

FY 2018 Final Report

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

No.	Contract/Project Management Performance Metrics	FY 2018 Target	FY 2018 Actual	Comment
1	Capital Asset Project Success: Complete 90% of capital asset projects at original scope and within 110% of CD-2 TPC.	90%	Construction 93%	Based on 3-year rolling period (FY16 to FY18). TPC is Total Project Cost.

No.	Contract/Project Management Performance Metrics	FY 2018 Target	FY 2018 Actual	Comment
2	Certified EVM Systems: Post CD-3, greater than \$100 million.	95%	81%	EVM: Earned Value Management. CD-3: Critical Decision-3, Approve Start of Construction/Execution.
3	Certified FPD's at CD-1: 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	Certified FPD's at CD-3: Projects have FPDs certified <u>at the appropriate level</u> assigned to projects no later than CD-3.	90%	81%	
5	Certified Contracting Staff: By the end of FY 2011, 85% of the 1102 contracting series will be certified.	85%	97%	Certified 1102s verified against DOE Human Resources GS-1102 job series
6	Schedule Compliance, Projects Less Than 5 Years Duration: 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%	92%	FY16-FY18: 13 completions through 4th Qtr. CD-4: Critical Decision-4, Approve Start of Operations/Project Completion.
7	Schedule Compliance, Projects Greater Than 5 Years Duration: 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%	FY16-FY18: 2 completions through 4th Qtr.

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

**FY 2018 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	97,500,000	Completed	2017	Yes	Yes	NA
NA	754	TA-55 Infrastructure Reinvestment, Phase II, Phase C	LANL	92,696,000	94,200,000	Completed	2018	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	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	73,032,000	Completed	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	Other	2018	Yes	Yes	NA
SC	895	U.S. Belle II	PNNL	15,000,000	14,778,427	Completed and Closed	2016	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	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	15	13	2
# Success	14	12	1
% Success	93%	92%	50%

FY 2018 Final Project Management Performance Metrics

Metric #2) Certified Contractor EVM Systems: 81% (13 of 16)

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)
EM-L	Safety Significant Confinement Ventilation System	Carlsbad	CD3	\$ 288,000	No	Not certified (see Note 2)
NA	Mixed Oxide Fuel Fabrication Facility (MOX)	SRS	CD3	\$ 4,857,129	No	Certification withdrawn October 19, 2017

Metric #3) Percentage of Projects With CD-1 and a Certified FPD: 96% (49 of 51). Exceptions:

Program	Project Name	Site Code	Current CD	Current TPC (\$K)	CD-1 Is FPD Certified?	Contractor
NA	Exascale Computing Facility Modernization Project	LLNL	CD1	\$ 125,000	No	FPD is not certified
SC	Infrastructure and Operational Improvements (IOI) Project	PPPL	CD3	\$ 26,000	No	FPD is not certified

Metric #4) Percentage of Projects With CD-3 and a Properly Certified FPD: 81% (21 of 26). Exceptions:

Program	Project Name	Site Code	Current CD	Current TPC (\$K)	CD-3 Is FPD Properly Certified?	Contractor
EM-L	Outfall 200 Mercury Treatment Facility	Oak Ridge	CD3	\$ 224,000	No	FPD is Level 2, needs Level 3
EM-L	Safety Significant Confinement Ventilation System	Carlsbad	CD3	\$ 288,000	No	FPD is Level 2, needs Level 3
NA	CMRR RLUOB Equipment Installation, Phase 2	LANL	CD3	\$ 633,300	No	FPD is Level 3, needs Level 4
SC	Photon Science Laboratory Building (PSLB)	SLAC	CD3	\$ 57,000	No	FPD is Level 1, needs Level 2
SC	Infrastructure and Operational Improvements (IOI) Project	PPPL	CD3	\$ 26,000	No	FPD is not certified, needs Level 1

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 is currently seeking an extension from the Under Secretary.

Note 2: 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 WIPP contractor's EVMS is targeted for completion by CY2019 if no significant issues were identified. Project is currently seeking an extension from the Under Secretary.