

## Minutes for AMiBA Engineering Telecom 20070315, UTC 1:00

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Regular Meeting Time: UTC 1:00 Every Thursday

USA Dial-in = 1-877-505-6247; passcode 8339148 #; mod\_code 2917771 #

Outside USA Dial-in = 1 630 693 3224

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- Mount operation:
  - ACU-HPC stop:
    - no longer appears after removing one Ethernet cable and a small hub between the ACU and switch2. There was no problem in a 1hr track.
    - MTC proposes to repeat the problem by placing the hub or cable back. Just to identify the source. (low priority)
  - On-source flag (OSF):
    - A Boss will stop if OSF is not set. Michael is going to make the timestamp in log file more accurate to cross check events.
    - Crossing az=0 always stop the scan. It also causes the OSF to be missing. Patrick will contact Vertex.
- Testing on site:
  - IF power alignment:
    - Derek has aligned IF2 of Ant3 thru Ant7. Some abnormal behavior of RO of Ant2IF2. Both original RO and replaced RO show the same result.
  - Radio alignment:
    - 13 scans were taken for radio alignment, but most data were not usable due to some error in scripting. And all DEC scans (constant RA) do not work because of OSF missing.
  - Dish/Rx/Platform tilt:
    - Pablo reported dish-rx tilt at most 1'; rx-platform tilt at most 1'.
    - Not clear what is the cause of dish-rx tilt. (Bolt? Top plate? Dish itself?) It is a concern for 1.2m dish.
    - Inconsistent with Prot'y's radio alignment result? Still comparing with Ted's second photogrammetry rx top plate result.
    - New radio alignment data after 18Nm torque applied to dish bolts is an attempt to break the degeneracy between radio pointing and dish-rx tilt.
- General site issue:
  - Road work. The road to MLO will be closed from 7.30am to 4.30pm everyday. The work will likely last for 3 months. Pablo will keep tracking the progress on this work.
- 1.2m Dish:
  - On-going. (Ted has placed order to Cotech. The 1<sup>st</sup> dish is expected to come 3 months later. However, Cotech seems to project with an optimistically tight schedule of 4 dishes every 2 months after the first one.)
- Rx:
  - Pablo has some suggestion. Johnson will incorporate the idea.
  - New rx chambers from NanJou are finished. Will proceed with vacuum test next week.
  - Still need to work with Prof. Chu's student on new IF/LO module.
- Calibration/Observing strategy:
  - There was a discussion on the issues toward science observation. The main issue is to verify whether astronomical calibrator works or not. Stability of the system response is critical in the tests.

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Traveling Schedule to Hilo:

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ASIAA Hawaii: <http://pmo.asiaa.sinica.edu.tw/Hilo%20office/>

AMiBA Website: <http://amiba.asiaa.sinica.edu.tw/>

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[wwilson@atnf.CSIRO.AU](mailto:wwilson@atnf.CSIRO.AU), [pablo@asiaa.sinica.edu.tw](mailto:pablo@asiaa.sinica.edu.tw)

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