

FY 2020 Second Quarter Report

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

No.	Contract/Project Management Performance Metrics	FY 2020 Target	FY 2020 Forecast	Comment
1	Capital Asset Project Success: 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 (FY18 to FY20). TPC is Total Project Cost.

No.	Contract/Project Management Performance Metrics	FY 2020 Target	FY 2020 2nd Qtr Actual	Comment
2	Certified EVM Systems: Post CD-3, greater than \$100 million.	95%	100%	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%	94%	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%	72%	
5	Certified Contracting Staff: By the end of FY 2011, 85% of the 1102 contracting series will be certified.	85%	96%	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%	100%	FY18-FY20: 15 completions through 2nd 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%	NA	FY18-FY20: 0 completions through 2nd 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 2020 Second Quarter 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	389	Salt Waste Processing Facility (SWPF)	SRS	900,000,000	2,322,000,000	Active	2020	No Cost (F)	TBD	TBD
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	87,974,630	Completed and Closed	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	400	Mixed Oxide Fuel Fabrication Facility (MOX)	SRS	4,814,329,000		Cancelled - Post CD-2	2019	No Scope	NA	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	1085	UPF Substation Subproject	Y-12	60,000,000	47,000,000	Completed	2020	Yes	Yes	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	736	Materials Design Laboratory (MDL)	ANL	96,000,000	96,000,000	Completed	2020	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	1008	Integrative Genomics Building (IGB) Project	LBNL	91,500,000	91,500,000	Completed	2020	Yes	Yes	NA
SC	1023	LUX-Zeplin Dark Matter Experiment (LZ)	LBNL	55,500,000	55,500,000	Active	2020	Yes (F)	TBD	TBD
SC	1009	Infrastructure and Operational Improvements (IOI) Project	PPPL	26,000,000	25,669,000	Completed and Closed	2019	Yes	Yes	NA
SC	1007	Photon Science Laboratory Building (PSLB)	SLAC	57,000,000	56,959,000	Completed	2019	Yes	Yes	NA
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	18	15	0
# Success	16	15	0
% Success	89%	100%	NA

FY 2020 Second Quarter Project Management Performance Metrics
Metric #2) Certified Contractor EVM Systems: 100% (22 of 22). Exceptions:

Program	Project Name	Site Code	Current CD	Current TPC (\$K)	CD-3 Is EVMS Certified?	Comments
-	None	-	-	-	-	-

Metric #3) Percentage of Projects With CD-1 and a Certified FPD: 94% (62 of 66). Exceptions:

Program	Project Name	Site Code	Current CD	Current TPC (\$K)	CD-1 Is FPD Certified?	Comments
NA	NNSA Albuquerque Complex Project - II	KAFB	CD3	\$ 174,700	No	FPD is not certified
NA	Exascale Computing Facility Modernization Project	LLNL	CD3	\$ 111,200	No	FPD is not certified
SC	LUX-Zeplin Dark Matter Experiment (LZ)	LBNL	CD3	\$ 55,500	No	FPD is not certified
SC	Gamma-Ray Energy Tracking Array (GRETA)	LBNL	CD1	\$ 65,000	No	FPD is not certified

Metric #4) Percentage of Projects With CD-3 and a Properly Certified FPD: 72% (21 of 29). Exceptions:

Program	Project Name	Site Code	Current CD	Current TPC (\$K)	CD-3 Is FPD Properly Certified?	Comments
EM-L	Tank-Side Cesium Removal System Demonstration Subproject	ORP	CD3	\$ 164,000	No	FPD is Level 2, 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
NA	Exascale Computing Facility Modernization Project	LLNL	CD3	\$ 111,200	No	FPD is not certified
NE	Sample Preparation Laboratory (SPL)	INL	CD3	\$ 166,000	No	FPD is Level 2, needs Level 3
SC	Advanced Photon Source Upgrade (APS-U)	ANL	CD3	\$ 815,000	No	FPD is Level 3, needs Level 4
SC	LUX-Zeplin Dark Matter Experiment (LZ)	LBNL	CD3	\$ 55,500	No	FPD is not certified
SC	Core Facility Revitalization (CFR) Project	BNL	CD3	\$ 74,850	No	FPD is Level 1, needs Level 2