

Minutes for AMiBA Engineering Telecon

Meeting Date: 12-May-2005

Participants:

Australia:

USA: Ted, C.T., Patrick, M.T., Kyle

Taiwan: Chia-Hao, Johnson, Pierre, Homin

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

Outside USA Dial-in = 1 773 843 6301

Minutes Recorder: (Kyle from audio recording)

I. New Action Items:

II. Previous Action Items (still open):

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

IV. Miscellaneous Discussions:

Platform:

M.T. - The interface ring is still on hold until the manufacturer can talk to Philippe. This Friday Philippe will be in Honolulu. Ted and I will fly to Honolulu, too, to join the discussion. Philippe believes there should be no more problem.

Homin - The difficulty in milling the material should depend on the type of milling machine they have. If they have a horizontal milling machine, it should work.

Ted - Not sure if they have that type or not.

Pierre - Since we are suggesting them to machine six pieces individually and assemble them together, the accuracy of the hole for alignment pin is very critical. It could be difficult.

Site:

Ted - Vendor of the fence will go up tomorrow to finish the job. For the lock of gate, I plan to use combination lock.

Helium line:

Chia-Hao - I have finished the tests on helium lines and will write a report to everyone.

M.T. - We'll decide what to do after the report is out. It is not urgently needed in Hilo, so we'll hold up the shipping till later.

Ted - I have estimated the length of helium line needed on site, but I need to measure them more accurately when I go up. Now I plan to have the compressors right in between supporting cone and the shelter. There is about 10ft from compressor to the lower universal joint. We'll make a connection at this point for maintenance reasons. And the helium lines will follow jack 3 and jack 4 up to the platform.

M.T. - We have a new plan to put the compressors near the corner of the shelter which will result in longer helium lines. We need to do some simulation for different plans.

Ted - Don't forget that we need to reserve room for manlift to access the back side of the platform when we consider the location of the compressors.

M.T. - It is not trivial to pull helium lines up along jackscrews because they are complicated. We need to think more.

Receiver:

Johnson - I got quotes on the isolators to order more. We'll also need to order some missing waveguides.

M.T. - Do we have spare isolators when we order new ones?

Homin - Rx8 should be the spare parts.

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Johnson - We only have seven production type feedhorns now. Can we use prototype feedhorn on Rx8?

M.T. - ok.

M.T. - Pierre, please update you last report and include more details about your plan to fix the receiver power supply box with 22uF capacitor.

Pierre - I should order five more in-rush limiters and send them to Hilo. I also plan to buy some 3U VME card extender (three-row connectors). This is useful to debug the cards.

C.T. - Could you include some with 4-row connectors?

Pierre - 4-row ones are not standard and could be difficult to find.

Cold Head power distribution:

Pierre - I have got the shipment I am waiting for and will finish and ship out before I go to Hilo.

Pierre - Cold head power distribution should be separated from 48V distribution in order to have less interference.

Ted - Cold head power is better separated from helium lines to avoid physical damage from friction.

Mount:

Patrick - I have got all the software updates and will go up tomorrow to test them.

Correlator:

C.T. - Two receivers are finally turned on. I am ready to use them to test the correlators.

Calibration System:

M.T. - We should have a review meeting when Kyle arrives Hilo next week.

Kyle - I am asking quote for some 20dB WR-10 attenuators to be used together with our newly ordered harmonic generators. Also need quote for some mixers and IF switches to complete the test on feedback system of calibration source.

LO/IF:

Johnson - I will order 12 piece s of variable gain amplifier. They are projected to be shipped out to Taipei at end of May. I will first install them in Taipei with necessary modification and send the rest IF/LO modules to Hilo.

Misc:

Pierre - I received a handheld oscilloscope and will bring it to Hilo.

M.T. - We still haven't found the new space yet. Rental agent showed me one place that looks promising and is waiting for reply from the owner.

M.T. - I will send out advertisement for hiring a new electrician, but not the one for a new microwave engineer.

M.T. - We need to find a manlift for the site. Pierre, could you work on it?

Ted - I could provide some information I have gathered so far.