

Minutes for AMiBA Engineering Telecon

Meeting Date: 09-Jun-2005

Participants:

Australia:

USA: Patrick, Kyle, Johnson, Joshua, Keiichi

Taiwan: Chia-Hao, Homin, Po-I, Ted, C.T.

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Minutes Recorder: Kyle

I. New Action Items:

II. Previous Action Items (still open):

III. Closed Action Items (as of this meeting):

IV. Miscellaneous Discussions:

Platform:

Ted - Welding of interface ring is all finished. Next will be sent to oven for stress relieve and can be machined after that. Our next inspection is scheduled at the end of June when they mark the hole pattern before drilling holes.

Ted - Philippe and Joshua measured the distance of pins. They found 2 - 4 mm difference from the drawing, possibly manufacturing errors. It can be tolerated.

Patrick - Philippe asked me to measure again.

(02/Jun/2005)

M.T. - Measurement of the hole pattern and pin location is critical. Welcome everyone's input on how to measure about 2.5m distance at 1mm accuracy.

(26/May/2005)

Philippe - Ted received a quote of the crane to be installed in the shelter. It can be retracted when the shelter is closed.

Mount:

Patrick - Will install new software PTC 1.6 tomorrow. Klaus will come on Saturday and leave next Thursday. He will mainly be working on the safety issue. Michael will arrive next Thursday and depart the following Tuesday. His work will be concentrated on making an automatic pointing procedure.

Homin - Guillaume has written a linux based software for CCD control. He is working on the documents and will circulate when done.

Homin - We will also send out details of the program to Michael so he can integrate it into a_boss.

(02/Jun/2005)

Patrick - I need to analyze the 24 stars pointing data and feedback the error to Vertex.

Receiver:

Pierre - We need 208V for the compressor, and a dog house to shelter it. It could take some time before we can start using receivers.

C.T. - We plan to ship out the next receivers in early July.

Pierre - Two quick fixes to the LNA power supply card. First, reverse the protection diode instead of removing it should provide a protection at 3V. Second, the polarized capacitor at output is reversed and I suspect it is dead. They should be replaced.

Pierre - I noticed the LNA bias supply is quite noisy. It may be a result of noisy measurement environment. Need to investigate further when we settle down. I will send out a preliminary report on this issue.

Cold Head power distribution:

Pierre - Parts arrived but I did not have time yet. We should try a set of this power distribution in the new office.

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C.T. - We need three compressors but only have two. We should ask M.T. about ordering another compressor to be used on the mountain.

Correlator:

C.T. - I will revise the backplane for data box. I will send a trip report out to describe the problems I found in Hilo.

C.T. - Po-I will finish the design of bracket. We should find a time for a review on the design.

(02/Jun/2005)

C.T. - The problem I found is the clock signals distributed on the backplane are distorted and not synchronized. I reroute the signal paths to synchronize them in FPGA.

Calibration System:

Kyle - I circulated the minute of our review about the calibration system. It also refers to a post on the discussion board about the testing results. Please take a look.

LO/IF:

Shockly - I will check the IF/LO that will be sent to Hilo next.

Misc:

We have vacated CSO last Friday. Only a compressor and a helium cylinder are left in CSO for relocation later.

Ted - I will prepare a draft about routing the helium line up to the platform. I will need input from all who can help. Target date for cabling is mid to late July.