

Minutes for AMiBA Engineering Telecon

Meeting Date: 10-March-2005

Participants:

Australia:

USA: M.T., Ted, Pierre, Kyle, Johnson, Michel, Phillip, Hioaki, Light

Taiwan: Homin, C.T., Steven, Chao-Hao, Joshua, West

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Minutes Recorder: Steven

I. New Action Items:

II. Previous Action Items (still open):

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

IV. Miscellaneous Discussions:

Mount:

M.T. - About the hexpod, Stefan and Patrick is just going there and the acceptance test is in roughly working stage. Basically, the hexpod can roughly track and point. We can see the star in the CCD field. We have some problems on the software in TCS computer. Michel is working on it and will be in Hilo tomorrow. Anyway, the acceptance test is finally closed in this stage. We will have four scales pointing in the following stage. From the point of Stefan, his work is completed today.

Michel - I make some change on the program to fix the problems.

Platform:

Ted - The interface ring schedule would be 6 to 8 weeks. Next Monday we will start the platform assembly and will replace the dummy ring to interface ring when it arrives.

M.T. - In another words, we will not install the platform one to two months.

Dish:

M.T. - Professor Chieuh is working with Aalong for the 1.2m. They are question the content of contract. Aalong is asking Ted for the autocad drawing.

Ted - I think they have some confusion. I did not involve 1.2m.

C.T. - Jeff Peterson had tested the design of 1.2m dish. **M.T.** - The dish so called white dish. The consultant fee is for beam pattern measurement. The secondary cut out of vertex is too small. The consultant fee did not include the using of this design.

Correlator:

C.T. - I have no update since I am in Tokyo last week.

Ted - I got West's e-mail and I contact the Johnason and waiting for his reply.

C.T. - Please ship it to Hilo directly since I will ship the breaker in this month. **Phillip** - Have you try the breaker? The concern is it will be in horizontal or any other direction. **C.T.** - I just test it in vertical direction. I will try it to turn the different position.

Calibration System:

Kyle - I haven't the chance to test it. I think the most important thing is waiting the receiver and correlator for testing.

C.T. - Can we figure out the band pass property at this time? From your post, I can not see any plot of this. **Kyle** - The harmonic generator is not the one we use. The lower frequency has much bigger conversion loss. It is not optimized in the band we use. The vendor will change the band to what we prefer. The plot I send out is emphasizing the phase we have now.

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LO/IF:

Steven - I am still working on the #5 to #7. I got the e-mail from Millitech, the attenuators will be shipped in 60 days. It was 45 days but have some problems in the material. **M.T.** - Can they do the partial shipment? **Steven** - I will ask them for it. I am still waiting the two new amplifiers for testing. **C.T.** - During the meeting, people from other project ask me about how do we deal with the IF power variation during a day. I think the use of some gain control loop might be a solution. **M.T.** - But it does not work. We have no idea how good the point during a day. It takes time for day time observation.

Receiver:

Johnson - We have two receiver tests on it. One LNA in Rx4 is not working. We replace a good one and it works normally now. The noise temperature is 85K in room temperature. Rx3 we found one mixer was not working and we change it to the spare one.

Site:

Kyle - Patrick would like to mention that he still can not taking the CCD image remotely. It means he can not control it properly through the TCS. Homin - I reply his e-mail yesterday and did not get any information from him. I have some suggestion for him to try. I think it should be some trivial things. I will call him today anyway.