GLAST LAT System Engineering

LAT Test Planning Meeting
Tests for 16 Tower and ACD Integration

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Goals

- Discuss requirements for testing to be performed through 16 tower and ACD installation
- Decide on the baseline plan that meets those requirements
Test Overview

- **Summary of required tests**

  - **Tower tests**
    - Single bay LPT or CPT at installation (may be grouped, optional, may be replaced with a Multibay CPT)
    - Multibay CPT required (including register tests)
    - Time-in Tower required
    - TE702 and TE704 required

  - **ACD tests required**
    - CPT
    - Time-in ACD

  - **SVAC tests required**
    - Calibrate Calorimeter
    - Calibrate Tracker
    - Calibrate ACD
    - Muon runs
Proposed Test Sequence Discussion

- LPT/CPT to verify installation
  - CPT or LPT?
    - No strong time advantage to LPT
  - How often? Two ideas have been discussed:
    - LPT Every 2 bays (10,12,14)
    - CPT at 12 towers

- Timing in bays
  - Before or after ACD installation?
    - Before gives us a baseline that matches the first 8
    - After gives us a timing parameter set for the whole LAT, but uses a new unproven test methodology and needs timing tests with the ACD in the tent

- SVAC
  - Perform after ACD installation
  - Short muon collection at 16 towers before ACD is installed to confirm LAT operations
    - Cal or tracker for last 8 towers not calibrated, first 2 towers have new TPS
    - how do we handle this?