# Project Management Update

Bob Raines Director, Project Management Systems and Assessments



- Everybody's Favorite Subject
- Cost Estimating
- EVMS
- Metrics
- Take Aways

# Agenda

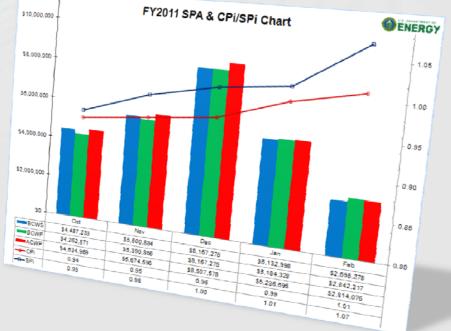
#### Ahead of Schedule On Budget

- S-2's Stretch Goal
- 177 Projects, \$92B TPC

#### Front End Planning

- User Acceptance Testing
- Comprehensive Training
- System Documentation
- Capacity/Throughput Testing
- Communications via ESC
- Thank You For Your Support!
- Ensure New Contracts Include PARS II Requirement

# PARS II : Everyone's Favorite Subject



### DOE is

### **Taking Advantage of PARS II**

- SC is Using PARS II For an IT Project
- EM is Using PARS II Data to Feed Other Project Oversight Systems
- Input for EIR's, CPR's EVMS reviews, etc.
- i-Manage

# **PARS II : Gaining Traction**

#### Your Feedback Generates Improvement

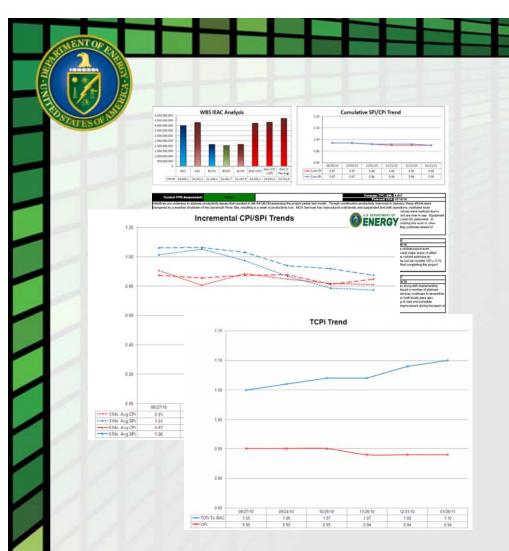
#### Multi-track Enhancement Strategy

- Two FY 11 Upgrades UAT, Trouble Desk, Program Input
  - April: 53 Enhancements and New Capabilities
  - Sept: TBD Change Control Board
- User Requested Custom Reports
  - Developed Customized Reports for NNSA & EM
  - Power Users Training in April: Creating Reports

#### Communications Essential

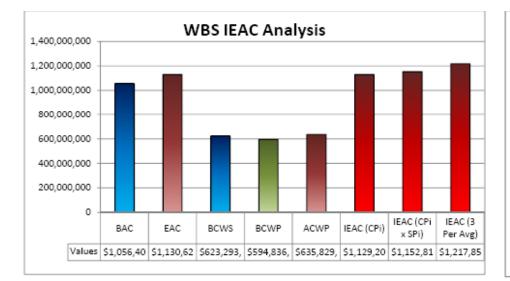
 Eric Cochran, Kurt Fisher, Rich Person, John Makepeace Cathe Mohar and Other OECM Staff

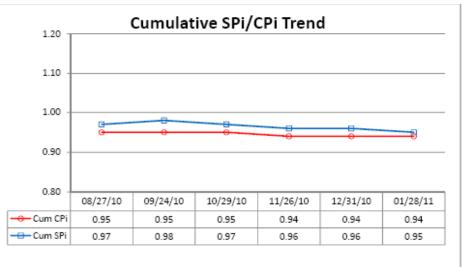
### **PARS II: Enhancements**



- Project Quick View Management Report
- Incremental CPi/SPi Trends
- TCPi Trends

### **PARS II Enhancements Examples**





	Yellow	Forecast TPC (\$M): 1,227
Current FPD Assessment:	fellow	Forecast CD4: 07/01/14
During the month of Japuany, the project	st porformed below plapped (SPL 7	(0) and above cost (CDL 01). Construction of the second level docks as well as second and third level wells continued during the

During the month of January, the project performed below planned (SPI.79) and above cost (CPI.91). Construction of the second level decks as well as second and third level walls continued during the period. Process pipe and support installation began in the Central Processing Area and mechanical installations continued to make good progress on the first level. Facility Support Area concrete placements made good progress during the period.

The project continued to be impacted by workarounds in the sequence of walls and decks to mitigate late vendor deliveries. Inclement weather during the period including snow days which closed the Savannah River Site for two days, contributed to the schedule slip. Cost performance continues to be negatively impacted by high engineering costs and costs for new tank vendor which are not currently in the baseline.

Prior OECM Assessment:	Vellow	Forecast TPC (\$M): 1,227
Phor OECM Assessment:	Tenow	Forecast CD4: 11/01/13

The project assessment remains YELLOW pending identification of a path forward for the project in light of the delayed delivery of large ASME vessels and associated problems. The Federal project staff recently completed a review and update to the Risk Assessment and Management Plan (RAMP), and Parsons recently submitted a "bottoms-up" Estimate-at-Completion (EAC) and a revised project schedule incorporating a new construction strategy designed to offset the effects of delayed delivery of major ASME vessels. OECM has not yet been provided with those analyses, which are the topics of ongoing discussions between Parsons and the Federal staff. Although no contract modifications are expected to result from the revised schedule and EAC, the FPD anticipates that an approximately \$70M cost adjustment will be made as Parsons' Performance Measurement Baseline is adjusted to reflect the new schedule and updated RAMP originally scheduled for Jan completion has been returned to Parsons for a second time for corrections.

Although the cumulative cost and schedule indices (CPI = .94; SPI = .96) for the project are acceptable, these numbers mask negative cost and schedule trends that should be addressed when the baseline is revised. The monthly CPI's over the past three months (.93,.82,.70) reflect ongoing cost overruns that are largely attributable to increased construction support and vendor support. Throughout much of the past year, this over-spending in support costs had helped to keep the project on schedule. However, the SPI's over the past three months (.83,.72,.81) suggest that the effectiveness of those efforts may be diminishing.

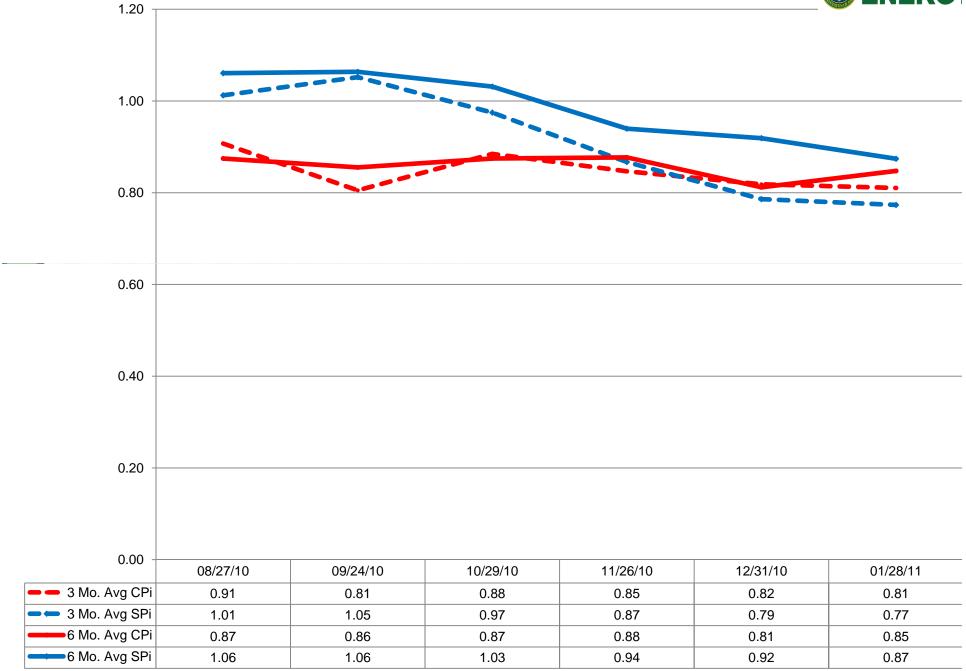
Prior FPD Assessment:	Vellow	Forecast TPC (\$M): 1,227
Phot FPD Assessment.	Tellow	Forecast CD4: 10/23/13
During the month of December, the	project performed below planned (SP	1.81) and above cost (CPI.70). The project continued to be impacted by workarounds in the sequence of walls and decks to

mitigate late vendor deliveries. Indement weather during the period including high wind, very cold temperatures, and rain, contributed to the schedule slip.

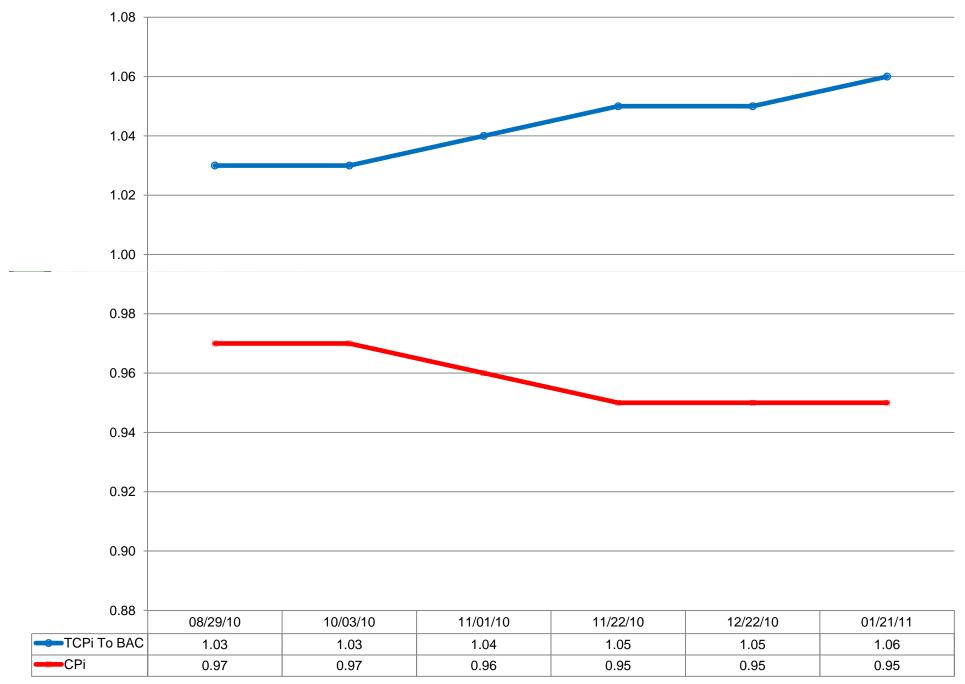
### **Project Quick View Management Report**

#### **Incremental CPi/SPi Trends**





#### **TCPi Trend**



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### PARS II Questions?

- <u>http://management.energy.gov</u>
   <u>/online\_resources/pars2.htm</u>
  - Documentation
  - Training Schedule
  - FAQs
  - Business Rules
- Call Your OECM Analyst

## **PARS II**

### **Congressional Concerns**

- No policy establishing estimating standards
  - No policy for performing Ind. Cost Estimates
- Consolidate DOE's cost estimating organization
- Perform ICE's on "Program" before constructing smaller project components
- No Post CD-2/3 expenditure of funds for projects over \$100M without an ICE
- Concerns addressed in DOE 413.3B

## **Cost Estimating**

#### Independent

Risk Based, Data Driven

### Efficient and Effective

- Industry Standards
- AACE Best Practices
- Unique DOE Project Data Warehouse

#### Focus on Outcomes

- ROM @ CD-0
- Avoid CD-1 Reset
- Success at CD-2
- Collaboration with all stakeholders

# **Cost Estimating:** First Principles

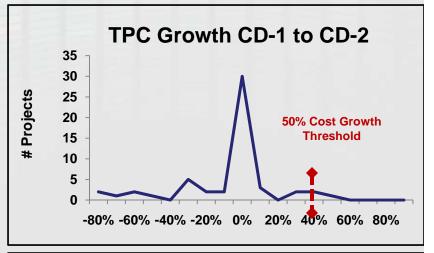
#### Projects < \$100M</li>

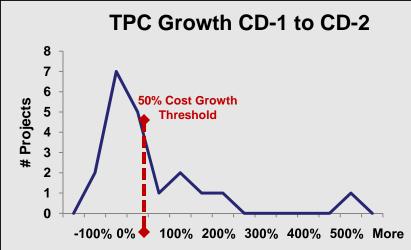
- No projects require reset
- Small projects easier to manage
- Validates "intuition and policies"

### Projects >\$100M

- Six projects >50% cost growth
- More complex, harder to manage
  - Improve front end planning
  - Acquisition strategies
  - Budget/Program mitigations

### Potential 25% threshold





13

### **Avoid Alternative Reevaluation**

Note: Per DOE O 413.3B – if TPC grows by >50% between CD-1(H) and CD-2, then must re-do CD-1!!

### First Independent Cost Review Completed

- Next Generation Light Source: \$0.9 \$1.5B
- Report to be posted on OECM Website
- Combine with Peer Reviews/EIR's

   APS and LCLS II
- DOE Guide 413.3-21 in REVCOM
- Cost Estimating Working Group
- Cost Symposium, May 25-26, New Orleans

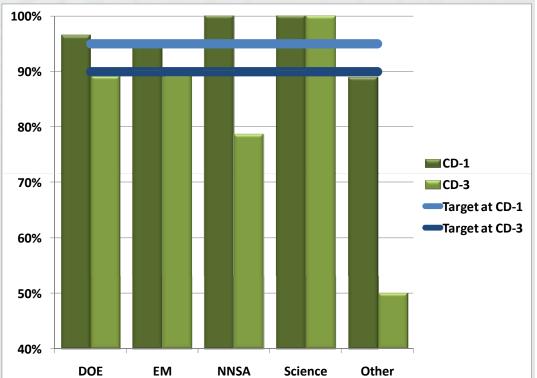
# **Cost Estimating Moving Forward**

- Not everything that counts can be counted, not everything that can be counted counts.
- The Vital Few
  - Reduced from 17 to 8
  - People, Process, Results
- The "Big 3"
  - FPD Qualifications
  - EVMS Certifications
  - Project Success
- How we're doing.....

## **Metrics**



- People our greatest
   asset
- Great Improvement 67% to 89% @CD-3
- Key in Validating Major Projects
- AE Interviews
- Correlates with
   Project Success



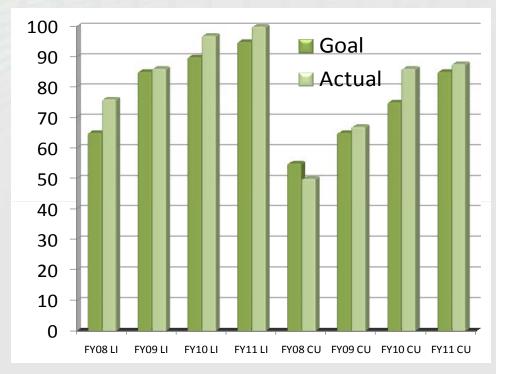
### **FPD Certification**

#### Sustained Success

FY10 – Exceeded Goals
FY11 – Exceeding Goals

✓ LI 100% Act vs. 95% Goal
✓ CU 88% Act vs. 85% Goal

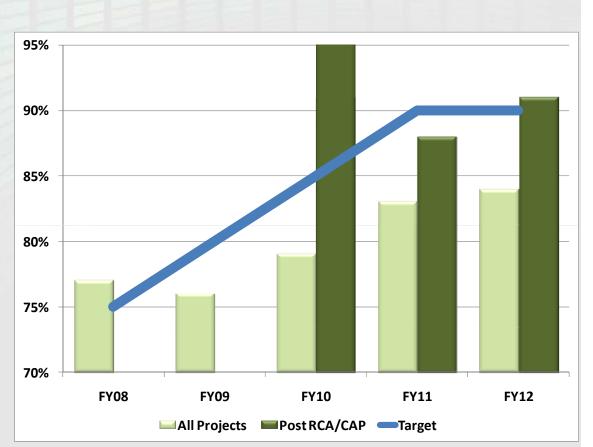
Four Certs Planned in FY11
Focus Shifts to Surveillance
413.3B Responsibility Changes



**EVMS Certification Metrics** 

### **EVMS Certifications**

- Capital Asset
   Success
- Legacy Bow Wave
- Trending Up
- Leadership Counts
  - LCLS
  - Nevada Fire Station
  - Bethel Valley Burial Grounds



## **Project Success**

### Increased Transparency and Accountability

- Project Scorecard
- Program Management
   Scorecard
- Project Success Report
- Posted on the Web, Powerpedia

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		sc	SC-25-08-1			FNAL	2	2	2	2	2	2	2	2
		sc	SC-25-08-3	NUMI Off-axis Neutrino (v) Appearance (NDvA) Ground-Based Dark Energy Experiment (GBDEE) (DES)		FNAL	2	2	2	2	2	2	2	2
		sc	EF-004-001	Building 51 and Bevatron D&D		LENL	2	2	2	2	2	2	2	2
		SC	SC-25-08-2	Reactor Neutrino Detector (RND) (Daya Bay)		LBNL	2	2	2	2	2	2	2	2
		sc	08-SC-71	Modernization of Labor	atory Facilities	ORNL	2	2	2	2	2	2	2	2
		sc	31MK	SNS Instruments (SIN	3)	ORNL	2	2	2	2	2	2	2	2
		SC	07-SC-05	Physical Sciences Fac		PNNL	2	2	2	2	2	2	2	2
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ram	Contractor	sc	MEL-001-50	BNL Renovate Science		BNL BNL	2	2	2	2	2	2	2	2
a.	Los Alamos National Security, LLC	sc	09-SC-72	Seismic Safety Phase		LENL	2	2	2	2	2	2	2	2
1	Energy Solutions	sc			elerator Facility (ATAF)-BELLA tacking In-beam Nuclear Array	LBNL	2	2	2	2	2	2	2	2
	Federal Services, Inc University of Chicago-	sc	MIE-41-NL	Gamma Hay Energy Tr (GRETINA)	acking in-beam Nuclear Array	LENL	2	2	2	2	2	2	2	2
4	Argonne, LLC					Page 1 of 1								
4	Bechtel Jacobs Co., LLC				Oak Ridge, TN		\$	13	60	¥	2010			
4	National Security Technologies, LLC	Solid & Dispos	Waste Stabiliza	tion and	Nevada National Securit	y Site, NV	\$	29	90	٧	2010			
ι.	Los Alamos National Security, LLC	Chemi	stry & Metallu	rgy Research	Los Alamos National Lal NM	ioratory,	\$	164	00	¥	2010	1		
	B&W Pantex, LLC	Gas M Upgra	y Radiological ain and Distrib	ution System	Pantes Plant, TX		\$	10.	82	۷	2010			
ι.	National Security Technologies, LLC	_	ry Highway Co	nstruction	Nevada National Securit	y Site, NV	\$	13.	84	۷	2010			
٩.	8&W Technical Service Y-12, LLC	s Steam	Plant Life Exte	nsion	Y-12 National Security C TN	omplex,	\$	61.	50	¥	2010	1		
ι.	Los Alamos National Security, LLC		ical Area-55 In ical Reinvestm		Los Alamos National Lab	oratory,	5	26.	70	¥	2010			
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### **Transparency and Accountability**





*Office of Management Office of Engineering and Construction Management* 

Program	Contractor	Project Number	Project Title	Project Budget	Monthly Overall Assessment	Cost Performance	Schedule Performance
EERE	Alliance for Sustainable Energy, LLC	06-EE-01B	Research Support Facility (RSF) II	\$ 67,700,000	G	1.00	1.02
EERE	Alliance for Sustainable Energy, LLC	07-EE-01-1	Integrated Biorefinery Research Facility (IBRF) Stage 1	\$ 20,796,000	G	1.01	1.00
EERE	Alliance for Sustainable Energy, LLC	07-EE-01-2	Integrated Biorefinery Research Facility (IBRF) Stage 2	\$ 13,400,000	G	NA	NA
ЕМ	CH2M-WG Idaho, LLC (INL)	06-D-401	Sodium Bearing Waste Treatment (SBWT)	\$ 571,000,000	G	0.93	0.95
ЕМ	Stanford University	CBC-SLAC-0030.R1	Soil and Water Remediation - SLAC 2	\$ 32,700,000	R	NR	NR
NA	Los Alamos National Security, LLC	04-D-125B	Chemistry & Metallurgy Research Facility Replacement Project (CMRR) - PHASE B Radiological Laboratory Utility Office Building (RLUOB) Equipment Installation	\$ 199,400,000	G	1.02	1.25
NA	Los Alamos National Security, LLC	08-D-701	Nuclear Materials Safeguards and Security Upgrades Project (NMSSUP) Phase II	\$ 245,166,000	Ŷ	0.98	0.87
NA	B&W Pantex, LLC	08-D-801	High Pressure Fire Loop (HPFL)	\$ 42,360,000	G	1.19	1.03
NA	Sandia Corporation, a Lockheed Martin Co.	08-D-806	Ion Beam Laboratory	\$ 39,636,000	G	1.09	1.04
NA	B&W Technical Services Y-12, LLC	10-D-501	Nuclear Facility Risk Reduction (NFRR)	\$ 75,796,000	G	1.06	0.96
NA	Los Alamos National Security, LLC	17-XX-DD-XXX	Demolition of Building South Mesa (SM)-43	\$ 29,560,000	G	1.15	1.13
sc	Brookhaven Science Associates, LLC	09-SC-73	Interdisciplinary Science Building - Phase I	\$ 66,800,000	G	1.02	1.00

#### PROGRAM MANAGEMENT SCORECARD

#### Quarterly Performance Report

Program: SC - 24 Projects

NO.	REFERENCE	ELEMENT	MEASURE	SCORE			
1	DOE O 413.3B App A, Table 2.0	Project Reporting	Projects report status monthly using the web-based Project Assessment and Report Assessment (PARS).	100%			
2	DOE O 413.3B App A, Table 2.3	Earned Value Management System (EVMS) <sup>2</sup>	Projects employ a certified EVMS prior to CD-3.	100%			
3	DOE O 413.3B App A, Table 2.2	Budget Request	Projects submit a budget request for the Total Project Cost (TPC) upon approval of CD-2	100%			
4	DOE O 413.3B App B, Sec 7; DOE O 361.1A	Federal Project Director (FPD) <sup>2</sup>	Projects have FPDs certified at the appropriate level no later than CD-3.	100%			
5	DOE O 413.3B App C, Sec 7						
6	DOE O 413.3B App C, Sec 18.f	Project Peer Reviews	For projects >\$100M, conduct project peer review annually starting at CD-2 and continuing through CD-4	100%			
			OVERALL SCORE:	100%			

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Program	Project No.	Project Name	Site		eporti	ng	EVMS	Budget Request	FPD	IPT	Peer Reviews
SC	07-SC-06	National Synchrotron Light Source-II (NSLS-II)	BNL	2	2	2	2	2	2	2	2
SC	SC-25-06-1	NUMI Off-axis Neutrino (v) Appearance (NOvA)	FNAL	2	2	2	2	2	2	2	2
SC	SC-25-06-3	Ground-Based Dark Energy Experiment (GBDEE) (DES)	FNAL	2	2	2	2	2	2	2	2
SC	EF-004-001	Building 51 and Bevatron D&D	LBNL	2	2	2	2	2	2	2	2
SC	SC-25-06-2	Reactor Neutrino Detector (RND) (Daya Bay)	LBNL	2	2	2	2	2	2	2	2
SC	08-SC-71	Modernization of Laboratory Facilities	ORNL	2	2	2	2	2	2	2	2
SC	31MK	SNS Instruments (SING)	ORNL	2	2	2	2	2	2	2	2
SC	07-SC-05	Physical Sciences Facility (PSF)	PNNL	2	2	2	2	2	2	2	2
SC	MIE-001	LCLS Ultrafast Science Instruments (LUSI)	SLAC	2	2	2	2	2	2	2	2
SC	06-SC-01	12 GeV CEBAF Upgrade	TJNAF	2	2	2	2	2	2	2	2
SC	09-SC-74	Technology & Engineering Development Facility (TEDF)	TJNAF	2	2	2	2	2	2	2	2
SC	09-SC-73	Interdisciplinary Science Building - Phase I	BNL	2	2	2	2	2	2	2	2
SC	10-SC-72	Renovate Science Labs-Phase II (RSL-II)	BNL	2	2	2	2	2	2	2	2
SC	MEL-001-50	BNL Renovate Science Laboratories Phase I	BNL	2	2	2	2	2	2	2	2
SC	09-SC-72	Seismic Safety Phase 2	LBNL	2	2	2	2	2	2	2	2
SC	09-SC-HEP-BELL	Advanced Plasma Accelerator Facility (ATAF)-BELLA	LBNL	2	2	2	2	2	2	2	2
SC	MIE-41-NL	Gamma Ray Energy Tracking In-beam Nuclear Array (GRETINA)	LBNL	2	2	2	2	2	2	2	2

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#### FY 2008-2010 Project Success Metrics

Office of Management

Office of Engineering and Construction Management

Program	Contractor	Project Name	Site	El	proved udget (\$M)	Met Success Standard	Fiscal Year Completed
EM	Los Alamos National Security, LLC	Decontamination & Decommissioning Tritium Systems Test Assembly	Los Alamos National Laboratory, NM	\$	14.80	Y	2010
EM	Energy Solutions Federal Services, Inc	Moab Uranium Mill Tailings Remediation	Moab, UT	\$	40.70	Y	2010
EM	University of Chicago- Argonne, LLC	Nuclear Facility Decontamination & Demolition - East	Argonne National Laboratory, IL	\$	17.83	Y	2010
EM	Bechtel Jacobs Co., LLC	Soil and Water Remediation - Offsites	Oak Ridge, TN	\$	13.40	Y	2010
EM	National Security Technologies, LLC	Solid Waste Stabilization and Disposition	Nevada National Security Site, NV	\$	29.90	Y	2010
NA	Los Alamos National Security, LLC	Chemistry & Metallurgy Research Facility Radiological Laboratory	Los Alamos National Laboratory, NM	\$	164.00	Y	2010
NA	B&W Pantex, LLC	Gas Main and Distribution System Upgrade	Pantex Plant, TX	\$	10.82	Y	2010
NA	National Security Technologies, LLC	Mercury Highway Construction	Nevada National Security Site, NV	\$	13.84	Y	2010
NA	B&W Technical Services Y-12, LLC	Steam Plant Life Extension	Y-12 National Security Complex, TN	\$	61.50	Y	2010
NA	Los Alamos National Security, LLC	Technical Area-55 Infrastructure, Technical Reinvestment Project 1	Los Alamos National Laboratory, NM	\$	26.70	Y	2010
sc	University of California- LBNL	Building 77 Rehabilitation - Phase II	Lawrence Berkeley National Laboratory, CA	\$	13.61	Y	2010
sc	Brookhaven Science Associates, LLC	Electron Beam Ion Source	Brookhaven National Laboratory, NY	\$	14.80	Y	2010

### **Contractor Self Certifications: < \$50 M**

- CO/FPD Involved
- Independent of Proj Team

### PMSO Certification: \$50 - \$100 M

- Independent Reviewers
- OECM on review Team

### OECM Certification > \$100 M

- > \$50 M non-PMSO's
- Corporate Certifications
- Transition Assistance
- Focus on Surveillance

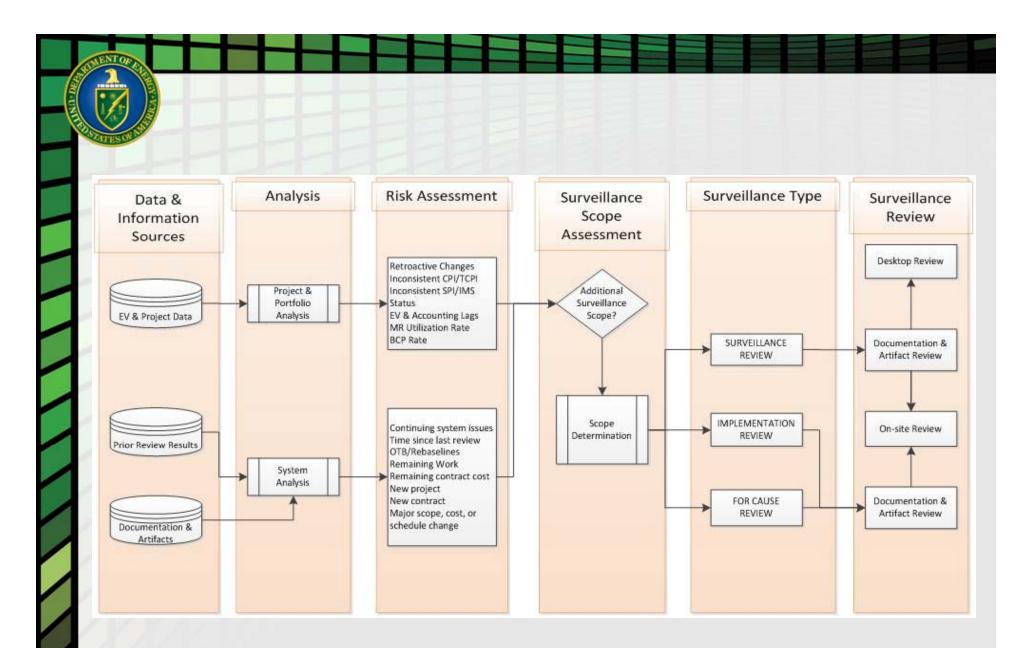
### EVMS 413.3B Changes

#### **New Process**

- Not a "Re-certification"
- Risk based, data driven
- Demonstration of system implementation
- Self assessments, site visits peer reviews, PARS
- Goal: Minimize site reviews
- Partnered with EFCOG, Program Offices

EVMS RISK M	ATRIX (revision 3/10/11)	DATE:	POC:	
PROGRAM OFFICE:	SITE:	CONTRACTOR:	PROJECT:	
RISK	HIGH	MEDIUM	LOW	SCORE (H,M,L)
PM EVM EXPERIENCE	< 2 YRS Organizing, Scheduling, Managerial Analysis	2 – 5YRS Scheduling, Managerial Analysis	> 5YRS Managerial Analysis	
TOTAL PROJECT VALUE	≥ \$400M Work/Budget Authorization, Accounting, Managerial Analysis	\$100M < \$400M Scheduling, Work/Budget Authorization	< \$100M Scheduling	
VALUE OF PRIME WORK REMAINING	> 50% Managerial Analysis, Change Incorporation	10 - 50% Managerial Analysis, Change Incorporation	< 10% Accounting, Material Management	
VALUE OF SUBC WORK REMAINING	> 50% Work/Budget Authorization, Scheduling, Subcontract Management, Managerial Analysis	10 – 50% Work/Budget Authorization, Scheduling, Subcontract Management, Managerial Analysis	< 10% Accounting, Subcontract Management	
VALUE OF MGMT RES REMAINING	<5% BCWR Work/Budget Authorization, Change Incorporation	5 – 10% BCWR Work/Budget Authorization, Change Incorporation	> 10% BCWR Change Incorporation	
CRITICAL PATH FLOAT	NEGATIVE – NO MARGIN Scheduling, Managerial Analysis	POSITIVE 15 - 40 WORK DAYS School	> 40 POSIZ	

### **EVMS Surveillance**



### **Surveillance Decision Process**

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- Project Management Working Group
  - Construction Management Subgroup
  - Cost Estimating Subgroup
- Consistent, cost effective, sustainable project management performance
- Significant Achievements and Tasks
  - DOE 413.3B
    Design Maturity Definition
  - PARS II IPT
     Peer Review Support
  - Training/Certification Contract/Proj Alignment

## **EFCOG Collaboration**

- Transparency, Participation, and Collaboration
- Risk Informed Cost Effective Decisions
- Systems and Process changes support line Mission Execution and Accountability
- Quantitative & Qualitative Improvement
- OECM is part of your Team

## **Take Aways**