

LSST Camera CAVT (Control Account Value Trail) by CA

Updated through May 2019

Significant (EAC)	YES
WBS L2,L3	(All)

Control Account	Month / Change	Sum of BAC	Sum of EAC
3.01.01 Project Management	2014-11 PMB Start	6,747,324	6,747,324
	2014-12 BCR-001 (FY15 Rate Update)	(8,353)	(8,353)
	2014-12 BCR-002 #6 (Correction to LOE Activity Start)	27	27
	2015-12 BCR-021 #3 (FY16 Rate Update)	(59,269)	(59,269)
	2016-10 BCR-039 (LSST Camera Re-org)	1,185,682	1,185,682
	2016-10 BCR-040 #5 (Planning Package Updates)	(2)	(2)
	2016-11 EAC-014 (FY17 Comp EAC Update)		317,159
	2017-01 BCR-044 (January 2017 FY17 Rate Update)	(94,074)	
	2017-04 BCR-050 #1 (Outstanding Performance Annual Bonus)	152,196	152,196
	2017-04 EAC-017 (April 2017 Updates)		77,373
	2017-08 BCR-061 #4 (Work Package Updates)	(3)	
	2017-09 BCR-064 (PM and Sub-System CAM Re-Org)	624,395	624,395
	2017-09 EAC-020 (Adj Post BCR-064, PM and Sub-System CAM Re-Org)		75,327
	2017-10 EAC-021a (FY18 Comp EAC)		(19,447)
	2017-11 BCR-067 (FY18 Rate Updates)	31,466	
	2017-12 EAC-022 (Dec17 EAC Updates)		(76,718)
	2018-02 EAC-024 (Feb18 EAC Updates)		467,259
	2018-03 EAC-025 (Mar18 EAC Updates)		(385,786)
	2018-04 BCR-075 (Standing Army Scope Updates)	171,449	
	2018-07 EAC-030 (Jul18 EAC Updates)		(82,597)
	2018-10 EAC-033 (FY19 Comp EAC Update)		(48,603)
	2018-12 EAC-036 (Dec18 EAC Updates)		5,474
	2019-01 BCR-086 (RTM Replan)	8,620	
	2019-01 EAC-037 (Jan19 EAC Updates)		4,320
	2019-02 EAC-038 (Feb19 EAC Updates)		(43,482)
	2019-03 EAC-039 (Mar19 EAC Updates)		(68,358)
3.01.01 Project Management Total		8,759,457	8,863,919
3.01.02 Project Support	2014-11 PMB Start	3,381,325	3,381,325
	2014-12 BCR-001 (FY15 Rate Update)	1,308	1,308
	2015-08 BCR-013 #3 (PMCS Support Scope)	40,510	40,510
	2015-12 BCR-021 #3 (FY16 Rate Update)	(11,713)	(11,713)
	2015-12 EAC-008 (Dec15 EAC Update)	-	165,154
	2016-08 BCR-034 #4 (PM new scope for PMCS)	161,450	161,450
	2016-11 EAC-014 (FY17 Comp EAC Update)		159,507
	2017-01 BCR-044 (January 2017 FY17 Rate Update)	(52,671)	
	2017-08 BCR-061 #2 (Scope Change for FY18 PMCS Support)	189,603	
	2017-10 EAC-021a (FY18 Comp EAC)		36,543
	2017-11 BCR-067 (FY18 Rate Updates)	1,154	
	2018-03 EAC-025 (Mar18 EAC Updates)		13,440
	2018-04 BCR-075 (Standing Army Scope Updates)	62,584	

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3.01.02 Project Support	2018-07 EAC-030 (Jul18 EAC Updates)		91,739
	2018-10 BCR-083 FY19 Rate Update	11,310	
	2018-10 EAC-033 (FY19 Comp EAC Update)		24,270
	2018-12 EAC-036 (Dec18 EAC Updates)		24,293
	2019-01 BCR-086 (RTM Replan)	24,919	
	2019-01 BCR-087 (Jan19 Baseline Updates)	179,757	
	2019-01 EAC-037 (Jan19 EAC Updates)		626
3.01.02 Project Support Total		3,989,536	4,088,453
3.01.03 Performance Safety & Assurance	2014-11 PMB Start	2,394,162	2,394,162
	2014-12 BCR-001 (FY15 Rate Update)	3,828	3,828
	2015-12 BCR-021 #3 (FY16 Rate Update)	(76,416)	(76,416)
	2016-10 BCR-039 (LSST Camera Re-org)	123,471	123,471
	2016-11 EAC-014 (FY17 Comp EAC Update)		(358,869)
	2017-01 BCR-044 (January 2017 FY17 Rate Update)	(47,815)	
	2017-10 EAC-021a (FY18 Comp EAC)		(151,799)
	2017-11 BCR-067 (FY18 Rate Updates)	18,328	
	2018-03 EAC-025 (Mar18 EAC Updates)		(11,817)
	2018-04 BCR-075 (Standing Army Scope Updates)	47,481	
	2018-07 EAC-030 (Jul18 EAC Updates)		(44,428)
	2018-10 BCR-083 FY19 Rate Update	4,411	
	2018-10 EAC-033 (FY19 Comp EAC Update)		(31,643)
	2018-12 EAC-036 (Dec18 EAC Updates)		8,309
	2019-01 BCR-086 (RTM Replan)	8,678	
	2019-01 EAC-037 (Jan19 EAC Updates)		369
	2019-02 EAC-038 (Feb19 EAC Updates)		(57,664)
3.01.03 Performance Safety & Assurance Total		2,476,127	1,797,502
3.02.01 Systems Engineering	2014-11 PMB Start	7,239,557	7,239,557
	2014-12 BCR-001 (FY15 Rate Update)	(32,707)	(32,707)
	2015-12 BCR-021 #1,#2 (FY16 resource conversion)	(4,248)	(4,248)
	2015-12 BCR-021 #3 (FY16 Rate Update)	76,100	76,100
	2016-04 BCR-028 #1 (New Scope, Contamination coord/MTF support)	188,149	188,149
	2016-10 BCR-039 (LSST Camera Re-org)	53,315	53,315
	2016-11 EAC-014 (FY17 Comp EAC Update)		164,840
	2017-01 BCR-044 (January 2017 FY17 Rate Update)	(45,591)	
	2017-04 EAC-017 (April 2017 Updates)		(29,224)
	2017-08 BCR-061 #1 (Contamination coordination and MTF support for FY18)	84,381	84,381
	2017-09 BCR-064 (PM and Sub-System CAM Re-Org)	82,232	82,232
	2017-09 EAC-020 (Adj Post BCR-064, PM and Sub-System CAM Re-Org)		(107,993)
	2017-10 EAC-021a (FY18 Comp EAC)		(14,764)
	2017-11 BCR-067 (FY18 Rate Updates)	37,864	

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	2018-02 EAC-024 (Feb18 EAC Updates)		(109,405)
	2018-03 EAC-025 (Mar18 EAC Updates)		(6,506)
	2018-04 BCR-075 (Standing Army Scope Updates)	84,425	
	2018-10 BCR-083 FY19 Rate Update	12,624	
	2018-10 EAC-033 (FY19 Comp EAC Update)		(29,727)
	2018-12 EAC-036 (Dec18 EAC Updates)		(15,346)
	2019-01 BCR-086 (RTM Replan)	(15,233)	
	2019-01 BCR-087 (Jan19 Baseline Updates)	69,363	
	2019-01 EAC-037 (Jan19 EAC Updates)		1,391
3.02.01 Systems Engineering Total		7,830,231	7,540,046
3.02.02 System Integration & Analysis	2014-11 PMB Start	1,411,122	1,411,122
	2014-12 BCR-001 (FY15 Rate Update)	(6,405)	(6,405)
	2015-02 BCR-006 #1 (Replan for work sequencing/resource allocation)	1,038	1,038
	2015-02 BCR-006 #2 (L1_L2 award update for phase 2)	1,367	1,367
	2015-06 BCR-011 #1 (L3 Assembly Award)	64	64
	2015-12 BCR-021 #3 (FY16 Rate Update)	(10,407)	(10,407)
	2016-02 BCR-023 #6 (Feb15 I&T Replan)	2,931	2,931
	2016-02 BCR-024 #1 (Feb16 Planning Packages Update)	(11)	(11)
	2016-03 BCR-026 #4 (Mar16 Cryostat IRR Fix)	39	39
	2016-04 BCR-028 #5 (Award Update)	(31)	(31)
	2016-04 BCR-028 #6 (New Scope, Addn'l Structural/Thermal Analysis)	75,786	75,786
	2016-04 BCR-028 #7 (Planning Package Updates)	540	540
	2016-05 BCR-029 #2 (New Scope, CCS Integration Gantry)	784	784
	2016-07 BCR-031 #4 (Planning Package Updates)	326	326
	2016-09 BCR-036 #4 (Shutter FDR Replan)	(52)	(52)
	2016-10 BCR-039 (LSST Camera Re-org)	(37,925)	(37,925)
	2016-10 BCR-040 #5 (Planning Package Updates)	59	59
	2016-11 BCR-041 #3 (Planning Package Updates)	415	
	2016-11 EAC-014 (FY17 Comp EAC Update)		54,176
	2016-12 BCR-043 #2 (Planning Package Updates)	(102)	
	2017-01 BCR-044 (January 2017 FY17 Rate Update)	(8,974)	
	2017-02 BCR-047 #3 (Feb17, Planning Package Updates)	97	
	2017-02 BCR-048 (February 2017 Cryostat Refrigeration Replan)	19	
	2017-04 BCR-051 #1 (Integrated Thermal Analysis support of Refrig requirements)	35,581	35,581
	2017-05 BCR-054 #3 (Planning Package Updates)	(15)	
	2017-06 BCR-056 #1 (Camera Housing Award and Scope Update)	(5)	
	2017-06 BCR-057 #2 (Planning Package Updates)	(0)	
	2017-07 BCR-059 #3 (Planning Package Updates)	333	
	2017-08 BCR-061 #5 (Planning Package Updates)	98	
	2017-10 BCR-066 #4 (Planning Package Updates)	153	

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	2017-10 EAC-021a (FY18 Comp EAC)		(484)
	2017-11 BCR-067 (FY18 Rate Updates)	5,917	
	2017-11 BCR-068 #3 (Cryostat Replan and Award Updates)	296	
	2017-11 BCR-068 #4 (Planning Package Updates)	0	
	2017-12 BCR-070 #5 (Planning Package Updates)	29	
	2018-01 BCR-071 #2 (Corner Raft Rephase)	65	
	2018-01 BCR-071 #3 (Planning Package Updates)	459	
	2018-02 BCR-072 #5 (Planning Package Updates)	37	
	2018-02 EAC-024 (Feb18 EAC Updates)		(52,753)
	2018-04 BCR-075 (Standing Army Scope Updates)	209	
	2018-05 BCR-077 #3 (Planning Package Updates)	2,395	
	2018-06 BCR-079 (Planning Package Updates)	99	
	2018-10 BCR-084 #5 (Planning Package Updates)	19	
	2018-10 EAC-033 (FY19 Comp EAC Update)		10,407
	2019-03 BCR-088 #3 (Planning Package and P6 fixes)	1,029	
3.02.02 System Integration & Analysis Total		1,477,380	1,486,153
3.03.01 Science Sensors Integration & Management	2014-11 PMB Start	2,539,326	2,539,326
	2015-11 BCR-020 #3 (Science Sensor/Raft Updates)	(119,951)	(119,951)
	2016-09 EAC-013 (FY17 Comp EAC Updates-Wahl)		(205,452)
	2017-01 BCR-044 (January 2017 FY17 Rate Update)	-	
	2017-10 EAC-021a (FY18 Comp EAC)		172,902
	2018-07 EAC-030 (Jul18 EAC Updates)		(92,553)
	2018-10 EAC-033 (FY19 Comp EAC Update)		(12,669)
	2018-11 EAC-035 (Nov18 EAC Updates)		12,787
3.03.01 Science Sensors Integration & Management Total		2,419,375	2,294,390
3.03.02.01 Science Sensors Prototype & Development	2014-11 PMB Start	2,867,081	2,867,081
	2015-03 EAC-001 (Sensor Prototype, vendor update)	-	38,435
	2015-12 EAC-008 (Dec15 EAC Update)	-	44,683
	2017-01 BCR-044 (January 2017 FY17 Rate Update)	-	
	2017-10 EAC-021a (FY18 Comp EAC)		-
3.03.02.01 Science Sensors Prototype & Development Total		2,867,081	2,950,199
3.03.02.02 Science Sensors Procurement	2014-11 PMB Start	22,962,013	22,962,013
	2015-08 BCR-013 #4 (Sensor vendor update Scope)	(270,960)	(270,960)
	2015-11 BCR-020 #3 (Science Sensor/Raft Updates)	191,330	191,330
	2016-07 BCR-031 #1 (Sensor, Optics & Cryo Award/Contract Updates)	491,568	491,568
	2016-08 EAC-012 (Pending BCR, 3.03.02.02 Science Sensors Procurement)	-	3,800,000
	2016-10 BCR-040 #1 (Sensor CAM Scope, LCN-1675)	299,212	299,212
	2016-11 BCR-041 #1 (Sensor Replan)	2,022,087	
	2016-11 EAC-014 (FY17 Comp EAC Update)		(3,777,913)
	2017-01 BCR-044 (January 2017 FY17 Rate Update)	(10,895)	

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	2017-02 BCR-047 #2 (Feb17, Sensor V1 Award Update)	-	
	2017-03 BCR-049 #4 (Improved Flex Cables for ITL Science Rafts)	187,813	187,813
	2017-04 BCR-050 #2 (IN2P3 Contribution)	(576,626)	
	2017-04 BCR-052 (CCD ITL Long lead Material Supplement Yield Mitigation)	494,016	494,016
	2017-04 EAC-017 (April 2017 Updates)		1,706,960
	2017-06 BCR-057 #1 (E2v Sensor Replan)	(267,221)	
	2017-06 EAC-018 (June 2017 Updates)		139,268
	2017-07 BCR-059 #2 (E2v Letters of Credit)	36,991	36,991
	2017-10 BCR-065 (Science Sensor SLIN 3/CAM Support)	2,150,446	
	2017-10 BCR-066 #1 (Fall-Out Sensors from E2V)	21,438	
	2017-10 EAC-021a (FY18 Comp EAC)		12,406
	2017-11 BCR-067 (FY18 Rate Updates)	3,281	
	2017-12 BCR-070 #2 (IN2P3 (French Contribution) Update)	(214,670)	
	2017-12 EAC-022 (Dec17 EAC Updates)		8,704
	2018-04 EAC-026 (Apr18 EAC Updates)		81,117
	2018-10 BCR-084 #1 (IN2P3 (French Contribution) Update)	(259,688)	
	2018-10 EAC-033 (FY19 Comp EAC Update)		767,444
	2019-03 EAC-039 (Mar19 EAC Updates)		(8,036)
	2019-04 EAC-041 (Apr19 EAC Updates)		45
3.03.02.02 Science Sensors Procurement Total		27,260,138	27,121,979
3.03.02.03 Science Sensors Acceptance	2014-11 PMB Start	449,574	449,574
	2014-12 BCR-002 #5 (SR & Sensor Updates)	145	145
	2015-04 BCR-009 #3 (Apr-15 Baseline Updates)	2,044	2,044
	2015-08 BCR-013 #4 (Sensor vendor update Scope)	20,997	20,997
	2015-12 BCR-022 #1 (Dec15 Planning Package Update)	358	358
	2016-03 BCR-026 #5 (Mar16 Planning Package Update)	323	323
	2016-07 BCR-031 #1 (Sensor, Optics & Cryo Award/Contract Updates)	669	669
	2016-09 EAC-013 (FY17 Comp EAC Updates-Wahl)		(105,486)
	2016-11 BCR-041 #1 (Sensor Replan)	161,985	
	2016-11 EAC-014 (FY17 Comp EAC Update)		106,346
	2017-01 BCR-044 (January 2017 FY17 Rate Update)	-	
	2017-02 BCR-047 #2 (Feb17, Sensor V1 Award Update)	0	
	2017-10 EAC-021a (FY18 Comp EAC)		(67,765)
	2018-09 EAC-032 (Sep18 EAC Updates)		1,778
	2018-10 EAC-033 (FY19 Comp EAC Update)		13,952
	2018-11 EAC-035 (Nov18 EAC Updates)		1,276
3.03.02.03 Science Sensors Acceptance Total		636,095	424,212
3.03.03 Science Sensors Test Stands	2014-11 PMB Start	826,297	826,297
	2014-12 BCR-002 #5 (SR & Sensor Updates)	2,351	2,351
	2015-07 EAC-004 (Jul15 EAC Update)		94,758

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3.03.03 Science Sensors Test Stands	2015-12 EAC-008 (Dec15 EAC Update)	-	127,300
	2016-09 EAC-013 (FY17 Comp EAC Updates-Wahl)		(53,469)
	2017-01 BCR-044 (January 2017 FY17 Rate Update)	-	
	2017-10 EAC-021a (FY18 Comp EAC)		-
3.03.03 Science Sensors Test Stands Total		828,648	997,237
3.04.01.01 Science Raft System Integration & Management	2014-11 PMB Start	1,270,862	1,270,862
	2014-12 BCR-001 (FY15 Rate Update)	96	96
	2015-09 BCR-015 (September Admin Changes)	1,379,662	1,379,662
	2015-09 BCR-016 #4 (REB Replan/Scope)	484,348	484,348
	2015-11 BCR-020 #3 (Science Sensor/Raft Updates)	841,840	841,840
	2015-12 BCR-021 #3 (FY16 Rate Update)	4,018	4,018
	2016-04 EAC-010 (April 2016 Update)	-	(186,671)
	2016-05 EAC-011 (May 2016 Update)	-	186,671
	2016-09 EAC-013 (FY17 Comp EAC Updates-Wahl)		31,650
	2016-10 BCR-040 #2 (SR Scope Changes, LCN-1715)	84,483	84,483
	2016-10 Pending BCR Reversal (ref BCR-040 #2)		(101,380)
	2017-01 BCR-044 (January 2017 FY17 Rate Update)	(935)	
	2017-10 BCR-066 #3 (SR Sub-System Scientist/Deputy PM)	347,874	
	2017-10 EAC-021a (FY18 Comp EAC)		342,994
	2018-07 EAC-030 (Jul18 EAC Updates)		38,922
	2018-10 BCR-084 #3 (New scope for SR Scientist)	47,697	
	2018-10 EAC-033 (FY19 Comp EAC Update)		(71)
	2018-12 EAC-036 (Dec18 EAC Updates)		157,545
	2019-01 BCR-086 (RTM Replan)	238,489	
	2019-01 EAC-037 (Jan19 EAC Updates)		80,944
3.04.01.01 Science Raft System Integration & Management Total		4,698,433	4,615,913
3.04.01.02 Science Raft Tower Module (SRTM)	2014-11 PMB Start	2,231,683	2,231,683
	2014-12 BCR-002 #5 (SR & Sensor Updates)	(441)	(441)
	2015-09 BCR-016 #2 (Baseplate Update Vendor award / Scope)	62,318	62,318
	2016-03 BCR-026 #2 (Mar16 Science Raft Baseplate Update)	10,154	10,154
	2016-04 EAC-010 (April 2016 Update)	-	847,556
	2016-05 BCR-029 #3 (Baseplate AWARD Planning)	179,096	179,096
	2016-05 EAC-011 (May 2016 Update)	-	(847,556)
	2016-09 EAC-013 (FY17 Comp EAC Updates-Wahl)		733,092
	2016-11 BCR-041 #2 (New Scope/LCN-1731, Baseplate)	43,720	
	2016-12 BCR-041 #2 (New Scope/LCN-1731, Baseplate)		43,720
	2017-01 BCR-044 (January 2017 FY17 Rate Update)	-	
	2017-06 EAC-018 (June 2017 Updates)		687
	2017-10 EAC-021a (FY18 Comp EAC)		(3,267)
3.04.01.02 Science Raft Tower Module (SRTM) Total		2,526,531	3,257,042

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3.04.01.03 Science Raft Electronics	2014-11 PMB Start	1,459,292	1,459,292
	2014-12 BCR-002 #5 (SR & Sensor Updates)	12	12
	2015-02 BCR-006 #1 (Replan for work sequencing/resource allocation)	7,881	7,881
	2015-04 BCR-008 (Baseline Re-Plan (Buy-off) Correction)	92,752	92,752
	2015-09 BCR-016 #4 (REB Replan/Scope)	408,217	408,217
	2016-04 BCR-028 #4 (SR Elec New Scope)	383,463	383,463
	2016-09 EAC-013 (FY17 Comp EAC Updates-Wahl)		223,182
	2016-10 BCR-040 #2 (SR Scope Changes, LCN-1715)	49,800	49,800
	2016-10 Pending BCR Reversal (ref BCR-040 #2)		(50,726)
	2017-01 BCR-044 (January 2017 FY17 Rate Update)	1,340	
	2017-04 BCR-051 #3 (Add'l REB5 Boards and Refurbishment of REB Prod RGA Station)	67,035	67,035
	2017-04 EAC-017 (April 2017 Updates)		198,849
	2017-10 EAC-021a (FY18 Comp EAC)		56,847
	2017-11 BCR-067 (FY18 Rate Updates)	(23)	
	2018-09 EAC-032 (Sep18 EAC Updates)		10,367
	2018-10 EAC-034 (Oct18 EAC Updates, Part 2)		3,272
3.04.01.03 Science Raft Electronics Total		2,469,770	2,910,244
3.04.01.04 Science Raft Optimization And Readout	2014-11 PMB Start	1,128,135	1,128,135
	2015-02 BCR-006 #1 (Replan for work sequencing/resource allocation)	5,891	5,891
	2016-04 EAC-010 (April 2016 Update)	-	(184,069)
	2016-05 EAC-011 (May 2016 Update)	-	184,069
	2016-09 EAC-013 (FY17 Comp EAC Updates-Wahl)		(272,560)
	2017-01 BCR-044 (January 2017 FY17 Rate Update)	-	
	2017-03 EAC-016 (March 2017 Updates)		8,981
	2017-10 EAC-021a (FY18 Comp EAC)		-
3.04.01.04 Science Raft Optimization And Readout (ROAR) Total		1,134,026	870,447
3.04.01.05 Science Raft Test Stands (Dev & Commissioning)	2014-11 PMB Start	1,473,482	1,473,482
	2014-12 BCR-002 #4 (CCS Test Stand Update)	(471)	(471)
	2015-02 BCR-006 #1 (Replan for work sequencing/resource allocation)	882	882
	2015-11 BCR-020 #3 (Science Sensor/Raft Updates)	323,488	323,488
	2016-09 EAC-013 (FY17 Comp EAC Updates-Wahl)		318,263
	2017-01 BCR-044 (January 2017 FY17 Rate Update)	-	
	2017-10 EAC-021a (FY18 Comp EAC)		(4,030)
	2018-04 EAC-027 (Apr18 EAC Updates)		6,020
	2018-10 EAC-033 (FY19 Comp EAC Update)		(6,020)
3.04.01.05 Science Raft Test Stands (Dev & Commissioning) Total		1,797,381	2,111,614
3.04.01.06 Science Raft Production Assembly and	2014-11 PMB Start	2,491,127	2,491,127
	2015-02 BCR-006 #1 (Replan for work sequencing/resource allocation)	(753)	(753)
	2015-10 BCR-018 #1 (Science Raft Material)	(1,094,658)	(1,094,658)
	2015-11 BCR-020 #3 (Science Sensor/Raft Updates)	1,701,073	1,701,073

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3.04.01.06 Science Raft Production Assembly and Test	2016-03 BCR-026 #1 (Mar16 Science Raft Integration Replan)	7,198	7,198
	2016-03 BCR-026 #3 (Mar16 Science Raft ETU#1 Replan)	29	29
	2016-03 BCR-026 #5 (Mar16 Planning Package Update)	372	372
	2016-04 BCR-028 #7 (Planning Package Updates)	307	307
	2016-05 BCR-029 #4 (Planning Package Updates)	1,538	1,538
	2016-07 BCR-031 #4 (Planning Package Updates)	7,125	7,125
	2016-09 EAC-013 (FY17 Comp EAC Updates-Wahl)		(393,956)
	2016-10 BCR-040 #2 (SR Scope Changes, LCN-1715)	157,966	157,966
	2016-10 Pending BCR Reversal (ref BCR-040 #2)		(126,793)
	2016-11 BCR-041 #1 (Sensor Replan)	14,670	
	2017-01 BCR-044 (January 2017 FY17 Rate Update)	-	
	2017-02 BCR-047 #2 (Feb17, Sensor V1 Award Update)	0	
	2017-03 BCR-049 #1 (Science Raft Enhanced Shipping)	223,579	223,579
	2017-06 BCR-057 #1 (E2v Sensor Replan)	962	
	2017-10 EAC-021a (FY18 Comp EAC)		(438,596)
	2017-12 EAC-022 (Dec17 EAC Updates)		(1,246)
	2018-08 EAC-031 (Aug18 EAC Updates)		(176,651)
	2018-10 BCR-084 #2 (Reconstruction of Science Rafts)	158,638	
	2018-10 EAC-033 (FY19 Comp EAC Update)		45,277
	2018-12 EAC-036 (Dec18 EAC Updates)		451,070
	2019-01 BCR-086 (RTM Replan)	369,550	
	2019-01 EAC-037 (Jan19 EAC Updates)		(24,812)
3.04.01.06 Science Raft Production Assembly and Test Total		4,038,723	2,829,197
3.04.01.07 Assembly and Test Facility	2014-11 PMB Start	2,201,521	2,201,521
	2014-12 BCR-002 #5 (SR & Sensor Updates)	73	73
	2015-02 BCR-006 #1 (Replan for work sequencing/resource allocation)	110	110
	2015-09 BCR-014 (September Admin Changes)	(1,379,662)	(1,379,662)
	2015-11 BCR-020 #3 (Science Sensor/Raft Updates)	19,096	19,096
	2016-03 BCR-026 #5 (Mar16 Planning Package Update)	969	969
	2016-03 BCR-026 #6 (Mar16 Administrative/Correction)	267	267
	2016-09 EAC-013 (FY17 Comp EAC Updates-Wahl)		60,221
	2017-01 BCR-044 (January 2017 FY17 Rate Update)	-	
	2017-10 EAC-021a (FY18 Comp EAC)		(1,992)
	2018-10 EAC-033 (FY19 Comp EAC Update)		-
3.04.01.07 Assembly and Test Facility Total		842,375	900,604
3.04.02.01 Corner Raft System Integration and M	2014-11 PMB Start	1,161,445	1,161,445
	2014-12 BCR-001 (FY15 Rate Update)	701	701
	2016-08 BCR-034 #1 (CR New scope for TS-7 & TS-8)	33,086	33,086
	2016-10 BCR-039 (LSST Camera Re-org)	(2,292)	(2,292)
	2016-11 EAC-014 (FY17 Comp EAC Update)		(52,726)

LSST Camera CAVT (Control Account Value Trail) by CA

Updated through May 2019

Significant (EAC)	YES
WBS L2,L3	(All)

Control Account	Month / Change	Sum of BAC	Sum of EAC
3.04.02.01 Corner Raft System Integration and Management	2017-01 BCR-044 (January 2017 FY17 Rate Update)	(492)	
	2017-09 BCR-064 (PM and Sub-System CAM Re-Org)	(9,223)	(9,223)
	2017-09 EAC-020 (Adj Post BCR-064, PM and Sub-System CAM Re-Org)		950
	2017-10 EAC-021a (FY18 Comp EAC)		(22,425)
	2017-11 BCR-067 (FY18 Rate Updates)	233	
	2018-09 EAC-032 (Sep18 EAC Updates)		36,232
	2018-10 EAC-033 (FY19 Comp EAC Update)		54,284
	2019-03 EAC-040 (Mar19 EAC Updates #2)		11,500
	2019-04 EAC-041 (Apr19 EAC Updates)		7,511
	2019-05 EAC-042 (May19 EAC Updates)		8,484
3.04.02.01 Corner Raft System Integration and Management Total		1,183,459	1,227,527
3.04.02.02 Corner Raft Tower Module (CRTM)	2014-11 PMB Start	748,790	748,790
	2014-12 BCR-001 (FY15 Rate Update)	(4,719)	(4,719)
	2014-12 BCR-002 #1 (CR Elect Scope)	119	119
	2015-09 BCR-016 #1 (Corner Raft Cold Test Stand Scope)	298,078	298,078
	2015-12 BCR-021 #3 (FY16 Rate Update)	(4,089)	(4,089)
	2015-12 BCR-022 #1 (Dec15 Planning Package Update)	2,221	2,221
	2016-04 BCR-028 #2 (New Scope, Cold Test-Stand Capability)	86,825	86,825
	2016-08 BCR-034 #1 (CR New scope for TS-7 & TS-8)	250,471	250,471
	2016-10 BCR-039 (LSST Camera Re-org)	(23,149)	(23,149)
	2016-11 EAC-014 (FY17 Comp EAC Update)		(73,270)
	2017-01 BCR-044 (January 2017 FY17 Rate Update)	3,188	
	2017-10 EAC-021a (FY18 Comp EAC)		172,065
	2017-11 BCR-067 (FY18 Rate Updates)	1,576	
	2018-01 BCR-071 #2 (Corner Raft Rephase)	1,014	
	2018-10 BCR-083 FY19 Rate Update	13	
	2018-10 EAC-033 (FY19 Comp EAC Update)		(3,084)
3.04.02.02 Corner Raft Tower Module (CRTM) Total		1,360,339	1,450,259
3.04.02.03 Corner Raft Sensor Assembly	2014-11 PMB Start	1,983,760	1,983,760
	2014-12 BCR-001 (FY15 Rate Update)	(6,027)	(6,027)
	2015-02 BCR-005 (Wavefront Sensor Update)	980,464	980,464
	2015-04 BCR-009 #3 (Apr-15 Baseline Updates)	148	148
	2015-08 BCR-013 #4 (Sensor vendor update Scope)	7,165	7,165
	2015-09 BCR-016 #1 (Corner Raft Cold Test Stand Scope)	944	944
	2015-10 BCR-017 #2 (Vendor Award Update)	1,698	1,698
	2015-12 BCR-021 #3 (FY16 Rate Update)	(8,664)	(8,664)
	2015-12 BCR-022 #1 (Dec15 Planning Package Update)	351	351
	2015-12 BCR-022 #2 (Dec15 Wavefront Sensor Update)	157	157
	2016-02 BCR-024 #1 (Feb16 Planning Packages Update)	25	25
	2016-07 BCR-031 #4 (Planning Package Updates)	167	167

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Significant (EAC)	YES
WBS L2,L3	(All)

Control Account	Month / Change	Sum of BAC	Sum of EAC
3.04.02.03 Corner Raft Sensor Assembly	2016-08 BCR-034 #2 (Award updates)	(9,940)	(9,940)
	2016-09 BCR-036 #1 (Award of CR Baseplate Hardware)	25,051	25,051
	2016-10 BCR-039 (LSST Camera Re-org)	(29,802)	(29,802)
	2016-11 EAC-014 (FY17 Comp EAC Update)		(3,047)
	2017-01 BCR-044 (January 2017 FY17 Rate Update)	2,363	
	2017-08 BCR-061 #5 (Planning Package Updates)	3,134	
	2017-10 EAC-021a (FY18 Comp EAC)		(120,906)
	2017-11 BCR-067 (FY18 Rate Updates)	3,434	
	2018-07 EAC-030 (Jul18 EAC Updates)		(48,501)
	2018-10 EAC-033 (FY19 Comp EAC Update)		(68,720)
	2018-10 EAC-034 (Oct18 EAC Updates, Part 2)		1,693
	2018-12 EAC-036 (Dec18 EAC Updates)		21
	2019-01 EAC-037 (Jan19 EAC Updates)		24,476
3.04.02.03 Corner Raft Sensor Assembly Total		2,954,427	2,730,511
3.04.02.04 Corner Raft Electronics	2014-11 PMB Start	1,116,321	1,116,321
	2014-12 BCR-001 (FY15 Rate Update)	(2,216)	(2,216)
	2014-12 BCR-002 #1 (CR Elect Scope)	268,584	268,584
	2015-09 BCR-016 #1 (Corner Raft Cold Test Stand Scope)	1,701	1,701
	2015-12 BCR-021 #3 (FY16 Rate Update)	26,075	26,075
	2016-03 BCR-026 #5 (Mar16 Planning Package Update)	267	267
	2016-08 BCR-034 #5 (CR new scope for electronics firmware)	26,540	26,540
	2016-11 EAC-014 (FY17 Comp EAC Update)		17,463
	2017-01 BCR-044 (January 2017 FY17 Rate Update)	6,024	
	2017-10 EAC-021a (FY18 Comp EAC)		(63,969)
	2017-11 BCR-067 (FY18 Rate Updates)	30	
	2018-06 EAC-029 (Jun18 EAC Updates)		21,877
	2018-10 EAC-033 (FY19 Comp EAC Update)		(1,066)
	2018-10 EAC-034 (Oct18 EAC Updates, Part 2)		1,322
3.04.02.04 Corner Raft Electronics Total		1,443,325	1,412,898
3.04.02.05 Corner Raft Assembly and Test Station	2014-11 PMB Start	122,578	122,578
	2014-12 BCR-001 (FY15 Rate Update)	(5)	(5)
	2016-11 EAC-014 (FY17 Comp EAC Update)		4,530
	2017-01 BCR-044 (January 2017 FY17 Rate Update)	-	
	2017-10 EAC-021a (FY18 Comp EAC)		-
3.04.02.05 Corner Raft Assembly and Test Station Total		122,573	127,103
3.05.01 Optics Integration & Management	2014-11 PMB Start	1,876,652	1,876,652
	2014-12 BCR-001 (FY15 Rate Update)	(14,559)	(14,559)
	2014-12 BCR-002 #2 (Optics Mgmt resource correction)	223,556	223,556
	2016-04 BCR-028 #5 (Award Update)	42,368	42,368
	2016-05 BCR-029 #4 (Planning Package Updates)	87	87

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Significant (EAC) WBS L2,L3	YES (All)		
Control Account	Month / Change	Sum of BAC	Sum of EAC
3.05.01 Optics Integration & Management	2016-09 BCR-036 #3 (Award of BBAR Coating and new scope per LCN-1680)	115,670	115,670
	2016-11 EAC-014 (FY17 Comp EAC Update)		77,143
	2017-01 BCR-044 (January 2017 FY17 Rate Update)	-	
	2017-10 EAC-021a (FY18 Comp EAC)		(2,938)
	2018-07 EAC-030 (Jul18 EAC Updates)		(48,250)
	2018-12 EAC-036 (Dec18 EAC Updates)		(10,003)
	2019-01 BCR-087 (Jan19 Baseline Updates)	64,646	
3.05.01 Optics Integration & Management Total		2,308,419	2,259,726
3.05.02 Filters	2014-11 PMB Start	6,269,219	6,269,219
	2014-12 BCR-001 (FY15 Rate Update)	42,621	42,621
	2014-12 BCR-002 #2 (Optics Mgmt resource correction)	3,527	3,527
	2015-02 BCR-006 #2 (L1_L2 award update for phase 2)	1,368	1,368
	2015-06 EAC-003 (Pending BCR, June 2015)	-	341,571
	2015-10 BCR-019 #1 (Optics Labor Scope)	101,181	101,181
	2015-10 EAC-007 (Pending BCR, Reversal from June 2015)	-	(341,571)
	2015-12 BCR-022 #1 (Dec15 Planning Package Update)	217	217
	2016-04 BCR-028 #5 (Award Update)	91,035	91,035
	2016-04 EAC-010 (April 2016 Update)	-	(135,145)
	2016-07 BCR-031 #4 (Planning Package Updates)	(884)	(884)
	2016-11 EAC-014 (FY17 Comp EAC Update)		185,969
	2017-01 BCR-044 (January 2017 FY17 Rate Update)	-	
	2017-02 BCR-047 #1 (Feb17, Optics Vendor Contract Mod)	626	
	2017-02 BCR-047 #3 (Feb17, Planning Package Updates)	4,803	
	2017-03 BCR-049 #2 (Award update for Filter Frames)	114,974	
	2017-03 EAC-016 (March 2017 Updates)		53,224
	2017-05 BCR-054 #1 (Optics Scope Increases)	81,842	
	2017-08 BCR-061 #5 (Planning Package Updates)	1,604	
	2017-10 EAC-021a (FY18 Comp EAC)		98,301
	2018-02 BCR-072 #5 (Planning Package Updates)	2,842	
	2018-03 BCR-074 #1 (Planning Package Updates)	630	
	2018-05 BCR-077 #3 (Planning Package Updates)	1,463	
	2018-07 EAC-030 (Jul18 EAC Updates)		31,755
	2018-10 BCR-084 #5 (Planning Package Updates)	463	
	2018-12 EAC-036 (Dec18 EAC Updates)		122,364
3.05.02 Filters Total		6,717,533	6,864,753
3.05.03 L1-L2 Assembly	2014-11 PMB Start	14,314,542	14,314,542
	2014-12 BCR-001 (FY15 Rate Update)	(35,685)	(35,685)
	2014-12 BCR-002 #2 (Optics Mgmt resource correction)	1,881	1,881
	2014-12 BCR-002 #3 (Optics L1_L2 Design Scope)	74,487	74,487
	2015-02 BCR-006 #2 (L1_L2 award update for phase 2)	48	48

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Significant (EAC)	YES
WBS L2,L3	(All)

Control Account	Month / Change	Sum of BAC	Sum of EAC
3.05.03 L1-L2 Assembly	2015-06 EAC-003 (Pending BCR for Ball, June 2015)	-	398,160
	2015-06 EAC-003 (Pending BCR, June 2015)	-	371,043
	2015-09 BCR-016 #5 (Ball Contract Update/Scope)	419,601	419,601
	2015-09 EAC-006 Ball (Pending BCR, Reversal form June 2015)	-	(398,160)
	2015-10 BCR-019 #1 (Optics Labor Scope)	516,812	516,812
	2015-10 EAC-007 (Pending BCR, Reversal from June 2015)	-	(371,043)
	2015-12 BCR-021 #3 (FY16 Rate Update)	(990)	(990)
	2016-06 BCR-030 #1 (L1_L2 Replan)	160	160
	2016-09 BCR-036 #3 (Award of BBAR Coating and new scope per LCN-1680)	139,034	139,034
	2016-10 BCR-039 (LSST Camera Re-org)	(2,620)	(2,620)
	2016-11 EAC-014 (FY17 Comp EAC Update)		149,444
	2016-12 BCR-043 #1 (L1_L2 Scope Update, LCN-1720)	74,066	74,066
	2017-01 BCR-044 (January 2017 FY17 Rate Update)	(654)	
	2017-02 BCR-047 #3 (Feb17, Planning Package Updates)	69,990	
	2017-05 Pending BCR Reversal (ref BCR-043 #1)		(74,102)
	2017-08 BCR-060 #1 (Optics L2 MS Update)	1,306	
	2017-09 BCR-063 (Sep17 L1_L2 Scope Update)	41,730	41,730
	2017-10 BCR-066 #4 (Planning Package Updates)	0	
	2017-10 EAC-021a (FY18 Comp EAC)		(4,572)
	2017-12 BCR-070 #3 (L1_L2 Lens Shipping Change)	82,950	82,950
	2017-12 BCR-070 #5 (Planning Package Updates)	2,991	
	2018-12 EAC-036 (Dec18 EAC Updates)		(160,526)
3.05.03 L1-L2 Assembly Total		15,699,651	15,536,262
3.05.04 L3 Assembly	2014-11 PMB Start	3,948,744	3,948,744
	2014-12 BCR-001 (FY15 Rate Update)	87,296	87,296
	2015-02 BCR-006 #1 (Replan for work sequencing/resource allocation)	424	424
	2015-06 BCR-011 #1 (L3 Assembly Award)	(1,649,505)	(1,649,505)
	2015-06 EAC-003 (Pending BCR, June 2015)	-	299,756
	2015-10 BCR-019 #1 (Optics Labor Scope)	931,854	931,854
	2015-10 EAC-007 (Pending BCR, Reversal from June 2015)	-	(299,756)
	2015-11 BCR-020 #2 (BBAR coating contract with TSESO)	22,524	22,524
	2015-12 BCR-021 #3 (FY16 Rate Update)	(391)	(391)
	2015-12 BCR-022 #1 (Dec15 Planning Package Update)	813	813
	2016-04 BCR-028 #5 (Award Update)	9,391	9,391
	2016-09 BCR-036 #3 (Award of BBAR Coating and new scope per LCN-1680)	(92,904)	(92,904)
	2016-11 EAC-014 (FY17 Comp EAC Update)		106,125
	2017-01 BCR-044 (January 2017 FY17 Rate Update)	(200)	
	2017-02 BCR-047 #3 (Feb17, Planning Package Updates)	(58,450)	
	2017-05 BCR-054 #1 (Optics Scope Increases)	125,544	
	2017-10 EAC-021a (FY18 Comp EAC)		15,550

LSST Camera CAVT (Control Account Value Trail) by CA

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Significant (EAC)	YES
WBS L2,L3	(All)

Control Account	Month / Change	Sum of BAC	Sum of EAC
3.05.04 L3 Assembly	2017-11 BCR-067 (FY18 Rate Updates)	23	
	2017-12 BCR-070 #5 (Planning Package Updates)	2,366	
	2018-10 BCR-083 FY19 Rate Update	1,248	
	2018-12 EAC-036 (Dec18 EAC Updates)		37,214
	2019-01 BCR-087 (Jan19 Baseline Updates)	39,816	
3.05.04 L3 Assembly Total		3,368,591	3,417,134
3.06.01.01 Camera Body Integration & Management	2014-11 PMB Start	312,114	312,114
	2014-12 BCR-001 (FY15 Rate Update)	(1,025)	(1,025)
	2015-12 BCR-021 #3 (FY16 Rate Update)	(2,877)	(2,877)
	2016-10 BCR-039 (LSST Camera Re-org)	6,309	6,309
	2016-11 EAC-014 (FY17 Comp EAC Update)		10,562
	2017-01 BCR-044 (January 2017 FY17 Rate Update)	(2,368)	
	2017-09 BCR-064 (PM and Sub-System CAM Re-Org)	61,049	61,049
	2017-09 EAC-020 (Adj Post BCR-064, PM and Sub-System CAM Re-Org)		(896)
	2017-11 BCR-067 (FY18 Rate Updates)	(362)	
	2017-11 EAC-021c (FY18 Comp EAC)		23,545
	2018-10 BCR-083 FY19 Rate Update	127	
	2018-10 EAC-033 (FY19 Comp EAC Update)		34,182
3.06.01.01 Camera Body Integration & Management Total		372,966	442,961
3.06.01.02 Camera Body Development	2014-11 PMB Start	1,647,963	1,647,963
	2014-12 BCR-001 (FY15 Rate Update)	(20,223)	(20,223)
	2015-02 BCR-006 #1 (Replan for work sequencing/resource allocation)	5,912	5,912
	2015-12 BCR-021 #1,#2 (FY16 resource conversion)	(12,811)	(12,811)
	2015-12 BCR-021 #3 (FY16 Rate Update)	(18,488)	(18,488)
	2016-05 BCR-029 #1 (New Scope, Filter 3mm move)	19,333	19,333
	2016-05 BCR-029 #4 (Planning Package Updates)	(497)	(497)
	2016-07 BCR-031 #2 (Addition of 2nd Back Flange Scope)	258,921	258,921
	2016-10 BCR-039 (LSST Camera Re-org)	(27,977)	(27,977)
	2016-10 BCR-040 #3 (CBM testing scope per LCN-1681)	66,946	66,946
	2016-11 BCR-041 #3 (Planning Package Updates)	0	
	2016-11 EAC-014 (FY17 Comp EAC Update)		186,926
	2017-01 BCR-044 (January 2017 FY17 Rate Update)	16,648	
	2017-02 BCR-047 #3 (Feb17, Planning Package Updates)	6,475	
	2017-05 BCR-054 #2 (AWARD of Back Flange Contract)	36,231	
	2017-06 BCR-056 #1 (Camera Housing Award and Scope Update)	35,194	35,194
	2017-11 BCR-067 (FY18 Rate Updates)	7,790	
	2017-11 EAC-021c (FY18 Comp EAC)		251,413
	2018-02 EAC-024 (Feb18 EAC Updates)		(79,083)
	2018-05 EAC-028 (May18 EAC Updates)		164,673
	2018-10 BCR-083 FY19 Rate Update	280	

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Significant (EAC)	YES
WBS L2,L3	(All)

Control Account	Month / Change	Sum of BAC	Sum of EAC
	2018-10 EAC-033 (FY19 Comp EAC Update)		90,726
	2019-02 EAC-038 (Feb19 EAC Updates)		37,837
	2019-04 EAC-041 (Apr19 EAC Updates)		198,504
3.06.01.02 Camera Body Development Total		2,021,698	2,805,271
3.06.02.01 Shutter Integration & Management	2014-11 PMB Start	161,435	161,435
	2014-12 BCR-001 (FY15 Rate Update)	(1,267)	(1,267)
	2015-12 BCR-021 #3 (FY16 Rate Update)	(3,652)	(3,652)
	2016-10 BCR-039 (LSST Camera Re-org)	8,759	8,759
	2016-11 EAC-014 (FY17 Comp EAC Update)		(7,584)
	2017-01 BCR-044 (January 2017 FY17 Rate Update)	(3,290)	
	2017-09 BCR-064 (PM and Sub-System CAM Re-Org)	37,360	37,360
	2017-09 EAC-020 (Adj Post BCR-064, PM and Sub-System CAM Re-Org)		(1,818)
	2017-11 BCR-067 (FY18 Rate Updates)	(362)	
	2017-11 EAC-021c (FY18 Comp EAC)		(31,039)
	2018-10 BCR-083 FY19 Rate Update	127	
	2018-10 EAC-033 (FY19 Comp EAC Update)		8,583
3.06.02.01 Shutter Integration & Management Total		199,110	170,776
3.06.02.02 Shutter Development	2014-11 PMB Start	2,480,069	2,480,069
	2014-12 BCR-001 (FY15 Rate Update)	(30,749)	(30,749)
	2015-02 BCR-006 #1 (Replan for work sequencing/resource allocation)	16,999	16,999
	2015-10 BCR-017 #2 (Vendor Award Update)	40,543	40,543
	2015-11 BCR-020 #1 (Shutter ETU Development)	216,007	216,007
	2015-12 BCR-021 #1,#2 (FY16 resource conversion)	(16,400)	(16,400)
	2015-12 BCR-021 #3 (FY16 Rate Update)	(28,778)	(28,778)
	2016-02 BCR-023 #6 (Feb15 I&T Replan)	(1,479)	(1,479)
	2016-05 BCR-029 #1 (New Scope, Filter 3mm move)	75,271	75,271
	2016-05 BCR-029 #4 (Planning Package Updates)	(1,818)	(1,818)
	2016-07 BCR-031 #4 (Planning Package Updates)	2,781	2,781
	2016-09 BCR-036 #4 (Shutter FDR Replan)	(4,714)	(4,714)
	2016-10 BCR-039 (LSST Camera Re-org)	(54,658)	(54,658)
	2016-11 EAC-014 (FY17 Comp EAC Update)		358,306
	2017-01 BCR-044 (January 2017 FY17 Rate Update)	12,321	
	2017-02 BCR-047 #3 (Feb17, Planning Package Updates)	2,703	
	2017-05 BCR-054 #3 (Planning Package Updates)	3	
	2017-06 BCR-057 #2 (Planning Package Updates)	155	
	2017-10 BCR-066 #4 (Planning Package Updates)	778	
	2017-11 BCR-067 (FY18 Rate Updates)	8,358	
	2017-11 EAC-021c (FY18 Comp EAC)		222,979
	2018-02 BCR-072 #2 (Award of Shutter Blade Contract)	108,365	
	2018-02 BCR-072 #5 (Planning Package Updates)	2,145	

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Significant (EAC) WBS L2,L3	YES (All)		
Control Account	Month / Change	Sum of BAC	Sum of EAC
3.06.02.02 Shutter Development	2018-02 EAC-024 (Feb18 EAC Updates)		(116,305)
	2018-08 EAC-031 (Aug18 EAC Updates)		281,557
	2018-10 BCR-083 FY19 Rate Update	2,648	
	2018-10 EAC-033 (FY19 Comp EAC Update)		92,598
	2019-02 EAC-038 (Feb19 EAC Updates)		38,636
	2019-05 EAC-042 (May19 EAC Updates)		64,579
3.06.02.02 Shutter Development Total		2,830,551	3,635,424
3.06.04.01 Cryostat Integration & Management	2014-11 PMB Start	1,396,764	1,396,764
	2014-12 BCR-001 (FY15 Rate Update)	(4,016)	(4,016)
	2015-11 BCR-020 #4 (Cryostat Updates)	617,496	617,496
	2015-12 BCR-021 #3 (FY16 Rate Update)	(20,372)	(20,372)
	2016-10 BCR-039 (LSST Camera Re-org)	(13,630)	(13,630)
	2017-01 BCR-044 (January 2017 FY17 Rate Update)	(5,852)	
	2017-02 BCR-048 (February 2017 Cryostat Refrigeration Replan)	464,198	464,198
	2017-02 EAC-015 (February 2017 Updates)		205,079
	2017-09 BCR-064 (PM and Sub-System CAM Re-Org)	111,379	111,379
	2017-09 EAC-020 (Adj Post BCR-064, PM and Sub-System CAM Re-Org)		(106,378)
	2017-10 EAC-021b (FY18 Comp EAC, Level 2)		39,308
	2017-11 BCR-067 (FY18 Rate Updates)	5,650	
	2017-11 BCR-068 #3 (Cryostat Replan and Award Updates)	97,871	
	2017-12 EAC-022 (Dec17 EAC Updates)		(26,620)
	2018-03 EAC-025 (Mar18 EAC Updates)		106,049
	2018-04 BCR-075 (Standing Army Scope Updates)	46,909	
	2019-01 EAC-037 (Jan19 EAC Updates)		(139,769)
	2019-04 EAC-041 (Apr19 EAC Updates)		2,300
3.06.04.01 Cryostat Integration & Management Total		2,696,397	2,631,788
3.06.04.02 Cryostat Housing & Assembly	2014-11 PMB Start	962,429	962,429
	2014-12 BCR-001 (FY15 Rate Update)	(13,777)	(13,777)
	2015-04 BCR-009 #3 (Apr-15 Baseline Updates)	539	539
	2015-10 BCR-018 #2 (CRYO assy/alignment)	(276,696)	(276,696)
	2015-10 BCR-019 #3 (CRYO assy/alignment)	358,389	358,389
	2015-12 BCR-021 #1,#2 (FY16 resource conversion)	(9,117)	(9,117)
	2015-12 BCR-021 #3 (FY16 Rate Update)	(4,506)	(4,506)
	2015-12 BCR-022 #1 (Dec15 Planning Package Update)	752	752
	2016-03 BCR-026 #5 (Mar16 Planning Package Update)	875	875
	2016-04 BCR-028 #7 (Planning Package Updates)	2,022	2,022
	2016-07 BCR-031 #4 (Planning Package Updates)	405	405
	2016-08 BCR-034 #2 (Award updates)	73,965	73,965
	2016-09 BCR-036 #5 (Planning Package Updates)	232	232
	2016-10 BCR-040 #5 (Planning Package Updates)	458	458

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Significant (EAC) WBS L2,L3	YES (All)		
Control Account	Month / Change	Sum of BAC	Sum of EAC
3.06.04.02 Cryostat Housing & Assembly	2016-11 BCR-041 #3 (Planning Package Updates)	1,892	
	2017-01 BCR-044 (January 2017 FY17 Rate Update)	17,259	
	2017-03 EAC-016 (March 2017 Updates)		(50,113)
	2017-06 EAC-018 (June 2017 Updates)		346,749
	2017-10 EAC-021b (FY18 Comp EAC, Level 2)		151,106
	2017-11 BCR-067 (FY18 Rate Updates)	2,558	
	2017-11 BCR-068 #3 (Cryostat Replan and Award Updates)	(31,211)	
	2017-12 EAC-022 (Dec17 EAC Updates)		67,569
	2018-01 EAC-023 (Jan18 EAC Updates)		74,632
	2018-03 EAC-025 (Mar18 EAC Updates)		(10,790)
	2018-06 EAC-029 (Jun18 EAC Updates)		(97,189)
	2018-07 EAC-030 (Jul18 EAC Updates)		9,364
	2018-09 EAC-032 (Sep18 EAC Updates)		6,362
3.06.04.02 Cryostat Housing & Assembly Total		1,086,468	1,593,661
3.06.04.03 Cryo and Cold Plates	2014-11 PMB Start	1,394,191	1,394,191
	2014-12 BCR-001 (FY15 Rate Update)	(15,115)	(15,115)
	2015-01 BCR-004 #1 (Cryo/cold plates updates)	1,986	1,986
	2015-04 EAC-002 (redesign, less steps)	-	(115,790)
	2015-10 BCR-018 #2 (CRYO assy/alignment)	(40,256)	(40,256)
	2015-10 BCR-019 #3 (CRYO assy/alignment)	1,249	1,249
	2015-11 BCR-020 #4 (Cryostat Updates)	72,984	72,984
	2015-12 BCR-021 #1,#2 (FY16 resource conversion)	(12,495)	(12,495)
	2015-12 BCR-021 #3 (FY16 Rate Update)	(5,251)	(5,251)
	2016-11 BCR-041 #3 (Planning Package Updates)	(0)	
	2017-01 BCR-044 (January 2017 FY17 Rate Update)	18,823	
	2017-03 EAC-016 (March 2017 Updates)		130,435
	2017-06 EAC-018 (June 2017 Updates)		128,873
	2017-10 EAC-021b (FY18 Comp EAC, Level 2)		114,262
	2017-12 EAC-022 (Dec17 EAC Updates)		257,672
	2018-03 EAC-025 (Mar18 EAC Updates)		26,689
	2018-04 EAC-027 (Apr18 EAC Updates)		28,621
	2018-05 EAC-028 (May18 EAC Updates)		39,981
	2018-06 EAC-029 (Jun18 EAC Updates)		50,794
	2018-07 EAC-030 (Jul18 EAC Updates)		18,171
	2018-09 EAC-032 (Sep18 EAC Updates)		9,020
3.06.04.03 Cryo and Cold Plates Total		1,416,116	2,086,020
3.06.04.04 Grid Assembly	2014-11 PMB Start	1,597,899	1,597,899
	2014-12 BCR-001 (FY15 Rate Update)	(5,496)	(5,496)
	2015-01 BCR-004 #2 (Grid assy updates)	14,360	14,360
	2015-04 BCR-009 #1 (Cryostat Grid Procurement award)	340,653	340,653

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Significant (EAC)	YES
WBS L2,L3	(All)

Control Account	Month / Change	Sum of BAC	Sum of EAC
3.06.04.04 Grid Assembly	2015-10 BCR-017 #1 (Grid Contract Update)	53,499	53,499
	2015-10 BCR-018 #2 (CRYO assy/alignment)	(70,303)	(70,303)
	2015-12 BCR-021 #3 (FY16 Rate Update)	(17,657)	(17,657)
	2016-03 BCR-026 #5 (Mar16 Planning Package Update)	407	407
	2016-04 BCR-028 #7 (Planning Package Updates)	2,372	2,372
	2016-07 BCR-031 #1 (Sensor, Optics & Cryo Award/Contract Updates)	18,753	18,753
	2017-01 BCR-044 (January 2017 FY17 Rate Update)	6,323	
	2017-03 EAC-016 (March 2017 Updates)		41,290
	2017-06 EAC-018 (June 2017 Updates)		228,569
	2017-10 EAC-021b (FY18 Comp EAC, Level 2)		(15,347)
	2017-12 EAC-022 (Dec17 EAC Updates)		56,508
	2018-03 EAC-025 (Mar18 EAC Updates)		(12,392)
	2018-04 EAC-027 (Apr18 EAC Updates)		135
	2018-05 EAC-028 (May18 EAC Updates)		1,099
	2018-09 EAC-032 (Sep18 EAC Updates)		381
3.06.04.04 Grid Assembly Total		1,940,809	2,234,729
3.06.04.05 Cryostat Backend & Vacuum Systems	2014-11 PMB Start	1,126,271	1,126,271
	2014-12 BCR-001 (FY15 Rate Update)	(16,499)	(16,499)
	2015-02 BCR-006 #1 (Replan for work sequencing/resource allocation)	14,074	14,074
	2015-04 BCR-009 #3 (Apr-15 Baseline Updates)	7,807	7,807
	2015-11 BCR-020 #4 (Cryostat Updates)	2,616	2,616
	2015-12 BCR-021 #1,#2 (FY16 resource conversion)	(19,269)	(19,269)
	2015-12 BCR-021 #3 (FY16 Rate Update)	(9,461)	(9,461)
	2015-12 BCR-022 #1 (Dec15 Planning Package Update)	784	784
	2016-02 BCR-024 #1 (Feb16 Planning Packages Update)	405	405
	2016-03 BCR-026 #5 (Mar16 Planning Package Update)	1,869	1,869
	2016-04 BCR-028 #7 (Planning Package Updates)	2,448	2,448
	2016-10 BCR-039 (LSST Camera Re-org)	(9,507)	(9,507)
	2017-01 BCR-044 (January 2017 FY17 Rate Update)	21,393	
	2017-02 BCR-047 #3 (Feb17, Planning Package Updates)	292	
	2017-03 EAC-016 (March 2017 Updates)		(73,001)
	2017-06 BCR-057 #2 (Planning Package Updates)	143	
	2017-07 BCR-059 #3 (Planning Package Updates)	1,203	
	2017-10 EAC-021b (FY18 Comp EAC, Level 2)		(31,152)
	2017-11 BCR-067 (FY18 Rate Updates)	3,983	
	2017-11 BCR-068 #4 (Planning Package Updates)	95	
	2017-12 EAC-022 (Dec17 EAC Updates)		(268,889)
	2018-03 EAC-025 (Mar18 EAC Updates)		(20,591)
	2018-05 EAC-028 (May18 EAC Updates)		83,834
	2018-06 EAC-029 (Jun18 EAC Updates)		149,409

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Significant (EAC)	YES
WBS L2,L3	(All)

Control Account	Month / Change	Sum of BAC	Sum of EAC
	2018-07 BCR-080 #2 (Cryostat Power Feedthrough)	133,573	133,573
	2018-09 BCR-082 #1 (Cryostat REB Power Feedthrough Cable)	59,530	59,530
	2018-09 BCR-082 #2 (Upgrade to Vacuum System Design)	20,392	20,392
	2018-10 BCR-083 FY19 Rate Update	3,704	
	2018-10 BCR-084 #4 (New Scope Vacuum PLC Changes)	2,630	2,630
	2018-10 EAC-034 (Oct18 EAC Updates, Part 2)		87,837
	2018-11 EAC-035 (Nov18 EAC Updates)		101,139
	2018-12 EAC-036 (Dec18 EAC Updates)		56,786
	2019-01 EAC-037 (Jan19 EAC Updates)		114,077
	2019-02 EAC-038 (Feb19 EAC Updates)		108,421
	2019-03 EAC-040 (Mar19 EAC Updates #2)		66,389
	2019-04 EAC-041 (Apr19 EAC Updates)		59,068
	2019-05 EAC-042 (May19 EAC Updates)		7,761
3.06.04.05 Cryostat Backend & Vacuum Systems Total		1,348,475	1,758,751
3.06.04.06 Refrigeration System	2014-11 PMB Start	5,096,885	5,096,885
	2014-12 BCR-001 (FY15 Rate Update)	(33,210)	(33,210)
	2015-01 BCR-004 #3 (Scope increases for refrigeration)	129,056	129,056
	2015-04 BCR-009 #2 (Refrigeration System Changes)	222,087	222,087
	2015-07 BCR-012 (Cryostat Refrigeration System Scope)	112,035	112,035
	2015-11 BCR-020 #4 (Cryostat Updates)	490,839	490,839
	2015-12 BCR-021 #3 (FY16 Rate Update)	(26,590)	(26,590)
	2015-12 BCR-022 #1 (Dec15 Planning Package Update)	946	946
	2016-03 BCR-026 #5 (Mar16 Planning Package Update)	1,322	1,322
	2016-04 BCR-028 #7 (Planning Package Updates)	1,542	1,542
	2016-10 BCR-039 (LSST Camera Re-org)	(18,430)	(18,430)
	2016-11 BCR-041 #3 (Planning Package Updates)	2,592	
	2017-01 BCR-044 (January 2017 FY17 Rate Update)	12,092	
	2017-02 BCR-048 (February 2017 Cryostat Refrigeration Replan)	1,085,680	1,085,680
	2017-02 EAC-015 (February 2017 Updates)		149,601
	2017-07 BCR-059 #3 (Planning Package Updates)	208	
	2017-08 BCR-061 #5 (Planning Package Updates)	178	
	2017-10 EAC-021b (FY18 Comp EAC, Level 2)		729,150
	2017-11 BCR-067 (FY18 Rate Updates)	6,451	
	2017-11 BCR-068 #2 (Cryo Cold System)	124,096	
	2017-11 BCR-068 #3 (Cryostat Replan and Award Updates)	649,791	
	2017-12 EAC-022 (Dec17 EAC Updates)		253,201
	2018-02 EAC-024 (Feb18 EAC Updates)		(27,249)
	2018-03 EAC-025 (Mar18 EAC Updates)		(16,493)
	2018-04 BCR-075 (Standing Army Scope Updates)	261	
	2018-04 BCR-076 #3 (Planning Package Updates)	3,722	

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Significant (EAC) WBS L2,L3	YES (All)		
Control Account	Month / Change	Sum of BAC	Sum of EAC
3.06.04.06 Refrigeration System	2018-10 BCR-083 FY19 Rate Update	324	
	2018-10 BCR-084 #6 (Activity Replan for IN2P3 Funding)	2,547	
	2018-10 EAC-033 (FY19 Comp EAC Update)		(120,065)
	2019-01 BCR-086 (RTM Replan)	(0)	
	2019-01 EAC-037 (Jan19 EAC Updates)		304,470
	2019-03 BCR-088 #2 (Cryostat Eden Contract Update)	41,466	41,466
	2019-03 EAC-039 (Mar19 EAC Updates)		211,625
3.06.04.06 Refrigeration System Total		7,905,889	8,587,868
3.06.05.01 Utility Trunk Integration & Management	2014-11 PMB Start	90,927	90,927
	2014-12 BCR-001 (FY15 Rate Update)	(797)	(797)
	2015-12 BCR-021 #3 (FY16 Rate Update)	(1,300)	(1,300)
	2016-10 BCR-039 (LSST Camera Re-org)	(2,168)	(2,168)
	2017-01 BCR-044 (January 2017 FY17 Rate Update)	(540)	
	2017-04 EAC-017 (April 2017 Updates)		35,359
	2017-05 BCR-053 #1 (Utility Trunk Replan and Scope)	27,612	
	2017-09 BCR-064 (PM and Sub-System CAM Re-Org)	77,355	77,355
	2017-09 EAC-020 (Adj Post BCR-064, PM and Sub-System CAM Re-Org)		(49,535)
	2017-10 EAC-021b (FY18 Comp EAC, Level 2)		(9,989)
	2017-11 BCR-067 (FY18 Rate Updates)	2,680	
	2018-09 EAC-032 (Sep18 EAC Updates)		14,072
	2018-10 BCR-083 FY19 Rate Update	127	
	2018-10 EAC-034 (Oct18 EAC Updates, Part 2)		3,767
	2018-11 EAC-035 (Nov18 EAC Updates)		3,240
	2018-12 EAC-036 (Dec18 EAC Updates)		2,225
3.06.05.01 Utility Trunk Integration & Management Total		193,897	163,155
3.06.05.02 Utility Trunk Thermo-Mechanical and Management	2014-11 PMB Start	722,829	722,829
	2014-12 BCR-001 (FY15 Rate Update)	(14,121)	(14,121)
	2015-11 BCR-020 #4 (Cryostat Updates)	1,125	1,125
	2015-12 BCR-021 #1,#2 (FY16 resource conversion)	(10,874)	(10,874)
	2015-12 BCR-021 #3 (FY16 Rate Update)	(10,862)	(10,862)
	2016-04 BCR-028 #7 (Planning Package Updates)	5,194	5,194
	2016-07 BCR-031 #4 (Planning Package Updates)	9,205	9,205
	2016-10 BCR-039 (LSST Camera Re-org)	(14,795)	(14,795)
	2017-01 BCR-044 (January 2017 FY17 Rate Update)	7,633	
	2017-02 BCR-048 (February 2017 Cryostat Refrigeration Replan)	543	
	2017-04 EAC-017 (April 2017 Updates)		551,254
	2017-05 BCR-053 #1 (Utility Trunk Replan and Scope)	304,770	
	2017-10 EAC-021b (FY18 Comp EAC, Level 2)		16,847
	2017-11 BCR-067 (FY18 Rate Updates)	7,510	
	2017-11 BCR-068 #1 (UT Quad Box)	85,915	85,915

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Significant (EAC)	YES
WBS L2,L3	(All)

Control Account	Month / Change	Sum of BAC	Sum of EAC
3.06.05.02 Utility Trunk Thermo-Mechanical and Assembly	2017-11 BCR-068 #3 (Cryostat Replan and Award Updates)	1,758	
	2017-11 Pending BCR Reversal (ref BCR-068 #1)		(101,663)
	2018-01 BCR-071 #3 (Planning Package Updates)	230	
	2018-01 EAC-023 (Jan18 EAC Updates)		(74,617)
	2018-02 BCR-072 #4 (ION Pump Controller/Elec Hardware)	52,704	52,704
	2018-09 BCR-082 #2 (Upgrade to Vacuum System Design)	39,864	39,864
	2018-10 BCR-083 FY19 Rate Update	2,492	
	2019-01 EAC-037 (Jan19 EAC Updates)		79,117
	3.06.05.02 Utility Trunk Thermo-Mechanical and Assembly Total	1,191,119	1,337,122
3.07.01.01 CCS Integration & Management	2014-11 PMB Start	964,846	964,846
	2014-12 BCR-001 (FY15 Rate Update)	4,725	4,725
	2015-08 EAC-005 (Aug15 EAC Update)		(31,163)
	2015-12 BCR-021 #1,#2 (FY16 resource conversion)	(6,513)	(6,513)
	2015-12 BCR-021 #3 (FY16 Rate Update)	(22,262)	(22,262)
	2016-11 EAC-014 (FY17 Comp EAC Update)		151,828
	2017-01 BCR-044 (January 2017 FY17 Rate Update)	(13,468)	
	2017-03 BCR-049 #5 (CCS new travel scope to support IN2P3)	57,871	
	2017-08 BCR-061 #3 (Travel for UK collaborators to support CCS team)	29,424	29,424
	2017-11 BCR-067 (FY18 Rate Updates)	4,903	
	2017-11 EAC-021c (FY18 Comp EAC)		(10,980)
	2018-02 EAC-024 (Feb18 EAC Updates)		19,979
	2018-10 EAC-033 (FY19 Comp EAC Update)		5,449
	2019-01 BCR-087 (Jan19 Baseline Updates)	63,848	
	2019-01 EAC-037 (Jan19 EAC Updates)		25
	3.07.01.01 CCS Integration & Management Total	1,083,374	1,105,359
3.07.01.02 CCS Core	2014-11 PMB Start	2,094,756	2,094,756
	2014-12 BCR-001 (FY15 Rate Update)	17,064	17,064
	2015-04 BCR-009 #3 (Apr-15 Baseline Updates)	2,197	2,197
	2015-05 BCR-010 (CCS Planning Pkg/I&T Link correction)	(20)	(20)
	2015-08 BCR-013 #1 (CCS - Image Display Scope)	31,086	31,086
	2015-12 BCR-021 #1,#2 (FY16 resource conversion)	(35,628)	(35,628)
	2015-12 BCR-021 #3 (FY16 Rate Update)	(38,750)	(38,750)
	2016-02 BCR-024 #1 (Feb16 Planning Packages Update)	877	877
	2016-04 BCR-028 #7 (Planning Package Updates)	5,961	5,961
	2016-05 BCR-029 #4 (Planning Package Updates)	102	102
	2016-09 BCR-036 #2 (New Scope per LCN-1662: CCS Supt, Rotator, I&T Displays)	26,091	26,091
	2016-11 BCR-041 #3 (Planning Package Updates)	2,899	
	2016-11 EAC-014 (FY17 Comp EAC Update)		162,109
	2017-01 BCR-044 (January 2017 FY17 Rate Update)	(34,461)	
	2017-01 BCR-045 #1 (CCS Resource Change)	33,430	

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Significant (EAC) WBS L2,L3	YES (All)		
Control Account	Month / Change	Sum of BAC	Sum of EAC
3.07.01.02 CCS Core	2017-02 BCR-047 #3 (Feb17, Planning Package Updates)	567	
	2017-03 BCR-049 #6 (Planning Package Updates/WP Corrections)	796	
	2017-06 BCR-057 #2 (Planning Package Updates)	2,134	
	2017-07 BCR-059 #3 (Planning Package Updates)	5,510	
	2017-11 BCR-067 (FY18 Rate Updates)	13,087	
	2017-11 EAC-021c (FY18 Comp EAC)		(54,329)
	2018-02 EAC-024 (Feb18 EAC Updates)		13,404
	2018-10 EAC-033 (FY19 Comp EAC Update)		(209,626)
3.07.01.02 CCS Core Total		2,127,699	2,015,296
3.07.01.03 CCS HCU	2014-11 PMB Start	1,481,858	1,481,858
	2014-12 BCR-001 (FY15 Rate Update)	14,607	14,607
	2014-12 BCR-002 #4 (CCS Test Stand Update)	(49,558)	(49,558)
	2015-02 BCR-006 #1 (Replan for work sequencing/resource allocation)	5,437	5,437
	2015-06 BCR-011 #2 (Links CCS, DAQ and ScRaft)	19,496	19,496
	2015-12 BCR-021 #1,#2 (FY16 resource conversion)	(16,487)	(16,487)
	2015-12 BCR-021 #3 (FY16 Rate Update)	(21,741)	(21,741)
	2016-02 BCR-023 #6 (Feb15 I&T Replan)	1,718	1,718
	2016-02 BCR-024 #1 (Feb16 Planning Packages Update)	2,472	2,472
	2016-03 BCR-026 #5 (Mar16 Planning Package Update)	388	388
	2016-04 BCR-028 #7 (Planning Package Updates)	296	296
	2016-05 BCR-029 #2 (New Scope, CCS Integration Gantry)	121,813	121,813
	2016-05 BCR-029 #4 (Planning Package Updates)	1	1
	2016-07 BCR-031 #4 (Planning Package Updates)	3,615	3,615
	2016-09 BCR-036 #2 (New Scope per LCN-1662: CCS Supt, Rotator, I&T Displays)	160,836	160,836
	2016-11 BCR-041 #3 (Planning Package Updates)	(0)	
	2016-11 EAC-014 (FY17 Comp EAC Update)		357,879
	2017-01 BCR-044 (January 2017 FY17 Rate Update)	(37,427)	
	2017-01 BCR-045 #1 (CCS Resource Change)	98,739	
	2017-02 BCR-047 #3 (Feb17, Planning Package Updates)	867	
	2017-05 BCR-054 #3 (Planning Package Updates)	1,896	
	2017-07 BCR-059 #3 (Planning Package Updates)	4,127	
	2017-11 BCR-067 (FY18 Rate Updates)	8,688	
	2017-11 BCR-068 #1 (UT Quad Box)	10,948	
	2017-11 BCR-068 #3 (Cryostat Replan and Award Updates)	-	
	2017-11 BCR-068 #4 (Planning Package Updates)	23	
	2017-11 EAC-021c (FY18 Comp EAC)		24,277
	2018-01 BCR-071 #3 (Planning Package Updates)	19	
	2018-09 BCR-082 #2 (Upgrade to Vacuum System Design)	16,215	16,215
	2018-10 BCR-084 #4 (New Scope Vacuum PLC Changes)	14,594	
	2018-10 EAC-033 (FY19 Comp EAC Update)		(29,180)

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Significant (EAC)	YES
WBS L2,L3	(All)

Control Account	Month / Change	Sum of BAC	Sum of EAC
3.07.01.03 CCS HCU Total		1,843,440	2,093,942
3.07.02.01 DAQ Integration & Management	2014-11 PMB Start	1,053,185	1,053,185
	2014-12 BCR-001 (FY15 Rate Update)	(2,268)	(2,268)
	2015-12 BCR-021 #3 (FY16 Rate Update)	16,805	16,805
	2016-10 BCR-039 (LSST Camera Re-org)	16,563	16,563
	2016-11 EAC-014 (FY17 Comp EAC Update)		100,541
	2017-01 BCR-044 (January 2017 FY17 Rate Update)	(8,127)	
	2017-10 EAC-021a (FY18 Comp EAC)		121,063
	2017-11 BCR-067 (FY18 Rate Updates)	3,457	
	2018-10 EAC-033 (FY19 Comp EAC Update)		(30,793)
3.07.02.01 DAQ Integration & Management Total		1,079,615	1,275,095
3.07.02.02 DAQ Hardware and Software	2014-11 PMB Start	3,979,770	3,979,770
	2014-12 BCR-001 (FY15 Rate Update)	(10,518)	(10,518)
	2015-02 BCR-006 #1 (Replan for work sequencing/resource allocation)	(150)	(150)
	2015-06 BCR-011 #2 (Links CCS, DAQ and ScRaft)	558	558
	2015-08 BCR-013 #2 (DAQ - 3.1 version moved to 3.0)	998	998
	2015-12 BCR-021 #3 (FY16 Rate Update)	81,442	81,442
	2015-12 BCR-022 #1 (Dec15 Planning Package Update)	10,075	10,075
	2016-02 BCR-024 #1 (Feb16 Planning Packages Update)	2,588	2,588
	2016-04 BCR-028 #7 (Planning Package Updates)	8,099	8,099
	2016-07 BCR-031 #3 (DAQ Replan)	19,064	19,064
	2016-07 BCR-031 #4 (Planning Package Updates)	11,747	11,747
	2016-11 BCR-041 #3 (Planning Package Updates)	1,493	
	2016-11 EAC-014 (FY17 Comp EAC Update)		248,741
	2017-01 BCR-044 (January 2017 FY17 Rate Update)	28,917	
	2017-02 BCR-047 #3 (Feb17, Planning Package Updates)	1,952	
	2017-05 BCR-054 #3 (Planning Package Updates)	966	
	2017-06 BCR-056 #2 (DAQ SATA Firmware)	44,337	
	2017-07 BCR-059 #3 (Planning Package Updates)	291	
	2017-08 BCR-061 #5 (Planning Package Updates)	(0)	
	2017-10 BCR-066 #2 (COB Hardware Components)	105,358	
	2017-10 EAC-021a (FY18 Comp EAC)		38,689
	2017-11 BCR-067 (FY18 Rate Updates)	635	
	2017-11 BCR-068 #1 (UT Quad Box)	747	
	2017-11 BCR-068 #4 (Planning Package Updates)	(1,160)	
	2017-12 BCR-070 #1 (DAQ Guiding Data System)	168,397	
	2017-12 EAC-022 (Dec17 EAC Updates)		27,073
	2018-02 BCR-072 #5 (Planning Package Updates)	(0)	
	2018-03 BCR-074 #1 (Planning Package Updates)	(164)	
	2018-05 EAC-028 (May18 EAC Updates)		85,192

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Significant (EAC)	YES
WBS L2,L3	(All)

Control Account	Month / Change	Sum of BAC	Sum of EAC
3.07.02.02 DAQ Hardware and Software	2018-07 EAC-030 (Jul18 EAC Updates)		177,096
	2018-08 BCR-081 #1 (DAQ Programming of REB FPGA)	76,590	
	2018-08 BCR-081 #2 (DAQ New Layout for the COB)	70,668	
	2018-08 EAC-031 (Aug18 EAC Updates)		16,443
	2018-10 BCR-083 FY19 Rate Update	5,558	
	2018-10 EAC-033 (FY19 Comp EAC Update)		44,644
	2019-02 EAC-038 (Feb19 EAC Updates)		204,869
3.07.02.02 DAQ Hardware and Software Total		4,608,259	4,946,419
3.07.03.01 Aux Elec Integration & Management	2014-11 PMB Start	191,851	191,851
	2014-12 BCR-001 (FY15 Rate Update)	(631)	(631)
	2015-12 BCR-021 #3 (FY16 Rate Update)	4,751	4,751
	2016-11 EAC-014 (FY17 Comp EAC Update)		(41,668)
	2017-01 BCR-044 (January 2017 FY17 Rate Update)	1,888	
	2017-09 BCR-064 (PM and Sub-System CAM Re-Org)	43,339	43,339
	2017-10 EAC-021a (FY18 Comp EAC)		2,390
	2017-11 BCR-067 (FY18 Rate Updates)	123	
	2018-10 EAC-033 (FY19 Comp EAC Update)		11,841
	2018-11 EAC-035 (Nov18 EAC Updates)		1,530
	2018-12 EAC-036 (Dec18 EAC Updates)		6,647
	2019-01 EAC-037 (Jan19 EAC Updates)		1,074
	2019-02 EAC-038 (Feb19 EAC Updates)		11,506
3.07.03.01 Aux Elec Integration & Management Total		241,321	232,630
3.07.03.02 Aux Elec Components	2014-11 PMB Start	1,330,584	1,330,584
	2014-12 BCR-001 (FY15 Rate Update)	(4,634)	(4,634)
	2014-12 BCR-002 #5 (SR & Sensor Updates)	469	469
	2015-02 BCR-006 #1 (Replan for work sequencing/resource allocation)	170	170
	2015-12 BCR-021 #3 (FY16 Rate Update)	35,094	35,094
	2016-04 BCR-028 #7 (Planning Package Updates)	190	190
	2016-05 BCR-029 #1 (New Scope, Filter 3mm move)	(69)	(69)
	2016-07 BCR-031 #4 (Planning Package Updates)	68	68
	2016-09 BCR-036 #4 (Shutter FDR Replan)	(172)	(172)
	2016-10 BCR-040 #4 (AE add'l boards scope per LCN-1713)	55,315	55,315
	2016-11 EAC-014 (FY17 Comp EAC Update)		54,560
	2017-01 BCR-044 (January 2017 FY17 Rate Update)	10,095	
	2017-02 BCR-047 #3 (Feb17, Planning Package Updates)	579	
	2017-05 BCR-053 #1 (Utility Trunk Replan and Scope)	122	
	2017-05 BCR-054 #3 (Planning Package Updates)	284	
	2017-06 BCR-057 #2 (Planning Package Updates)	23	
	2017-07 BCR-059 #3 (Planning Package Updates)	158	
	2017-08 BCR-061 #5 (Planning Package Updates)	13	

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Significant (EAC) WBS L2,L3	YES (All)		
Control Account	Month / Change	Sum of BAC	Sum of EAC
	2017-10 EAC-021a (FY18 Comp EAC)		144,370
	2017-11 BCR-067 (FY18 Rate Updates)	131	
	2017-11 BCR-068 #1 (UT Quad Box)	58,177	58,177
	2017-12 BCR-070 #5 (Planning Package Updates)	73	
	2018-02 BCR-072 #3 (Aux Elec Design Support)	110,824	110,824
	2018-02 BCR-072 #4 (ION Pump Controller/Elec Hardware)	63,873	63,873
	2018-04 BCR-076 #2 (Aux Elec Installation Support)	110,824	110,824
	2018-04 EAC-027 (Apr18 EAC Updates)		3,184
	2018-05 BCR-077 #2 (Aux Elec Test Support)	239,278	239,278
	2018-05 EAC-028 (May18 EAC Updates)		162,430
	2018-06 EAC-029 (Jun18 EAC Updates)		275,931
	2018-08 EAC-031 (Aug18 EAC Updates)		312,288
	2018-09 BCR-082 #2 (Upgrade to Vacuum System Design)	43,927	43,927
	2018-10 BCR-083 FY19 Rate Update	1,759	
	2018-10 EAC-033 (FY19 Comp EAC Update)		6,753
3.07.03.02 Aux Elec Components Total		2,057,155	3,003,434
3.08.01 I&T Integration & Management	2014-11 PMB Start	3,066,457	3,066,457
	2014-12 BCR-001 (FY15 Rate Update)	51,561	51,561
	2014-12 BCR-002 #5 (SR & Sensor Updates)	(1,115)	(1,115)
	2015-02 BCR-006 #1 (Replan for work sequencing/resource allocation)	3,858	3,858
	2015-03 EAC-001 (Pending BCR,Clean room operations)	-	247,409
	2015-04 BCR-009 #3 (Apr-15 Baseline Updates)	15,170	15,170
	2015-05 BCR-010 (CCS Planning Pkg/I&T Link correction)	(3,024)	(3,024)
	2015-12 BCR-021 #1,#2 (FY16 resource conversion)	(11,307)	(11,307)
	2015-12 BCR-021 #3 (FY16 Rate Update)	(51,529)	(51,529)
	2016-02 BCR-023 #6 (Feb15 I&T Replan)	113,607	113,607
	2016-02 BCR-024 #3 (Feb16 Fixed Activity Duration)	(169)	(169)
	2016-02 EAC-009 (Feb16 EAC Update)	-	(247,409)
	2016-03 BCR-026 #4 (Mar16 Cryostat IRR Fix)	277	277
	2016-04 BCR-028 #7 (Planning Package Updates)	1,638	1,638
	2016-05 BCR-029 #4 (Planning Package Updates)	5,473	5,473
	2016-07 BCR-031 #4 (Planning Package Updates)	(536)	(536)
	2016-08 BCR-034 #1 (CR New scope for TS-7 & TS-8)	414	414
	2016-08 BCR-034 #3 (I&T new scope for SBMS)	17,117	17,117
	2016-10 BCR-039 (LSST Camera Re-org)	22,783	22,783
	2016-11 BCR-041 #1 (Sensor Replan)	424	
	2016-11 BCR-041 #3 (Planning Package Updates)	(0)	
	2016-11 EAC-014 (FY17 Comp EAC Update)		29,502
	2016-12 BCR-043 #2 (Planning Package Updates)	(128)	
	2017-01 BCR-044 (January 2017 FY17 Rate Update)	(66,605)	

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Significant (EAC) WBS L2,L3	YES (All)		
Control Account	Month / Change	Sum of BAC	Sum of EAC
	2017-10 EAC-021a (FY18 Comp EAC)		(252,827)
	2017-11 BCR-067 (FY18 Rate Updates)	43,605	
	2017-11 BCR-068 #3 (Cryostat Replan and Award Updates)	7,927	
	2017-12 BCR-070 #5 (Planning Package Updates)	(11,350)	
	2018-03 EAC-025 (Mar18 EAC Updates)		202,428
	2018-04 BCR-075 (Standing Army Scope Updates)	149,392	
	2018-05 BCR-077 #1 (Add'l Scope for I&T)	67,874	
	2018-06 EAC-029 (Jun18 EAC Updates)		114,561
	2018-07 BCR-080 #1 (I&T Scientific Intern Support)	31,533	31,533
	2018-10 EAC-033 (FY19 Comp EAC Update)		30,078
	2018-12 EAC-036 (Dec18 EAC Updates)		120,733
	2019-01 BCR-086 (RTM Replan)	121,040	
	2019-01 EAC-037 (Jan19 EAC Updates)		(5,494)
	2019-03 EAC-039 (Mar19 EAC Updates)		(65,843)
3.08.01 I&T Integration & Management Total		3,574,389	3,435,348
3.08.02 Verification Test Systems	2014-11 PMB Start	2,790,751	2,790,751
	2014-12 BCR-001 (FY15 Rate Update)	(22,622)	(22,622)
	2014-12 BCR-002 #4 (CCS Test Stand Update)	(10)	(10)
	2015-02 BCR-006 #1 (Replan for work sequencing/resource allocation)	13,377	13,377
	2015-04 BCR-009 #3 (Apr-15 Baseline Updates)	200	200
	2015-04 EAC-002 (Image qual test,test rafts)	-	(99,891)
	2015-12 BCR-021 #1,#2 (FY16 resource conversion)	(13,473)	(13,473)
	2015-12 BCR-021 #3 (FY16 Rate Update)	32,303	32,303
	2015-12 BCR-022 #1 (Dec15 Planning Package Update)	4,567	4,567
	2016-02 BCR-023 #6 (Feb15 I&T Replan)	234,908	234,908
	2016-03 BCR-026 #5 (Mar16 Planning Package Update)	1,655	1,655
	2016-04 BCR-028 #3 (Descope, Single Bay Metrology Stand)	(430,260)	(430,260)
	2016-04 BCR-028 #7 (Planning Package Updates)	5,034	5,034
	2016-05 BCR-029 #4 (Planning Package Updates)	(985)	(985)
	2016-07 BCR-031 #4 (Planning Package Updates)	1,123	1,123
	2016-08 BCR-033 #1 (Removal of Single Bay Electrical Optical (SBEO) from I&T)	(87,370)	(87,370)
	2016-08 BCR-034 #3 (I&T new scope for SBMS)	253,033	253,033
	2016-08 BCR-034 #6 (Planning Package Updates)	579	579
	2016-10 BCR-039 (LSST Camera Re-org)	(51,117)	(51,117)
	2016-11 BCR-041 #3 (Planning Package Updates)	10,941	
	2016-11 EAC-014 (FY17 Comp EAC Update)		(92,173)
	2017-01 BCR-044 (January 2017 FY17 Rate Update)	7,978	
	2017-02 BCR-047 #3 (Feb17, Planning Package Updates)	2,020	
	2017-04 BCR-051 #2 (IR2 Pump/Leak Check Cart and MF06 for RAFT's)	23,054	23,054
	2017-05 BCR-053 #2 (BOT Material Replan)	1,845	

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Significant (EAC) WBS L2,L3	YES (All)		
Control Account	Month / Change	Sum of BAC	Sum of EAC
	2017-05 BCR-054 #3 (Planning Package Updates)	4,300	
	2017-07 BCR-059 #3 (Planning Package Updates)	697	
	2017-08 BCR-061 #5 (Planning Package Updates)	396	
	2017-10 EAC-021a (FY18 Comp EAC)		268,946
	2017-11 BCR-067 (FY18 Rate Updates)	1,404	
	2017-11 BCR-068 #1 (UT Quad Box)	16,079	16,079
	2017-12 BCR-070 #4 (Augmented I&T BOT and Gantry Testing)	33,257	33,257
	2018-01 EAC-023 (Jan18 EAC Updates)		(29,894)
	2018-02 BCR-072 #1 (ETU#1 REB Upgrade)	24,944	24,944
	2018-04 BCR-076 #1 (Add'l Scope for I&T)	25,321	25,321
	2018-06 EAC-029 (Jun18 EAC Updates)		26,580
	2018-10 BCR-083 FY19 Rate Update	2,763	
	2018-10 EAC-033 (FY19 Comp EAC Update)		92,402
3.08.02 Verification Test Systems Total		2,886,693	3,020,318
3.08.03 Cryostat I&T	2014-11 PMB Start	2,342,338	2,342,338
	2014-12 BCR-001 (FY15 Rate Update)	(47,565)	(47,565)
	2015-02 BCR-006 #1 (Replan for work sequencing/resource allocation)	17,855	17,855
	2015-04 BCR-009 #3 (Apr-15 Baseline Updates)	3,818	3,818
	2015-05 BCR-010 (CCS Planning Pkg/I&T Link correction)	(2,957)	(2,957)
	2015-12 BCR-021 #1,#2 (FY16 resource conversion)	(5,578)	(5,578)
	2015-12 BCR-021 #3 (FY16 Rate Update)	14,341	14,341
	2016-02 BCR-023 #6 (Feb15 I&T Replan)	(346,752)	(346,752)
	2016-03 BCR-026 #4 (Mar16 Cryostat IRR Fix)	636	636
	2016-03 BCR-026 #5 (Mar16 Planning Package Update)	1,779	1,779
	2016-04 BCR-028 #7 (Planning Package Updates)	667	667
	2016-05 BCR-029 #2 (New Scope, CCS Integration Gantry)	8,460	8,460
	2016-07 BCR-031 #4 (Planning Package Updates)	229	229
	2016-08 BCR-034 #1 (CR New scope for TS-7 & TS-8)	(16,052)	(16,052)
	2016-10 BCR-039 (LSST Camera Re-org)	(67,374)	(67,374)
	2016-11 BCR-041 #1 (Sensor Replan)	212	
	2016-11 BCR-041 #3 (Planning Package Updates)	602	
	2016-11 EAC-014 (FY17 Comp EAC Update)		219,995
	2016-12 BCR-043 #2 (Planning Package Updates)	453	
	2017-01 BCR-044 (January 2017 FY17 Rate Update)	74,529	
	2017-02 BCR-047 #3 (Feb17, Planning Package Updates)	3,650	
	2017-05 BCR-054 #3 (Planning Package Updates)	674	
	2017-10 EAC-021a (FY18 Comp EAC)		275,810
	2017-11 BCR-067 (FY18 Rate Updates)	26,132	
	2017-11 BCR-068 #3 (Cryostat Replan and Award Updates)	3,440	
	2017-12 BCR-070 #4 (Augmented I&T BOT and Gantry Testing)	85,145	85,145

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Significant (EAC) WBS L2,L3	YES (All)		
Control Account	Month / Change	Sum of BAC	Sum of EAC
	2018-01 BCR-071 #2 (Corner Raft Rephase)	207	
	2018-01 EAC-023 (Jan18 EAC Updates)		30,958
	2018-04 BCR-075 (Standing Army Scope Updates)	120	
	2018-04 BCR-076 #1 (Add'l Scope for I&T)	10,719	10,719
	2018-06 EAC-029 (Jun18 EAC Updates)		(135,556)
	2018-08 EAC-031 (Aug18 EAC Updates)		71,741
	2018-09 BCR-082 #2 (Upgrade to Vacuum System Design)	8,780	8,780
	2018-09 BCR-082 #3 (SR Upgrade Support - Load Positioner)	20,187	20,187
	2018-10 BCR-083 FY19 Rate Update	4,653	
	2018-10 BCR-084 #2 (Reconstruction of Science Rafts)	58,457	
	2018-10 EAC-033 (FY19 Comp EAC Update)		(11,880)
	2018-12 EAC-036 (Dec18 EAC Updates)		454,019
	2019-01 BCR-086 (RTM Replan)	456,731	
	2019-01 EAC-037 (Jan19 EAC Updates)		10,043
	2019-03 BCR-088 #1 (RTM1 Remediation & Reverification)	30,849	30,849
	2019-03 EAC-039 (Mar19 EAC Updates)		87,018
	2019-04 BCR-089 (RTM11 Remediation & Reverification)	20,571	20,571
3.08.03 Cryostat I&T Total		2,709,958	3,082,244
3.08.04 Camera I&T	2014-11 PMB Start	2,145,375	2,145,375
	2014-12 BCR-001 (FY15 Rate Update)	(50,114)	(50,114)
	2014-12 BCR-002 #5 (SR & Sensor Updates)	(2,821)	(2,821)
	2015-02 BCR-006 #1 (Replan for work sequencing/resource allocation)	2,689	2,689
	2015-12 BCR-021 #1,#2 (FY16 resource conversion)	(4,133)	(4,133)
	2015-12 BCR-021 #3 (FY16 Rate Update)	(28,379)	(28,379)
	2016-02 BCR-023 #6 (Feb15 I&T Replan)	(29,731)	(29,731)
	2016-03 BCR-026 #5 (Mar16 Planning Package Update)	446	446
	2016-04 BCR-028 #7 (Planning Package Updates)	181	181
	2016-07 BCR-031 #2 (Addition of 2nd Back Flange Scope)	(44,822)	(44,822)
	2016-07 BCR-031 #4 (Planning Package Updates)	1,764	1,764
	2016-09 BCR-036 #4 (Shutter FDR Replan)	(1,503)	(1,503)
	2016-10 BCR-039 (LSST Camera Re-org)	(56,810)	(56,810)
	2016-11 BCR-041 #1 (Sensor Replan)	519	
	2016-11 BCR-041 #3 (Planning Package Updates)	12,107	
	2016-11 EAC-014 (FY17 Comp EAC Update)		278,087
	2017-01 BCR-044 (January 2017 FY17 Rate Update)	41,855	
	2017-02 BCR-047 #3 (Feb17, Planning Package Updates)	2,186	
	2017-03 BCR-049 #3 (B33 and B660 security upgrade)	48,780	48,780
	2017-04 BCR-051 #2 (IR2 Pump/Leak Check Cart and MF06 for RAFT's)	48,780	48,780
	2017-05 BCR-054 #3 (Planning Package Updates)	279	
	2017-06 BCR-056 #1 (Camera Housing Award and Scope Update)	1,215	

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Significant (EAC)	YES		
WBS L2,L3	(All)		

Control Account	Month / Change	Sum of BAC	Sum of EAC
	2017-06 BCR-057 #2 (Planning Package Updates)	248	
	2017-10 EAC-021a (FY18 Comp EAC)		205,668
	2017-11 BCR-067 (FY18 Rate Updates)	22,563	
	2017-11 BCR-068 #3 (Cryostat Replan and Award Updates)	3,392	
	2017-11 BCR-068 #4 (Planning Package Updates)	83	
	2018-01 BCR-071 #1 (IR2 Services Upgrades)	100,314	100,314
	2018-02 BCR-072 #5 (Planning Package Updates)	24	
	2018-04 BCR-075 (Standing Army Scope Updates)	1,472	
	2018-04 BCR-076 #1 (Add'l Scope for I&T)	11,958	11,958
	2018-05 BCR-077 #3 (Planning Package Updates)	1,273	
	2018-05 BCR-077 #4 (Replan of I&T Camera Handling Equipment)	4,893	
	2018-07 EAC-030 (Jul18 EAC Updates)		41,898
	2018-09 BCR-082 #3 (SR Upgrade Support - Load Positioner)	10,719	10,719
	2018-09 BCR-082 #4 (Descope of Camera Saddle Stand)	(154,764)	(154,764)
	2018-09 BCR-082 #4 (Descope of Camera Saddle Stand, add'l EAC)		(3,893)
	2018-10 BCR-083 FY19 Rate Update	11,774	
	2018-10 EAC-033 (FY19 Comp EAC Update)		(238,902)
	2019-01 BCR-086 (RTM Replan)	3,034	
	2019-03 BCR-088 #3 (Planning Package and P6 fixes)	2,514	
	2019-05 EAC-042 (May19 EAC Updates)		5,055
3.08.04 Camera I&T Total		2,107,359	2,285,843
3.08.05 Transportation & Storage Equipment	2014-11 PMB Start	216,511	216,511
	2014-12 BCR-001 (FY15 Rate Update)	(5,188)	(5,188)
	2015-12 BCR-021 #3 (FY16 Rate Update)	(6,975)	(6,975)
	2015-12 BCR-022 #1 (Dec15 Planning Package Update)	875	875
	2016-02 BCR-023 #6 (Feb15 I&T Replan)	279,544	279,544
	2016-07 BCR-031 #4 (Planning Package Updates)	3,606	3,606
	2016-10 BCR-039 (LSST Camera Re-org)	(12,945)	(12,945)
	2016-11 EAC-014 (FY17 Comp EAC Update)		11,193
	2017-01 BCR-044 (January 2017 FY17 Rate Update)	1,020	
	2017-02 BCR-047 #3 (Feb17, Planning Package Updates)	746	
	2017-06 BCR-056 #3 (I&T Full Camera Shipping Plan)	10,356	
	2017-06 BCR-057 #2 (Planning Package Updates)	180	
	2017-10 EAC-021a (FY18 Comp EAC)		(473,979)
	2017-11 BCR-067 (FY18 Rate Updates)	3,724	
	2017-12 BCR-069 #1 (Descope of Shipping Container)	(478,533)	
	2017-12 EAC-022 (Dec17 EAC Updates)		(1,885)
	2018-10 EAC-033 (FY19 Comp EAC Update)		(10,756)
3.08.05 Transportation & Storage Equipment Total		12,920	0
3.08.06 Commissioning Camera	2014-11 PMB Start	1,364,723	1,364,723

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Significant (EAC)	YES
WBS L2,L3	(All)

Control Account	Month / Change	Sum of BAC	Sum of EAC
3.08.06 Commissioning Camera	2014-12 BCR-001 (FY15 Rate Update)	(3,323)	(3,323)
	2015-02 BCR-006 #1 (Replan for work sequencing/resource allocation)	5,357	5,357
	2015-04 BCR-009 #3 (Apr-15 Baseline Updates)	526	526
	2015-05 BCR-010 (CCS Planning Pkg/I&T Link correction)	(1,438)	(1,438)
	2015-12 BCR-021 #3 (FY16 Rate Update)	3,568	3,568
	2016-04 BCR-028 #7 (Planning Package Updates)	7,758	7,758
	2016-05 BCR-029 #2 (New Scope, CCS Integration Gantry)	1,220	1,220
	2016-10 BCR-039 (LSST Camera Re-org)	(20,365)	(20,365)
	2016-11 EAC-014 (FY17 Comp EAC Update)		(103,538)
	2016-12 BCR-043 #2 (Planning Package Updates)	303	
	2017-01 BCR-044 (January 2017 FY17 Rate Update)	(550)	
	2017-02 BCR-046 (February 2017 ComCam Replan)	(49,957)	
	2017-02 EAC-015 (February 2017 Updates)		53,335
	2017-04 EAC-017 (April 2017 Updates)		495,000
	2017-05 BCR-054 #3 (Planning Package Updates)	(0)	
	2017-07 BCR-059 #1 (Transition to Ops Planning)	498,951	
	2017-07 BCR-059 #3 (Planning Package Updates)	2,418	
	2017-07 EAC-019 (July 2017 Pending BCR)		(65,000)
	2017-07 EAC-019 (July 2017 Trans to Ops)		3,951
	2017-10 BCR-066 #4 (Planning Package Updates)	0	
	2017-10 EAC-021a (FY18 Comp EAC)		(297,336)
	2017-11 BCR-067 (FY18 Rate Updates)	12,785	
	2017-11 BCR-068 #3 (Cryostat Replan and Award Updates)	1,052	
	2017-12 BCR-069 #2 (Descope of Commissioning Baseline Planning)	(247,231)	
	2017-12 BCR-070 #5 (Planning Package Updates)	(20,501)	
	2017-12 EAC-022 (Dec17 EAC Updates)		(62,064)
	2018-10 BCR-083 FY19 Rate Update	324	
	2018-10 EAC-033 (FY19 Comp EAC Update)		(18,235)
3.08.06 Commissioning Camera Total		1,555,622	1,364,139
Grand Total		160,300,922	165,392,916