GLAST Large Area Telescope:

LAT System Engineering Configuration Management Improvements

Pat Hascall
SLAC
System Engineering Manager

phascall@slac.stanford.edu
x4266

Configuration Management Improvements

- Problem – The current CM process has allowed a few cases where parts were built to drawings which were out of date
- Solution – combine process improvement, training and LATDocs changes to facilitate determining the current released configuration to use to build flight hardware.
- Specific items
  - LATDocs hyperlinks go to the latest rev and bypass status and comments fields. Thus it is possible to pull up a draft drawing and not realize that the document is not approved.
  - Changes do not show up in LATDocs until the final release process. Thus crosschecks using LATDocs to check for the latest revision will not identify documents with a change in process.
  - LATDocs does not directly support drawing changes in the middle of a production run. Thus in this situation it is difficult to determine which revision of a drawing is applicable to a specific part.

Proposed Process Changes

- **Process improvements are directed at early capture of pending changes. Proper CM requires notification of the pending change and better documentation of the status of the change. The flow that supports this is:**
  - **When a change is identified, the subsystem manager is to notify CM (Natalie) that there is a change in work for that drawing. She will change the status of that drawing from "signed off" to "change pending"**
  - **A change request shall be filled out. The change request shall include references to NCRs (if applicable) and proposed disposition of hardware in process.**
  - **When the new drawing revision is approved, the status of the original drawing revision will be changed from "change pending" to "superseded", and comments included to point to relevant documents (such as NCRs) to aid in understanding the status of hardware which was built to that rev.**
  - **The released drawings will have stamps on the face of the drawing indicating that the drawing is signed off. Details of this process are TBD.**

Proposed LATDocs Changes

- Hyperlinks will go to the document history page rather than the latest rev of the document
  - Next two charts show the history page
  - Proposed change is to replace file type, file format and file size with a larger comment field and links to the CR and DCN.
- Enhance the comments field to enable listing NCR's or other information for a particular drawing rev.
- For each document, add a subtype field. The subtypes will, for example, allow flight drawings to be separated from EGSE and MGSE drawings.
- Provide a mechanism so that LATDocs can be a repository for original files (e.g. Word format). These original files will be used as the baseline for future updates by the author, but will not be generally available to the public.

Document History Page

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GLAST-LAT Documents

Detailed Index as of June 28, 2004 08:46

LAT-DS-00554 GLAST ELECTRONICS BOXES TEM BOX ASSY TEM BOX BASE

Doc Type	DESIGN/DRAWING (BUILD TO SPECIFICATION)
Record Created	October 6, 2003
Author List?	No
Private?	No
Doc Date	May 10, 2003
Release Change Authority	LEVEL 4 LAT Subsystem
Sub-System	Electronics
WBS	4.1.7 Electronics
Document Change Number	LAT-XR-03705-01
Other Doc Ref	LAT-XR-02597-01
Key Words	ELECTRONICS TEM BOX BASE ASSY LAT
Primary Authors	Nelson, David J.
Revisions and Files	

Revision 50 revised May 5, 2004 Signed Off

Thumbnails	File Name	File Type	File Format	File Size (Kb)	Comments
	LAT-DS-00554-50.pdf [HTML]	Drawing	ADOBE ACROBAT	492.82	

Revision 6 revised June 10, 2004 Signed Off

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	LAT-DS-00554-50.pdf [HTML]	Drawing	ADOBE ACROBAT	492.82	

Revision 6 revised June 10, 2004 Signed Off

Thumbnails	File Name	File Type	File Format	File Size (Kb)	Comments
	LAT-DS-00554-06.pdf [HTML]	Drawing	ADOBE ACROBAT	142.67	

Revision 5 revised February 18, 2004 Signed Off

Thumbnails	File Name	File Type	File Format	File Size (Kb)	Comments
	LAT-DS-00554-05.pdf [HTML]	Drawing	ADOBE ACROBAT	160.03	

Revision 4 revised October 10, 2003 In Work

Thumbnails	File Name	File Type	File Format	File Size (Kb)	Comments
	LAT-DS-00554-04.pdf [HTML]	Drawing	ADOBE ACROBAT	115.86	

Revision 3 revised May 16, 2003 In Work

Thumbnails	File Name	File Type	File Format	File Size (Kb)	Comments
	LAT-DS-00554-03.PDF [HTML]	system engineering	ADOBE ACROBAT	92.81	