LAT Planning Meeting

Mechanical Systems
April 2004
Marc Campell
Mechanical Systems Critical Path

- Fabricate Flight Grid (4X4) #1
  - 8/31/04 / -54

- Fabricate EMI skirt, Grid details) #1
  - 8/31/04

- Inspect Flight Grid, EMI skirt, details #1
  - 9/1/04

- GBA Assembly fixtures/ MGSE
  - 6/30/04 / 0

- Grid Box Base Assembly #1 Operations
  - 10/7/04

- Flight Grid RFI #1
  - 10/7/04 / -54

- Flight Hardware for TCS
  - 6/30/04 / 0

- GBA #1 Fit Check Operations
  - 9/16/04

- Static Load Test Complete
  - 2/25/04 / -43

Completion Dates/Variance to Baseline
Grid Schedule Drivers

- 6 week hold (2/26 – 4/3) on machining during Tracker mechanical interface resolution and subsequent drawing release (& machine availability issues)
- 3 weeks additional scope added during revision process
  - 2 drawing revisions (March & April) and 1 pending (May)
- ~ 2 weeks – additional time required for machining
  - going slower than anticipated
  - 2 shifts not as productive as anticipated
Grid Schedule Issues

- Problem: Late changes to Grid interface requirements
- Impact: Grid #1 delivery from Tapemation (vendor)
  - Is: 8/31/04; Was: 6/15/04
- Needs:
  - Freeze Grid design & interfaces (really)
  - Real time part evaluation on Monday morning to review flatness data from Tapemation before they proceed
  - Grid drawing Rev 04 released – is in with Natalie with 40+ TEM/TPS EGSE and Tracker EGSE drawings in front of it
  - CCB approval of additional funds for Tapemation subcontract ($111K + next change)
Key Schedule Issues

- Problem: Late Grid delivery to SLAC drives delivery to I&T
- Impact: Grid to I & T delivery date
  - Is: 10/7/04; Was: 7/22/04
- Mitigation steps taken or planned to get back on schedule:
  - I&T will loan technicians to perform Mech assembly tasks
  - Static Load testing on second Grid established during re-baseline activity
  - Minimized Mechanical Systems assembly operations
  - Deleted Grid Box Assembly operations (fit check only)
  - Deleted Thermal Cycle testing of Grid Box assembly
  - Postponed some operations until after delivery to I&T
Radiator Critical Path

Completion Dates/Variance to Baseline

Protoqual Testing

VC Heat Pipe Fab
6/19/04 / -20

Radiator Assy Complete
11/28/04 / 0

Sine Vibration Survey
12/15/04 / 0

Acoustic Test
1/28/05 / 0

Sine Vibration Survey
2/14/05 / 0

Thermal Vacuum / Balance Test
4/7/05 / 0

Deliver to SLAC
4/21/05 / 0

Radiator
Details Fab
6/1/04 / -7

6/19/04 / -20

4/14/04
X-LAT Plate Critical Path

X-LAT Heat Pipe Fab
9/15/04 / 0

X-LAT Plate Assy Complete
10/29/04 / 0

P/Qual Thermal Vacuum Test
11/30/04 / 0

Deliver to SLAC
12/09/04 / 0

Completion Dates/Variance to Baseline