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*** WBS 4. 1. 5 CALORIMETER (N. Johnson/Carosso)

4. 1. 5. 1 CAL Management

- Continued PMCS input
- Adding personnel in critical engineering areas

France

- Meeting on the results of the CEA test bench and wrapping.
- Meeting on the VM2 tests and policy of the models.

4. 1. 5. 3 Performance Assurance

- Completed CAL peer review action items and responses were accepted.
- Completed ACD peer review action items and responses were accepted.
- Attended weekly meetings of ACD and CAL.
- Attended meetings to resolve issues related to PIN photodiode bonding and prepared a draft specification which is under review.
- Prepared a calorimeter verification document (rough draft) which is under review and will be released soon.
- Attended LAT I&T peer review and was advised that CAL contamination is acceptable and does not require any modifications at this time.
- Collecting EEE parts data for a formal PCB.
- Discussed parts issues with CAL, SLAC, ACD design engineers.
- Preparing a calorimeter reliability analysis and is in process.
- Work order database is in beta testing and will be launched before the end of October.

4. 1. 5. 4 Calorimeter design

4. 1. 5. 5 CsI detector element

4. 1. 5. 5. 1 CDE Design

France

- optimization of wrapping procedure of CsI logs in progress
- New calibration of the Saclay Cosmic bench .
- Report on the last measurements on the Saclay Cosmic bench in progress.
- Upgrading of the Saclay Cosmic bench electronics for the VM2 tests.

4. 1. 5. 5. 1. 1 Bonding process

- final gluing tests with the DPDiodes on CsI sample.
- thermal cycling (20 cycles) under vacuum of glued samples:
 - soft epoxy CsI/Glast : OK
 - Diodes 10-20 / Csi : partly unstick

4. 1. 5. 5. 2 Csi (TI) Scintillation Crystals

After the trip to Ukraine, i have following actions in Kalmar.

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All materials for the next two optical benches are in my machine shop. Assembly has been started.

For the last two optical benches i have almost everything except the source containers from Fabcast and the inner frame work, delivery time in one month. Assembly has not started.

After the visit to Amcrys-h i will make some small changes to the mechanical test bench, so it is identical to the one that Amcrys-h has. Work in progress, ready next week.

All electronics for the next two optical benches except the nim-bins are in Kalmar.

All the PM-tubes (10) (two in spare) are in Kalmar.

I will get samples from 3M on tapes next week. (to be used on tyvek)

And we are ready to check the x-tals from Amcrys-h (Georg).

Continuing discussions with Amcrys-h about the source problem. To be solved asap.

4.1.5.5.3 Dual Pin Photodiode

- Starting of a technical evaluation plan for the DPD
- Measurement of the DPD+ kapton +Soldering (capacitance and dark courant) for the VM2 .
- report in progress

4.1.5.5.4 PIN Interconnect

- Work on the design of the EM flex form , soldering , gluing, fixing with the moke up of the structure.
- One mockup sent to NRL

4.1.5.5.5 CDE A&T

Start of the gluing of the DPD on the VM2 crystals at CdF .

4.1.5.5.5.4 CDE test GSE

Begining of the adaptation of the electronics of the cosmic test bench for VM2 .

4.1.5.6 Pre-electronics Module(PEM)

France

- Issued the requirements for FE Thermo-mechanical Analysis of CAL structure.
- Preparation of the VM2 tests
- PEM GSE - In progress.

4.1.5.7 Analog Front End Electronics

Peformed laser radiation testing of the GCFE Ver 2 chip. (NRL)

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