

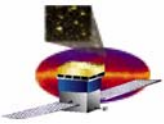
# LAT Planning Meeting

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**Mechanical/Thermal Systems**

**February 16, 2005**

**Marc Campell**

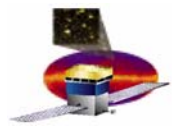


# Status Feb. 15, 2005

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## SLAC

- Bonding of the Grid Top Flange Heat Pipes complete.
- Bonding of Grid Thermistors 50% complete.
- Grid bake-out complete (outgassing concern)
- Preparations for sell to I&T are underway

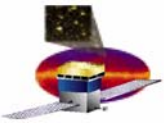


# Status Feb. 15, 2005 (cont)

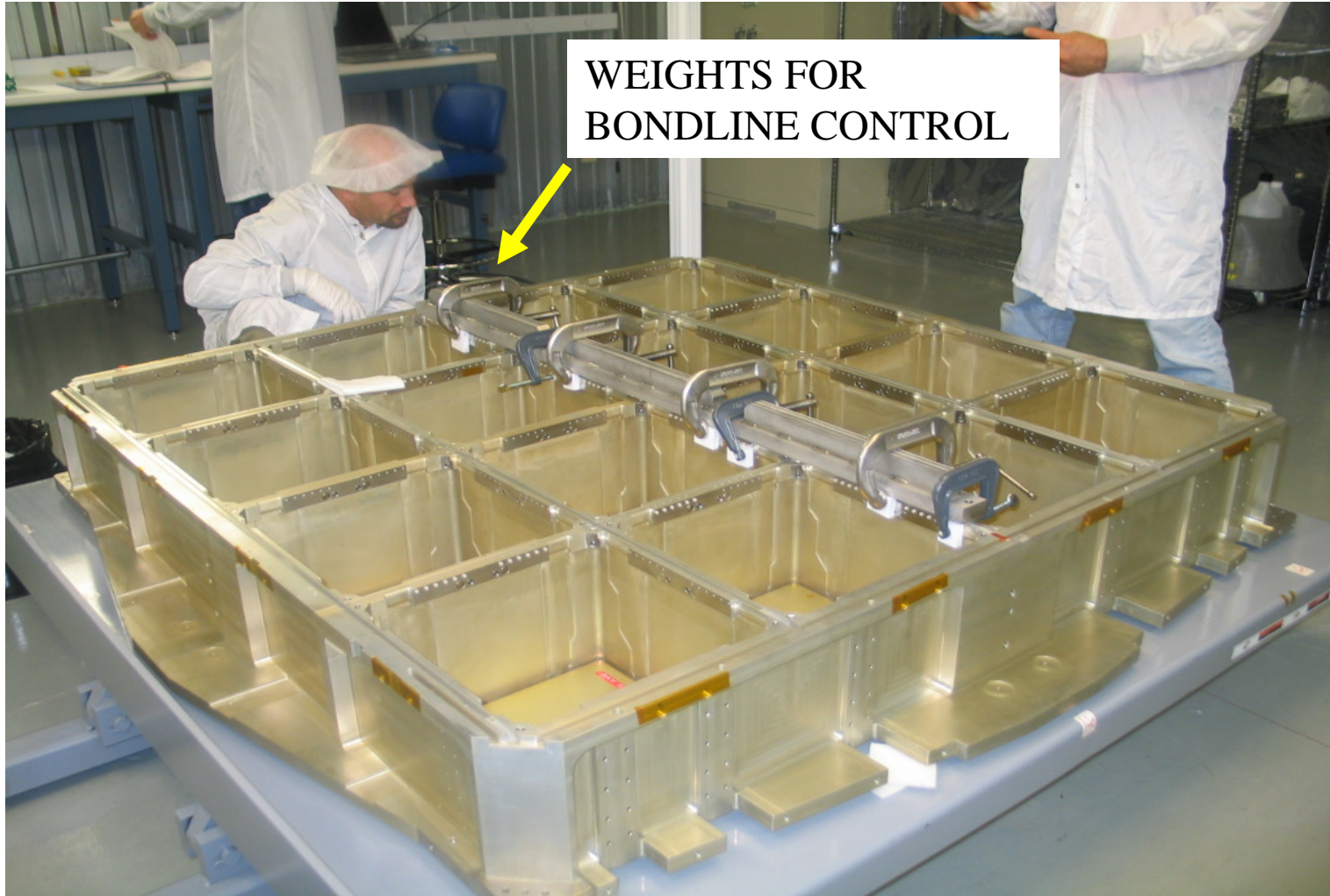
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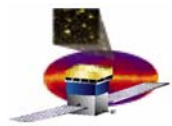
## Lockheed Martin

- Received final Estimate at Completion from LM
  - Cost control measures required
  - De-scope options under evaluation.
- Received X-LAT plate (detail) from Vendor.
- End Item Data Review successfully held for X-LAT Heat Pipes.
  - Ready to bond into next assembly.
- X-LAT tool try completed.
  - Some minor modifications required to improve functionality of the tool. In work.
- Radiator panels potting of inserts and spools is 25% complete.
- Radiator panel repair techniques (for honeycomb bonding) have been developed and demonstrated. Ready to implement on flight units.

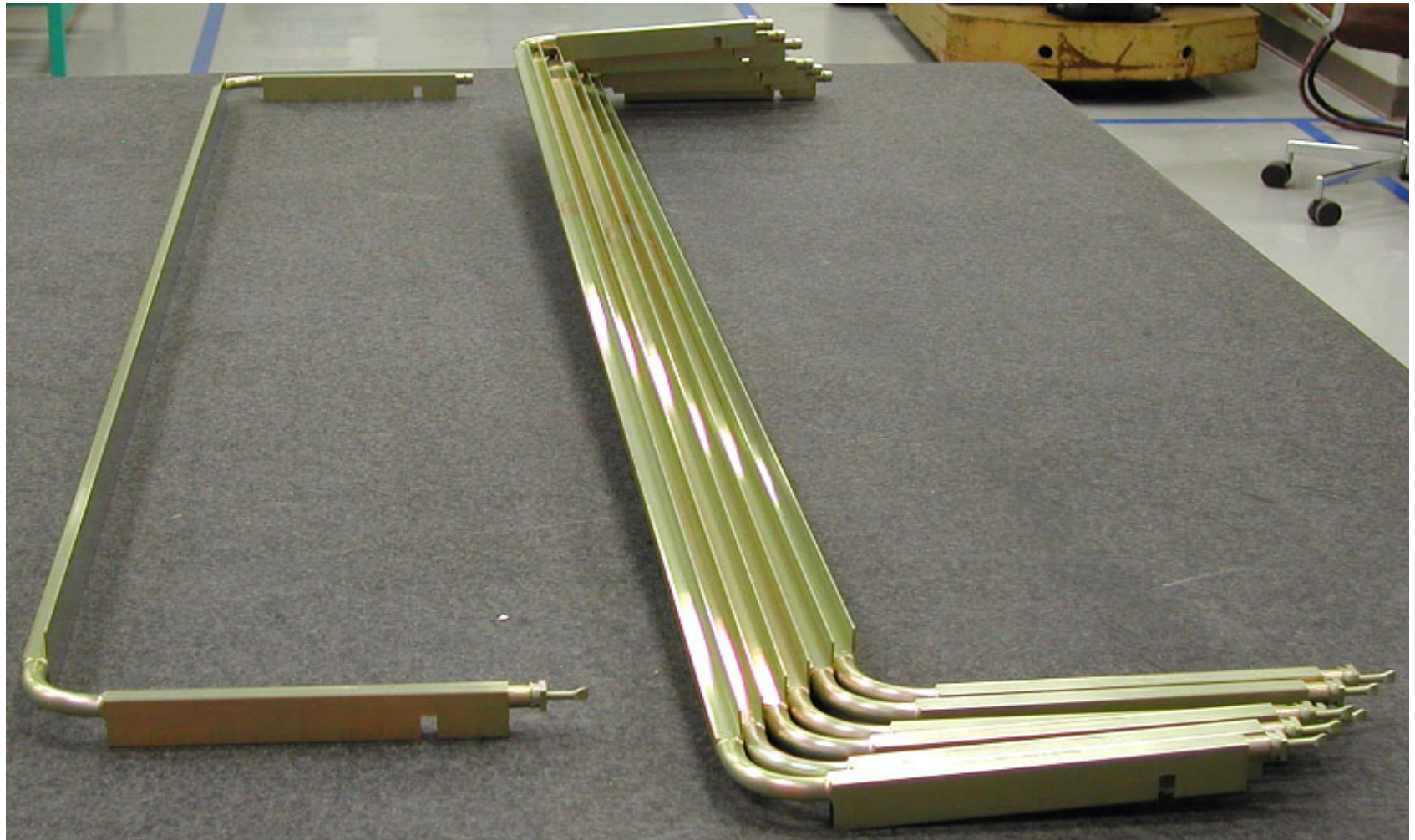


# Grid Heat Pipe Bonding

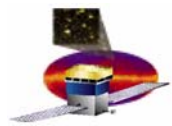




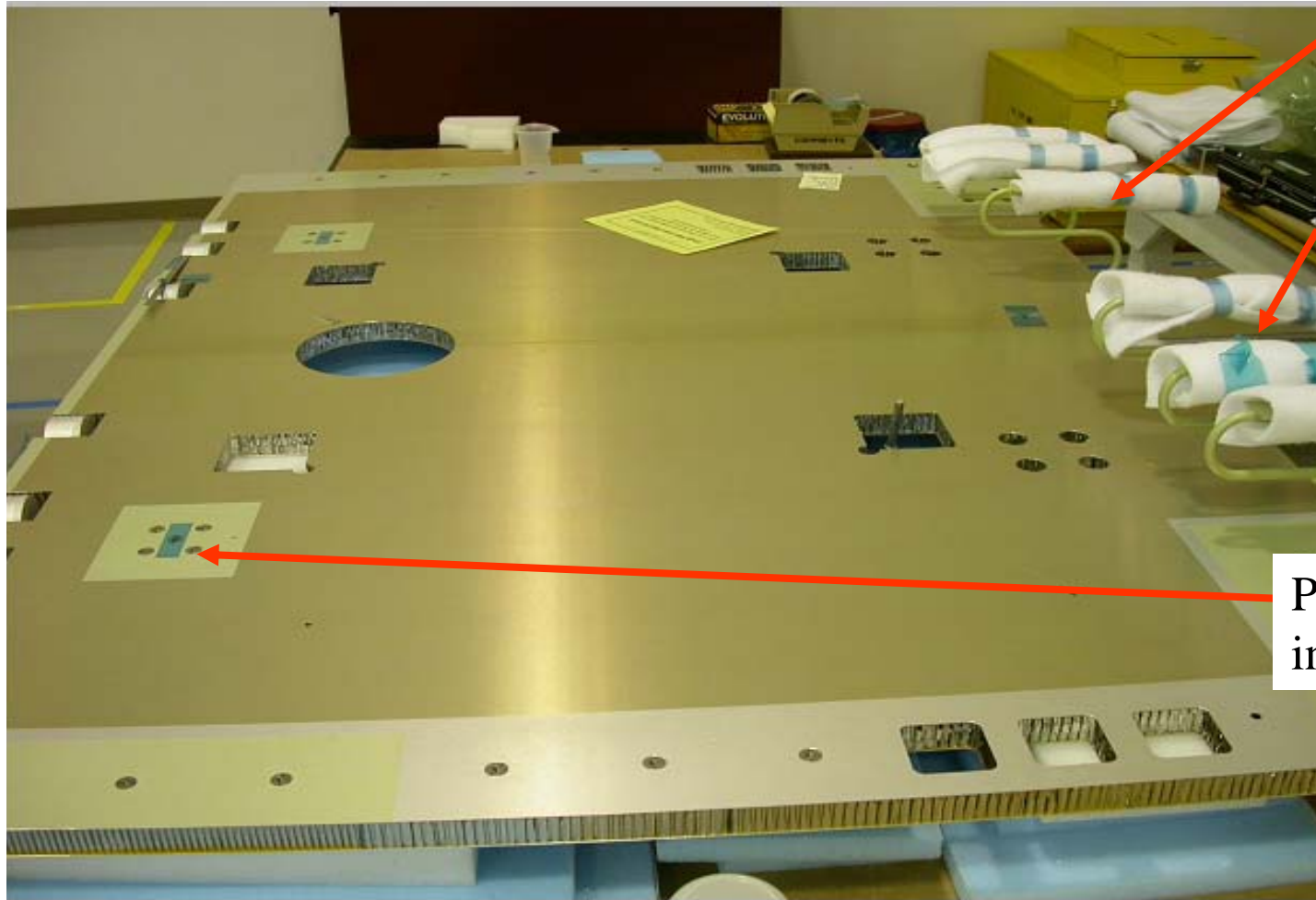
# X-LAT Heat Pipes







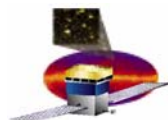
# -Y Radiator Panel



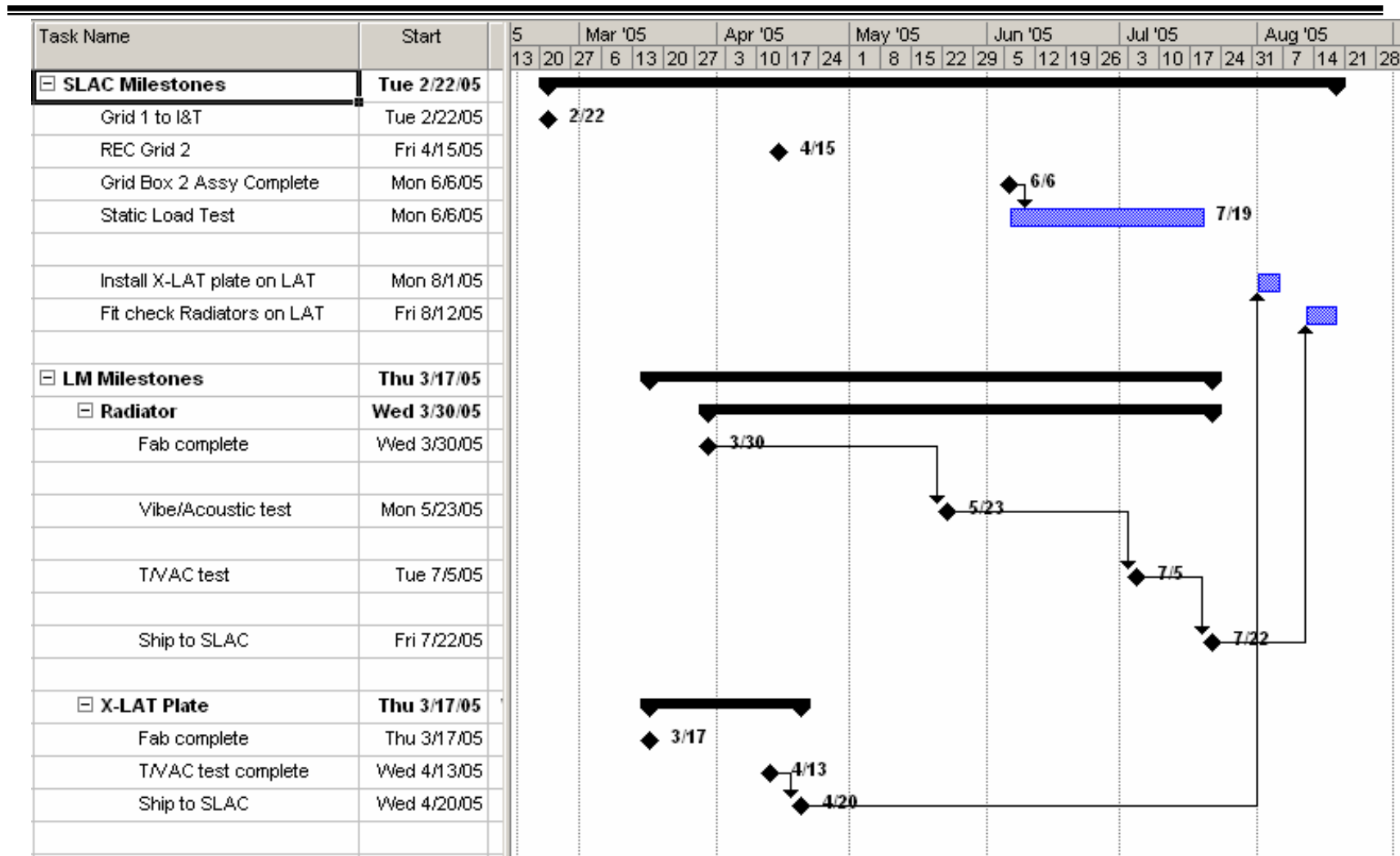
Heat pipes

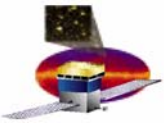
RIT  
interface  
flange

Potted  
inserts



# MECH Milestones





# Threats to RFI

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- **LM X-LAT & Radiator delivery have no float and LM manufacturing is not maintaining their schedule**
- **Radiator**
  - **First time use of bonding/assembly tool & procedures. There have been Discrepancies at each step along the way. MFG schedule and marching army costs.**
  - **Potential cost over runs in testing**
    - **Vibration/Acoustic tests**
      - **Fixture design**
      - **Instrumentation requirements**
    - **Timely resolution of test anomalies.**