

## Minutes for AMiBA Engineering Telecom 20061221, UTC 1:00

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Regular Meeting Time: UTC 1:00 Every Thursday

CT, Chia-Hou, Joshua, Johnny, Hiroaki, Homin, Johnson, Locutus, Eugene, MTC, Paul\_S, Ted, Ken, Suwei, Pablo, Keiichi, MY Lai

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- The Current Issues:
  - Problem with Ant3 & 4. Ant3 is likely the phase switch in LO path; while Ant4 is related to IF cable. Suwei and Ken are after the problems.
  - Keiichi:
    - Continue observation. Auto-obs script does not work exactly. Require revision. Observation using manual scripting.
    - Transit time is off by about 2 min (0.5 arc min). But still see the signal. Some unknown systematic problem. Will try to locate the cause.
  - Ant 6 cold head is acting up. May need attention soon.
  - MTC: Would go ahead with the generator purchase, along with new ATS installation.
  - Power outage exercise did not take place due to other reactive tasks.
    - (1130) 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.
  - (1130) Ken reported difficulty in installation procedure. May require design of custom tools. MT looks for manpower to work on this.
  - (1130) 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.
  - (1026) Pierre: (no update)
    - Installation of transit voltage sensor (TVS) for surge protection.
  - (1019) Patrick: 2<sup>nd</sup> OT mounted. Ready for testing. GC will run optical pointing test.
- 1.2 m dish:
  - Internal meeting on 1219 to narrow down the spec.
    - Dish size remains the same.
    - Baffle height is expected to increase by about 20 cm, for preventing secondary scattering.
    - Ted is working on a final spec for manufacturing.
  - (1114) Spec is convergent. Opt for original size without reduction in size. Height of baffle was been intensively looked into (Patrick, CT, MTC). MTC called for another meeting next week to finalize the specs.
  - (1130) Concern on reduction in diameter in dish. Continue discussion.....
- (1026) New compressor to be checked out.
- (1113) Photogrammetry. No update.
  - Modeling the deformation based on the new set of photogrammetry data. (Ted &/or Philippe)
  - (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.
- Manpower on site.
- 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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Traveling Schedule to Hilo:

Ken: 10/17 – end of year

Homin: 1/2 – 1/16

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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