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\*\*\* WBS 4.1.5 CALORIMETER (N. Johnson/Carosso)

4.1.5.1 CAL Management

Started detailed discussion of requested changes on the EM development approach, goals, and schedule  
PMCS resource loading  
IOC review telephone conference.

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4.1.5.3 Mission Assurance

Completed draft of Bonding Specification and is being reviewed by CAL engineers prior to releasing to France.  
Reviewing CAL and Tracker parts list and will suggest possible alternate parts if required.  
Verification plan for CAL is under review and will be modified after receiving comments.  
Attended ACD, CAL, and Tracker meetings.  
Supported Tracker Engineers for the upcoming Tracker Electronics Review and discussed various parts issues.  
Had a meeting with the GLAST Goddard Parts engineer and discussed various parts issues.

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4.1.5.5 Crystal Detector Elements

Continued PIN bonding tests, thermal cycling of optical adhesives. (NRL)

Revised crystal optical testing station analysis (i.e. peak fitting) software to read the revised data header created by the acquisition software. (NRL)

Sweden

Our vacuum packing machine for the x-tals has been tested and seems OK. We can pack up to 6 x-tals at the same time, and the process is fully automatic.

The 12 first x-tals of this 106 batch arrived in Kalmar on tuesday afternoon october 9. It seems like the transport and custom procedures is stable around 3-4 days for X-tal shipment from Amcrys-h to Kalmar.

Georg has been checking x-tals for optical parameters, all 12 was measured once, some needs to have a closer look at. Staffan and Georg will produce a report over the measurements and we will have a discussion with Per before we talk to Amcrys-h.

We plan to ship x-tals to France around october 17 next week.

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4.1.5.7 Analog Front End Electronics

Laser Latchup testing of the Version 2 GCFE design was performed with the result of no latchups to the tested energy equivalence of hundrends of LETs. The calorimeter VM single row electronics board was received from fabrication, and is currently

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being assembled. The first use of the Cal VM board will be to develop and test the  
Cal GCRC VHDL code design. Two Cal VM boards will be sent to France for fit  
checking. Testing of the version 2 GCFE chip has started. Along with the GCFE  
chip testing we are making modifications/corrections to our GCFE test board  
hardware/software setup. In a few weeks we will receive the next version of the Cal  
GCFE chip, version 2B.

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#### 4. 1. E. 3 CAL Balloon Flight

Continuing work on energy calibration algorithms. (NRL)

Beginning analysis of stability of light tapering in the 80 CsI crystals after 18  
months of storage, mechanical vibration and shock, temperature cycling, humidity  
variation, etc etc.

Packed CAL and supporting hardware at GSFC for return to NRL. Will check out  
performance of CAL once it's set up in the lab. TEM's VME crate stayed at SLAC, did  
not travel with CAL, did not return to NRL. (NRL)

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