

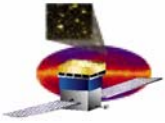


GLAST Large Area Telescope:

Tracker, W.B.S 4.1.4

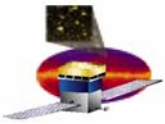
July Status Meeting

David Rich



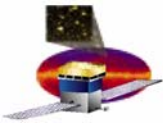
Tracker Tower RFI Status

- Towers A, B, 1, 2, 3, 5 are integrated into the Grid
- Tower 4 is still in the SLAC cleanroom on the Tracker test fixture but is RFI.
- Tower 6 arrived from Italy over the weekend, and Tracker-team testing is in progress.
 - Hand-off meeting scheduled for Thursday 7/28.



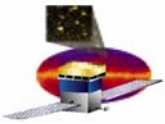
Tower 7, 8, 9 Status

- Tower 7 completed all environmental testing, missing two cables. It had an anomaly (INFN NCR #544) at elevated temperature with the X17 layer. That tray is being replaced this week, one flight cable (C5-11) is being added, and it will go back to environmental testing in parallel with Tower 10.
 - Tower 7 is scheduled to arrive at Alenia on 7/29.
 - Close T/V chamber door and start pump down late Friday 7/29
 - X17 layer will be inspected and tested after tray removed from Tower
- Tower 8 and 9 are currently in environmental testing.
 - Tower 8 is missing 2 cables and has one non-flight cable installed.
 - INFN NCR #551 generated 7/26. X6 layer malfunctioned in T/V appears similar to X17 layer on Tower 7.
 - Tower 9 is missing 1 cable and has two non-flight cables installed.
 - T/V testing is currently in progress with these towers.
 - Vibration testing will happen the first week of August.



Tower 10, 11 Status

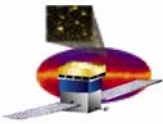
- Tower 10 is being assembled this week
 - It has 5 flight cables and 2 non-flight cables (to be removed after testing).
 - Each of the 4 sides has at least one flight cable.
 - The C3 cable is missing.
 - It will go to Alenia on Wednesday 7/27 to set-up for T/V testing
- Tower 11 is being assembled, but we do not have enough flight cables to go into environmental testing.
 - This means that Tower 14 will not be tested alone.
 - Barring unforeseen problems, we can still hold the date for delivery of the last flight tower.



MCM Production

Teledyne production is finished and the cell is shut down.

<i>Status as of July 25, 2005</i>	Short	Tall
On assembled Towers A through 9	352	44
Other MCMs shipped to Pisa and NOT on hold	181	19
At SLAC in burn-in	26	11
Total flight MCMs (need 512 and 64 for 16 towers):	559	74
Nonflight and NCR MCMs	206	16
Total MCMs made to date in the "flight" build	765	90



Tracker Flex-Circuit Cable Status

If Parlex delivers as scheduled, we will be able to fully equip towers 12 and 13 with flight cables before environmental testing.

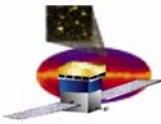
Hopefully we will have Pioneer cables (barely) in time for Tower 14.

Assy S/N	C0	C1	C2	C3	C4	C5	C6	C7		Need Date in Pisa
DAQ EGSE	12	2	2	3	3	2	1	2		
DAQ TV			3 & 5			1 & 3	4 & 7	5 & 7		
Module A	16	3	4	4	8	7	11	3		Done
Module B	11	4	14	5	9	5	10	10		Done
Module 1	18	5	7	7	7	8	13	1		Done
Module 2	20	7	9	1	6	9	5	6		Done
Module 3	19	13	6	9	1	12	6	11		Done
Module 4	21	12	10	8	12	10	14	12		Done
Module 5	25	15	C2-012	C3-010	C4-014	C5-014	C6-015	13		Done
Module 6	C0-22	C1-11	C2-011	C3-011	C4-016	C5-16	C6-16	C7-14		Done
Module 7	C0-24	C1-16	C2-15	C3-12	C4-17	C5-11		C7-15		7/4/05
Module 8	C0-26	C1-18	C2-16		C4-18		C6-12	C7-16		7/18/05
Module 9	C0-23	C1-17	C2-17		C4-13	C5-19	C6-17	C7-08		7/19/05
Module 10	C0-17	C1-14	C2-14		C4-19	C5-17	C6-18	C7-04		7/27/05
Module 11		C1-10	C2-8		C4-20	C5-18	C6-09	C7-09		7/27/05
Module 12	7/29/05	8/5/05	7/29/05	7/29/05	C4-21	8/5/05	8/5/05	8/12/05		8/18/05
Module 13	7/29/05	8/5/05	7/29/05	8/5/05	C4-22	8/12/05	8/5/05	8/12/05		8/18/05
Module 14	8/12/05	8/12/05		8/5/05	C4-24	8/12/05	8/12/05			8/24/05
Module 15	8/12/05	8/12/05			8/5/05		8/12/05			
Module 16							8/12/05			
		C1-1			C4-10	C5-20	C6-02			
					C4-23		C6-08			
Notes:										
Cable with good coupon shipped to Italy										
Cable with bad coupon installed in flight tower										
EGSE Cable (Non-Flight)										
Cables at SLAC.										
Scheduled ship date from Parlex to SLAC										
Parlex long-term projected ship date (by end of the given week)										
Cable with some cracking in connectors										
Cable with coupon having annular ring between 1 and 2 mils on internal layers										
Cable with coupon having trace-to-barrel separations on internal layers										
Cable with embedded non-conductive fiber										



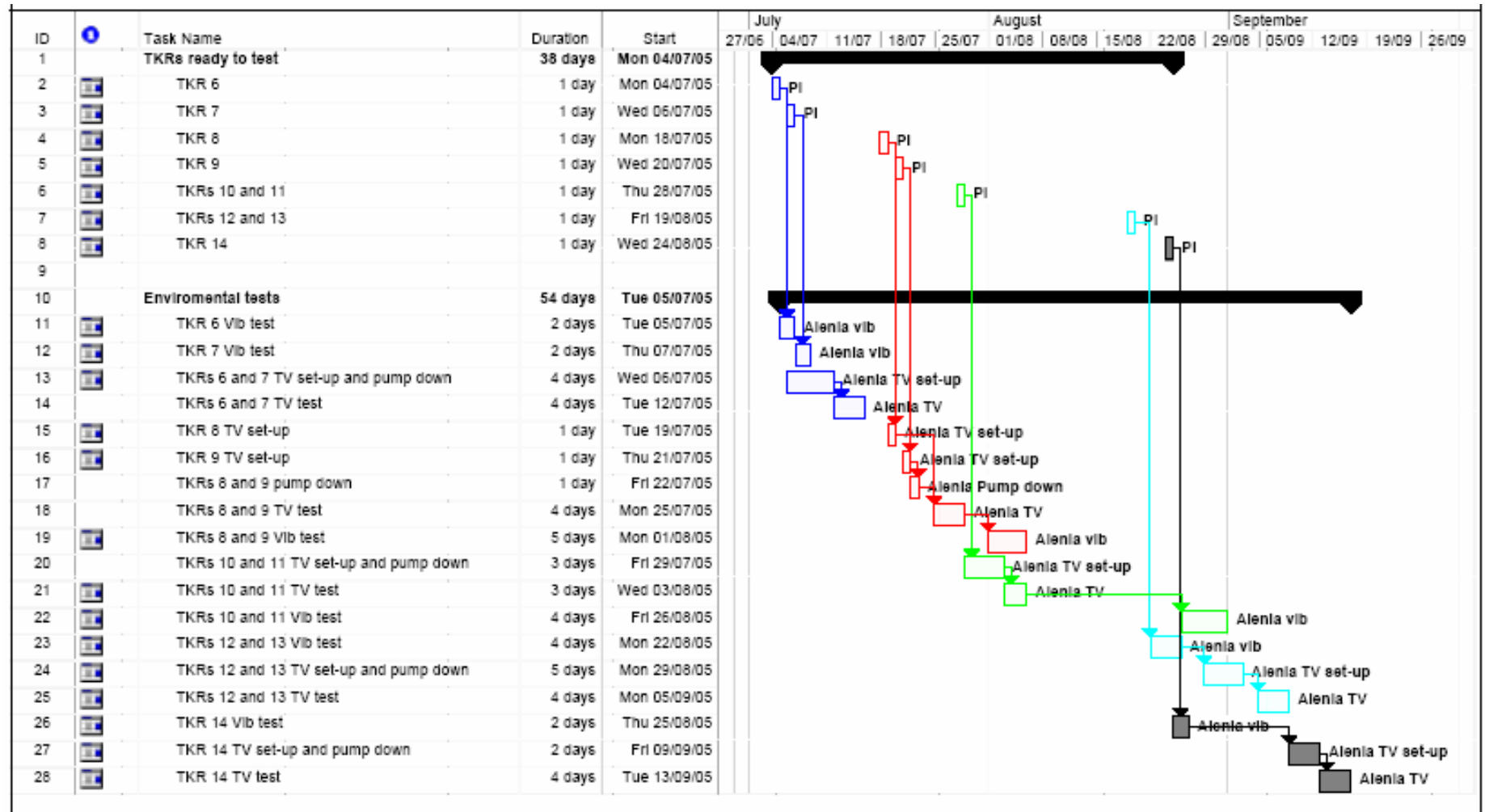
Pioneer Cable Production

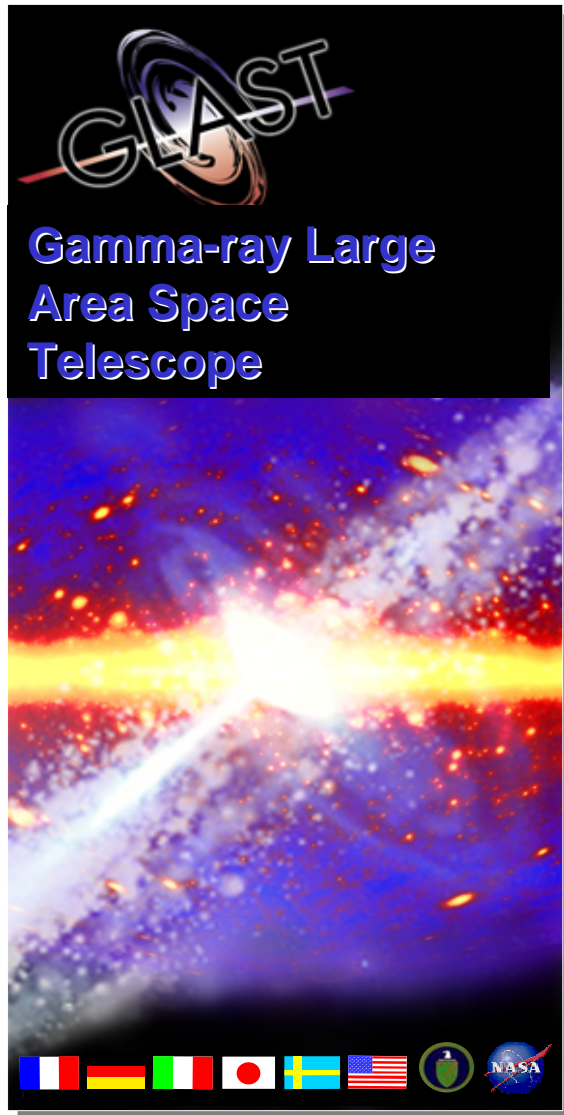
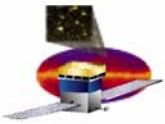
- Scheduled completion dates
 - Bare PWB
 - July 18 Qual and Flight fabs C0, C1, C6 **(behind schedule)**
 - July 29 Qual and Flight fabs C2, C3, C4, C5, C7
 - Qual Assemblies
 - Aug 1 Qual Flex Circuit Assembly C0
 - Aug 12 Qual Flex Circuit Assembly C4
 - Flight Production
 - July 29 1st Release (Qty. 3 flight tower sets)
 - Aug 25 2nd Release (Qty. 3 flight tower sets)
 - Aug 31 3rd Release (Qty. 3 flight tower sets)
 - Sept 7 4th Release (Qty. 3 flight tower sets)
- Initial problems with maintaining minimum annular ring solved
- SLAC and NASA to visit Pioneer 7/27 to discuss production status, source inspection, and pulling in delivery schedules.



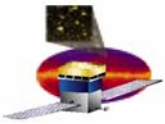
Tracker Environmental Testing Schedule

No change in this schedule since last month.

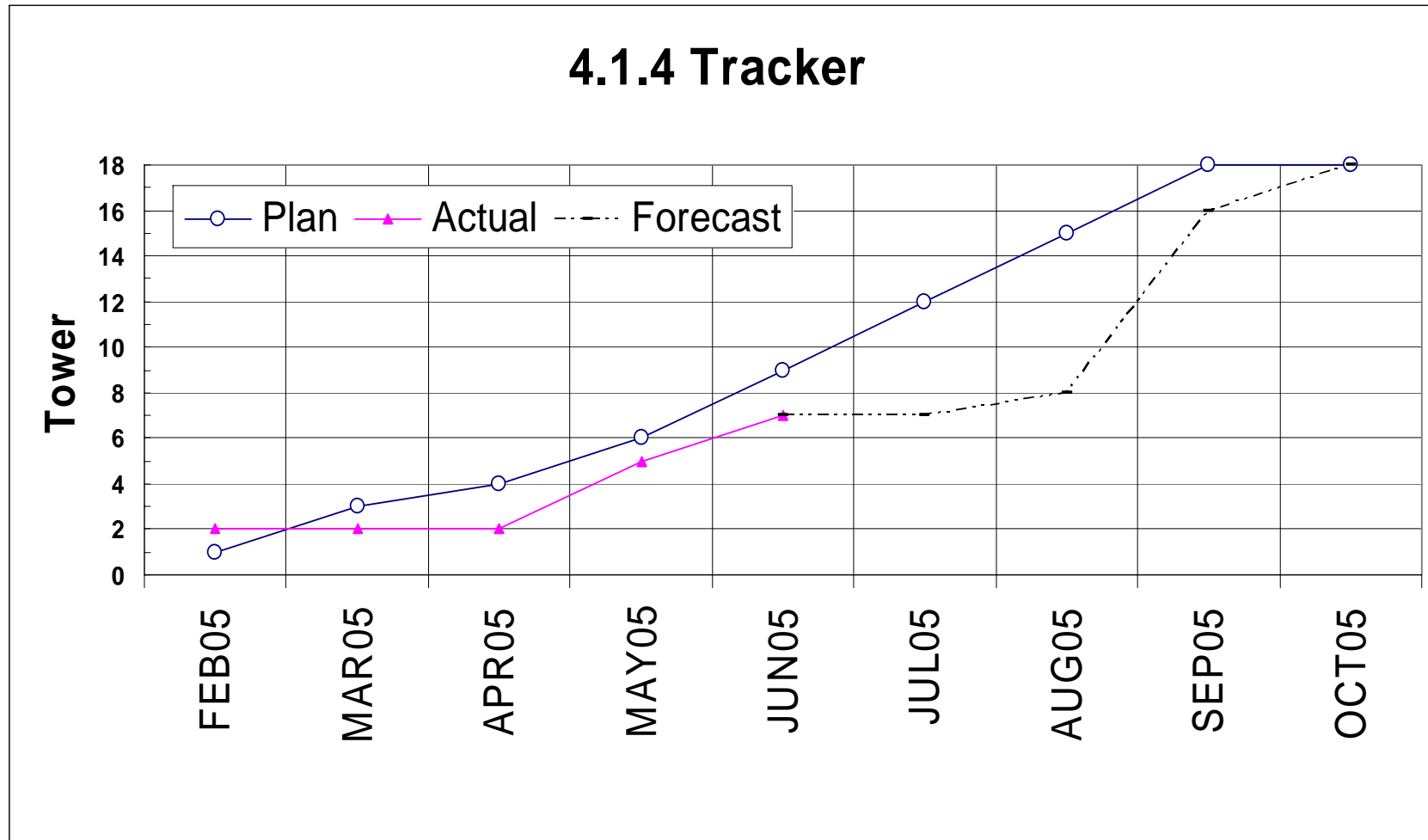


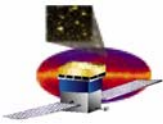


Cost/Schedule Reports for 4.1.4 Tracker Presentation June 2005 Month End



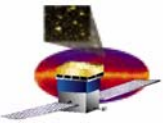
Level 3 Milestone Count





Cost Report

Monthly Contractor Financial Management Report 30-Jun-05								NASA form 533M Approved OMB # 2700-		Report for Month Ending: 6/30/2005	
Reporting Category	Cost Incurred				Estimated Cost			4/3/2000	Unfilled Orders		
	During Month		Cum. to Date		Detail		Balance of Contract	Estimated Final Cost		Outstanding	
	Actual	Planned	Actual	Planned	JUL05	AUG05		Contract Estimate	Contract Value		
4.1.4 TRACKER											
4.1.4.1 TRACKER MANAGEMENT	84	61	3,796	3,781	48	36	18	3,898	3,898	0	
4.1.4.2 RELIABILITY & QUALITY ASSURANCE	0	0	4	0	0	0	-4	0	0	0	
4.1.4.3 TRAY SUB-ASSEMBLY	261	348	12,754	13,245	17	19	509	13,298	13,298	194	
4.1.4.4 TOWER STRUCTURE & ASSEMBLY	155	331	3,153	3,590	266	161	559	4,139	4,139	352	
4.1.4.5 TRACKER TEST & CALIBRATION	22	17	158	217	16	18	76	268	268	0	
4.1.4.7 INSTRUMENT INTEGRATION & TEST (SLAC)	5	12	59	93	6	0	34	99	99	0	
CAPW[3]Totals:	527	768	19,923	20,926	352	235	1,191	21,702	21,702	545	



FTE Report (DOE/NASA-funded only)

