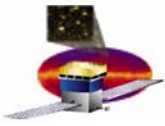


# Technical Baseline Management

September 30, 2003

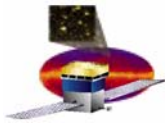
Pat Hascall



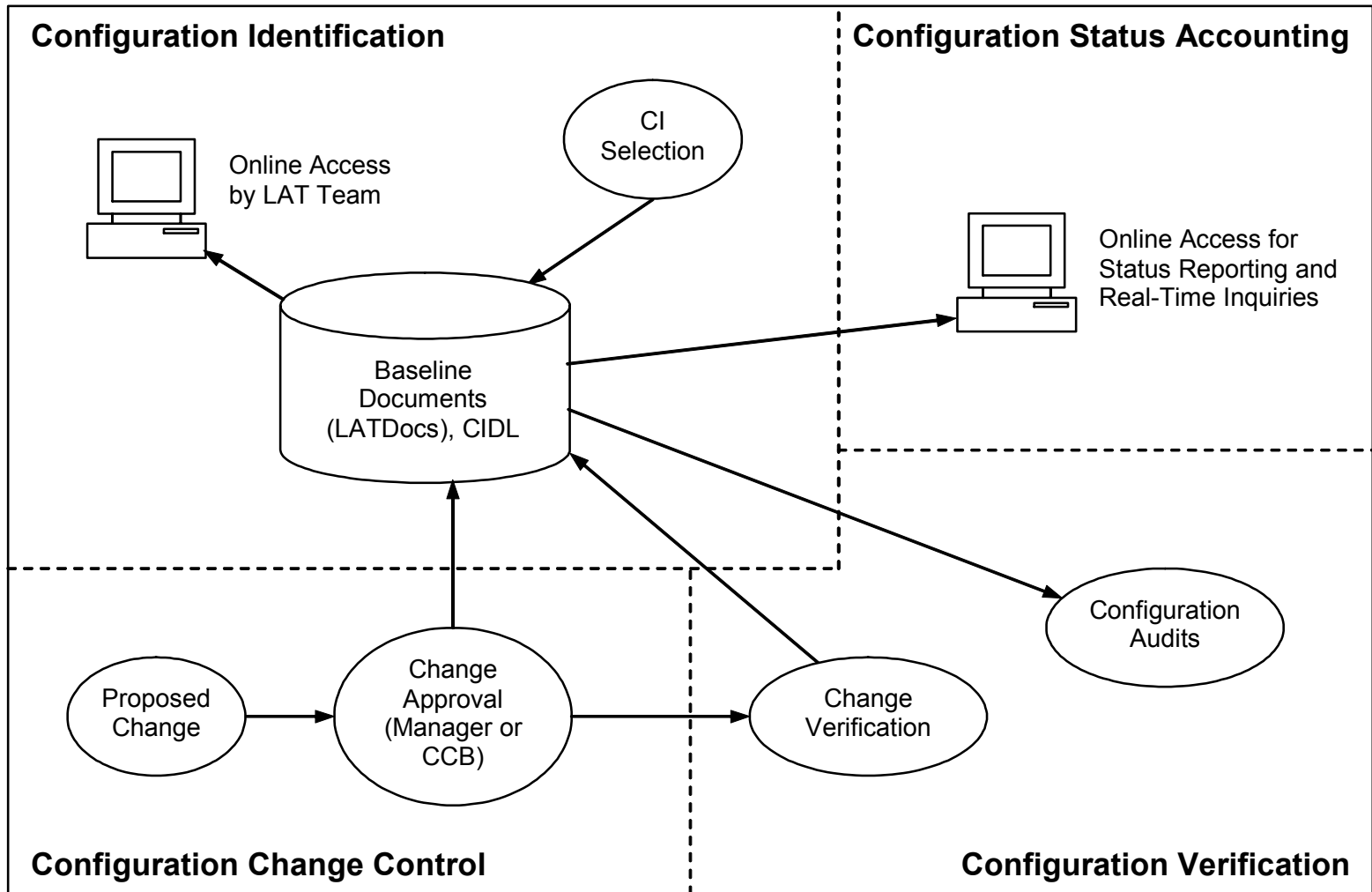
# Technical Baseline Management

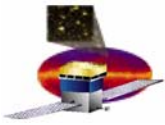
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- We are required to manage the configuration of our technical baseline
  - **What is configuration management?**
    - **Configuration identification**
      - Definition of the technical baseline
        - » Hardware, software design
        - » Specifications and Interface Control Documents
        - » Manufacturing drawings and procedures
    - **Change control**
      - Approval of changes before they are implemented
      - Files controlled to ensure that changes don't sneak in
    - **Configuration status accounting**
      - Tracks current configuration and is used to ensure that the hardware (and software) is built to the latest rev.
      - Provided by LATDocs
    - **Configuration verification**
      - Periodic cross checks to ensure that approved changes are implemented



# CM Flow

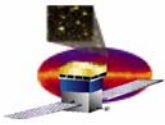




# Near Term SE Efforts

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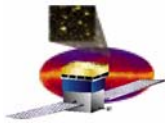
- **Status**
  - Have worked with the subsystems to audit and coordinate subsystem drawing trees
  - Have identified assembly drawings to show how the pieces come together
- **Plans**
  - Continue to refine the drawing tree to ensure consistency
  - Capturing potential changes in a matrix for periodic review
    - Provides the pre-screen defined in the CMP
  - Capture design changes since CDR
    - Subsystem Managers to include simple list of design changes since CDR for the next face-to-face
    - Intent is to provide visibility into changes and to verify that side effects are uncovered
    - SE will maintain the list
- **Ensure that drawings are under CM prior to Qual model build**



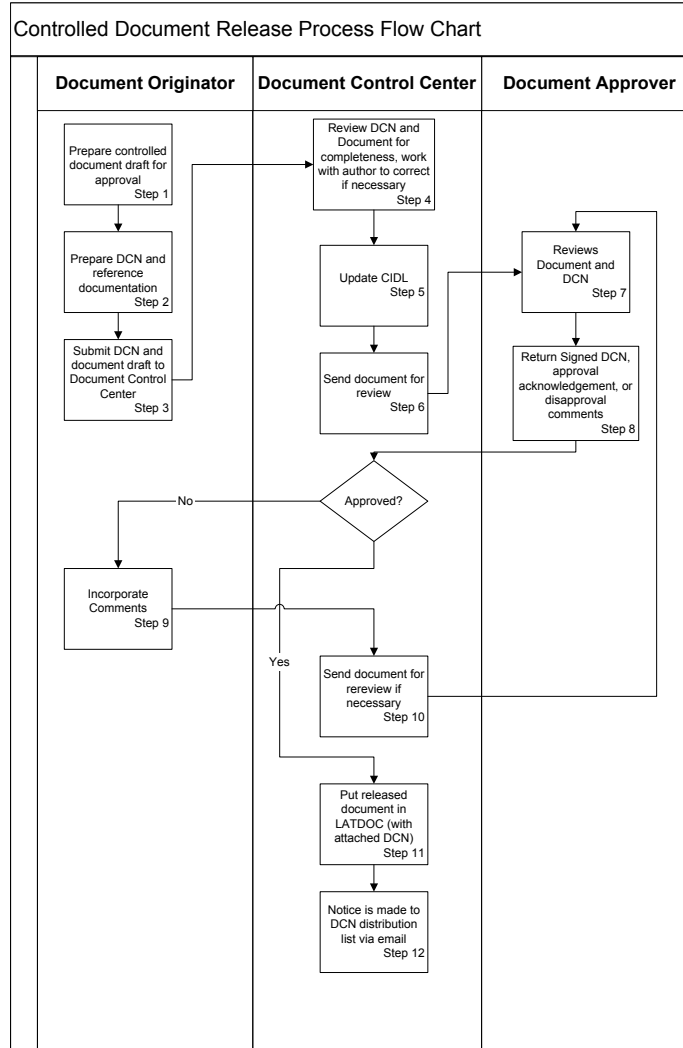
# What Does This Mean for You?

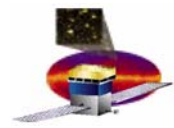
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- **Drawings and Solid Edge models must go under configuration control**
  - **When?**
    - **As released for flight build**
  - **How?**
    - **Drawing release process described on next page**
    - **Solid Edge control process is in work**
- **Once a drawing is released for flight build, all changes require Change Requests**
  - **This includes changes to the Solid Edge models for that drawing**
  - **CRB process is shown on a following chart**
- **ACD and Calorimeter work through their CM process**
  - **Level 4 changes processed internally, with information copies of the changes to be forwarded to the LAT CCB**
  - **Level 3 and higher must go through the LAT CCB**

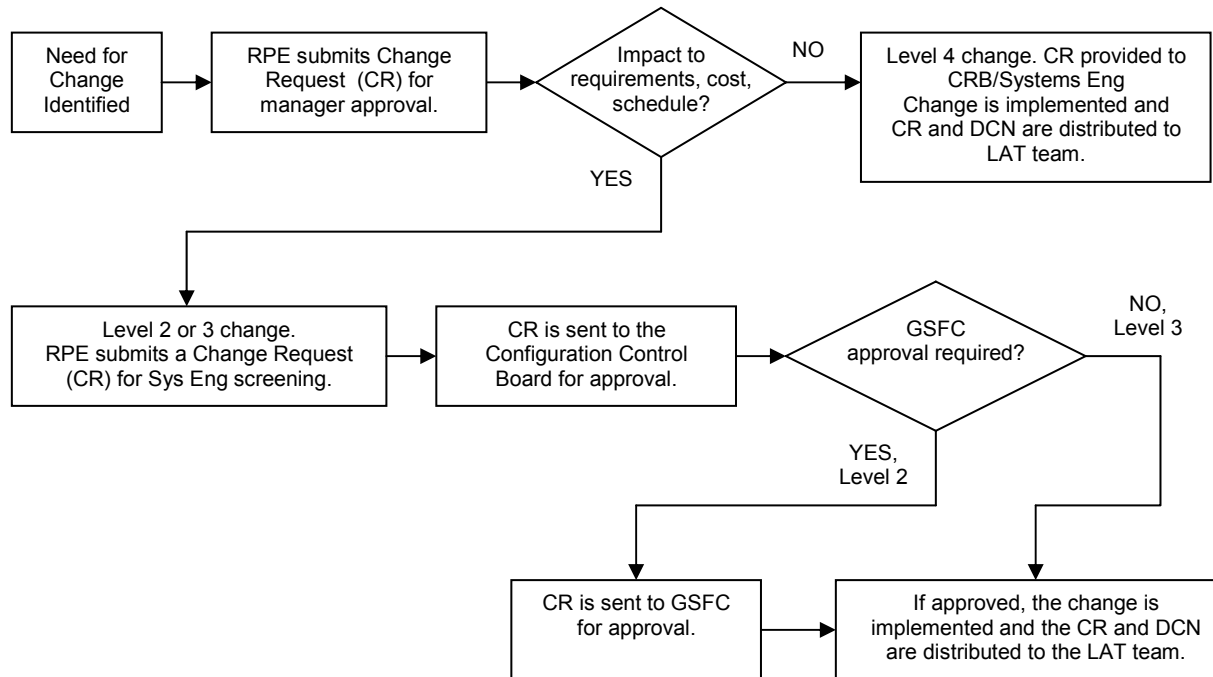


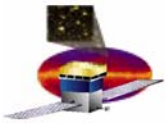
# Document Release Flow





# CRB Flow





# Level Definition Summary

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- **Level 1**
- **Level 2**
  - **Changes level 2 (mission) requirements**
  - **Cost impact >500K, Level 2 or higher milestone delay**
  - **Mass and power that causes LAT to exceed budget**
- **Level 3**
  - **Changes to level 3 (LAT) requirement**
  - **Changes to any subsystem allocation**
  - **Changes interfaces between subsystems**
  - **Changes that affect flight hardware that has been built**
- **Level 4**
  - **Changes within a subsystem with**
    - **No impacts to another subsystem**
    - **Cost <50K, no schedule impacts**
    - **Within mass and power allocations**
    - **Do not affect flight hardware that has been built**