

U.S. CMS Detector Operations Change Control Activity						
		Change Request				
WBS	Subsystem	Number	Description of Change	CY16Q2 Plan	Change \$	CY16Q3 Plan
11	Endcap Muon	CR-025	CERN TA UCLA COLA redistribution and reduction	\$1,892,167	(\$2,814)	\$1,889,353
12	Hardon Calorimeter	Adjust & CR-032, 033, 034, 035, 036	CERN TA Brown COLA for detector performance, Maryland travel for burn-in and DQM, Iowa materials and labor for radiation damage tests, CERN TA M&S reduction, CERN TA Texas Tech COLA for DQM	\$1,759,469	\$80,245	\$1,839,715
13	Trigger			\$825,091	\$0	\$825,091
14	Data Acquisition			\$985,340	\$0	\$985,340
15	Electromagnetic Calorimeter	CR-013	CERN TA COLA reduction, added travel support	\$920,057	(\$6,753)	\$913,303
16/17	Tracker (Fpix & SiTrk)	CR-001, 002, 003	M&O-B adjustment, CERN TA Brown labor for Detector Performance Group, CERN TA UCSD COLA	\$853,361	\$736	\$854,097
18	Detector Support		Adjustment prior to SOW	\$114,165	\$5,000	\$119,165
19	BRIL			\$343,754	\$0	\$343,754
30	Phase 2 Upgrade R&D		See table of Phase 2 Upgrade R&D changes, and notes	\$4,037,411	(\$371,069)	\$3,666,341
11-19,30 Detector Operations				\$11,730,815	(\$294,655)	\$11,436,160
U.S. CMS Common Operations Change Control Activity						
		Change Request				
WBS	Subsystem	Number	Description of Change	CY16Q2 Plan	Change \$	CY16Q3 Plan
21.2	Common Costs (M&OA)			\$4,332,942	\$0	\$4,332,942
21.3	RCMS			\$543,397	\$0	\$543,397
21.4	LHC Physics Center			\$860,327	\$0	\$860,327
21.5	Operations Support	Adjust & CR-093	Adjustments prior to SOW, and support for UC Riverside travel to Fermilab	\$1,456,688	\$70,302	\$1,526,989
21.6	Program Office			\$1,205,115	\$0	\$1,205,115
21.7	E&O			\$283,809	\$0	\$283,809
21.8	Collaboration Support			\$0	\$0	\$0
21	Common Operations			\$8,682,278	\$70,302	\$8,752,580
U.S. CMS Software and Computing Change Control Activity						
		Change Request				
WBS	Subsystem	Number	Description of Change	CY16Q2 Plan	Change \$	CY16Q3 Plan
22.1	Fermilab Facilities			\$5,923,423	\$0	\$5,923,423
22.2	University Facilities	SOWs, CR-012	SOWs: additional \$125,000 equip at each of 7 Tier-2s; CR-012: Notre Dame travel for univ facilities co-leader	\$3,074,858	\$878,000	\$3,952,858
22.3	Computing Operations		Moved some labor to WBS 22.4 prior to SOW	\$929,058	(\$63,953)	\$865,105
22.4	Computing Infra and Services		Data and workflow mngmt labor increases prior to SOW	\$2,199,661	\$239,823	\$2,439,484
22.5	Software and Support			\$1,516,139	\$0	\$1,516,139
22.6	Technologies & Upgrade R&D	CR-011	Shift COLA to labor at Princeton for new arch reco	\$865,976	\$560	\$866,536
22.7	S&C Program Management & CMS Coordination			\$605,887	\$0	\$605,887
22	Software and Computing			\$15,115,003	\$1,054,430	\$16,169,433
U.S. CMS Operations Program Total				\$35,528,097	\$830,077	\$36,358,173