

U.S. CMS Detector Operations Change Control Activity						
WBS	Subsystem	Change Request	Description of Change	CY19 Q1	Change \$	CY19 Q2
		Number		Plan		Plan
11	Endcap Muon	Pre-SOW	Increase TAMU labor, decrease CERN TA COLA and M&S	\$2,043,554	(\$38,776)	\$2,004,778
	Endcap Muon MEX/1	Pre-SOW	Increase Wisconsin M&S, Boston travel, CERN TA M&S	\$817,570	\$108,998	\$926,568
12	Hardon Calorimeter	Pre-SOW	Increase Maryland labor, decrease CERN TA labor and COLA, decrease Virginia and Notre Dame labor, increase Kansas State labor, add FNAL M&S and labor	\$2,256,745	(\$80,392)	\$2,176,353
13	Trigger	Pre-SOW	Decrease Northeastern COLA for EMTF	\$939,473	(\$7,263)	\$932,209
14	Data Acquisition	Adjust		\$1,269,021	(\$1,991)	\$1,267,031
15	Electromagnetic Calorimeter	Pre-SOW	Increase Caltech labor, increase CERN TA COLA	\$853,155	\$21,779	\$874,935
16/17	Tracker (Fpix & SiTrk)	Pre-SOW, CR-020	Increase UC Davis engineering labor; increase M&S for TBM radiation testing,	\$837,343	\$17,931	\$855,273
18	Detector Support			\$61,953	\$0	\$61,953
19	BRIL	Adjust		\$366,284	\$647	\$366,931
11-19	Detector Operations			\$9,445,098	\$20,933	\$9,466,030
U.S. CMS Common Operations Change Control Activity						
WBS	Subsystem	Change Request	Description of Change	CY19 Q1	Change \$	CY19 Q2
		Number		Plan		Plan
21.2	Common Costs (M&OA)			\$4,729,245	\$0	\$4,729,245
21.3	Run Coord. and Monitoring	Adjust		\$163,076	\$942	\$164,018
21.4	LHC Physics Center	Adjust		\$888,197	\$154	\$888,351
21.5	Operations Support	Pre-SOW	CERN TA labor, M&S and travel, SMU labor, M&S, and travel, Virginia labor, MIT labor and travel, FNAL labor, M&S, and travel	\$1,471,941	\$1,069,508	\$2,541,450
21.6	Program Office	Pre-SOW		\$1,068,253	\$6,499	\$1,074,752
21.7	Education and Outreach	Pre-SOW	Restore portion of Notre Dame M&S and travel	\$150,000	\$50,000	\$200,000
21	Common Operations			\$8,470,713	\$1,127,103	\$9,597,816
U.S. CMS Software and Computing Change Control Activity						
WBS	Subsystem	Change Request	Description of Change	CY19 Q1	Change \$	CY19 Q2
		Number		Plan		Plan
22.1	Fermilab Facilities	Pre-SOW	Refined overhead and labor rate estimates	\$5,983,502	(\$28,180)	\$5,955,322
22.2	University Facilities	Pre-SOW	Decrease in Tier-2 equipment	\$3,489,756	(\$682,908)	\$2,806,848
22.3	Computing Operations	Pre-SOW	Decrease labor and COLA	\$1,404,026	(\$47,988)	\$1,356,037
22.4	Computing Infra. and Services	Pre-SOW	Decrease labor	\$2,623,703	(\$164,187)	\$2,459,516
22.5	Software and Support	Pre-SOW	Decrease labor	\$2,334,925	(\$131,498)	\$2,203,428
22.6	S&C Program Management & CMS Coordination	Adjust		\$435,760	(\$1,176)	\$434,584
22	Software and Computing			\$16,271,672	(\$1,055,937)	\$15,215,734
U.S. CMS Operations Program Total				\$34,187,482	\$92,099	\$34,279,581