

## Minutes for AMiBA Engineering Telecon

Meeting Date: 28-April-2005

Participants:

Australia:

USA: Ted

Taiwan: C.T., Chao-Hao, Johnson, Patrick, Pierre, Kyle, Homin, Steven, M.T., Joshua

USA Dial-in = 1-800-653-5390, 6668081#

Outside USA Dial-in = 1 773 843 6301

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** - We went to inspect the interface ring in Honolulu. The vendor was not planning to meet our spec. Philippe, Kevin and I reviewed our spec and will send our conclusion to them. The spec was written in the contract already. Current status is materials are cut and waiting to be welded.

Site:

**Ted** - Vendor has setup all the poles for the fence. They will need about two more days to finish the job starting next Thursday.

Helium line and Receiver:

**Chao-Hao** - Last week I have finished testing of the 1<sup>st</sup> set of helium line with four receivers. All can be cooled to 10-12K. This Tuesday I started testing the 2<sup>nd</sup> set.

**Ted** - No one has a clear idea of how to pull helium lines from compressor to the platform. Tashun only designed the hard helium lines on the platform.

**M.T.** - If you still have time, please figure out the length required for the 1/2 inch helium lines and also think about how the line goes up. I suggest we take one of the 9m lines in the lab to try on site. May consider let Chao-Hao to go and help.

Mount:

**Patrick** - We still don't know when Vertex will send out the corrected version of the pointing software. Even when they do, we don't know for sure it will work because Vertex did not tell us what they changes on the software. Michael suggested that Vertex should somehow mathematically prove their new algorithm is safe.

**Homin** - They should tell us what was wrong. Better if they can provide us how they fix it and we can investigate whether it's correct or not.

**M.T.** - It's probably not so obvious and not easy to do. We don't have people to investigate. It is their job to fix it for us. However, they will provide us the source code after it is completed.

Power Distribution:

**C.T.** - The box will arrive maybe next week. Cables are also there already. I will go sometime to do the work.

**Pierre** - I am still waiting for some components for the cold head control. It will probably take another two weeks.

## Minutes for AMiBA Engineering Telecon

### Correlator:

**C.T.** - No update.

### Calibration System:

**Kyle** - I finally finished analyzing the last measurements I did before I left Hilo. 13GHz system results and 26GHz system results do not agree with each other. I mean the relative phase offset between two receivers at certain IF frequency is one value measured by 13GHz system and is another value when measured with the 26GHz system.

**C.T.** - Is the discrepancy in phase or amplitude?

**Kyle** - I still could not verify the spectrum shape in amplitude due to the unknown conversion loss of the x4 multiplier. The discrepancy was referred to in phase.

### LO/IF:

**M.T.** - Thanks to Steven for his good job for the past year.

**Steven** - I will discuss with people about the job transfer list.

**Kyle** - Do we have all the IF cables in Hilo?

**C.T.** - We only ordered for three receivers. We'll wait for Ted and Philippe to put up the platform and see if the current cable is long enough.

### Misc:

**M.T.** - We still haven't found a place to move to yet. We should work on it.