

SPB telcon 8/15/2016 Notes

Attending: Lawrence, Angela, Lech, Jim A, Gustavo, Will H., Jorg B, Will P., Claudio F., Austin, Peter, Marco R., Steve M(report)

Agenda:

Schedule/Travel	Lawrence	5+
Shipping to NZ package to complete the attached packing list form)	Lawrence	5 (I need to ask the person responsible for each work
PDM shipment	Lawrence/Guillaume	(2 min)
HK and LVPS	Gustavo	5 + 5 min
HV situation	Discussion/ formation of working group	10 min
CCB/Trigger	Jorg	5
Lens Testing (timmins)	Johannes/Peter/Abraham	5 min
Lens Mounting	Johannes	5 min
Gondola Mechanical	W. Finch	5 min
DP	Guisepppe	5 min
DP Software	Claudio	5 min
Anil Dev Software	Francesco	5 min
Solar Power System	Jim A	5 min
UCIRC	Steve M	5 min
SiECA	Will P.	5 min

Action items:

All: Send Lawrence completed shipping spread sheet (need this for each work package by Friday)

Gustavo, William H, and others focus on fixing various HK/LVPS issues this week.

Lawrence, Angela provide letters to support Juan Carlos for visa application.

Jim A and Yitz need to discuss cables. Lech – provide Lawrence with grounding scheme for EUSO-Balloon Timmins.

Lawrence: Follow up on PDM shipment with Customs broker.

Jorg: Think about how to implement an external trigger for EUSO-SPB for lab and field tests.

Notes:

Discussion of travel. Got dates from William H, Will Painter, Jorg is working on arrangements Will also need a few people for hang tests in Palistine

Shipping to NZ Lawrence requested that all groups responsible for work package send Lawrence their completed spread sheet by Friday.

PDM Shipment: Last report was that it had probably reached Chicago last Friday.

HV HVPS Gustavo All HK, LVPS lost in Delta Airlines System for 1 week. Gustavo reported that everything was checked everything this weekend for damage by Delta/Customs All ok (Undamaged).

HK_old (two problems in Toulouse) SPI bus was not functioning. Problem was very likely identified as one client was faulty (thermostat was faulty, will be replaced by analog device). Juan Carlos had no time to test in Toulouse. Starting to work on this

Also problem with monitoring in old HK, problem with Arduino board today. End of today should identify problem. If this problem is what we think it is, trivial to solve. Just

HK_Ancillary device never tested in integration since no analog devices available. When the connection was tried to be established with CPU, CPU and HK_new still don't understand each other. **LVPS_PDM** mechanical structure was prepared and tested, adapted mechanical structure for old box to use in DP system. Was a worrisome problem. Relay inside burned twice. Same relay that was used in all the boards that have never given a problem. Lost a week of testing because of lost packages. Trying to understand where this issue comes from.

LVPS CPU another issue. Was prepared for requirements for older no requirements delivered until tested in Toulouse with new CPU. Laboratory power supply CPU boots. 6 amps was enough for OLD cpu. New CPU uses 2-2.1 amps. Plenty of power once booted. Problem is timescale? Upto time scales of milliseconds it never goes above 2.1 amps. Implementing a bank of capacitors to try to deal with this. Very time consuming to try to search another DC-DC converter. In case some new DC-DC converter is needed to solve problems.

LVPS_Ancillary worked well in lab in thermal vac

Discussion about number of people available to work the problem. Will H. will come to Colorado. Juan Carlos will start visa process for US to be available in Colorado if necessary.

HV situation: Situation unclear. Not enough experts on hand for discussion.

CCB/Trigger: Jorg L1 trigger forwarding from CCB to clockboard. Was working. In Toulouse limited time with trigger. Use LED. Sometimes had a lot of L1 triggers. Implemented a simple command to switch on and off the trigger itself. Will implement an external trigger for Colorado lab tests and Utah field tests.

DP software: Claudio Software working in acquisition mode. Not working in scurve working. Hope to solve soon when system is ready to be used.

Ancillary Device Software: No report available.

Lens Testing: Tests of Timmins Lenses declared complete. Preliminary analysis finds comparable to higher efficiency than more complete tests by Camille. Analysis is on going.

Lens Mounting: 3 lens mounts have been positioned in red box. Some more mechanical work to do. Plan to mount new lenses later this week in red box and start testing.

Solar power system Jim Crinoline out for painting.

Batteries in golden Controllers sent

Jim will be back in HSV first full week in Sept.

Jim and Yitz need to communicate about cables

SiECA Will P. SiECAQ will output a data stream properly if connected to a CPU-like device. So this can be tested in Colorado. Trying to get an operating setup. EE returning tomorrow. Will spend 5 days doing everything possible to get this version working. Will still come to Colorado. Morning August 24th. Finish second SiECA readout board. Figure out modifications needed that can be made by Painter in NZ. Planning to be in US Mines am of 24th, flight back Oct 10th

Mechanical: Lawrence for Yitz Exoskeleton approved by NASA ME. Design of battery box and

supports is in progress. Jim recommended that we get the gondola cables pull tested.