

**LSST CCB Log  
(TEC Project Baseline)**

| BCR #   | Qty of Changes | Signature Level | Status   | BCR Reporting Month | BCR Approval Date | Implementation Period | Start of Work Period                                     | BCR Description                                                                                                                                                                                                                                                                                                                                                                  | Originator                                           | TEC Base Cost Estimate |                     |              | Contingency Analysis |             |
|---------|----------------|-----------------|----------|---------------------|-------------------|-----------------------|----------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|------------------------|---------------------|--------------|----------------------|-------------|
|         |                |                 |          |                     |                   |                       |                                                          |                                                                                                                                                                                                                                                                                                                                                                                  |                                                      | Previous Baseline      | Increase (Decrease) | New Baseline | TEC Baseline         | Contingency |
| N/A     | 0              | N/A             | N/A      | Nov-14              | N/A               |                       | N/A                                                      | CD2 ESAAB Baseline                                                                                                                                                                                                                                                                                                                                                               | Project                                              | 0                      | 117,399,829         | 117,399,829  | 150,300,000          | 32,900,171  |
| BCR-001 | 1              | L3              | Approved | Dec-14              | 03/31/15          |                       | Oct-11                                                   | <b>FY15 Rate Update</b>                                                                                                                                                                                                                                                                                                                                                          | Kurita                                               | 117,399,829            | (190,029)           | 117,209,800  | 150,300,000          | 33,090,200  |
| BCR-002 | 6              | L3              | Approved | Dec-14              | 02/04/15          |                       | Jan-15<br>Oct-14<br>Jan-15<br>Oct-14<br>Jan-15<br>Oct-14 | <b>December 2014 Baseline Updates</b><br>1. Dec 2014 Baseline Updates (CR Elect, \$269K)<br>2. Dec 2014 Baseline Updates (Optics Mgmt, \$229K)<br>3. Dec 2014 Baseline Updates (L1_L2 Design, \$74K)<br>4. Dec 2014 Baseline Updates (CCS Test Stand, -\$50K)<br>5. Dec 2014 Baseline Updates (SR/Sensor Replan, -\$1K)<br>6. Dec 2014 Baseline Updates (LOE Correction, \$.027) | Kurita                                               | 117,209,800            | 520,817             | 117,730,617  | 150,300,000          | 32,569,383  |
| BCR-003 | 1              | L3              | Approved | Jan-15              | 02/27/15          |                       | N/A                                                      | <b>CAM Changes (New CAM's Bill Wahl &amp; Tim Bond)</b>                                                                                                                                                                                                                                                                                                                          | Kurita                                               | 117,730,617            | 0                   | 117,730,617  | 150,300,000          | 32,569,383  |
| BCR-004 | 3              | L3              | Approved | Jan-15              | 02/24/15          |                       | Apr-15<br>Aug-15<br>Feb-15                               | <b>Cryostat Baseline Updates</b><br>1. Cryo/cold plates updates - (+\$2K)<br>2. Grid assy updates - (+\$14K)<br>3. Scope increases for refrigeration - (+129K)                                                                                                                                                                                                                   | Langton                                              | 117,730,617            | 145,402             | 117,876,019  | 150,300,000          | 32,423,981  |
| BCR-005 | 1              | L2              | Approved | Feb-15              | 03/05/15          |                       | Mar-15                                                   | <b>Wavefront Sensor Update</b>                                                                                                                                                                                                                                                                                                                                                   | Riot                                                 | 117,876,019            | 980,464             | 118,856,482  | 150,300,000          | 31,443,518  |
| BCR-006 | 3              | L3              | Approved | Feb-15              | 03/26/15          |                       | Mar-15<br>Feb-15<br>May-15                               | <b>February 2015 Baseline Updates</b><br>1. Feb 2015 Replan for work sequencing/resource allocation - (+\$101K)<br>2. Feb 2015 L1_L2 award update for phase 2 - (+3K)<br>3. Feb 2015 Sensor IN2P3 funding update - (+\$0)                                                                                                                                                        | Kurita                                               | 118,856,482            | 103,838             | 118,960,320  | 150,300,000          | 31,339,680  |
| BCR-007 | 1              | L3              | Approved | Mar-15              | 04/30/15          |                       | Apr-15                                                   | <b>CCS Core 3.0 Release Baseline Updates</b>                                                                                                                                                                                                                                                                                                                                     | Johnson                                              | 118,960,320            | (0)                 | 118,960,320  | 150,300,000          | 31,339,680  |
| BCR-008 | 1              | L3              | Approved | Apr-15              | 05/11/15          |                       | Apr-15                                                   | <b>Baseline Re-Plan (Buy-off) Correction</b>                                                                                                                                                                                                                                                                                                                                     | Wahl                                                 | 118,960,320            | 92,752              | 119,053,072  | 150,300,000          | 31,246,928  |
| BCR-009 | 3              | L3              | Approved | Apr-15              | 06/02/15          |                       | Jul-15<br>Jul-15<br>May-15                               | <b>April 2015 Baseline Changes</b><br>1. Cryostat Grid Procurement award - (\$+341K)<br>2. Refrigeration System Changes - (\$+222K)<br>3. Misc replanning updates - (\$+32K)                                                                                                                                                                                                     | Langton                                              | 119,053,072            | 595,189             | 119,648,261  | 150,300,000          | 30,651,739  |
| BCR-010 | 3              | L3              | Approved | May-15              | 06/17/15          |                       | Jul-15<br>Aug-15<br>N/A                                  | <b>CCS eManufacturing Baseline Update</b><br>1. CCS Planning Package planning - (-\$.02K)<br>2. Fixed cryostat links into I&T - (+\$7.4K)<br>3. DAQ activity name change - (\$0K)                                                                                                                                                                                                | Johnson                                              | 119,648,261            | (7,438)             | 119,640,824  | 150,300,000          | 30,659,176  |
| BCR-011 | 2              | L2              | Approved | Jun-15              | 07/20/15          |                       | Jun-15<br>Aug-15                                         | <b>June 2015 Baseline Updates</b><br>1. L3 Vendor Award Updates (1\$1,649K)<br>2. Updates links between CCS/DAQ/Science Raft (+\$20K)                                                                                                                                                                                                                                            | Multiple                                             | 119,640,824            | (1,629,387)         | 118,011,436  | 150,300,000          | 32,288,564  |
| BCR-012 | 1              | L3              | Approved | Jul-15              | 08/26/15          |                       | Aug-15                                                   | <b>Cryostat Refrigeration System July Baseline Updates</b>                                                                                                                                                                                                                                                                                                                       | Langton                                              | 118,011,436            | 112,035             | 118,123,471  | 150,300,000          | 32,176,529  |
| BCR-013 | 4              | L3              | Approved | Aug-15              | 09/29/15          |                       | Oct-15<br>Jul-16<br>Oct-15<br>Oct-15<br>N/A              | <b>August Baseline Updates</b><br>1. CCS - Image Display (+\$31K)<br>2. DAQ - 3.1 version moved to 3.0 (+\$1K)<br>3. PM - PMCS Support (+\$41K)<br>4. Sensor - Vendor Updates (-\$243K)<br>5. Milestone Updates (+\$0K)                                                                                                                                                          | Johnson<br>Huffer<br>Kurita<br>Wahl/Riot<br>Multiple | 118,123,471            | (170,204)           | 117,953,267  | 150,300,000          | 32,346,733  |
| BCR-014 | 1              | L3              | Approved | Sep-15              | 10/29/15          |                       | Oct-15                                                   | <b>September Admin Changes</b>                                                                                                                                                                                                                                                                                                                                                   | Wahl                                                 | 117,953,267            | (1,379,662)         | 116,573,605  | 150,300,000          | 33,726,395  |
| BCR-015 | 1              | L3              | Approved | Sep-15              | 10/29/15          |                       | Oct-15                                                   | <b>September Admin Changes</b>                                                                                                                                                                                                                                                                                                                                                   | Wahl                                                 | 116,573,605            | 1,379,662           | 117,953,267  | 150,300,000          | 32,346,733  |
| BCR-016 | 5              | L2              | Approved | Sep-15              | 11/02/15          |                       | Nov-15<br>Sep-15<br>Oct-15<br>Nov-15<br>Nov-15           | <b>September Baseline Updates</b><br>1. Corner Raft Cold Test Station (+301K)<br>2. RSA Baseplate (+62K)<br>3. CCS Planning Package (+0K)<br>4. REB Updates (+893K)<br>5. L1 L2 Ball Contract Mod (+420K)                                                                                                                                                                        | Riot<br>Wahl<br>Johnson<br>Wahl<br>Winters           | 117,953,267            | 1,675,207           | 119,628,474  | 150,300,000          | 30,671,526  |

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|---------|----------------|-----------------|----------|---------------------|-------------------|-----------------------|--------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|------------------------|---------------------|--------------|----------------------|-------------|
|         |                |                 |          |                     |                   |                       |                                                                    |                                                                                                                                                                                                                                                                                                                                                                                 |                                                  | Previous Baseline      | Increase (Decrease) | New Baseline | TEC Baseline         | Contingency |
| BCR-017 | 4              | L3              | Approved | Oct-15              | 11/17/15          |                       | Oct-15<br>Oct-15<br>N/A<br>N/A                                     | <b>Oct15 Vendor Updates, New Milestones</b><br>1. Grid Contract Update (+54K)<br>2. Vendor Award Update (+42K)<br>3. Interface Milestones (+0K)<br>4. Milestone Corrections (+0K)                                                                                                                                                                                               | Langton<br>Nordby/Riot<br>Huffer<br>Wahl/Winters | 119,628,474            | 95,740              | 119,724,214  | 150,300,000          | 30,575,786  |
| BCR-018 | 2              | L2              | Approved | Oct-15              | 11/24/15          |                       | Oct-15<br>Oct-15                                                   | <b>October Scope Updates</b><br>1. Science Raft material scope (-1,095K)<br>2. CRYO Assembly/Alignment Scope (-387K)                                                                                                                                                                                                                                                            | Wahl<br>Langton                                  | 119,724,214            | (1,481,913)         | 118,242,301  | 150,300,000          | 32,057,699  |
| BCR-019 | 3              | L2              | Approved | Oct-15              | 11/30/15          |                       | Oct-15<br>Nov-15<br>N/A                                            | <b>October 2015 Baseline Updates</b><br>1. Optics Scope Updates (+1,549K)<br>2. Cryostat Assembly & Alignment Scope Reduction - (+360K)<br>3. Updates to milestones - (+0K)                                                                                                                                                                                                     | Winters<br>Langton                               | 118,242,301            | 1,909,485           | 120,151,786  | 150,300,000          | 30,148,214  |
| BCR-020 | 5              | L2              | Approved | Nov-15              | 12/22/15          |                       | Dec-15<br>May-16<br>Jan-16<br>Nov-15<br>N/A                        | <b>November 2015 Baseline Updates</b><br>1. Shutter ETU Dev (+216K)<br>2. BBAR Coating Contract (+23K)<br>3. Science Sensor/Raft Updates (+2,957K)<br>4. Cryostat Updates (+1,185K)<br>5. Admin Updates (+0K)                                                                                                                                                                   | Nordby<br>Winters<br>Wahl<br>Langton<br>Multiple | 120,151,786            | 4,380,468           | 124,532,254  | 150,300,000          | 25,767,746  |
| BCR-021 | 3              | L3              | Approved | Dec-15              | 01/27/16          |                       | Oct-15<br>Jan-15                                                   | <b>December 2015 FY16 Rate Updates</b><br>1&2 FY16 Resource Updates (-178K)<br>3. FY16 Rate Updates, Jan15+ for JCC (-197K)                                                                                                                                                                                                                                                     | Brackett                                         | 124,532,254            | (375,206)           | 124,157,048  | 150,300,000          | 26,142,952  |
| BCR-022 | 2              | L3              | Approved | Dec-15              | 01/28/16          |                       | Feb-16<br>Mar-16                                                   | <b>December 2015 Baseline Updates</b><br>1. Planning Package Updates (+22K)<br>2. Wavefront Sensor Update (+0K)                                                                                                                                                                                                                                                                 | Kurita                                           | 124,157,048            | 22,116              | 124,179,164  | 150,300,000          | 26,120,836  |
| BCR-023 | 6              | L3              | Approved | Feb-16              | 03/21/16          |                       | Feb-16<br>Feb-16<br>Feb-16<br>Feb-16<br>Feb-16<br>Mar-16           | <b>February 2016 I&amp;T Replan</b><br>1) I&T Integration and Management (+\$114K)<br>2) Verification Test Systems (+\$235K)<br>3) Cryostat I&T (-\$347K)<br>4) Camera I&T (-\$30K)<br>5) Transportation & Storage Equipment (+\$280K)<br>6) Phasing impacts on other sub-systems: (+\$3K)                                                                                      | Kurita                                           | 124,179,164            | 254,747             | 124,433,911  | 150,300,000          | 25,866,089  |
| BCR-024 | 3              | L3              | Approved | Feb-16              | 03/24/16          |                       | May-16<br>N/A<br>Feb-16                                            | <b>February 2016 Planning Packages Update</b><br>1. Planning Package Conversions and Updates (+\$6,355)<br>2. Updated links in CCS & I&T - (\$0K)<br>3. Renamed activity and fixed durations (-\$169)                                                                                                                                                                           | Kurita                                           | 124,433,911            | 6,186               | 124,440,097  | 150,300,000          | 25,859,903  |
| BCR-025 | 1              | L2              | Approved | Mar-16              | 04/27/16          |                       | N/A                                                                | <b>March 2016 Level 2 Milestone Update</b>                                                                                                                                                                                                                                                                                                                                      | Kurita                                           | 124,440,097            | 0                   | 124,440,097  | 150,300,000          | 25,859,903  |
| BCR-026 | 6              | L3              | Approved | Mar-16              | 04/27/16          |                       | Aug-16<br>Jun-16<br>Jun-16<br>Apr-17<br>May-16<br>Apr-16           | <b>March 2016 Baseline Updates</b><br>1) Science Raft Integration Replan (+\$7,570)<br>2) Science Raft Baseplate Update (+\$10,154)<br>3) Science Raft ETU#1 Replan (\$29)<br>4) Cryostat IRR Fix (\$951)<br>5) Planning Package Updates (\$10,575)<br>6) Administrative/Correction (\$969)                                                                                     | Kurita                                           | 124,440,097            | 29,271              | 124,469,368  | 150,300,000          | 25,830,632  |
| BCR-027 | 1              | L3              | Approved | Apr-16              | 05/13/16          |                       | N/A                                                                | <b>Change CAM in WBS 3.08</b>                                                                                                                                                                                                                                                                                                                                                   | Kurita                                           | 124,469,368            | 0                   | 124,469,368  | 150,300,000          | 25,830,632  |
| BCR-028 | 7              | L3              | Approved | Apr-16              | 05/26/16          |                       | May-16<br>Jul-16<br>Apr-16<br>Apr-16<br>Apr-16<br>May-16<br>Apr-16 | <b>April 2016 Baseline Updates</b><br>1) New Scope, Contamination cord/MTF support (+\$188K)<br>2) New Scope, Cold Test-Stand Capability (+\$87K)<br>3) Descope, Single Bay Metrology Stand (-\$430K)<br>4) SR Elec New Scope (+\$383K)<br>5) Optics Award Updates (+\$143K)<br>6) New Scope, Addnl Structural/Thermal Analysis (+\$76)<br>7) Planning Package Updates (+\$44K) | Kurita                                           | 124,469,368            | 490,973             | 124,960,341  | 150,300,000          | 25,339,659  |
| BCR-029 | 4              | L3              | Approved | May-16              | 06/30/16          |                       | Jun-16<br>Aug-16<br>Jun-16<br>Jul-16                               | <b>May 2016 Baseline Updates</b><br>1) New Scope, Filter 3mm move (+\$95K)<br>2) New Scope, CCS Integration Gantry (+\$132K)<br>3) Base Plate AWARD Planning (+\$179K)<br>4) Planning Package Updates (+\$4K)                                                                                                                                                                   | Kurita                                           | 124,960,341            | 409,809             | 125,370,150  | 150,300,000          | 24,929,850  |

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|---------|----------------|-----------------|----------|---------------------|-------------------|-----------------------|----------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------------------------|---------------------|--------------|----------------------|-------------|
|         |                |                 |          |                     |                   |                       |                                                          |                                                                                                                                                                                                                                                                                                    |            | Previous Baseline      | Increase (Decrease) | New Baseline | TEC Baseline         | Contingency |
| BCR-030 | 3              | L3              | Approved | Jun-16              | 08/08/16          |                       | Jun-16<br>Jun-16<br>Jul-16                               | <b>June 2016 Baseline Updates</b><br>1) L1_L2 Replan (+\$160)<br>2) Award of Wavefront Sensor contract (+\$0)<br>3) Planning Package Updates (+\$0)                                                                                                                                                | Kurita     | 125,370,150            | 160                 | 125,370,310  | 150,300,000          | 24,929,690  |
| BCR-031 | 4              | L3              | Approved | Jul-16              | 08/24/16          |                       | Jul-16<br>Oct-16<br>Jul-16<br>Oct-16                     | <b>July 2016 Baseline Updates</b><br>1) Sensor, Optics & Cryo Award/Contract Updates (+\$511K)<br>2) Addition of 2nd Back Flange Scope (+\$214K)<br>3) DAQ Replan (\$19K)<br>4) Planning Package Updates (+\$41K)                                                                                  | Kurita     | 125,370,310            | 784,895             | 126,155,205  | 150,300,000          | 24,144,795  |
| BCR-032 | 1              | L3              | Approved | Aug-16              | 09/01/16          |                       | N/A                                                      | <b>Change PM and change CAM in WBS 3.01 &amp; 3.03.02.02</b>                                                                                                                                                                                                                                       | Riot       | 126,155,205            | 0                   | 126,155,205  | 150,300,000          | 24,144,795  |
| BCR-033 | 1              | L3              | Approved | Aug-16              | 09/15/16          |                       | Aug-16                                                   | <b>Removal of SBEO scope from I&amp;T</b>                                                                                                                                                                                                                                                          | Riot       | 126,155,205            | (87,370)            | 126,067,834  | 150,300,000          | 24,232,166  |
| BCR-034 | 6              | L2              | Approved | Aug-16              | 09/29/16          |                       | Sep-16<br>Oct-16<br>Nov-16<br>Oct-16<br>Sep-16<br>Oct-16 | <b>August Baseline Updates</b><br>1) CR New scope for TS-7 & TS-8 (+\$268K)<br>2) Award updates (+\$64K)<br>3) I&T new scope for SBMS (+\$270K)<br>4) PM new scope for PMCS (+\$161K)<br>5) CR new scope for electronics firmware (+\$27K)<br>6) Planning Package Updates (+\$1K)                  | Riot       | 126,067,834            | 790,663             | 126,858,498  | 150,300,000          | 23,441,502  |
| BCR-035 | 1              | L1              | Approved | Aug-16              | 10/17/16          |                       | N/A                                                      | <b>Administrative BCR - Level 1 Baseline Change Review - reaching \$10M threshold of contingency use.</b>                                                                                                                                                                                          | Riot       | 126,858,498            | 0                   | 126,858,498  | 150,300,000          | 23,441,502  |
| BCR-036 | 5              | L3              | Approved | Sep-16              | 10/31/16          |                       | Sep-16<br>Nov-16<br><br>Sep-16<br><br>Sep-16<br>Nov-16   | <b>September Baseline Updates</b><br>1) Award of CR Baseplate Hardware (+\$25K)<br>2) New Scope per LCN-1662: CCS Supt, Rotator, I&T Displays (+\$187K)<br>3) Award of BBAR Coating and new scope per LCN-1680 (+\$162K)<br>4) Shutter FDR Replan (-\$6K)<br>5) Planning Package Updates (+\$0.2K) | Riot       | 126,858,498            | 367,570             | 127,226,067  | 150,300,000          | 23,073,933  |
| BCR-037 | 1              | L3              | Approved | Oct-16              | 11/07/16          |                       | Oct-16                                                   | <b>Change CAM in WBS 3.03.02.02 and WADs update</b>                                                                                                                                                                                                                                                | Riot       | 127,226,067            | 0                   | 127,226,067  | 150,300,000          | 23,073,933  |
| BCR-038 | 1              | L2              | Approved | Oct-16              | 11/03/16          |                       | Oct-16                                                   | <b>October 2016 Level 2 Milestones Update</b>                                                                                                                                                                                                                                                      | Riot       | 127,226,067            | 0                   | 127,226,067  | 150,300,000          | 23,073,933  |
| BCR-039 | 1              | L2              | Approved | Oct-16              | 11/07/16          |                       | Oct-16                                                   | <b>Oct16 - LSST Re-Org Updates</b>                                                                                                                                                                                                                                                                 | Riot       | 127,226,067            | 971,317             | 128,197,385  | 150,300,000          | 22,102,615  |
| BCR-040 | 5              | L3              | Approved | Oct-16              | 12/05/16          |                       | Oct-16<br>Oct-16<br>May-17<br>Dec-16<br>Dec-16           | <b>October 2016 Baseline Updates</b><br>1) Sensor CAM Scope (+\$299K)<br>2) SR Scope Changes (+\$292K)<br>3) CBM testing scope (+\$67K)<br>4) AE add'l boards (+\$55K)<br>5) Planning Package Updates (+\$0.5K)                                                                                    | Riot       | 128,197,385            | 714,237             | 128,911,621  | 150,300,000          | 21,388,379  |
| BCR-041 | 3              | L2              | Approved | Nov-16              | 01/05/17          |                       | Nov-16<br>Dec-16<br>Jan-17                               | <b>November 2016 Baseline Updates</b><br>1) Sensor Replan (+\$2,200K)<br>2) New Scope/LCN-1731, Baseplate (+\$44K)<br>3) Planning Package Updates (+\$33K)                                                                                                                                         | Riot       | 128,911,621            | 2,276,559           | 131,188,181  | 150,300,000          | 19,111,819  |
| BCR-042 | 1              | L3              | Approved | Dec-16              | 01/31/17          |                       | Dec-16                                                   | <b>Change CAM in WBS 3.06.04 and WBS 3.06.05</b>                                                                                                                                                                                                                                                   | Riot       | 131,188,181            | 0                   | 131,188,181  | 150,300,000          | 19,111,819  |
| BCR-043 | 2              | L3              | Approved | Dec-16              | 01/24/17          | Jan-17                | Jan-17<br>Feb-17                                         | <b>December 2016 Baseline Updates</b><br>1) L1_L2 Scope Update, LCN-1720 (+\$74K)<br>2) Planning Package Updates (+\$1K)                                                                                                                                                                           | Riot       | 131,188,181            | 74,593              | 131,262,774  | 150,300,000          | 19,037,226  |
| BCR-044 | 1              | L3              | Approved | Jan-17              | 02/23/17          | Feb-17                | Jan-16                                                   | <b>January 2017 FY17 Rate Update</b>                                                                                                                                                                                                                                                               | Riot       | 131,262,774            | (143,299)           | 131,119,475  | 150,300,000          | 19,180,525  |

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|         |                |                 |          |                     |                   |                       |                                                          |                                                                                                                                                                                                                                                                                                                                                          |            | Previous Baseline      | Increase (Decrease) | New Baseline | TEC Baseline         | Contingency |
| BCR-045 | 2              | L3              | Approved | Jan-17              | 02/23/17          | Feb-17                | Jan-17<br>Mar-17                                         | <b>January 2017 Baseline Updates</b><br>1) CCS Resource Change (+\$132K)<br>2) Planning Package Updates (+\$0K)                                                                                                                                                                                                                                          | Riot       | 131,119,475            | 132,169             | 131,251,644  | 150,300,000          | 19,048,356  |
| BCR-046 | 1              | L3              | Approved | Feb-17              | 03/17/17          | Mar-17                | May-17                                                   | <b>February 2017 ComCam Replan</b>                                                                                                                                                                                                                                                                                                                       | Riot       | 131,251,644            | (49,957)            | 131,201,687  | 150,300,000          | 19,098,313  |
| BCR-047 | 3              | L3              | Approved | Feb-17              | 03/23/17          | Mar-17                | Mar-17<br>Feb-17<br>Mar-17                               | <b>February 2017 Baseline Updates</b><br>1) Optics Vendor Contract Mod (+\$1K)<br>2) Sensor V1 Award Update (+\$0K)<br>3) Planning Package Updates (+\$38K)                                                                                                                                                                                              | Riot       | 131,201,687            | 39,102              | 131,240,789  | 150,300,000          | 19,059,211  |
| BCR-048 | 1              | L3              | Approved | Feb-17              | 03/19/17          | Mar-17                | Mar-17                                                   | <b>February 2017 Cryostat Refrigeration Replan</b>                                                                                                                                                                                                                                                                                                       | Riot       | 131,240,789            | 1,550,439           | 132,791,229  | 150,300,000          | 17,508,771  |
| BCR-049 | 6              | L3              | Approved | Mar-17              | 04/20/17          | Apr-17                | Apr-17<br>Mar-17<br>Apr-17<br>Apr-17<br>Oct-17<br>May-17 | <b>March 2017 Baseline Updates</b><br>1) Science Raft Enhanced Shipping (+\$224K)<br>2) Optics - Award update for Filter Frames (+\$115K)<br>3) B33 and B660 Security Upgrade (+49K)<br>4) Improved Flex Cables for ITL Science Rafts (+\$188K)<br>5) CCS New Travel Scope to Support IN2P3 (+\$58K)<br>6) Planning Package Updates/WP Corrections (+1K) | Riot       | 132,791,229            | 633,813             | 133,425,042  | 150,300,000          | 16,874,958  |
| BCR-050 | 2              | L3              | Approved | Apr-17              | 05/25/17          | May-17                | Feb-18<br>Apr-17                                         | <b>April 2017 Bonus &amp; Sensor Changes</b><br>1) Outstanding Performance Annual Bonus (+\$152K)<br>2) INSP3 Contribution(-\$577K)                                                                                                                                                                                                                      | Riot       | 133,425,042            | (424,430)           | 133,000,612  | 150,300,000          | 17,299,388  |
| BCR-051 | 4              | L3              | Approved | Apr-17              | 05/25/17          | May-17                | Jul-17<br><br>May-17<br><br>May-17<br><br>Apr-17         | <b>April 2017 Baseline Changes</b><br>1) Integrated Thermal Analysis in support of Refrigeration requirements updates (+\$36K)<br>2) IR2 Pump/Leak Check Cart and MF06 for RAFT's (+\$72K)<br>3) Additional REB5 Boards and Refurbishment of REB Production RGA Station (+\$67K)<br>4) Planning Package Updates (+\$0K)                                  | Riot       | 133,000,612            | 174,451             | 133,175,062  | 150,300,000          | 17,124,938  |
| BCR-052 | 1              | L2              | Approved | Apr-17              | 05/23/17          | May-17                | Jun-17                                                   | <b>April 2017 ITL Long lead Material Supplement Yield Mitigation</b>                                                                                                                                                                                                                                                                                     | Riot       | 133,175,062            | 494,016             | 133,669,078  | 150,300,000          | 16,630,922  |
| BCR-053 | 2              | L3              | Approved | May-17              | 06/19/17          | Jun-17                | Jun-17<br>May-17                                         | <b>May 2017 Utility Trunk and BOT Material Replan</b><br>1) Utility Trunk Replan (+\$333K)<br>2) BOT Material Replan (+\$2k)                                                                                                                                                                                                                             | Riot       | 133,669,078            | 334,349             | 134,003,427  | 150,300,000          | 16,296,573  |
| BCR-054 | 3              | L3              | Approved | May-17              | 6/22/17           | Jun-17                | Jun-17<br>Aug-17<br>Aug-17                               | <b>May 2017 Baseline Updates</b><br>1) Optics Scope Increases (+\$207K)<br>2) AWARD of Back Flange Contract (+36K)<br>3) Planning Package Updates (+\$8K)                                                                                                                                                                                                | Riot       | 134,003,427            | 252,003             | 134,255,430  | 150,300,000          | 16,044,570  |
| BCR-055 | 1              | L3              | Approved | Jun-17              | 06/29/17          | Jun-17                | Jun-17                                                   | <b>Change CAM and WADs update for I&amp;T Control Accounts</b>                                                                                                                                                                                                                                                                                           | Riot       | 134,255,430            | 0                   | 134,255,430  | 150,300,000          | 16,044,570  |
| BCR-056 | 3              | L3              | Approved | Jun-17              | 06/28/17          | Jun-17                | Nov-17<br>Jul-17<br>Nov-17                               | <b>Jun 2017 Baseline Updates</b><br>1) Camera Housing Award and Scope Update (+\$36K)<br>2) DAQ SATA Firmware (+\$44K)<br>3) I&T Full Camera Shipping Plan (+\$10K)                                                                                                                                                                                      | Riot       | 134,255,430            | 91,097              | 134,346,528  | 150,300,000          | 15,953,472  |
| BCR-057 | 2              | L3              | Approved | Jun-17              | 07/18/17          | Jul-17                | Jun-17<br>Sep-17                                         | <b>June 2017 Baseline Updates</b><br>1) E2v Sensor Replan (-\$266K)<br>2) Planning Package Updates (+3K)                                                                                                                                                                                                                                                 | Riot       | 134,346,528            | (263,376)           | 134,083,152  | 150,300,000          | 16,216,848  |
| BCR-058 | 1              | L3              | Approved | Jun-17              | 07/21/17          | Jul-17                | N/A                                                      | <b>June 2017 Level 3 Milestone Update</b>                                                                                                                                                                                                                                                                                                                | Riot       | 134,083,152            | 0                   | 134,083,152  | 150,300,000          | 16,216,848  |
| BCR-059 | 3              | L3              | Approved | Jul-17              | 08/17/17          | Aug-17                | Sep-17<br>Sep-17<br>Oct-17                               | <b>July 2017 Baseline Updates</b><br>1) Transition to Operations Planning Efforts (+\$499K)<br>2) E2v Letter of Credit (+\$37K)<br>3) Planning Package Updates (+\$15K)                                                                                                                                                                                  | Riot       | 134,083,152            | 550,886             | 134,634,038  | 150,300,000          | 15,665,962  |
| BCR-060 | 1              | L2              | Approved | Aug-17              | 08/29/17          | Aug-17                | Oct-17                                                   | <b>August 2017 Level 2 Milestone Update</b>                                                                                                                                                                                                                                                                                                              | Riot       | 134,634,038            | 1,306               | 134,635,344  | 150,300,000          | 15,664,656  |

**LSST CCB Log  
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| BCR #   | Qty of Changes | Signature Level | Status   | BCR Reporting Month | BCR Approval Date | Implementation Period | Start of Work Period                           | BCR Description                                                                                                                                                                                                                                                     | Originator | TEC Base Cost Estimate |                     |              | Contingency Analysis |             |
|---------|----------------|-----------------|----------|---------------------|-------------------|-----------------------|------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------------------------|---------------------|--------------|----------------------|-------------|
|         |                |                 |          |                     |                   |                       |                                                |                                                                                                                                                                                                                                                                     |            | Previous Baseline      | Increase (Decrease) | New Baseline | TEC Baseline         | Contingency |
| BCR-061 | 5              | L3              | Approved | Aug-17              | 09/19/17          | Sep-17                | Oct-17<br>Oct-17<br>Oct-17<br>Oct-17<br>Nov-17 | <b>Aug 2017 Baseline Updates</b><br>1) Contamination and MTF Support for FY18 (+\$84K)<br>2) PMCS Support for FY18 (+\$190K)<br>3) Travel for UK collaborators to suprt CCS team (+\$29K)<br>4) Work Package Updates (-\$0K)<br>5) Planning Package Updates (+\$5K) | Riot       | 134,635,344            | 308,828             | 134,944,172  | 150,300,000          | 15,355,828  |
| BCR-062 | 1              | L3              | Approved | Oct-17              | 10/26/17          | Oct-17                | Oct-17                                         | <b>Oct17 Admin, CAMs Change &amp; WADs Approval for SI, CRS &amp; CBS</b>                                                                                                                                                                                           | Riot       | 134,944,172            | 0                   | 134,944,172  | 150,300,000          | 15,355,828  |
| BCR-063 | 1              | L3              | Approved | Sep-17              | 10/09/17          | Oct-17                | Dec-17                                         | <b>Sep17 L1_L2 Scope Update</b>                                                                                                                                                                                                                                     | Winters    | 134,944,172            | 41,730              | 134,985,902  | 150,300,000          | 15,314,098  |
| BCR-064 | 1              | L2              | Approved | Sep-17              | 10/19/17          | Oct-17                | Aug-17                                         | <b>PM and Sub-System CAM Re-Org</b>                                                                                                                                                                                                                                 | Riot       | 134,985,902            | 1,027,886           | 136,013,789  | 150,300,000          | 14,286,211  |
| BCR-065 | 2              | L2              | Approved | Oct-17              | 11/28/17          | Nov-17                | Feb-18                                         | <b>Oct 2017 Baseline Updates</b><br>1) Optics L2 Milestone Change<br>2) Sensor Vendor Award                                                                                                                                                                         | Riot       | 136,013,789            | 2,150,446           | 138,164,235  | 150,300,000          | 12,135,765  |
| BCR-066 | 4              | L3              | Approved | Oct-17              | 11/28/17          | Nov-17                | Nov-17<br>Nov-17<br>Nov-17<br>Dec-17           | <b>Oct 2017 Baseline Updates</b><br>1) E2V Fall-out Sensor for I&T (+\$21K)<br>2) COB Hardware Components (+\$105K)<br>3) SR Sub-System Scientist & Deputy PM (+\$348K)<br>4) Planning Package Updates (+\$1K)                                                      | Riot       | 138,164,235            | 475,601             | 138,639,836  | 150,300,000          | 11,660,164  |
| BCR-067 | 1              | L3              | Approved | Nov-17              | 12/21/17          | Dec-17                | Oct-16                                         | <b>November 17 Baseline Update - FY18 Rate Updates</b>                                                                                                                                                                                                              | Brackett   | 138,639,836            | 288,777             | 138,928,613  | 150,300,000          | 11,371,387  |
| BCR-068 | 4              | L2              | Approved | Nov-17              | 01/16/18          | Jan-18                | Dec-17<br>Dec-17<br>Nov-17<br>Jan-18           | <b>Nov 2017 Baseline Updates</b><br>1) UT Quad Box (+\$172K)<br>2) Cryo Cold System (+\$124K)<br>3) Cryostat Replan and AWARD Updates (+\$734K)<br>4) Planning Package Updates (-\$1K)                                                                              | Riot       | 138,928,613            | 1,029,317           | 139,957,930  | 150,300,000          | 10,342,070  |
| BCR-069 | 2              | L2              | Approved | Dec-17              | 01/16/18          | Jan-18                | Dec-17<br>Dec-17                               | <b>Dec 2017 Baseline Updates</b><br>1) Descope of Shipping Container (-\$479K)<br>2) Descope of Commissioning Baseline Planning (-\$247K)                                                                                                                           | Reil       | 139,957,930            | (725,764)           | 139,232,166  | 150,300,000          | 11,067,834  |
| BCR-070 | 5              | L3              | Approved | Dec-17              | 01/26/18          | Jan-18                | Feb-18<br>Jun-18<br>Jan-18<br>Dec-17<br>Dec-17 | <b>Dec 2017 Baseline Updates</b><br>1) DAQ Guiding Data System (+\$168K)<br>2) IN2P3 (French Contribution) Update (-\$215K)<br>3) L1_L2 Lens Shipping Change (+\$83K)<br>4) Augmented I&T BOT and Gantry Testing (+\$118K)<br>5) Planning Package Updates (-\$26K)  | Riot       | 139,232,166            | 128,688             | 139,360,854  | 150,300,000          | 10,939,146  |
| BCR-071 | 3              | L3              | Approved | Jan-18              | 02/22/18          | Feb-18                | Feb-18<br>Mar-18<br>Mar-18                     | <b>Jan 2018 Baseline Updates</b><br>1) IR2 Services Upgrades (+\$100K)<br>2) Corner Raft Rephase (+1K)<br>3) Planning Package Updates (+1K)                                                                                                                         | Riot       | 139,360,854            | 102,308             | 139,463,162  | 150,300,000          | 10,836,838  |

**LSST CCB Log  
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| BCR #   | Qty of Changes | Signature Level | Status   | BCR Reporting Month | BCR Approval Date | Implementation Period | Start of Work Period                           | BCR Description                                                                                                                                                                                                                                                                                     | Originator | TEC Base Cost Estimate |                     |              | Contingency Analysis |             |
|---------|----------------|-----------------|----------|---------------------|-------------------|-----------------------|------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------------------------|---------------------|--------------|----------------------|-------------|
|         |                |                 |          |                     |                   |                       |                                                |                                                                                                                                                                                                                                                                                                     |            | Previous Baseline      | Increase (Decrease) | New Baseline | TEC Baseline         | Contingency |
| BCR-072 | 5              | L3              | Approved | Feb-18              | 03/20/18          | Mar-18                | Mar-18<br>Mar-18<br>Mar-18<br>Mar-18<br>Apr-18 | <b>Feb 2018 Baseline Updates</b><br>1) ETU#1 REB Upgrade - (+\$25K)<br>2) Award of Shutter Blade Contract - (+\$108K)<br>3) Aux Elec Design Support - (+\$111K)<br>4) ION Pump Controller/Elec Hardware - (+\$117K)<br>5) Planning Package Updates - (+\$5K)                                        | Riot       | 139,463,162            | 365,759             | 139,828,921  | 150,300,000          | 10,471,079  |
| BCR-073 | 1              | L3              | Approved | Mar-18              | 04/10/18          | Apr-18                | Mar-18                                         | <b>Mar 2018 Baseline Updates - Admin Change</b><br>1) Change CAMs and WADs update for Optics Control Accounts from Scott Winters to Justin Wolfe                                                                                                                                                    | Riot       | 139,828,921            | 0                   | 139,828,921  | 150,300,000          | 10,471,079  |
| BCR-074 | 1              | L3              | Approved | Mar-18              | 04/24/18          | Apr-18                | Mar-18                                         | <b>Mar 2018 Baseline Updates</b><br>1) Planning Package Updates - (+\$0K)                                                                                                                                                                                                                           | Brackett   | 139,828,921            | 466                 | 139,829,387  | 150,300,000          | 10,470,613  |
| BCR-075 | 1              | L2              | Approved | Apr-18              | 05/21/18          | May-18                | May-18                                         | <b>BCR-075 April 2018 Baseline Updates (Level 2) - (+\$564K)</b>                                                                                                                                                                                                                                    | Riot       | 139,829,387            | 564,302             | 140,393,689  | 150,300,000          | 9,906,311   |
| BCR-076 | 3              | L3              | Approved | Apr-18              | 05/21/18          | May-18                | May-18<br>May-18<br>Jul-18                     | <b>Apr 2018 Baseline Updates - (+\$163K)</b><br>1) Add'l Scope for I&T - (+\$48K)<br>2) Aux Elec Installation Support - (+\$111K)<br>3) Planning Package Updates - (+\$4K)                                                                                                                          | Riot       | 140,393,689            | 162,544             | 140,556,233  | 150,300,000          | 9,743,767   |
| BCR-077 | 4              | L3              | Approved | May-18              | 06/07/18          | Jun-18                | Nov-18<br>Jun-18<br>Jul-18<br>May-18           | <b>May 2018 Baseline Updates - (+\$317K)</b><br>1) Add'l Scope for I&T - (+\$68K)<br>2) Aux Elec Test Support (+\$239K)<br>3) Planning Package Updates - (+\$5K)<br>4) Replan of I&T Camera Handling Equipment (+\$5K)                                                                              | Riot       | 140,556,233            | 317,176             | 140,873,408  | 150,300,000          | 9,426,592   |
| BCR-078 | 1              | L1              | Approved | Jun-18              | 07/23/18          | Jun-18                | N/A                                            | <b>Level 1 Baseline Change Review (+\$0K)</b>                                                                                                                                                                                                                                                       | Riot       | 140,873,408            | 0                   | 140,873,408  | 150,300,000          | 9,426,592   |
| BCR-079 | 1              | L3              | Approved | Jun-18              | 07/25/18          | Jul-18                | Sep-18                                         | <b>June 2018 Baseline Updates - (+\$.099K)</b><br>1) Planning Package Updates - (+\$.099K)                                                                                                                                                                                                          | Riot       | 140,873,408            | 99                  | 140,873,508  | 150,300,000          | 9,426,492   |
| N/A     | 0              | N/A             | Approved | Jul-18              | N/A               | Jul-18                | N/A                                            | <b>Funding transfer from OPC to TEC</b>                                                                                                                                                                                                                                                             | Riot       | 140,873,508            | 0                   | 140,873,508  | 150,532,171          | 9,658,663   |
| BCR-080 | 3              | L3              | Approved | Jul-18              | 08/31/18          | Aug-18                | Aug-18<br>Aug-18<br>Oct-18                     | <b>July 2018 Baseline Updates - (+\$166K)</b><br>1) I&T Scientific Intern Support (+\$32K)<br>2) Cryostat Power Feedthrough (+\$134K)<br>3) Planning Package Updates (+\$0K)                                                                                                                        | Riot       | 140,873,508            | 165,106             | 141,038,614  | 150,532,171          | 9,493,557   |
| BCR-081 | 4              | L3              | Approved | Aug-18              | 09/24/18          | Sep-18                | Sep-18<br>Sep-18<br>N/A<br>Nov-18              | <b>August 2018 Baseline Updates - (+\$147K)</b><br>1) DAQ Programming of REB FPGA - (+\$77K)<br>2) DAQ New Layout for the COB - (+\$71K)<br>3) New Interface Milestones with NSF - (+\$0K)<br>4) Planning Package Updates - (+\$0K)                                                                 | Riot       | 141,038,614            | 147,258             | 141,185,872  | 150,532,171          | 9,346,299   |
| N/A     | 0              | N/A             | Approved | Sep-18              | N/A               | Sep-18                | N/A                                            | <b>Funding transfer from OPC to TEC</b>                                                                                                                                                                                                                                                             | Riot       | 141,185,872            | 0                   | 141,185,872  | 150,583,012          | 9,397,140   |
| BCR-082 | 5              | L3              | Approved | Sep-18              | 10/30/18          | Oct-18                | Oct-18<br>Oct-18<br>Oct-18<br>Oct-18<br>Dec-18 | <b>September 2018 Baseline Updates - (+\$65K)</b><br>1) Cryostat REB Power Feedthrough Cable - (+\$60K)<br>2) Upgrade to Vacuum System Design - (+\$129K)<br>3) SR Upgrade Support-Load Positioner - (+\$31K)<br>4) Descope of Camera Saddle Stand (-155K)<br>5) Planning Package Updates - (+\$0K) | Riot       | 141,185,872            | 64,851              | 141,250,723  | 150,583,012          | 9,332,289   |
| BCR-083 | 1              | L3              | Approved | Oct-18              | 11/27/18          | Oct-18                | Oct-18                                         | <b>October 2018 Rate Update - (+\$66K)</b>                                                                                                                                                                                                                                                          | Riot       | 141,250,723            | 66,267              | 141,316,990  | 150,583,012          | 9,266,022   |

**LSST CCB Log  
(TEC Project Baseline)**

| BCR #   | Qty of Changes | Signature Level | Status   | BCR Reporting Month | BCR Approval Date        | Implementation Period | Start of Work Period                                     | BCR Description                                                                                                                                                                                                                                                                                                                                  | Originator | TEC Base Cost Estimate |                     |              | Contingency Analysis |             |
|---------|----------------|-----------------|----------|---------------------|--------------------------|-----------------------|----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------------------------|---------------------|--------------|----------------------|-------------|
|         |                |                 |          |                     |                          |                       |                                                          |                                                                                                                                                                                                                                                                                                                                                  |            | Previous Baseline      | Increase (Decrease) | New Baseline | TEC Baseline         | Contingency |
| BCR-084 | 6              | L3              | Approved | Oct-18              | 11/30/18<br>2/4/19 (FPD) | Nov-18                | Nov-18<br>Nov-18<br>Nov-18<br>Nov-18<br>Jan-19<br>Oct-18 | <b>October 2018 Baseline Updates - (+\$25K)</b><br>1) IN2P3 (French Contribution) Update - (-\$260K)<br>2) Reconstruction of Science Rafts - (+\$217K)<br>3) New Scope for SR Scientist - (+\$48K)<br>4) New Scope for Vacuum PL Changes (+\$17K)<br>5) Planning Package Updates - (+\$0.5K)<br>6) Activity Replan for IN2P3 Funding - (+\$2.5K) | Riot       | 141,316,990            | 25,357              | 141,342,347  | 150,583,012          | 9,240,665   |
| N/A     | 0              | N/A             | Approved | Nov-18              | N/A                      | Nov-18                | N/A                                                      | <b>Funding transfer from OPC to TEC</b>                                                                                                                                                                                                                                                                                                          | Riot       | 141,342,347            | 0                   | 141,342,347  | 150,585,881          | 9,243,534   |
| BCR-085 | 1              | L3              | Approved | Dec-18              | 01/11/19                 | Dec-18                | Dec-18                                                   | Change CAM and WAD's update for Cryostat & Utility Trunk Control Accounts                                                                                                                                                                                                                                                                        | Riot       | 141,342,347            | 0                   | 141,342,347  | 150,585,881          | 9,243,534   |
| BCR-086 | 1              | L2              | Approved | Jan-19              | 01/31/19                 | Jan-19                | Jan-19                                                   | Jan 2019 Baseline Updates (RTM Replan)                                                                                                                                                                                                                                                                                                           | Riot       | 141,342,347            | 1,215,826           | 142,558,173  | 150,585,881          | 8,027,708   |
| BCR-087 | 2              | L3              | Approved | Jan-19              | 02/27/19                 | Jan-19                | May-19<br>Feb-19                                         | <b>Jan 2019 Baseline Updates</b><br>1) L3 Vendor Contract Update<br>2) Pending BCR Scope Updates                                                                                                                                                                                                                                                 | Riot       | 142,558,173            | 417,430             | 142,975,604  | 150,585,881          | 7,610,278   |
| BCR-088 | 3              | L3              | Approved | Mar-19              | 04/24/19                 | Mar-19                | May-19<br>May-19<br>May-19                               | <b>Mar 2019 Baseline Updates</b><br>1) RTM1 Remediation & Reverification<br>2) Cryostat Eden Contract Update<br>3) Planning Package and Schedule Updates                                                                                                                                                                                         | Riot       | 142,975,604            | 75,858              | 143,051,462  | 150,585,881          | 7,534,419   |
| BCR-089 | 1              | L3              | Approved | Apr-19              | 05/28/19                 | Apr-19                | Jun-19                                                   | <b>Apr 2019 Baseline Updates</b><br>RTM1 Remediation & Reverification                                                                                                                                                                                                                                                                            | Riot       | 143,051,462            | 20,571              | 143,072,033  | 150,585,881          | 7,513,848   |

Qty Total Changes 229

LSST OPC 17,228,889  
LSST TPC 160,300,922

LSST CCB Log  
(TEC Project Baseline)

| BCR Approval Month | Effective Baseline Start Date | BCR Description     | Originator | OPC Base Cost Estimate |                     |              | Contingency Analysis |             |
|--------------------|-------------------------------|---------------------|------------|------------------------|---------------------|--------------|----------------------|-------------|
|                    |                               |                     |            | Previous Baseline      | Increase (Decrease) | New Baseline | OPC Baseline         | Contingency |
| N/A                | N/A                           | CD2 ESAAB Baseline  | Project    | 0                      | 17,228,889          | 17,228,889   | 17,700,000           | 471,111     |
| Jul-18             |                               | OPC transfer to TEC | Project    | 0                      | 17,228,889          | 17,228,889   | 17,467,829           | 238,940     |
| Sep-18             |                               | OPC transfer to TEC | Project    | 0                      | 17,228,889          | 17,228,889   | 17,416,988           | 188,099     |
| Nov-18             |                               | OPC transfer to TEC | Project    | 0                      | 17,228,889          | 17,228,889   | 17,414,119           | 185,230     |
|                    |                               |                     |            |                        |                     |              |                      |             |

|            |       |            |
|------------|-------|------------|
| Check Data | CSSR  | 17,228,889 |
|            | Delta | 0          |