

A Few Comments on Module Test Status at Production Startup

Feedback from first production phase

- Most of the outcome of task force has now been integrated in ARCS 6.2.1
- Now tests done with ARC at gantry and bonding centres are much more stable and give consistent results
- Still some difficulties are present:
 - Creation of xml file for DB not clearly understood, easy to make mistakes
 - List of bad channels from ARC fast test missing
 - Some 'fail' flags are not properly reset (**RED buttons**)
 - LED test (NOT pinhole) must be avoided in order to have the correct results from xml parser
 - Small differences between Tony's macros results and ARCS bad channels flags

Follow up from Task Force and TK Week

- Tony Affolder has prepared a draft on new test procedures following the task force work and the July TK week indications: it has been circulated among the task force people. It needs minor modifications before being published. We hope it will be done soon.
- Updated and debugged macros for module results analysis are on web
<http://hep.fi.infn.it/CMS/marchett/production/>
- Settings files for ARC will be put on web next week (but TIB and TOB are already using them)
- IV tests: after discussions (in Module Production meeting and more), suggestions from Sensor w.g. have been adopted: **the maximum test voltage will be 450 V.**

Decisions to be taken

1. The results of a module test are written to xml file for DB using only one operational mode, although flags take into account results from other modes. We must use always the same mode
 - Proposal: write, as reference, data in **PEAK-INV ON**
2. Currently the data from hybrid+PA (at gantry and bond labs) are not recorded in the same way everywhere, the tests to be performed are still user dependent
 - Proposal: take ARC fast + full noise and calib (4 modes) + pipeline pk-inv-on every time one has to check hybrid behaviour. This will require the use of the settings file with cuts optimized for hybrids.

DB Issues

- All labs doing tests are now uploading results to DB
- New tools are available to look at data in DB. Thanks to people which put effort in this task!
Go ahead !
- We still do not master all the details of DB uploading: many errors are possible, leading to bad data in DB. Precise instructions on "how to" have to be given by ARCS, LT and DB teams!
- Some problem related to digit approximation of noise data in DB (mult by 10, then truncation or approx.): is it possible to find an easy solution ?
- The results from module tests cannot still be uploaded to Production DB, but only to Test DB: who is taking care of the final step to have the right tables in Prod DB ?