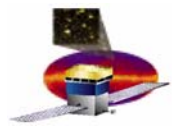


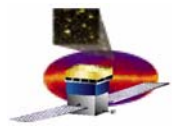
Project Status November 2005 Month End

Lowell A. Klaisner
Project Manager
klaisner@slac.stanford.edu
650-926-2726



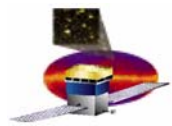
Project Status

- **ACD is integrated**
 - **2 data runs**
 - **ACD data looks good**
 - **Tracking analysis is underway**
- **16 Tower LATTE 4 testing underway**
 - **Anomalies with EGSE, scripts, configurations, etc.**
 - **Power up sequence with the redundant side of TEM 08**
 - **No hardware “show stoppers”**
 - **Approximately 2 weeks behind the last schedule**
- **Checkout FSW FQT going well**
 - **Dick will report**
- **VSC, power rack, etc. functional and installed in building 33**
 - **A few days of verification remain**

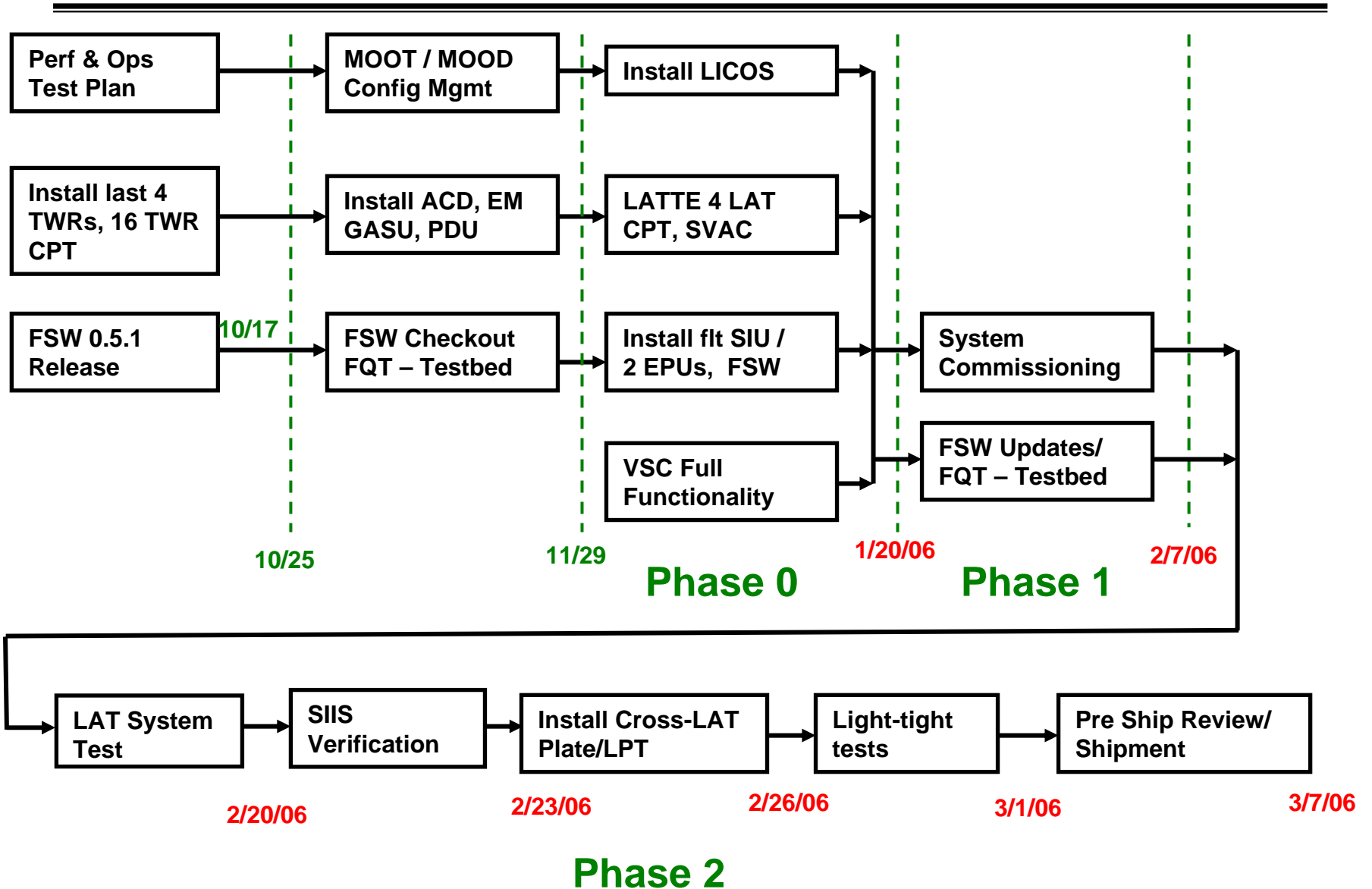


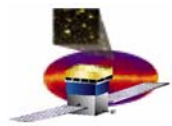
LAT Schedule

- **LAT ships to NRL at the end of February**
- **LAT ships to GA/SASS at the end of June**
- **Major schedule risks**
 - **Working current issues diverts resources from completing work on the next phases**
 - **Staff retention**
 - **Switching to the LICOS/FSW environment**
 - **Any hardware anomalies**
- **Cost risks**
 - **Current burn rate approximately \$1.4M/month**
 - **\$8.8M in contingency**

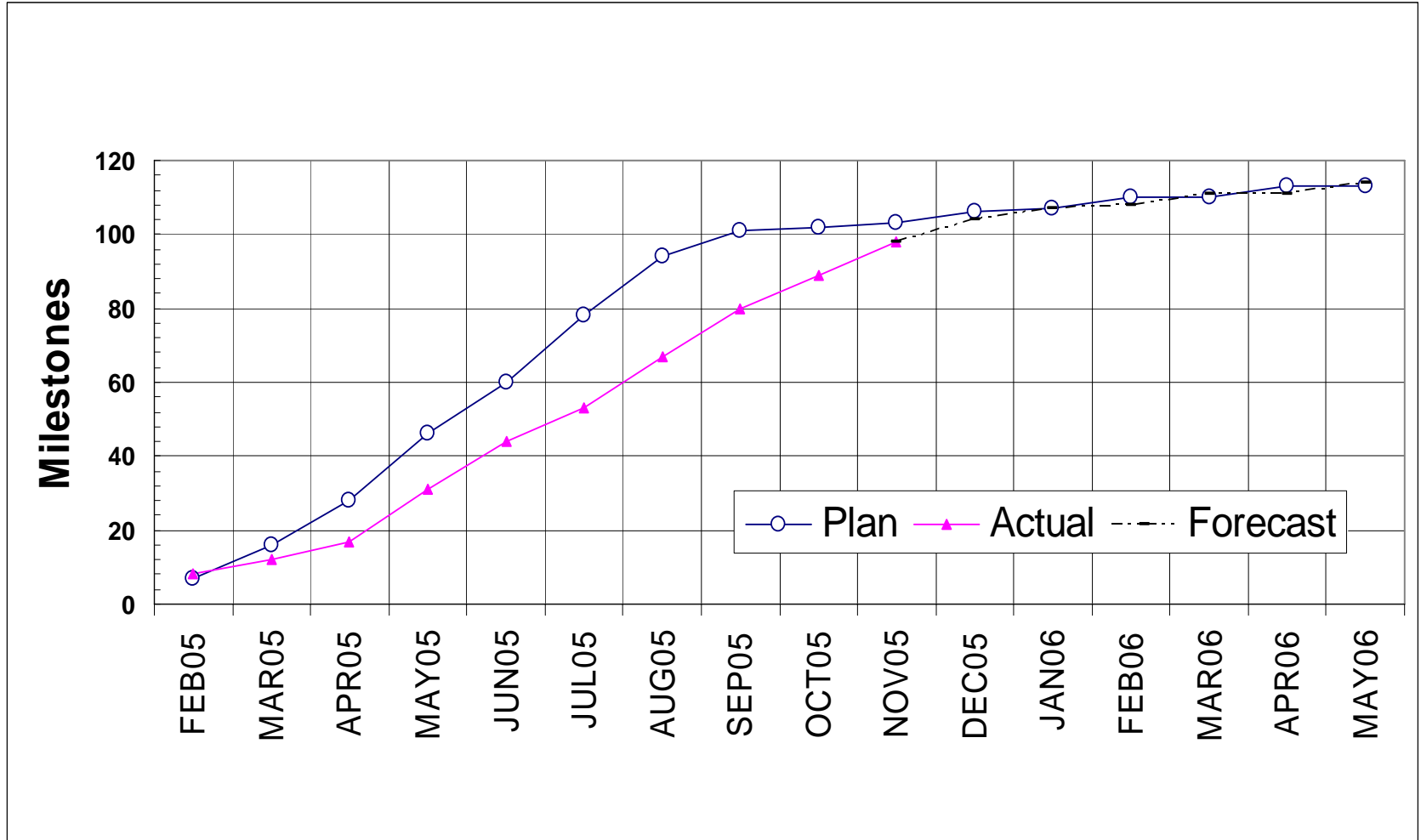


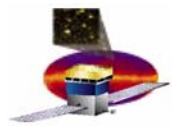
System Test Flow



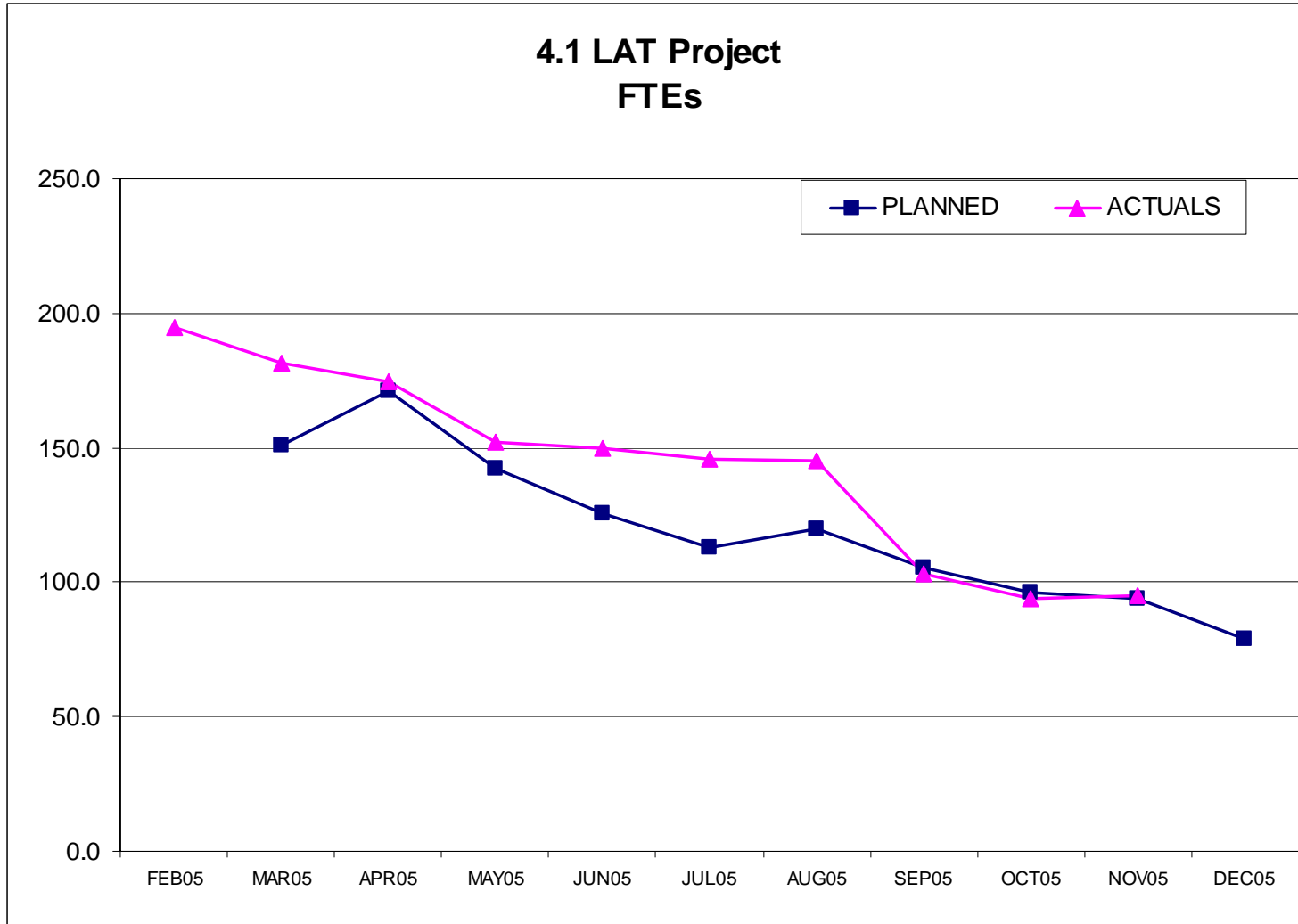


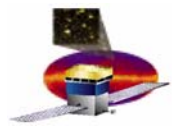
Level 3 Milestone Count





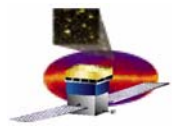
FTE Report (DOE/NASA-funded only)





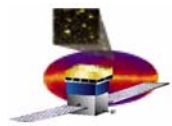
CPR Level 3

| Cost Performance Report - Work Breakdown Structure | | | | | | | | | | | | | |
|--|-------------------|-------------------|---------------------------------------|----------|-----------------------|--------------------|-------------------|------------------------|-------------------------|-------------------------------|--|-------------------------------|----------|
| Contractor: Location: | | | | | | Contract Type/No: | | | Project Name/No: LAT | | Report Period: 10/31/2005 11/30/2005 | | |
| Quantity | Negotiated Cost | | Est. Cost Authorized Unpriced Work | | Tgt. Profit/ Fee % | Tgt. Price | Est Price | Share Ratio | Contract Ceiling | Estimated Contract Ceiling | | | |
| 1 | 0 | | 0 | | 0 | 0.00 | 0 | 0 | 0 | 0 | | | |
| CAPW[3] | Current Period | | | | | Cumulative to Date | | | | | At Completion | | |
| | Budgeted Cost | | Actual Cost Work | Variance | | Budgeted Cost | | Actual Cost Work | Variance | | Budgeted | Latest Revised Estimate | Variance |
| | Work Scheduled | Work Performed | | Schedule | Cost | Work Scheduled | Work Performed | | Schedule | Cost | | | |
| Item | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) | (13) | (14) |
| 4.1.1 INSTRUMENT MANAGEMENT | 403 | 403 | 284 | 0 | 119 | 18,583 | 18,583 | 18,142 | 0 | 441 | 26,656 | 26,656 | 0 |
| 4.1.2 SYSTEM ENGINEERING | 409 | 409 | 261 | 0 | 148 | 8,619 | 8,619 | 8,596 | 0 | 23 | 10,575 | 10,575 | 0 |
| 4.1.4 TRACKER | -737 | -737 | 113 | 0 | -850 | 21,366 | 21,366 | 21,366 | 0 | 0 | 21,486 | 21,486 | 0 |
| 4.1.5 CALORIMETER | 0 | 0 | -2 | 0 | 2 | 21,554 | 21,554 | 21,553 | 0 | 2 | 21,554 | 21,554 | 0 |
| 4.1.6 ANTICOINCIDENCE DETECTOR | 0 | 0 | 0 | 0 | 0 | 18,329 | 18,329 | 18,165 | 0 | 164 | 18,329 | 18,329 | 0 |
| 4.1.7 ELECTRONICS | 254 | 646 | 624 | 392 | 21 | 30,206 | 29,824 | 29,555 | -382 | 269 | 32,135 | 32,135 | 0 |
| 4.1.8 MECHANICAL SYSTEMS | 39 | 238 | 161 | 199 | 77 | 17,483 | 17,325 | 17,230 | -158 | 95 | 18,284 | 18,284 | 0 |
| 4.1.9 INTEGRATION & TEST | 502 | 449 | 400 | -53 | 49 | 10,397 | 9,771 | 9,269 | -626 | 503 | 14,018 | 14,018 | 0 |
| 4.1.A PERFORMANCE AND SAFETY ASSURANCE | 109 | 109 | 43 | 0 | 65 | 4,112 | 4,112 | 4,148 | 0 | -35 | 5,452 | 5,452 | 0 |
| 4.1.B LAT INSTRUMENT SCIENCE OPERATIONS CENTER | 0 | 0 | 0 | 0 | 0 | 317 | 317 | 317 | 0 | 0 | 317 | 317 | 0 |
| 4.1.C EDUCATION AND PUBLIC OUTREACH | 52 | 52 | 45 | 0 | 7 | 2,787 | 2,787 | 2,456 | 0 | 331 | 3,988 | 3,988 | 0 |
| 4.1.D SCIENCE ANALYSIS SOFTWARE | 80 | 80 | 74 | 0 | 7 | 3,097 | 3,097 | 3,055 | 0 | 42 | 5,114 | 5,114 | 0 |
| 4.1.E SUBORBITAL FLIGHT TEST | 0 | 0 | 0 | 0 | 0 | 1,325 | 1,325 | 1,325 | 0 | 0 | 1,325 | 1,325 | 0 |
| Gen. and Admin. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Undist. Budget | | | | | | | | | | | 0 | 0 | 0 |
| Sub Total | 1,111 | 1,648 | 2,003 | 537 | -355 | 158,174 | 157,008 | 155,174 | -1,166 | 1,834 | 179,233 | 179,233 | 0 |
| Contingency | | | | | | | | | | | 8,822 | 8,822 | 0 |
| Total | 1,111 | 1,648 | 2,003 | 537 | -355 | 158,174 | 157,008 | 155,174 | -1,166 | 1,834 | 188,055 | 188,055 | 0 |



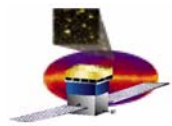
Level 3 Milestones Completed in October 2005

| AV | Activity ID | ND | Activity Description | Baseline Finish | Bsln Var | Early Finish | FY05 | | | | |
|--|-------------|----|--|-----------------|----------|--------------|----------------|---|-----|---|---------|
| | | | | | | | OCT | NOV | DEC | | |
| Instrument Project Office (Level 3) | | | | | | | | | | | |
| 4.1.7 Electronics | | | | | | | | | | | |
| 7 | 1M7R050 | 7 | LCB Flight Units - Elec to Elec | 07/20/05 | -82 | 11/14/05A | | ▼ | | | |
| 7 | 1M7941090 | 9 | Flight Event Processor Units-Elec to I&T | 08/19/05 | -63 | 11/17/05A | | ▼ | | | |
| 7 | 1M7R010 | 9 | 2nd Flight EPU/SIU-Elec to I&T | 08/24/05 | -60 | 11/17/05A | | ▼ | | | |
| 7 | 1M7R020 | 9 | 3rd Flight EPU/SIU-Elec to I&T | 08/26/05 | -58 | 11/17/05A | | ▼ | | | |
| 7 | 1M7R030 | 9 | 4th Flight EPU/SIU-Elec to I&T | 08/30/05 | -56 | 11/17/05A | | ▼ | | | |
| 7 | 1M7R040 | 9 | 1st Flight EPU/SIU-Elec to I&T | 08/19/05 | -63 | 11/17/05A | | ▼ | | | |
| 7 | 1M79530 | | Release FSW for FQT - Phase 1 | 08/29/05 | -61 | 11/23/05A | | ▼ | | | |
| Run Date | | | | | | | 12/20/05 15:05 | GLAST LAT PROJECT | | LT-TB: Completed Level 3 by Subsystem | Sheet 1 |
| Data Date | | | | | | | 12/01/05 | Completed Level 3 Milestones in Reporting Month Sort by Subsystem | | FL-TB: Level 3 Milestones compl. last month | |
| © Primavera Systems, Inc. | | | | | | | | | | | |



Level 3 Milestones Completed in November 2005

| AV | Activity ID | ND | Activity Description | Baseline Finish | Bsln Var | Early Finish | FY06 | | |
|--|-------------|----|--|-----------------|----------|--------------|------|-----|-----|
| | | | | | | | OCT | NOV | DEC |
| Instrument Project Office (Level 3) | | | | | | | | | |
| 4.1.7 Electronics | | | | | | | | | |
| 7 | 1M7R050 | 7 | LCB Flight Units - Elec to Elec | 07/20/05 | -82 | 11/14/05A | | ▼ | |
| 7 | 1M7941090 | 9 | Flight Event Processor Units-Elec to I&T | 08/19/05 | -63 | 11/17/05A | | ▼ | |
| 7 | 1M7R010 | 9 | 2nd Flight EPU/SIU-Elec to I&T | 08/24/05 | -60 | 11/17/05A | | ▼ | |
| 7 | 1M7R020 | 9 | 3rd Flight EPU/SIU-Elec to I&T | 08/26/05 | -58 | 11/17/05A | | ▼ | |
| 7 | 1M7R030 | 9 | 4th Flight EPU/SIU-Elec to I&T | 08/30/05 | -56 | 11/17/05A | | ▼ | |
| 7 | 1M7R040 | 9 | 1st Flight EPU/SIU-Elec to I&T | 08/19/05 | -63 | 11/17/05A | | ▼ | |
| 7 | 1M79530 | | Release FSW for FQT - Phase 1 | 08/29/05 | -61 | 11/23/05A | | | ▼ |



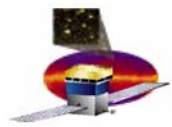
Level 3 Milestones Completed in December 2005

| AV | Activity ID | ND | Activity Description | Baseline Finish | Bsln Var | Early Finish | FY06 | | |
|--|-------------|----|--------------------------------|-----------------|----------|--------------|------|-----|-----|
| | | | | | | | NOV | DEC | JAN |
| Instrument Project Office (Level 3) | | | | | | | | | |
| 4.1.7 Electronics | | | | | | | | | |
| 7 | 1M7941070 | 9 | Flight GASU Box-Elec to I&T | 07/19/05 | -95 | 12/02/05 | | ▽ | |
| 7 | 1M79540 | | FQT Scripts Complete - Phase 1 | 08/30/05 | -71 | 12/12/05 | | ▽ | |
| 7 | 1M7941080 | 9 | 5th Flight EPU/SIU-Elec to I&T | 09/02/05 | -102 | 12/14/05 | | ▽ | |

Run Date 01/04/06 16:22
 Data Date 12/01/05
 © Primavera Systems, Inc.

GLAST LAT PROJECT
Level 3 Milestones Completed in November
 Sort by Subsystem

LT-T9: L3 MS Completed Curr Mo (tb)
 FL-T2: L3 Milestones Completed Current Month
 Sheet 1



Performance Analysis

| | WBS | BAC | BCWS | BCWP | ACWP | SV \$ | CV \$ | % BCWS | % BCWP | % ACWP | SPI Trend | CPI Trend | SPI | CPI | CPI Fcst | CpiSpi Fcst |
|----|-------|---------|---------|---------|---------|--------|-------|--------|--------|--------|-----------|-----------|-------|-------|----------|-------------|
| 1 | 4.1 | 179,233 | 158,174 | 157,008 | 155,174 | -1,166 | 1,834 | 88.25 | 87.60 | 86.58 | ↑ | ↓ | 0.993 | 1.012 | 177,139 | 177,302 |
| 2 | 4.1.1 | 26,656 | 18,583 | 18,583 | 18,142 | 0 | 441 | 69.71 | 69.71 | 68.06 | ↔ | ↑ | 1.000 | 1.024 | 26,023 | 26,023 |
| 3 | 4.1.2 | 10,575 | 8,619 | 8,619 | 8,596 | 0 | 23 | 81.50 | 81.50 | 81.29 | ↔ | ↑ | 1.000 | 1.003 | 10,548 | 10,548 |
| 4 | 4.1.4 | 21,486 | 21,366 | 21,366 | 21,366 | 0 | 0 | 99.44 | 99.44 | 99.44 | ↔ | ↓ | 1.000 | 1.000 | 21,486 | 21,486 |
| 5 | 4.1.5 | 21,554 | 21,554 | 21,554 | 21,553 | 0 | 2 | 100.00 | 100.00 | 99.99 | ↔ | ↑ | 1.000 | 1.000 | 21,553 | 21,553 |
| 6 | 4.1.6 | 18,329 | 18,329 | 18,329 | 18,165 | 0 | 164 | 100.00 | 100.00 | 99.11 | ↔ | ↔ | 1.000 | 1.009 | 18,165 | 18,165 |
| 7 | 4.1.7 | 32,135 | 30,206 | 29,824 | 29,555 | -382 | 269 | 94.00 | 92.81 | 91.97 | ↑ | ↔ | 0.987 | 1.009 | 31,845 | 31,874 |
| 8 | 4.1.8 | 18,284 | 17,483 | 17,325 | 17,230 | -158 | 95 | 95.62 | 94.76 | 94.24 | ↑ | ↑ | 0.991 | 1.005 | 18,184 | 18,193 |
| 9 | 4.1.9 | 14,018 | 10,397 | 9,771 | 9,269 | -626 | 503 | 74.17 | 69.70 | 66.12 | ↔ | ↔ | 0.940 | 1.054 | 13,297 | 13,555 |
| 10 | 4.1.A | 5,452 | 4,112 | 4,112 | 4,148 | 0 | -35 | 75.42 | 75.42 | 76.07 | ↔ | ↑ | 1.000 | 0.991 | 5,499 | 5,499 |
| 11 | 4.1.B | 317 | 317 | 317 | 317 | 0 | 0 | 100.00 | 99.99 | 99.92 | ↔ | ↔ | 1.000 | 1.001 | 317 | 317 |
| 12 | 4.1.C | 3,988 | 2,787 | 2,787 | 2,456 | 0 | 331 | 69.88 | 69.88 | 61.58 | ↔ | ↔ | 1.000 | 1.135 | 3,515 | 3,515 |
| 13 | 4.1.D | 5,114 | 3,097 | 3,097 | 3,055 | 0 | 42 | 60.57 | 60.57 | 59.74 | ↔ | ↑ | 1.000 | 1.014 | 5,044 | 5,044 |
| 14 | 4.1.E | 1,325 | 1,325 | 1,325 | 1,325 | 0 | 0 | 100.00 | 100.00 | 99.98 | ↔ | ↔ | 1.000 | 1.000 | 1,325 | 1,325 |

LEGEND

BAC: Budget At Complete
 BCWS: Budgeted Cost of Work Scheduled (to date)
 BCWP: Budgeted Cost of Work Performed (to date)
 ACWP: Actual Cost of Work Performed (to date)

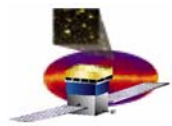
SV \$: Schedule Variance = BCWP - BCWS
 CV \$: Cost Variance = BCWP - ACWP
 SPI: Schedule Performance Index = BCWP/BCWS
 CPI: Cost Performance Index = BCWP/ACWP

% BCWS: Percent Scheduled = BCWS/BAC
 % BCWP: Percent Complete = BCWP/BAC
 % ACWP: Percent Spent = ACWP/BAC

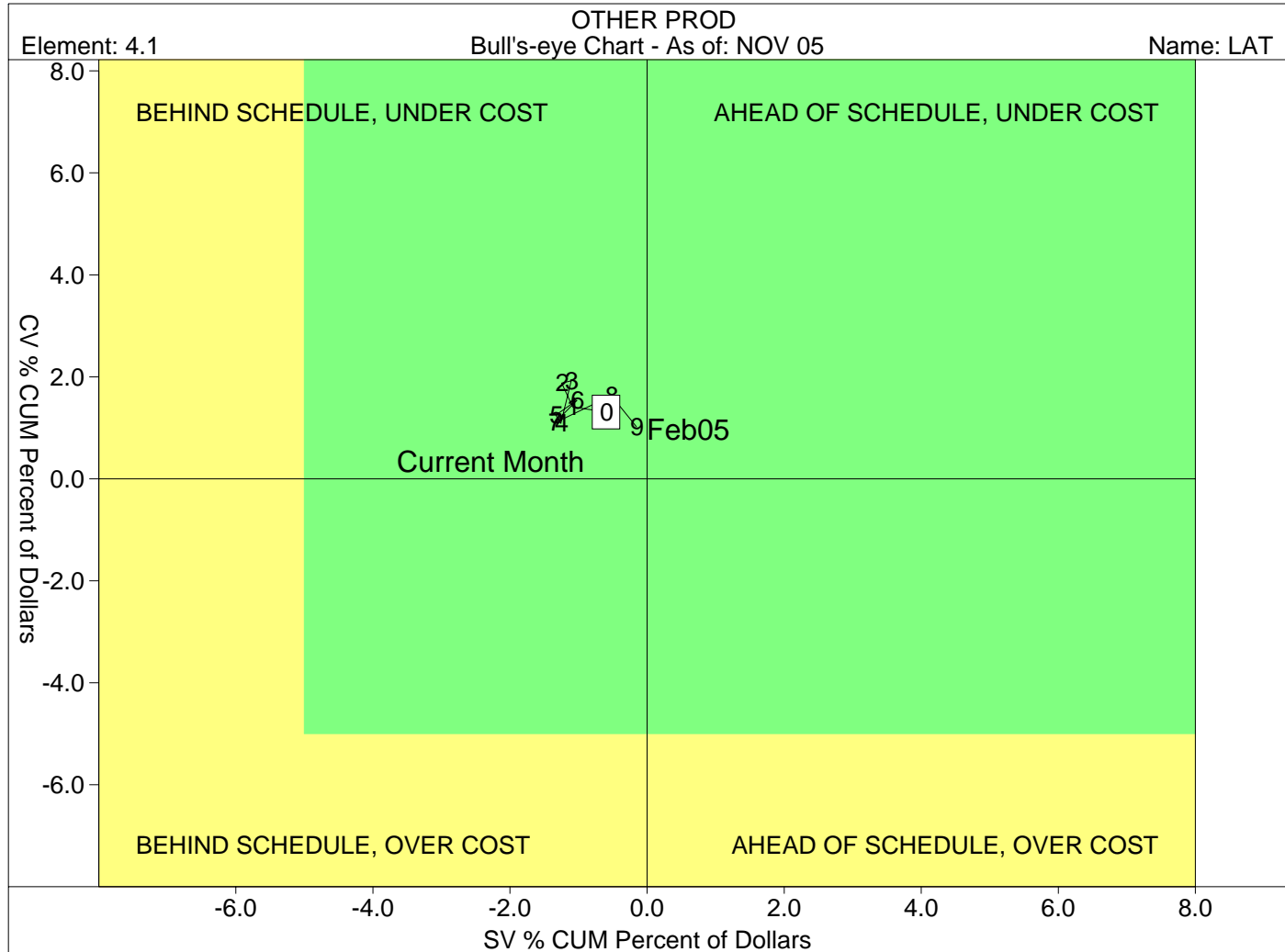
Cpi_Fcst: CPI (to date) EAC Forecast = BAC / CPI
 CpiSpi_Fcst: Combination CPI and SPI EAC Forecast = ACWP + (BAC - BCWP) / (CPI * SPI)

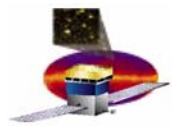
| | | | |
|---------------------------------------|---------------------|--------------------------------------|----------------------|
| █ | Worse than .85 | █ | Between .95 and 1.10 |
| █ | Between .85 and .95 | █ | Better than 1.10 |

SPI and CPI Change Thresholds

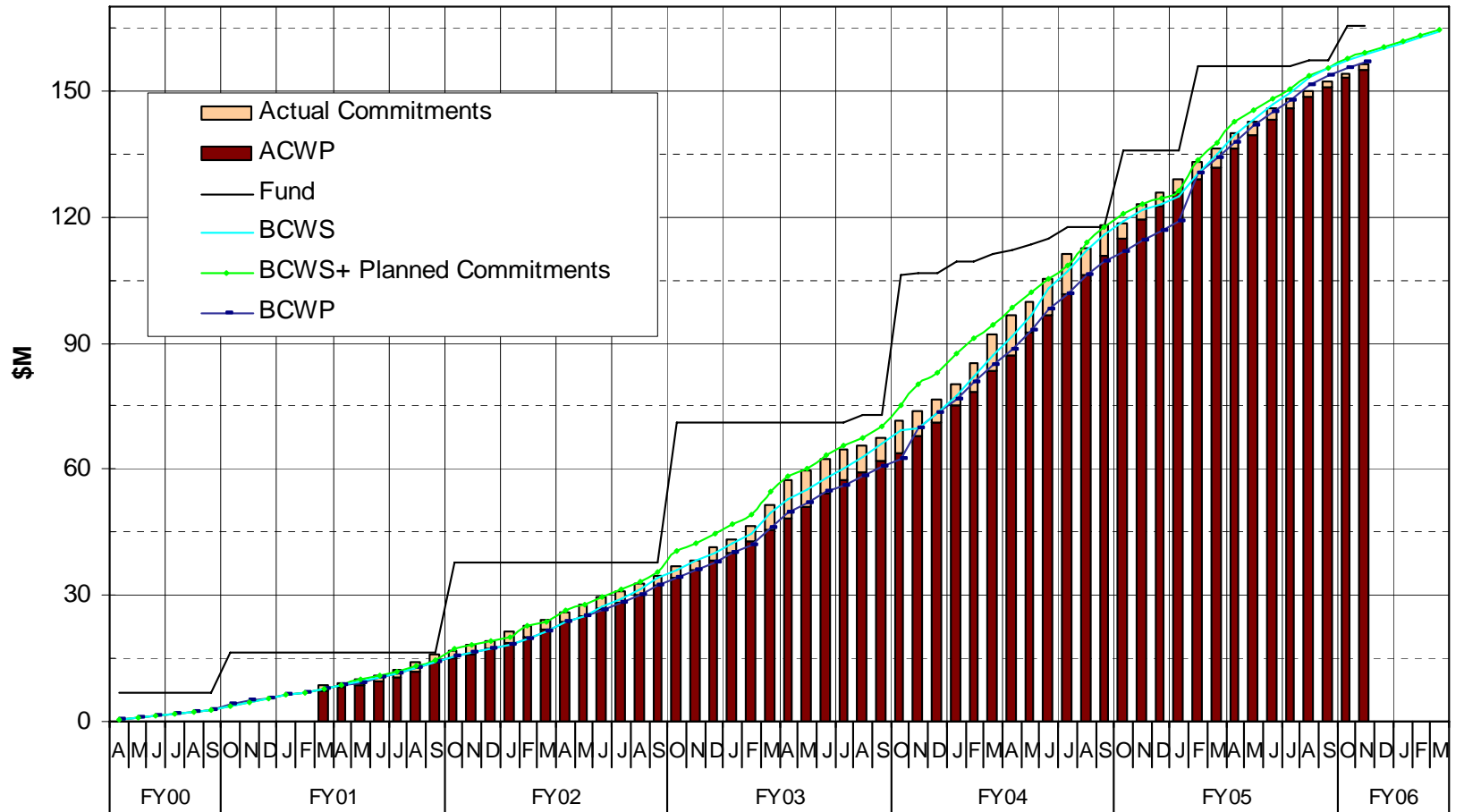


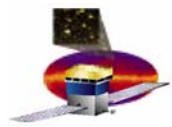
Variance Analysis





Budget, Cost, Funding, Performance





Cost Report

| Reporting Category | Cost Incurred/Hours Worked | | | | Estimated Cost/Hrs to Complete | | | Estimated Final Cost/Hours | | Unfilled Orders Out standing |
|--|----------------------------|--------------|----------------|----------------|--------------------------------|--------------|---------------------|----------------------------|----------------|------------------------------|
| | During Month | | Cum. to Date | | Detail | | Balance of Contract | Contractor Estimate | Contract Value | |
| | Actual | Planned | Actual | Planned | DEC05 | JAN06 | | | | |
| 4.1.1 INSTRUMENT MANAGEMENT | 284 | 403 | 18,142 | 18,583 | 348 | 453 | 7,713 | 26,656 | 26,656 | 184 |
| 4.1.2 SYSTEM ENGINEERING | 261 | 409 | 8,596 | 8,619 | 120 | 176 | 1,683 | 10,575 | 10,575 | 0 |
| 4.1.4 TRACKER | 113 | -737 | 21,366 | 21,366 | 0 | 0 | 120 | 21,486 | 21,486 | 203 |
| 4.1.5 CALORIMETER | -2 | 0 | 21,553 | 21,554 | 0 | 0 | 2 | 21,554 | 21,554 | 0 |
| 4.1.6 ANTICOINCIDENCE DETECTOR | 0 | 0 | 18,165 | 18,329 | 0 | 0 | 164 | 18,329 | 18,329 | 123 |
| 4.1.7 ELECTRONICS | 624 | 254 | 29,555 | 30,206 | 149 | 98 | 2,334 | 32,135 | 32,135 | 383 |
| 4.1.8 MECHANICAL SYSTEMS | 161 | 39 | 17,230 | 17,483 | 33 | 39 | 981 | 18,284 | 18,284 | 65 |
| 4.1.9 INTEGRATION & TEST | 400 | 502 | 9,269 | 10,397 | 302 | 415 | 4,032 | 14,018 | 14,018 | 142 |
| 4.1.A PERFORMANCE AND SAFETY ASSURANCE | 43 | 109 | 4,148 | 4,112 | 75 | 112 | 1,118 | 5,452 | 5,452 | 0 |
| 4.1.B INSTRUMENT SCIENCE OPS CENTER | 0 | 0 | 317 | 317 | 0 | 0 | 0 | 317 | 317 | 0 |
| 4.1.C EDUCATION AND PUBLIC OUTREACH | 45 | 52 | 2,456 | 2,787 | 44 | 52 | 1,436 | 3,988 | 3,988 | 173 |
| 4.1.D SCIENCE ANALYSIS SOFTWARE | 74 | 80 | 3,055 | 3,097 | 68 | 80 | 1,911 | 5,114 | 5,114 | 4 |
| 4.1.E SUBORBITAL FLIGHT TEST | 0 | 0 | 1,325 | 1,325 | 0 | 0 | 0 | 1,325 | 1,325 | 0 |
| Gen. and Admin. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 2,003 | 1,111 | 155,174 | 158,174 | 1,140 | 1,425 | 21,494 | 179,233 | 179,233 | 1,277 |