

## FY 2019 Final Report

### Overall Root Cause Analysis (RCA)/Corrective Action Plan (CAP) Performance Metrics

No.	Contract/Project Management Performance Metrics	FY 2019 Target	FY 2019 Actual	Comment
1	<b>Capital Asset Project Success:</b> Complete 90% of capital asset projects at original scope and within 110% of CD-2 TPC.	90%	Construction 89%	Based on 3-year rolling period (FY17 to FY19). TPC is Total Project Cost.

No.	Contract/Project Management Performance Metrics	FY 2019 Target	FY 2019 Actual	Comment
2	<b>Certified EVM Systems:</b> Post CD-3, greater than \$100 million.	95%	95%	EVM: Earned Value Management. CD-3: Critical Decision-3, Approve Start of Construction/Execution.
3	<b>Certified FPD's at CD-1:</b> Projects have certified FPDs no later than CD-1.	95%	96%	FPD: Federal Project Director CD-1: Critical Decision-1, Approve Alternative Selection and Cost Range.
4	<b>Certified FPD's at CD-3:</b> Projects have FPDs certified at the appropriate level assigned to projects no later than CD-3.	90%	82%	
5	<b>Certified Contracting Staff:</b> By the end of FY 2011, 85% of the 1102 contracting series will be certified.	85%	94%	Certified 1102s verified against DOE Human Resources GS-1102 job series
6	<b>Schedule Compliance, Projects Less Than 5 Years Duration:</b> Projects will meet the project schedule metric that follows: from CD-3 to CD-4, projects less than five years duration will be completed within 12 months of the original CD-3/4 duration.	90%	94%	FY17-FY19: 16 completions through 4th Qtr. CD-4: Critical Decision-4, Approve Start of Operations/Project Completion.
7	<b>Schedule Compliance, Projects Greater Than 5 Years Duration:</b> Projects will meet the project schedule metric that follows: from CD-3 to CD-4, projects greater than five years duration will be completed within 20% of the original CD-3/4 duration.	90%	50%	FY17-FY19: 2 completions through 4th Qtr.

Note: Projects \$50M or less that have achieved Critical Decision (CD)-2/3 prior to the applicability threshold change to DOE Order 413.3B (Change 5) are included in the project management success metrics.



**FY 2019 Final Project Management Performance Metrics \***  
**Supporting Detail for Overall Project and Schedule Success**

								Success Metric		
								#1	#6	#7
Program	PARS II Project ID	Project Name	Site Code	CD-2 TPC	Latest TPC	Project Status	FY Completed	Project Success	Schedule Success < 5 Years	Schedule Success > 5 Years
EM-L	1014	Fort St. Vrain Facility Improvements Project	INL	11,400,000	11,400,000	Other	2018	Yes	Yes	NA
EM-L	538	Saltstone Disposal Unit #6 (SDU6)	SRS	143,166,420	121,700,000	Completed	2017	Yes	NA	Yes
NA	444	TRU Waste Facilities, Phase B, Staging and Characterization Facility	LANL	99,165,000	83,912,348	Completed	2017	Yes	Yes	NA
NA	754	TA-55 Infrastructure Reinvestment, Phase II, Phase C	LANL	92,696,000	93,616,154	Completed and Closed	2018	Yes	Yes	NA
NA	1013	Radioactive Liquid Waste Treatment Facility Upgrade Project Low Level Waste	LANL	82,694,000	87,900,000	Completed	2019	Yes	Yes	NA
NA	1107	Device Assembly Facility (DAF) Perimeter Protection	NNSS	19,200,000	13,300,000	Other	2018	Yes	Yes	NA
NA	1037	Uranium Processing Facility Site Infrastructure and Services	Y-12	78,500,000	60,503,000	Completed and Closed	2018	Yes	Yes	NA
NA	400	Mixed Oxide Fuel Fabrication Facility (MOX)	SRS	4,814,329,000		Cancelled - Post CD-2	2018	No Scope	NA	NA
NA	394	High Explosive Pressing Facility (HEPF)	Pantex	80,578,000	117,008,000	Completed	2017	No Cost	No	NA
NE	564	Remote-Handled Low-Level Waste Disposal	INL	77,576,000	72,824,000	Completed and Closed	2018	Yes	Yes	NA
NE	1130	CPP-603 Large Cask Adaptation Project	INL	14,357,385	11,907,047	Other	2018	Yes	Yes	NA
SC	692	NSLS II Experimental Tools (NEXT)	BNL	90,000,000	89,303,000	Completed	2017	Yes	Yes	NA
SC	693	Utilities Upgrade (UU)	FNAL	36,000,000	35,559,000	Other	2018	Yes	Yes	NA
SC	925	Muon g-2 Project at Fermi National Accelerator Laboratory (FNAL)	FNAL	46,400,000	46,205,000	Completed and Closed	2018	Yes	Yes	NA
SC	1009	Infrastructure and Operational Improvements (IOI) Project	PPPL	26,000,000	25,669,000	Completed and Closed	2019	Yes	Yes	NA
SC	742	Science and User Support Building (SUSB)	SLAC	65,000,000	64,602,000	Completed and Closed	2017	Yes	Yes	NA
SC	1007	Photon Science Laboratory Building (PSLB)	SLAC	57,000,000	56,959,000	Completed	2019	Yes	Yes	NA
SC	482	12 GeV Continuous Electron Beam Accelerator Facility (CEBAF) Upgrade	TJNAF	310,000,000	336,600,000	Completed	2017	Yes	NA	No
SC	694	Utilities Infrastructure Modernization (UIM)	TJNAF	29,900,000	29,892,000	Other	2018	Yes	Yes	NA

**Notes:**

NA: Not Applicable

(F): (Forecast)

TBD: Result will be determined when Critical Decision-4 Project Completion is approved.

Summary	Project Success	Schedule Success < 5 Years	Schedule Success > 5 Years
# Projects	19	16	2
# Success	17	15	1
% Success	89%	94%	50%

\* Metrics updated to reflect the date of MOX cancellation as the date of the Secretary's certification to Congress. The date of cancellation in PARS changed from October 10, 2018 (FY19) to May 10, 2018 (FY18).

## FY 2019 Final Project Management Performance Metrics

### Metric #2) Certified Contractor EVM Systems: 95% (18 of 19)

Program	Project Name	Site Code	Current CD	Current TPC (\$K)	CD-3 Is EVMS Certified?	Contractor
EM-L	On-Site Waste Disposal Facility - Initial Infrastructure & Cells 1, 4 & 5 Liner Construction	Portsmouth	CD3	\$ 285,000	No	Not certified (see Note 1)

### Metric #3) Percentage of Projects With CD-1 and a Certified FPD: 96% (54 of 56). Exceptions:

Program	Project Name	Site Code	Current CD	Current TPC (\$K)	CD-1 Is FPD Certified?	Contractor
NA	NNSA Albuquerque Complex Project - II	KAFB	CD3	\$ 174,700	No	FPD is not certified
NA	Exascale Computing Facility Modernization Project	LLNL	CD1/3A	\$ 125,000	No	FPD is not certified

### Metric #4) Percentage of Projects With CD-3 and a Properly Certified FPD: 82% (23 of 28). Exceptions:

Program	Project Name	Site Code	Current CD	Current TPC (\$K)	CD-3 Is FPD Properly Certified?	Contractor
EM-L	Safety Significant Confinement Ventilation System	Carlsbad	CD3	\$ 288,000	No	FPD is Level 1, needs Level 3
EM-L	Utility Shaft Project	Carlsbad	CD3	\$ 196,985	No	FPD is Level 1, needs Level 3
NA	Electrorefining Project	Y-12	CD3	\$ 101,000	No	FPD is Level 2, needs Level 3
NA	NNSA Albuquerque Complex Project - II	KAFB	CD3	\$ 174,700	No	FPD is not certified
SC	Advanced Photon Source Upgrade	ANL	CD3	\$ 815,000	No	FPD is Level 3, needs Level 4

**Note 1:** On February 2, 2018, the Under Secretary for Science approved an exemption through December 31, 2018 enabling EM to proceed to Critical Decision-3, Approve Start of Construction, prior to the contractor achieving certification on their Earned Value Management System (EVMS). In the interim period between CD-3 approval and the Office of Project Management (PM) certification of the EVMS, alternate project controls would be used. Certification of the Portsmouth EVMS is targeted for completion by CY2019 if no significant issues are identified. Project received an extension until September 27, 2019, from the Under Secretary.