Minutes of FPix DCS meeting on 12/1/05

Place: Fermilab WH8X

Date/Time: 12/1/05 9:30 Am

Attendance:

Joel Butler, Lucien Cremaldi, Bruno Gobbi, Umesh Joshi, Dongwook Kim, Simon Kwon, Charles Newsom, David Sanders, Christian Veelken, JC Yun

News:

There will be an one week CMS Tracker workshop starting on January 16 at FNAL. We were informed that Avi is in charge of the workshop.

Temperature sensors:

Charles' thermal sensor placement scenarios are in the following link (DocDB #547):

https://docdb.fnal.gov/CMS/DocDB/0005/000547/006/DCS%20Input%20data.xls

In his 'summary' page number of temperature sensors are shown which reflects the suggestions made during the last FPix DCS meeting two weeks earlier. The consensus at the meeting was to have as many hardwired sensors as we can afford.

A hardwired sensor was added for the power distribution board after Bruno's suggestion. Also 8 DCU readout rtd's were added for the Portcard temperature measurement.

In the 'implications' page he shows 3 possible scenarios. We decided to go along with the Scenario B.

Christian also pointed out that we should reserve a few hardwired lines for humidity sensors.

(In his spreadsheet the 'RTD' represents a hardwire readout while the 'rtd' stands for DCU readout. Please click on the summary tab to see the comparisons between options.)

System:

Christian said he discussed with Frank Hartman on how to share resources with other Tracking subgroups during his last visit to CERN. In principle we agree with his position in sharing software tools etc. with other group. However we think we should not decide how to divide up works before we gain more experience. There will be some discussion on this issue when Charles and JC visit CERN during the last week of January.

Others:

A Pixel DCS talk was planned for the CMS week. JC agreed to present an overall plan and a short summary of the current status.

Danek said there 3 computers allocated for the whole pixel DCS system. We have to check if three computers are enough for us. We should act quickly if we need more before things get hard to change.

Charles said he did not get any reply from CERN experts on the issue of sniffers for the FPix system. The sniffers are to detect smoke or coolant leaks. There are about 40 sniffers already assigned for other CMS subdetectors.

Umesh said he is writing documentation on the FPix system configuration. He needs some help from the DCS group.

Joel revisited Simon's FPix alignment scheme. If we come up with a good plan for alignment hardware for FPix, most likely we need to rely on the DCU readout.