars of value.

The EAC appears to be overly optimistic.

The cost variance of -496,800 is worse than the variance at completion of 35,200, indicating that the remaining work must be accomplished for less than originally planned.

Comparing the TCPI-EAC (1.040) with the CPI (0.932) indicates that the efficiency on work remaining must improve by 11.5% to achieve the EAC.

The EAC of 20,761,000 is less than the CPI Forecast of 22,303,796.

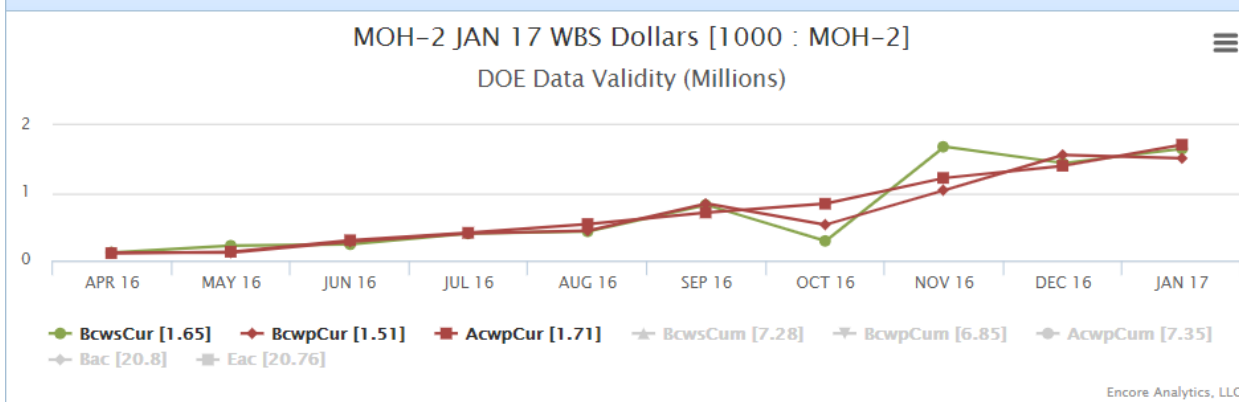


Data Validity Dashboard

MOH-2 JAN 17 WBS Dollars :: DOE Data Validity :: DOE Data Validity

HIER	WBS	DESCRIPTION	LL	CAM	PctCmp	SC<0	PC<0	AC<0	S>B	P>B	A>E	AwoB	ACwoB	PwoA	Cmp+ETC	RwoETC
1	1000	MOH-2		Jones	32.95	0	0	0	1	0	0	0	0	0	1	0
11	2000	PROJ MANAGEMENT		Brown	62.79	0	0	0	0	0	0	0	0	0	0	0
111	2100	PROJ MANAGEMENT	x	Brown	45.70	0	0	0	0	0	0	0	0	0	0	0
112	2200	SYS ENGINEERING	x	Price	85.04	0	0	0	0	0	0	0	0	0	0	0
113	2300	FUNC INTEGRA	x	Price	71.62	0	0	0	0	0	0	0	0	0	0	0
12	3000	PRIME EQUIP		Smith	30.31	0	0	0	0	0	0	0	0	0	0	0
121	3100	SENSORS	x	Smith	20.87	0	0	0	0	0	0	0	0	0	0	0
122	3200	COMMUNICATIONS	x	Tideman	34.63	0	0	0	0	0	0	0	0	0	0	0
123	3300	AUX EQUIP	x	Tideman	27.57	0	0	0	0	0	0	0	0	0	0	0
124	3400	ADPE	x	Zepka	41.89	0	0	0	0	0	0	0	0	0	0	0
125	3500	COMP PROGRAMS	x	Pino	47.62	0	0	0	0	0	0	0	0	0	0	0
126	3600	PCC	x	Zepka	28.99	0	0	0	0	0	0	0	0	0	0	0
127	3700	DATA DISPLAY	x	Troop	41.13	0	0	0	0	0	0	0	0	0	0	0

DOE Data Validity Chart



Data Quality Indicators Report

**MOH-2 JAN 17 WBS Dollars [1000 : MOH-2]
Data Quality Indicators Report**

Ref: DCMA-EA PAM 200.1, EVMS Program Analysis Pamphlet (PAP), Mar 2016
Planning & Scheduling Excellence Guide (PASEG), June 2012
DCMA EVMS Testing Protocols (DETP) 3.0

WARNING		
BCWS CUM > BAC	E	PAP, 5.1
LOE with CUM SV	E	PAP, 5.7
LOE with CUR SV	E	PAP, 5.7
Completed work with ETC	E	PAP, 5.9

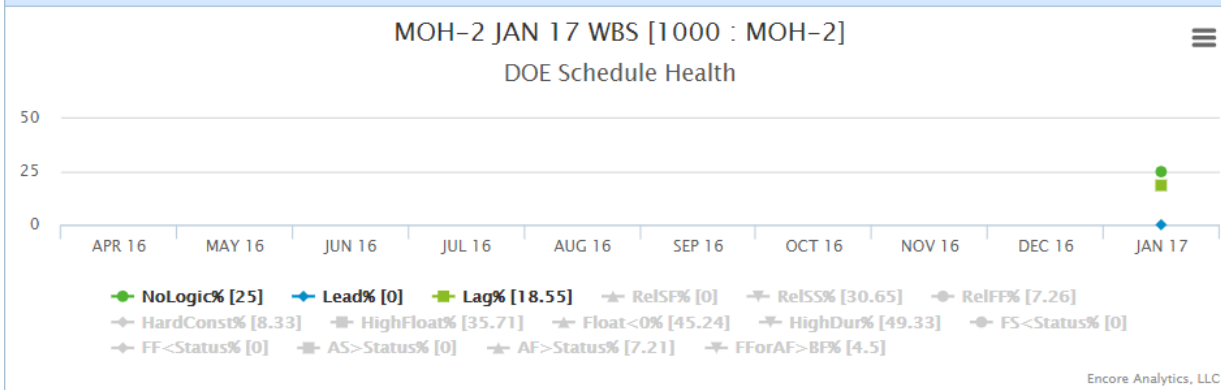


Schedule Health Dashboard

MOH-2 JAN 17 WBS Dollars :: DOE Schedule Health :: DOE Schedule Health

HIER	WBS	DESCRIPTION	LL	CAM	PctCmp	NoLogic	Lead	Lag	RelSF	RelSS	RelFF	HardConst	HighFloat	Float<0	HighDur	FS<Status	FF<Status	AS>Status	AF>Status	FForAF>BF
1	1000	MOH-2		Jones	32.95	21	0	23	0	38	9	7	30	38	37	0	0	0	8	5
11	2000	PROJ MANAGEMENT		Brown	62.79	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
111	2100	PROJ MANAGEMENT	x	Brown	45.70	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
112	2200	SYS ENGINEERING	x	Price	85.04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
113	2300	FUNC INTEGRA	x	Price	71.62	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	3000	PRIME EQUIP		Smith	30.31	21	0	23	0	38	9	7	30	38	37	0	0	0	8	5
121	3100	SENSORS	x	Smith	20.87	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
122	3200	COMMUNICATIONS	x	Tideman	34.63	9	0	13	0	20	5	7	6	19	21	0	0	0	4	2
123	3300	AUX EQUIP	x	Tideman	27.57	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
124	3400	ADPE	x	Zepka	41.89	6	0	5	0	10	4	0	5	19	9	0	0	0	4	1
125	3500	COMP PROGRAMS	x	Pino	47.62	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
126	3600	PCC	x	Zepka	28.99	6	0	5	0	8	0	0	19	0	7	0	0	0	0	2
127	3700	DATA DISPLAY	x	Troop	41.13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

DOE Schedule Health Chart



Schedule Assessment Report

MOH-2 JAN 17 WBS [1000 : MOH-2]
Schedule Assessment

Linked Tasks	Complete Tasks	Incomplete Tasks	Incomplete Discrete Tasks	Planned Completions	Actual Completions	Relationship Count
111	27	84	75	19	16	124

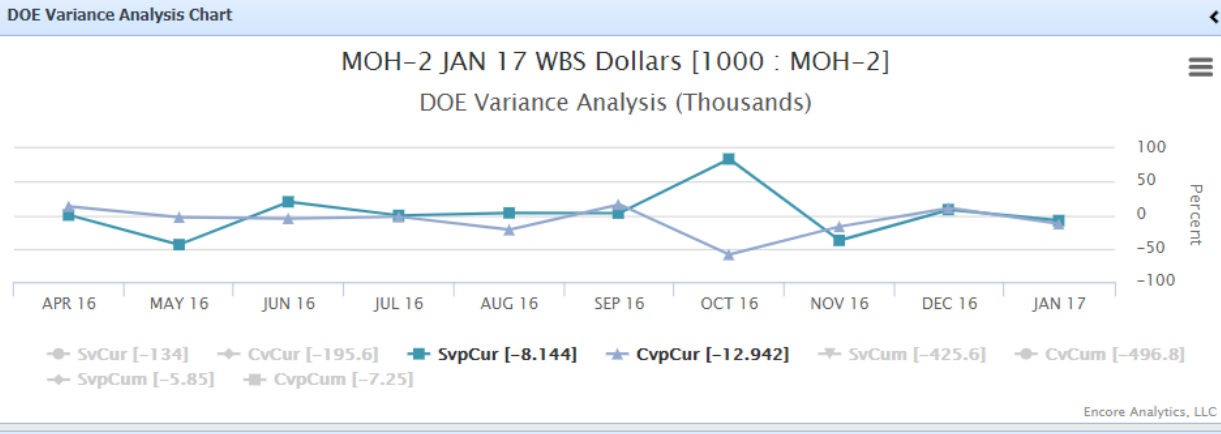
Metric	Description	Goal	Percent	Count
Missing Task Links	Number of tasks not linked to cost elements in the current structure	0 %	0.00 %	0 / 111
Invalid Task Links	Number of tasks linked to an invalid cost element in the current structure	0 %	0.00 %	0 / 111
Baseline Execution Index	Performance relative to baseline	> 05 %	84.21 %	16 / 19



Variance Analysis Dashboard

MOH-2 JAN 17 WBS Dollars :: DOE Variance Analysis :: DOE Variance Analysis

HIER	WBS	DESCRIPTION	LL	CAM	PctCmp	SvTrCur	SvCur	SvpCur%	CvTrCur	CvCur	CvpCur%	SvTrCum	SvCum	SvpCum%	CvTrCum	CvCum	CvpCum%
1	1000	MOH-2		Jones	32.95	↓	-134,000	-8.14	↓	-195,600	-12.94	↓	-425,600	-5.85	↓	-496,800	-7.25
11	2000	PROJ MANAGEMENT		Brown	62.79	↑	-1,800	-3.59	↓	-13,800	-28.51	↓	-13,200	-1.50	↓	-61,200	-7.04
111	2100	PROJ MANAGEMENT	x	Brown	45.70	↔	0	0.00	↓	-2,000	-5.59	↑	-12,000	-4.07	↔	-17,400	-6.16
112	2200	SYS ENGINEERING	x	Price	85.04	↑	0	0.00	↓	-10,400	-185.71	↔	6,400	2.73	↓	-26,400	-10.95
113	2300	FUNC INTEGRA	x	Price	71.62	↓	-1,800	-20.45	↑	-1,400	-20.00	↓	-7,600	-2.15	↓	-17,400	-5.03
12	3000	PRIME EQUIP		Smith	30.31	↓	-122,200	-9.60	↓	-149,200	-12.97	↓	-382,600	-7.96	↓	-365,400	-8.25
121	3100	SENSORS	x	Smith	20.87	↑	-12,800	-8.37	↓	-12,200	-8.70	↑	-36,600	-9.21	↓	-10,600	-2.94
122	3200	COMMUNICATIONS	x	Tideman	34.63	↓	-31,000	-15.55	↓	-43,400	-25.77	↑	-203,200	-22.31	↓	-130,800	-18.49
123	3300	AUX EQUIP	x	Tideman	27.57	↓	-30,000	-18.82	↓	-41,800	-32.30	↓	-93,200	-12.27	↓	78,200	11.73
124	3400	ADPE	x	Zepka	41.89	↓	-14,000	-26.92	↓	-22,400	-58.95	↓	-10,200	-3.91	↓	12,600	5.02
125	3500	COMP PROGRAMS	x	Pino	47.62	↑	2,000	11.49	↔	2,000	10.31	↔	2,000	2.27	↑	5,600	6.22
126	3600	PCC	x	Zepka	28.99	↑	-4,000	-0.90	↓	-6,400	-1.46	↓	-11,400	-0.67	↑	-296,200	-17.62
127	3700	DATA DISPLAY	x	Troop	41.13	↑	14,400	16.94	↔	0	0.00	↑	-113,000	-41.45	↔	0	0.00



Six Period Summary Report

MOH-2 JAN 17 WBS Dollars [1000 : MOH-2]
Six Period Summary

ITEM	AUG 16	SEP 16	OCT 16	NOV 16	DEC 16	JAN 17
BCWS_c	429,000	816,000	286,000	1,677,000	1,439,200	1,645,400
BCWP_c	443,000	840,000	526,000	1,042,000	1,557,600	1,511,400
ACWP_c	540,000	706,000	836,000	1,220,000	1,395,800	1,707,000
SCH VAR_c	14,000	24,000	240,000	-635,000	118,400	-134,000
SCH VAR %_c	3.26	2.94	83.92	-37.87	8.23	-8.14
SPI_c	1.033	1.029	1.839	0.621	1.082	0.919
CEI	0.000	0.000	0.000	0.000	0.000	0.667



Trend Dashboard

MOH-2 JAN 17 WBS Dollars :: DOE Trend Analysis :: DOE Trend Analysis

HIER	WBS	DESCRIPTION	LL	CAM	PctCmp	SpiCur	SpiTrCum	SpiCum	SpiCum3	SpiCum6	CpiCur	CpiTrCum	CpiCum	CpiCum3	CpiCum6	PctCmp	PctSpent	BEI	CEI
1	1000	MOH-2		Jones	32.95	0.919	↓	0.942	0.863	0.941	0.885	↓	0.932	0.951	0.924	32.95	35.34	0.842	0.667
11	2000	PROJ MANAGEMENT		Brown	62.79	0.964	↓	0.985	0.855	0.981	0.778	↓	0.934	0.950	0.921	62.79	67.21	1.000	1.000
111	2100	PROJ MANAGEMENT	x	Brown	45.70	1.000	↑	0.959	0.856	0.956	0.947	↔	0.942	0.965	0.931	45.70	48.51	1.000	1.000
112	2200	SYS ENGINEERING	x	Price	85.04	1.000	↔	1.027	0.886	1.023	0.350	↓	0.901	0.895	0.886	85.04	94.35	1.000	1.000
113	2300	FUNC INTEGRA	x	Price	71.62	0.795	↓	0.978	0.833	0.974	0.833	↓	0.952	0.979	0.939	71.62	75.23	1.000	1.000
12	3000	PRIME EQUIP		Smith	30.31	0.904	↓	0.920	0.855	0.921	0.885	↓	0.924	0.940	0.917	30.31	32.81	0.842	0.667
121	3100	SENSORS	x	Smith	20.87	0.916	↑	0.908	0.916	0.916	0.920	↓	0.971	0.920	0.920	20.87	21.49	1.000	1.000
122	3200	COMMUNICATIONS	x	Tideman	34.63	0.845	↑	0.777	0.705	0.776	0.795	↓	0.844	0.806	0.825	34.63	41.03	0.750	1.000
123	3300	AUX EQUIP	x	Tideman	27.57	0.812	↓	0.877	0.783	0.872	0.756	↓	1.133	1.206	1.130	27.57	24.33	1.000	1.000
124	3400	ADPE	x	Zepka	41.89	0.731	↓	0.961	0.827	0.950	0.629	↓	1.053	0.997	1.027	41.89	39.79	0.875	1.000
125	3500	COMP PROGRAMS	x	Pino	47.62	1.115	↔	1.023	0.945	1.027	1.115	↑	1.066	1.145	1.064	47.62	44.66	1.000	1.000
126	3600	PCC	x	Zepka	28.99	0.991	↓	0.993	0.917	0.994	0.986	↑	0.850	0.890	0.848	28.99	34.09	1.000	0.500
127	3700	DATA DISPLAY	x	Troop	41.13	1.169	↑	0.585	0.573	0.598	1.000	↔	1.000	0.908	0.966	41.13	41.13	1.000	1.000

DOE Trend Analysis Chart

MOH-2 JAN 17 WBS Dollars [1000 : MOH-2]

DOE Trend Analysis

Six Period Summary Report

MOH-2 JAN 17 WBS Dollars [1000 : MOH-2]

Six Period Summary

ITEM	AUG 16	SEP 16	OCT 16	NOV 16	DEC 16	JAN 17
BCWS_c	429,000	816,000	286,000	1,677,000	1,439,200	1,645,400
BCWP_c	443,000	840,000	526,000	1,042,000	1,557,600	1,511,400
ACWP_c	540,000	706,000	836,000	1,220,000	1,395,800	1,707,000
SCH VAR_c	14,000	24,000	240,000	-635,000	118,400	-134,000
SCH VAR %_c	3.26	2.94	83.92	-37.87	8.23	-8.14
SPI_c	1.033	1.029	1.839	0.621	1.082	0.919
CEI	0.000	0.000	0.000	0.000	0.000	0.667
COST VAR_c	-97.000	134.000	-310.000	-178.000	161.800	-195.600

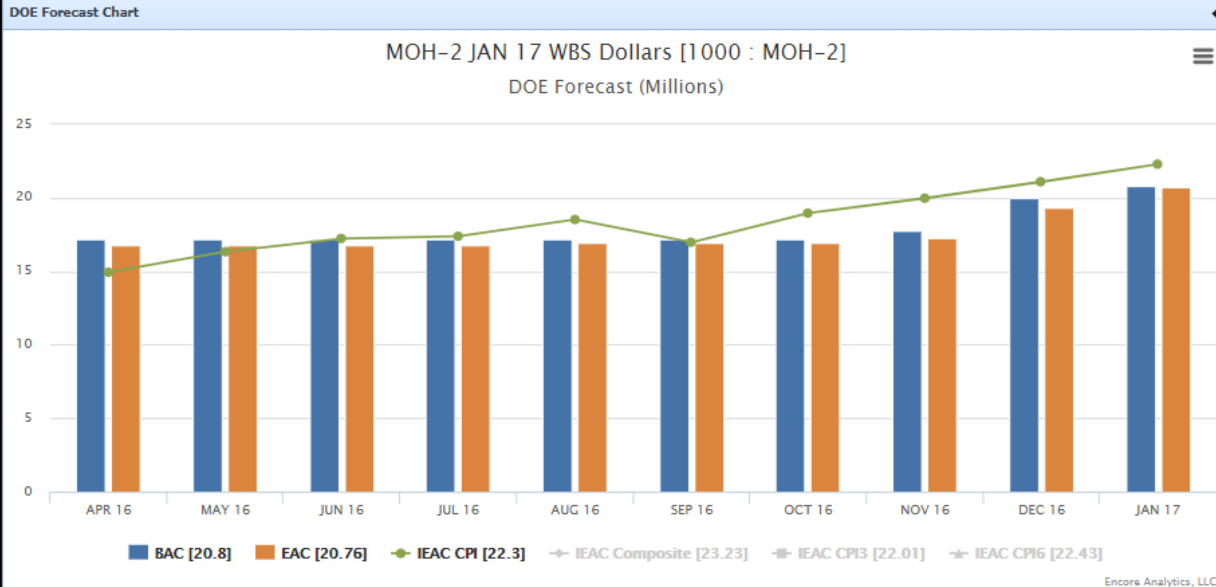
Admin::MOH-2 JAN 17 WBS Dollars:: [1000 : MOH-2]::Sort: ↑ Hier::Elements: 25/25



Forecast Dashboard

MOH-2 JAN 17 WBS Dollars :: DOE Forecast :: DOE Forecast

HIER	WBS	DESCRIPTION	LL	CAM	Percent Complete	SPI Cum	CPI cum	CPI cum3	CPI cum6	DQI CPI Cum To TCPI (EAC)	DQI EAC High	DQI EAC Low	TCPI (EAC)	TCPI (BAC)	DQI CV<VAC	CV Cum	VAC	BAC	EAC	IEAC CPI	IEAC Composite	IEAC CPI3	IEAC CPI6
1	1000	MOH-2		Jones	32.95	0.942	0.932	0.951	0.924	↑	3	5	1.040	1.037	8	-496,800	35,200	20,796,200	20,761,000	22,303,796	23,232,501	22,011,358	22,434,000
11	2000	PROJ MANAGEMENT		Brown	62.79	0.985	0.934	0.950	0.921	↓	0	2	1.056	1.135	2	-61,200	-34,000	1,384,600	1,418,600	1,482,067	1,490,440	1,473,006	1,489,000
111	2100	PROJ MANAGEMENT	x	Brown	45.70	0.959	0.942	0.965	0.931	↓	0	1	1.044	1.055	1	-17,400	-3,200	618,400	621,600	656,476	671,613	648,003	660,000
112	2200	SYS ENGINEERING	x	Price	85.04	1.027	0.901	0.895	0.886	↓	0	1	2.650	2.650	1	-26,400	0	283,400	283,400	314,445	313,195	314,784	315,000
113	2300	FUNC INTEGRA	x	Price	71.62	0.978	0.952	0.979	0.939	↓	0	0	0.911	1.145	0	-17,400	-30,800	482,800	513,600	507,094	510,256	503,152	509,000
12	3000	PRIME EQUIP		Smith	30.31	0.920	0.924	0.940	0.917	↓	2	2	1.006	1.037	2	-365,400	-309,000	14,606,400	14,915,400	15,812,106	16,764,596	15,623,197	15,897,000
121	3100	SENSORS	x	Smith	20.87	0.908	0.971	0.920	0.920	↓	0	0	0.992	1.008	0	-10,600	-21,600	1,728,400	1,750,000	1,779,179	1,921,986	1,858,007	1,858,000
122	3200	COMMUNICATIONS	x	Tideman	34.63	0.777	0.844	0.806	0.825	↓	0	1	1.034	1.109	1	-130,800	-87,000	2,043,000	2,130,000	2,420,756	2,875,343	2,496,119	2,457,000
123	3300	ALY EQUIP	x	Tideman	27.57	0.877	1.133	1.206	1.130	↓	1	0	0.967	0.957	0	78,200	8,400	2,418,200	2,409,800	2,134,517	2,350,686	2,041,400	2,136,000



Six Period Summary Report

MOH-2 JAN 17 WBS Dollars [1000 : MOH-2]
Six Period Summary

ITEM	AUG 16	SEP 16	OCT 16	NOV 16	DEC 16	JAN 17
BCWS_c	429,000	816,000	286,000	1,677,000	1,439,200	1,645,400
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ACWP_c	540,000	706,000	836,000	1,220,000	1,395,800	1,707,000
SCH VAR_c	14,000	24,000	240,000	-635,000	118,400	-134,000
SCH VAR %_c	3.26	2.94	83.92	-37.87	8.23	-8.14
SPI_c	1.033	1.029	1.839	0.621	1.082	0.919
CEI	0.000	0.000	0.000	0.000	0.000	0.667
COST VAR_c	-97,000	134,000	-310,000	-178,000	161,800	-195,600
COST VAR %_c	-21.90	15.95	-58.94	-17.08	10.39	-12.94
CPI_c	0.820	1.190	0.629	0.854	1.116	0.885
BCWS	1,415,000	2,231,000	2,517,000	4,194,000	5,633,200	7,278,600
BCWP	1,376,000	2,216,000	2,742,000	3,784,000	5,341,600	6,853,000
ACWP	1,485,000	2,191,000	3,027,000	4,247,000	5,642,800	7,349,800
SCH VAR	-39,000	-15,000	225,000	-410,000	-291,600	-425,600



EVMS Surveillance Test Report

GL.Attribute	Metric	Test	M	Value	Total	Percent	Goal	Note
01.02	03	Number of incomplete BL activities where EVM WBS code does not match FC IMS WBS code		1,013	1,013	100.00%	0	
03.01	01	Number of incomplete WPs where linked activities physical % complete does not match physical % complete in EVMS		95	183	51.90%	<= 5%	
03.01	02	Number of incomplete CA/WP/PP where FC IMS start or finish do not align with EVMS ACWP/ETC		202	350	57.70%	0	
03.01	03	Number of incomplete discrete WP/PP/SLPP where FC IMS finish does not align with time-phased ETC in EVMS		117	240	48.80%	0	
03.01	09	Number of CA/WP/PP/SLPP having BL IMS WBS codes that do not match EVMS WBS code		349	349	100.00%	0	
05.01	01	Number of CAs with no responsible or more than one responsible OBS		2	59	3.40%	0	
05.03	01	Number of CAs with no assigned or more than one assigned CAM		20	59	33.90%	0	
05.04	02	Number of CAs with greater than 7% L1 BAC and 10% L1 BCWS that exceed CV or SV thresholds in three consecutives periods		0	59	0.00%	0	
06.01	02	Number of incomplete discrete WP/PP/SLPPs from EVM system not represented in FC IMS		19	259	7.30%	0	
06.02	01	Number of activities with percent complete = 100 and no actual finish date in FC IMS		0	258	0.00%	0	
06.02	02	Number of activities identified as stasued out of sequence in FC IMS		6	1,274	0.50%	0	
06.02	03	Number of activities missing actual start dates with physical percent complete > 0%		1	129	0.80%	0	
06.02	04a	Number of activities with actual start date different than prior report		0	386	0.00%	0	
06.02	04b	Number of activities with actual start date different than prior report		0	260	0.00%	0	
06.02	05	Number of incomplete activities in BL IMS not represented in FC IMS		0	1,013	0.00%	0	

These are available for all, but the primary users are those subject to PM certification and compliance oversight to enable their self-governance

Continues through to GL



EVMS Test Metric Specification Sheet

- 197 Tests
- Empower adding 106 automated or hybrid in Phase 1 (June 2019)
- 70 additionally may be added in the future.
- Challenges include data collection and automation
- Spec sheet for each of the 197 tests attached to ERCSOP Appendix A
<https://community.max.gov/x/ao5tQw>

Guide Line . Attribute . Metric
01 . 01 . 01

32 Guide Lines
82 Attributes
197 Tests

DOE EVMS Test Metric Specification			
1. EIA-748 Guideline	2. Metric ID	3. Method	4. Frequency
01	01.01.01	automated/manual	initially & following implementation of customer changes
5. Attribute			
1. Is the product-oriented WBS used for a given project extended to the control account level as a minimum?			
6. Test Description			
This test confirms that the WBS is product and/or deliverable oriented depicting the breakdown of work scope for work authorization, tracking, and reporting purposes. The testing compares the products/deliverables listed in the PEP (and other scope documents) to the WBS. All elements of the WBS should be defined in an accompanying WBS Dictionary. Reference is made to the DOE WBS Handbook for this assessment.			
7. Test Metric			
Compare the products/deliverables listed in the PEP (and other scope documents) and the WBS. Is there product-oriented groupings of project scope elements in the WBS dictionary to organize and subdivide the total work scope as defined in the PEP (and other scope documents)? Does the WBS dictionary define the products to be developed or produced? Does the WBS dictionary relate elements of work to be accomplished to each other and the overall end product? Please reference the DOE WBS Handbook for guidance.			
8a. Max. Threshold(s)	8b. Max. Tolerance	8c. CRI Weighing	9a. CSV Tab/Other
0			
9b. Empower Optimized Format			
10. Artifacts and Data Elements Required			
<u>Y artifact(s)</u>		<u>X artifact(s)</u>	
FF01_(WBS)		scope documents, e.g., contract, PEP, conceptual design report,...	
<u>FF data elements</u>			
FF01_(WBS)_[C]_WBS			
FF01_(WBS)_[D]_title			
FF01_(WBS)_[J]_WBS_narrative			
11. NDIA Reference(s)			
Page 4, Management Value: "The WBS is a product-oriented division of project tasks depicting the breakdown of work scope for work authorization, tracking, and reporting purposes that facilitates traceability and provides a control framework for integrated program management."			
12. Assumptions			
13. Instructions			
<u>Determine Y items based on the following.</u>			
Count FF01_(WBS)_[C]_WBS items and, if identified, with the following characteristics.			
• FF01_(WBS)_[D]_title <listing>			
• FF01_(WBS)_[J]_WBS_narrative <listing>			
<u>Determine X items, a subset of Y, based on the following.</u>			
Manually count flagged items based on the following operation(s).			
• Verify WBS is product oriented and project level scope documents align with FF01_(WBS)_[J]_WBS_narrative.			
<u>Determine if X or X/Y exceeds the metric threshold(s).</u>			
14. Numerator Code			
15. Denominator Code			
16. Revision Block			



SQL Reports

Reports which combine OA and EV data are built directly from the DOE SQL database.

- Project Reports
 - Red/Yellow/Green
 - Assessment
 - Project Summary
- Program reports
 - Permission based
 - Monthly / Quarterly Status
 - ESAAB
 - Program Specific Reports
 - NA
 - EM
 - SC

Legend for Red and Yellow Projects

- The number of intervals a project has been assessed Yellow by PM is identified. An interval is a span of time, lasting one or more months, where the project was continuously assessed Yellow.
- The status of the Contractor's EVMS System certification is highlighted in RED if the system is not certified.
- The FPD's certification level is highlighted in RED if the FPD is not certified at the appropriate level based on the project's TPC
- Last Peer Review date is highlighted in RED if date is over 1 year ago, TPC > \$100, and project is post CD-1.

Report Date: 8/26/2018
 OA Status Date: 8/26/2018
 CPP Date As-Of Date: 06/22/2018

"Green" if no prior BCPs, "Red" if one or more prior BCPs		CE/PME Name	% Complete	TPC (\$M)	CD-4 Date
Project Title, Location		Project Owner Name	Calculated (A/B)	Original	Approved at CD-2
# months Yellow: X	# times Yellow: X	FPD Name		Current	CD-2 or latest approved BCP
		Contractor Name	EVMS Certified / Not Certified	PM Forecast	PM Reported
		PM Analyst Name		Last Peer Review	PM Reported

Project Description	Program: XX	PARS ID: XXXXXX	Approved Budget (\$M)	Remaining Budget (\$M)	Estimate at Completion (\$M)	Comments
The purpose of this project is to ...			Note 1	FPD Reported		
Performance Baseline (TPC)			Note 1	FPD Reported		
DOE Contingency (\$M / % Rem.)			Note 1	FPD Reported		
DOE Other Direct Costs (ODC)			Note 1	FPD Reported		
Profit/Fee			Note 1	FPD Reported		
Performance Measurement Baseline (PMB)			Note 1	Current PMB (B) Contractor Reported	PMB EAC	
Management Reserve (MR)			Note 1	Remaining MR Contractor Reported	Contractor Reported	
Cumulative Earned Value Data (\$M)				Planned Value (BCWS)	(A) Earned Value (BCWP)	Actual Cost (ACWP)
				Contractor Reported	Contractor Reported	Contractor Reported

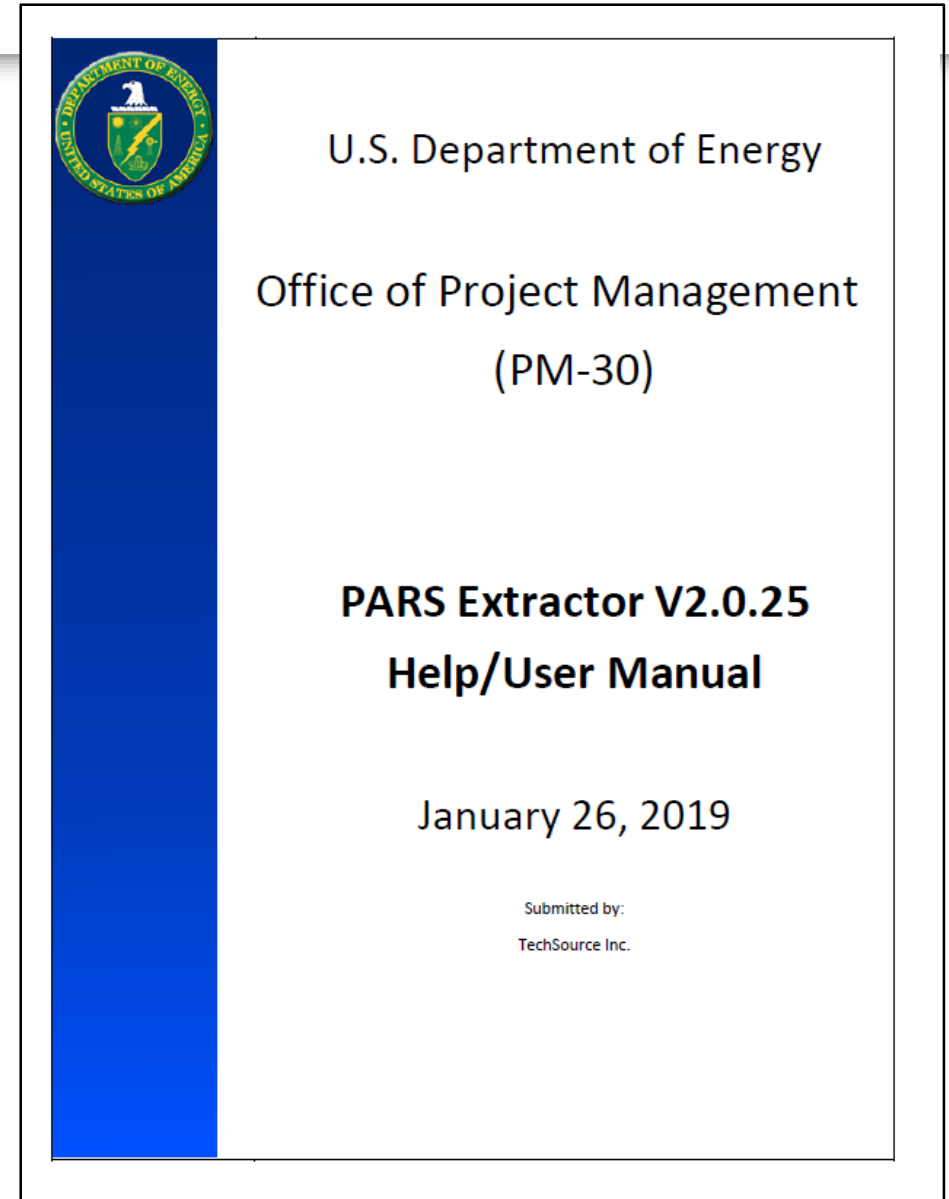
Critical Decisions		Selected Acronyms		Earned Value Management Terms	
CD-0	Approve Mission Need	BCP	Baseline Change Proposal	Planned Value (BCWS)	Budgeted Cost for Work Scheduled, cumulative
CD-1	Alternative Selection and Cost Range	CE	Chief Executive for Project Management	Earned Value (BCWP)	Budgeted Cost for Work Performed, cumulative
CD-2	Approve Performance Baseline	CPP	Contractor Project Performance	Actual Cost (ACWP)	Actual Cost of Work Performed, cumulative
CD-3	Approve Start of Construction/Execution	OA	Oversight and Assessment	EAC	Estimate at Completion
CD-4	Approve Start of Operations or Project Completion	ODC	Other Direct Costs	BAC	Budget at Completion
		PB	Performance Baseline		
		PM	Office of Project Mgt. Oversight and Assessments		
		PMB	Performance Measurement Baseline		
		PME	Project Management Executive		
		TPC	Total Project Cost		

Note 1: Amount approved at CD-2 (original PB) or latest approved BCP (current PB)



New Extractor – CSV Format

- **New Extractor designed for Projects using COBRA and Primavera P6.**
- Old extractor remains an options for those not using COBRA.
- Cost data provided to the WP level
- Other tools providing CSV for PARS
 - Cloud EVM – Adding now
 - ForProject – planning to add
 - Others may in the future
- **Required format to take advantage of EVMS Metric tests for self-surveillance**





CSV Format – ERCSOP Appendix F

1	FILE NAME	Cost.csv
2	DESCRIPTION	This file should be populated with the contractor time-phased EVMS data for the entire span of the project (not contract). Provide incremental period data at the WP/PP level. Incremental values are in both dollars and units. Units are quantity values that can be hours for labor, dollars for subcontract or ODC or overhead, and quantity for material. csv file must be in the same order, type, and structure per below. Data must be provided to generate data submission package.
3	REQUIRED DATA	Time-phased EVMS data at the WP/PP level by EOC.
4	PRIMARY KEY	PARSID, CPP_STATUS_DATE, PERIOD_DATE, WBS, EOC
5	RELATIONSHIPS	WBS = WBS.WBS, OBS = OBS.OBS

Excel Column	Requested Field Name	Description	Data Type	Cobra Source	Example CSV Output	Notes
A	PARSID	ID assigned by PARS to a project for which data is submitted.	INTEGER (6)	UI INPUT	1024	
B	CPP_STATUS_DATE	Contractor "Data As Of Date." Must be the same across all submitted files.	DATE (10)	PROGRAM.STATUSDATE	7/22/2018	Manually entered in DOE extractor - should be the same as the report period ending date (F1_4_b_RPT_period_end).
C	PERIOD_DATE	Time-phased period end date.	DATE (10)	TPHASE.DF_DATE	2/29/2016	
D	WBS	WBS element at the WBS_Type.	VARCHAR (36)	CAWP column defined in UI	01.08.01.01.01.01	User defines column used in CAWPID in user interface for WBS #
E	EOC	labor material subcontract ODC overhead	VARCHAR (20)	TPHASE.CECODE (transformed to key elements per UI map from COSTELEM table)	LABOR	If user did not enter EOCs then this field is otherwise, LABOR or SUBCONTRACTOR or MATERIAL or ODC or OVERHEAD.
F	OBS	Lowest level organization responsible for the WBS. Must have a matching record in the OBS.csv file.	VARCHAR (36)	if UI.OBSExists = "False" then "NA" else CAWP.[UDF.OBS]	NW.01.05.11.01.01	For visual check in Cost file.
G	WBS_TYPE	CA = control account SLPP = summary level planning package WP = work package PP = planning package	VARCHAR (4)	if CAWP.[UDF.WP] is null then "CA" else "WP"	WP	

WBS
OBS
COST
SCHEDULE
LOGIC
RESOURCES
IPMR
FORMAT1
FORMAT2

J	EV_METHOD	C = Percent Complete D = Units Complete E = 50-50 F = 0-100 J = Apportioned K = Planning Package	VARCHAR (12)	CAWP.PMT	C	
---	-----------	---	--------------	----------	---	--

VERSION CONTROL
WBS OBS **COST** SCHEDULE LOGIC RESOURCES IPMR FORMAT1 FORMAT2
+



Two Factor Authentication

Two Factor Authentication software updated

- PIV Card to be used to log on to PARS
- Updated Certificates – required by DOE CIO
- Update complete, will be implemented in June
- Supports PARS containing Controlled Unclassified Information (OUO, FOUO, SBU, UCNI)



Password Self-Service Module

- Password reset tool needed replacement
- Users will be required to add questions again as the encrypted data from older tool cannot be brought over
- Update built, will be implemented in June



Database Update / Clean Up

- Updated to SQL 2014 (required by DOE CIO, also not allowed to move to latest version)
- Redesign to support both MDB and CSV uploads
- Complete and in place now



Lessons Learned

- PARS LL System
 - Stood up as demonstration with intent to fully scope out and design to provide the most useful tool
 - Currently a SharePoint library that PARS users can use via a portal for entry
 - **Will need to revisit the tool in future to update or change to different option based on recent GAO report**
 - Needs to be useful across enterprise

Users with Access to PMLL Module (Count)			
	With	Without	Total
Users with Access to PMLL Module	311	0	311
Users by Employer Type and Location (Count)			
	HQ	Field	Total
Federal	83	92	175
Contractor	44	92	136
Subtotal	127	184	311
Users by Role (Count)			
PM	20		
Program Management	47		
FPD	90		
Other Federal	32		
Contractor Project Analysts	64		
Other Contractor	58		
Subtotal	311		



PARS User Training

State	Active Users	%	Active Projects	%
CA	17	5%	14	16%
CO	2	1%	0	0%
HQ	130	42%	0	0%
ID	13	4%	2	2%
IL	16	5%	7	8%
LA	4	1%	1	1%
NJ	3	1%	0	0%
NM	15	5%	13	14%
NY	10	3%	7	8%
NV	7	2%	3	3%
OH	9	3%	2	2%
SC	16	5%	9	10%
TN	42	14%	19	21%
TX	2	1%	2	2%
VA	4	1%	1	1%
WA	20	6%	8	9%
WV	1	0%	0	0%
TBD			2	2%
Total	311	100%	90	100%

- Course are in CHRIS and locations are below.
 - Targets primary locations of users
-
- 26 April – Washington DC – FORS – **Confirmed**
 - **CHRIS CODE 003077/0028**
 - **FORS Room 4A-104 8:00 AM to 5:00 PM**
 - 13 to 17 May - One Event – Richland on May 16th – Aligns with EFCOG) – **Confirmed**
 - 21 May - Aiken, SC (SRS) - **Confirmed**
 - 23 May - Oak Ridge, TN (Y-12, ORNL) - **Confirmed**
 - 10 June - Albuquerque, NM (24/311 - NM, TX, NV) – **Confirmed**
 - 13 June - Chicago, IL – **Confirmed** (potential for VTC with other)
 - 17 and 18 July – Washington D.C. – **Confirmed**
 - 5-8 August – Online course – 2.25 hours X 4 days (1:00 to 3:15 pm EDT each day) - **Confirmed**
 - 16-19 September – Online course 2.25 hours X 4 days (9:45 to 12:00 EDT each day) - **Confirmed**
 - November forward – Deskside delivery 8 X 1 hour blocks

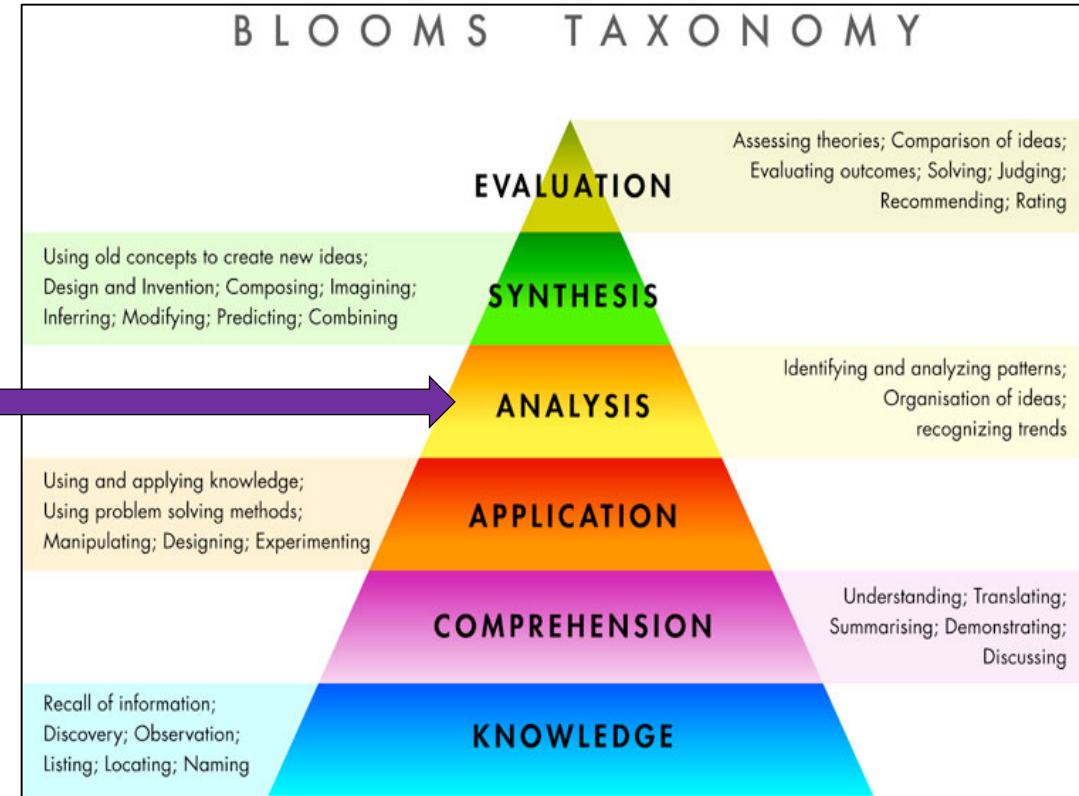


PARS User Training Objectives

- Understand the basic organization and operations of the PARS.
- Understand the document management system of PARS
- Understand user roles in PARS
- Understand EA – Empower as part of PARS
 - How to get in
 - Layout, tool bar, and status bar
 - Exporting from Empower
- Use Empower views, charts, reports and dashboards to analyze a project
- Use Empower Filters and pre-filters to organize data for analysis
- Use advanced capabilities of Empower to analyze multiple projects
- Use DOE dashboards to quickly analyze and get to information
- Use DOE EVMS Metrics Tests in Empower for self-surveillance and compliance testing

AT COMPLETION - EARN 8 CEU/PDUS

- Federal Employees – Will be added to CHRIS
- Contractor Employees – Certificate will be emailed





PARS User Training Agenda

1. PARS overview, oversight and assessment, document management, and uploads. Roles / permission sets for contractors, federal project director, program and HQ
2. Empower basics. How to get in, project ID, Overview of layout, tool bars, and status bar
3. Empower Views, Charts, Reports, and Dashboard basics
4. Empower filters and pre-filters
5. Advanced views, charts, reports, and SQL Reports from PARS (not from Empower)
6. Advanced filtering, multiple projects (Group and Sum)
7. DOE Dashboards and Exporting
8. DOE EVMS Metric Tests in Empower



Change Requests

- In PM-MAX <https://community.max.gov/x/iYi2Uw>
- All users can submit a change request
- Will look for you to do so as we roll out new capabilities
 - Recommend dashboards
 - Recommend or share reports
 - Recommend or share charts
 - Recommend functionality.
- Annual Empower users group (EUG) - DOE will consolidate recommendations from users to recommend to Encore Analytics at the EUG.



PARS Change Requests (Current as of April 24, 2019)



413 Resource Center > Reviews & Metrics > PARS & Earned Value Management > Training & Certification > Workshops & Awards > About PM > ENERGY



PARS Change Request (CR) Workflow



Active Change Requests | Archived Change Requests | Create New Change Request | Help

Active Change Requests

Click on any change request title to view details and history. Please see Archived Change Requests for completed or canceled CRs.

DOE's Office of Project Management (PM) has implemented a configuration control board (CCB) to approve Project Assessment and Reporting System (PARS) change requests with an estimated cost equal to, or greater than, \$50,000. Please see the Project Assessment and Reporting System (PARS) Configuration Control Board (CCB) Standard Operating Procedure (SOP) for Planning and Conducting Meetings.

Under Review	Approved For Implementation
<p style="text-align: center;">Awaiting Initial Review</p> <p>(showing 0 of 0 results)</p>	<p style="text-align: center;">In Prioritization & Planning</p> <p>(showing 0 of 0 results)</p>
<p style="text-align: center;">Awaiting Time & Cost Estimates</p> <ul style="list-style-type: none"> 2019-03-14 Automatic SSAAS Report Process 2019-04-19, PM Assessment Narrative <p>(showing 2 of 2 results)</p>	<p style="text-align: center;">In Development & Testing</p> <ul style="list-style-type: none"> 2018-03-16 PARS Analytical and Reporting Update 2018-07-25, Update PARM Software <p>(showing 2 of 2 results)</p>
<p style="text-align: center;">Awaiting PARS PMO Action</p> <ul style="list-style-type: none"> 2018-05-09 PARS Change Request; af 2018-06-19, Program Level Analysis and Reporting 2018-08-31-02 SPR-LB2 Program Level Analysis & Reporting 2018-08-31-02 Enhancements to Support CID IT Projects 2018-08-31-04 PM Repository for CCSI and DOE Historical Benchmarking Data 2018-08-31-08 Budget Information <p>(showing 6 of 6 results)</p>	<p style="text-align: center;">In Training & Deployment</p> <ul style="list-style-type: none"> 2018-08-21 Updates to Red-Yellow Report <p>(showing 1 of 1 results)</p>
<p style="text-align: center;">Awaiting CCB Review</p> <p>(showing 0 of 0 results)</p>	
<p style="text-align: center;">In The Parking Lot</p> <ul style="list-style-type: none"> 2018-04-19, Increase Character Limits 2018-08-31-01 Potential Enhancements for Cost Estimating Support (NA-CEPE) <p>(showing 2 of 2 results)</p>	

Ongoing - Several in PMO Action are not scoped well and rather than push back to rewrite, will work with authors to update and then move forward. Those going to Prioritization and Planning will have focus in the June 2019 timeframe.



Other Software

- Deltek Acumen
- Aztech ACE
- Cloud EVM
- ForProject
- Others...



Questions or Comments