

Minutes for AMiBA Engineering Telecom 20061130, UTC 1:00

Regular Meeting Time: UTC 1:00 Every Thursday

Patrick, CT, Ken, Chia-Hou, Joshua, Johnny, Pablo, Patrick, Hiroaki, Homin, Johnson, Protty, Peter, Pierre, Su-Wei, Locutus, Eugene

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- Missing last week's minute....
- The Current Issues:
 - Pierre: Vendor has looked at the site. Consideration on the location of generator, preferred back of the shelter, within the fence, and upgrade of a larger capacity automatic transfer switch (ATS).
 - (1116) Pablo has a quote for a new generator. 60 KVA. Quote only valid for 30 days. Need decision. Ted mentions we need another two competitive quotes for processing purchasing. Need discussion.
 - Pierre & Pablo will lead a power outage drill by switching off main for few (10) seconds, to evaluate the realistic situation while hexapod moving. Please be extra careful in this exercise.
 - Correlator cooling:
 - CT: Short-term solution relies on fan, plus control.
 - Chia-hou is working on a PID circuitry for the control part.
 - Pablo, Ken, Pierre, Nishioka:
 - All dishes (60 cm) were installed on Monday. Ken reported difficulty in installation procedure. May require design of custom tools. MT looks for manpower to work on this.
 - M1 & M2 load-cell installed. Ran into problem with M3. Mechanical interference between load-cell and truss. Pending further discussion with Ted on solution. Will test M1 and M2, plus PLC control at the moment.
 - Sun scan completed. Center dish alignment verified to be with 1-2', even with elevation change. Will proceed to check the rest dishes with relative to the center.
 - (1109) Sun scan data taken. Transition stage measure for #7. Data taken, analysis pending. Top priority for GC and Ken.
 - (1026) Pierre: (no update)
 - Installation of transit voltage sensor (TVS) for surge protection.
 - (1019) Patrick: 2nd OT mounted. Ready for testing. GC will run optical pointing test.
 - (1121) Patrick and Michael are working on an automatic drift scan script.
 - (1121) Ken and GC need to work out the recent fringe data for delay line alignment.
 - (1121) Noshioka to carry out radio beam alignment.
 - (1121) Keiichi to plan out the observation plan.
- 1.2 m dish:
 - Concern on reduction in diameter in dish. Continue discussion.....
 - (1116) Some new thoughts after off-line discussion. In current design, baffle is not high enough to provide nominal optimal cross-talk blocking. Yet, increase high of baffle would add in extra weight; something that we are trying to do the opposite. Will try a concept.
 - Long (probably 1 meter in length), thin (as thin as it can be), and light weight baffle.
 - The long baffle is separated from the antenna.
 - The long baffle would be mounted on the platform. (Need some thought on how to do so.)
 - PROBLEM for compact configuration. No space for the extra baffle. Reduce the primary diameter by 4 cm? Would anyone scream for the change?
 - (1116) Patrick stressed the importance of baffle losses in RF. Would review the previous measurement result.
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- (1026) Pablo to take inventory on vacuum parts. Purchase if needed.
- (1026) Coldhead service postponed after the current receiver test
- (1026) New compressor to be checked out.
- (1113) Photogrammetry. No update.

- (1106) Ted sent out a draft report is out to Philippe for review. Would circulate once clear with Philippe.
- (1106) Michael K. stressed the importance of understand the 4-fold symmetry in platform deformation, for the future implementation of the resolution.
- (1019) Scanner system on top of the platform for near field beam pattern measurement. System is in preliminary phase. Su-wei and Eugene are working on this.
- (1019) Proty: Data server arrived. John Cheng was helping setting it up.
- Major Issues:
 - (20060517) Large temperature variation in correlator. Major problem. Resolution to be investigated.
 - (20061109) Need further work to prevent dish from damage during Sun scan.
 - (20060507) DRO & receiver overnight stability. Got measurement. DRO over night seemed OK in both phase and amplitude. MT urged everyone to look into what were the realistic numbers we were after. Would come back to this issue again.
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- Intermittent Issues:

Traveling Schedule to Hilo:

Ken: 10/17 – end of year

Hiroaki: 11/11 – 12/9

Homin: Sometime in Nov

Pierre: 11/16 – 12/15

Su-wei: 11/23 – 02/02/07

Keiichi: 12/2 – 12/30

Proty: 1/05 – 1/30/07 (??)

Locutus: 12/20 – 1/20/07 (??)

CT: 1/5/07 – 1/31/07

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