



GLAST Monthly PSR

Ground System/Mission Ops

March 2004

Ken Lehtonen
GLAST Ground Sys/Ops Manager



Accomplishments

Completed transition to GSOM role

[M. Rackley]:

- *Will work final closeout of remaining SRR RFAs*
- *Serve on MOC proposal Technical Evaluation Team*
- *Continue work (as needed) as LAT IOC Peer Review Co-chair*

Completed “POP Worksheets” for Ground System and forwarded to L. Tall

MOC

- *Released RFP [Code 210] to Goldbelt/Orca (3/30/04)*
- *Delivered [Omitron] the GLAST-Swift Synergy Analysis Report*
- *Continued work [Omitron] on eight trade studies in preparation for the MOC Detailed Design Review*
- *Ground system personnel attended a variety of SAI Peer Reviews (“No issues were uncovered that would affect the MOC design.”)*
- *Continued work [Omitron] on several (four) design documents and ICDs that are MOC deliverables*
- *Delivered [ASRC] for comments another “final” Database Format Control Document and a concept for “Data Accountability”*



Accomplishments

- ∪ ***Distributed the Ground System Project Plan for review and comments***
- ∪ ***Worked the GN topic: USN & Wallops***
 - *Consensus seems to be to <<delete>> Wallops as a requirement*
 - *Need to meet with USN staff to review GLAST GN requirements (I&T; L&EO; long-term) and associated costs*
- ∪ ***GLAST Front-End Processor (GFEP) – Lead: H. Dew***
 - *Submitted GFEP SOW to the MOMS contractor*
 - *Work started on prototyping EDT 40 Mbits/s ECL board*





Accomplishments

- u **Continued working Simulator (PSS/CTS/MTS/HotBench) topic with Systems**
 - *Consensus is that Goddard-developed PSS can replace SAI CTS*
 - *Will develop two hardware and one software PSS*
 - *Need to assess need/requirements for use of SAI HotBench*
- u **Established dates for ground system detailed design Peer Reviews:**
 - GSSC 7/13 (Tues)
 - FDF 7/15 (Thurs)
 - MOC 7/21 (Wed)
 - GFEP 7/29 (Thurs)
 - LAT 8/4 (Wed)
 - GBM “Delta” Post GBM CDR (6/29)

SDR 8/17,18 (Tues/Wed)



Issues/Problems

- ∪ ***Need quick turnaround on technical evaluation (and business proposal by M. Seidleck)***
 - *Tech Eval Team in-place and key documents distributed (D. Small is COTR)*
 - *Code 210 (N. Square) recommending “Pre-contract Cost Authorization” until final contract signed (90-120 days)*
- ∪ ***Need to manage aggressive Ground System Peer Review schedule with SDR date (8/17,18)***



Upcoming Events/Work Items



- ∪ ***Receive MOC proposal from Goldbelt/Omitron and evaluate proposal***
- ∪ ***Submit PSLA to Code 450 and await comments***
- ∪ ***Continue preparations for next round of GS Peer Reviews***
- ∪ ***Close remaining GSRR RFA's***
- ∪ ***Close out Spacecraft/Instrument Simulator topic with Systems (John T.)***
- ∪ ***Attend FSW CDR and Spacecraft "dry-run" CDR***



Ground System/Ops Rolling Wave Schedule



Activ ID	Activity Description	Current Start	Current Finish	2004					
				MAR	APR	MAY	JUN	J	
Ground System & Mission Operations									
Ground System Reviews									
Ground System Peer Reviews									
0102	LAT IOC Design Peer Review	01MAR04A	01MAR04A						
1481	GBM Post CDR Review	30JUN04*	30JUN04						
Ground System Documentation									
Ground System Wide Documentation									
0613	Ground System Test Plan-Prelim	02SEP03A							
0661	SC/Ground ICD - Prelim Ver (CDRL 4 From SAI)	23JUL03A	16APR04	[Red bar from MAR to APR]					
0655	Ground Operations Data Products ICD - Final	02FEB04A	20AUG04	[Red bar from MAR to JUN]					
0692	Ground Science Data Products ICD - Final Version	02FEB04A	20AUG04	[Red bar from MAR to JUN]					
0712	SC/Ground ICD - Final Ver (CDRL 4 From SAI)	17FEB04A	20AUG04	[Blue bar from MAR to JUN]					
Ground System MOC Documentation									
0646	MOC/FDF ICD - Prelim Ver	23JUL03A	19MAR04A	[Blue bar from MAR to APR]					
0205	MOC/Commercial Ground Station ICD - Prelim	23JUL03A	15JUN04	[Yellow bar from MAR to JUN]					
0694	MOC/FDF ICD - Final Version	01MAR04	15JUL04	[Yellow bar from MAR to JUN]					
0209	MOC/Commercial Ground Station ICD - Final	26FEB04A	20AUG04	[Blue bar from MAR to JUN]					
0492	MOC S/W Release 2	01MAR04	15JUL05	[Red bar from MAR to JUN]					
0510	MOC S/W Release 3	01MAR04	13JAN06	[Red bar from MAR to JUN]					
Ground System LAT IOC Documentation									
1078	LAT IOC (SAS/DPF) Release 1	02JAN03A		[Yellow bar from MAR to JUN]					
1090	LAT IOC (SAS/Sci Tools) Release 2	01MAR04	01MAR05	[Yellow bar from MAR to JUN]					

Start Date	03APR00		Early Bar	GL15	Sheet 1 of 2	Date	Revision	Checked	Approved	
Finish Date	18MAY07		Progress Bar			GLAST Ground System Rolling Wave Status as of 3/1/04				
Data Date	01MAR04		Critical Activity							
Run Date	05APR04 10:18									

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Ground System/Ops Rolling Wave Schedule



Activ ID	Activity Description	Current Start	Current Finish	2004				
				MAR	APR	MAY	JUN	JUL
Ground System GBM IOC Documentation								
1093	GBM IOC Plan - Draft	02JAN03A						
Mission Operations Documentation								
0580	Operations Agreements Final	01JUN04*	01JUN04				▲	
Ground System Simulators								
Ground System PS Simulator								
1019	PSS	01MAR04	12NOV04*	▶				
Ground System Verification & Testing								
Ground System Verification Documentation								
0556	Ground System Test Plan-Final	01MAR04	14MAY04	▶				