Anders W. Borgland

Science
Verification,
Analysis and
Calibrations
/
ISOC
LAT@NRL: Close To TVAC

From ISOC All Hands Meeting

System Commissioning/ System Test → 5/11/06 → Shipment

5/16/06

Offload & Set-up LAT → CPT → Sine Vibe → Install Radiators → EMI/EMC Test → Acoustic Test

5 days
5 days
9 days
2 days
11 days
7 days

PER 5/25/06

We Are Here

Pre TV → T-Bal → T-Cycle → CPT

8 days
40 days
3 days

7/10/06

CPT → Remove Radiators → Weight & CG

3 days
2 days
2 days

PSR 9/13/06

Pack and Ship

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TVAC

- See Eric Grove's presentation from the Test Readiness Review:
  - Linked from today's agenda
- Will take lots of muons .....
Onboard Filter

• We finally managed to take data with the onboard filter:
  – Have to disable the periodic trigger
  – Will be fixed in later version of FSW

• 5 kHz trigger:
  – Overlay cosmic data with 5 kHz external trigger
  – Everything goes to the onboard filter:
    – Which promptly tosses out all but 35 Hz

• Trying to get a detailed description of the filter we currently use:
  – It is rejecting TKR&&ROI events

• Very close to on orbit operations!
  – High input rate
  – High readout rate
  – Hopefully what comes out is enriched in photons .....
Onboard Filter Runs

• Will soon update the runs list.
• In the meantime:
  – **Gammafilter + 5 kHz external trigger + cosmics:**
    – 077006674, 077006675
    – 077006770-077006806
  – **Gammafilter + cosmics:**
    – 077006673
    – 077006654, 077006668, 077006669
    – 077006488, 077006593, 077006652, 077006653, 077006666, 077006667
    – 077006769
Calibration file Bug

• Offline calibration file had 20 MeV for CAL LO threshold instead of 100 MeV!
  – No effect on data!
  – GemConditionsWord
  – Affected the MC:
    – Lots of extra CAL LO triggers from TriggerAlg.
    – GltWord

• Fixed!
  – Have remade the MC.
  – Busy merging the ntuples.
    – Will send out an email when it's done.
Summary

• NRL:
  – EMI and Acoustics done
  – Waiting for TVAC chamber problems to be fixed

• Onboard filter runs:
  – Both with and without 5 kHz external trigger
  – Close to on orbit operations