GLAST Large Area Telescope:

Tracker Subsystem
WBS 4.1.4

Subsystem Managers Meeting

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# Tower A Schedule Highlights

<table>
<thead>
<tr>
<th>Task</th>
<th>Date</th>
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<tbody>
<tr>
<td>EM Bottom tray assembly</td>
<td>In progress</td>
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<tr>
<td>Tower A Top/Bottom tray assembly</td>
<td>June 10?</td>
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<tr>
<td>EM bottom tray static test</td>
<td>This weekend</td>
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<tr>
<td>Assembly of MCMs onto tray panels</td>
<td>June 10 – June 30</td>
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<tr>
<td>EM vibration test</td>
<td>June 21</td>
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<tr>
<td>Test of alignment procedures in Pisa</td>
<td>June 28</td>
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<tr>
<td>Tray thermal cycles and stacked-tray testing</td>
<td>July 2 to July 15</td>
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<tr>
<td>Flex circuit cables from Parlex</td>
<td>July 8</td>
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<tr>
<td>Tower assembly and test</td>
<td>July 16 to July 29</td>
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<tr>
<td>Vibration testing</td>
<td>July 30 to Aug 6?</td>
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<tr>
<td>Thermal-Vacuum testing</td>
<td>?</td>
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Tower A Schedule Issues

- Problems with releasing the assembly procedure may prevent flight bottom/top tray assembly from starting tomorrow.
- Delays in MCM mounting tooling is delaying tray assembly at G&A. Similar difficulties with getting the assembly procedure released. Also behind in getting the assembly drawings released. New issues yesterday with MCMs (only vague info so far)??
- Danger of sidewalls becoming critical. Similar issue with the procedure document release.
- Parlex flex-circuit cables are critical. They must meet the July 8 date.
- It may be possible to compress the tray testing and tower assembly-and-test relative to the previous page. Still, it appears to be impossible to complete the T/V testing before the Alenia shutdown.
SLAC Critical Deliveries

- MCMs
  - Need a decision on whether we can use MCMs as-is for Tower A (possibly with the enhanced screening).
- Cones, studs, etc., plus tools
  - In pretty good shape for static and EM vibe tests.
  - Flight order needed by mid July.
- Flex-circuit cables
- New aluminum cable retainers at the top of the tower
- EGSE systems
  - Need to get 2 more shipped now.
  - HV problem with 1 in Italy.
- Long cables to operate the EGSE in T/V testing
- Vibe fixture: in work at SLAC for this Friday
- Heat straps and fasteners
- Shipping containers and lifting fixtures
Design Work Still in Progress

• Flight hardware:
  – Assembly drawings for trays and tower
  – Top-tray corner-mount and cable restraint brackets

• GSE
  – Alignment hardware
  – Shipping containers
  – Lifting fixture
  – Vibration fixture and cable retainer
  – Cone adjusting tools
  – Cable bending tools
**Tower Delivery Schedule**

- Present plans in Italy would get the 16th tower delivered around April or May of 2005, working at the rate of 2 towers per month.
- INFN has proposed a plan to increase the production rate, which would require significant funding from the U.S.
  - Second tower assembly line, at G&A.
  - Second wire bonder at G&A to increase their tray production rate.
  - More assembly tools at Plyform and G&A to increase the tray production rate.