

Minutes of TOB meeting on 07.03.2006

Present: Guido, Imtiaz, Antti, Imre, Slawek, Maria, Jim, Christoph, Erkki, Michael

Mechanics

Ten rods corresponding to the first control ring of the first cooling segment have been inserted into the TOB on Friday (4 rods) and yesterday (6). Almost all rods for the second control ring of this cooling segment have been leak tested and pre-cabled. Due to the lack of DAQ (see below) it was decided to first insert all 25 rods available and then connect the 19 rods of the first cooling segment to all services (power, cooling, data and control). All the present 7 technicians have participated in all so far performed TOB integration work steps.

UCSB has sent yesterday a crate containing 38 new rods, one faulty AOH, one dubious ICC, and some 200 old ICCs. Due to the expected arrival of these rods in the middle of next week the shift work of next week was cancelled. We will start with the shift work in calendar week 13 from the 20.03.2006 onwards.

The cable supports are ready. The Crack cooling unit has been moved downstairs and will be commissioned by Erkki and Jarmo this week. Auli repaired some ten rods with the detached HV tail, this went smoothly, about half a day of work. There was the question if FNAL is aware of the problem. Michael will send a mail. The second rod insertion tool has arrived from FNAL and is being mounted. A borescope has also arrived from FNAL, it is to stay at CERN for some weeks now, and we can try if it could be of use in case of problems during rod insertion. If found useful another device should be found, Antti has some leads where to find such a device at CERN.

Additional series of 300 Binder screw-nuts are ready, and were given to Imtiaz.

CRack

Slawek and Jim requested a special testing campaign of SP1 and SP2 PSMs and EASY crates which have been delivered to CERN recently. As a load they want to use the 11 rods in the Crack. Christoph agreed to this proposal. Christoph asked for some risk management and it was agreed to pre-test these PSMs with three TOB MTCC rods in the XY table (currently unused). Michael will postpone the insertion of the TOB MTCC rods in the dummy TST to next Monday (was scheduled for this week).

Electronics & DAQ

Guido and Christoph are still debugging the sick rod in the CRack. Along the way they are discovering some nice features on the CAEN PSMs. The behaviour of the ramp up of the 1.25V and 2.5V lines is not consistent and differs from one PSM to the other.

The OTDR is not available in the pool (was checked out by somebody else) and the delivery time for two new OTDR ordered by Catherine is not known at the moment. It was decided to skip the OTDR test for this first cooling segment and perform it whenever the needed hardware (OTDR and optical switch) will be available on another cooling segment.

The two blue racks for TOB integration are being repaired for leaks and should be leak tight by tomorrow. Patrice estimates to have these racks powered and cooled by next Monday.

Imre will install the new version of the rod location DB before they resume the work in the TIF (tomorrow at 14:00). He is setting up a new Linux PC (pccms196) which should serve as a web server. It is planned to move all DB and ELOGS from pcepcmt26 to the new PC. He has installed a new account on AFS and NICE (cmstob). He is planning to use the cmstob account on the Windows PC in the TIF used by the technicians. Once all programs are running under this account, we will do the swap.

Tomorrow at 11:00 there is yet another test of the DCS/DSS system for TOB integration planned by Jeff, Imre and Frank. The scope of this test is working interlocks fired via PVSS. Two interlock cards have been installed in the two TOB EASY crates. A prototype of the new interlock card exists with the right logic. After a successful test of this prototype the full production of the interlock cards will be launched at CERN. Lorenzo Massetti is working on a JAVA interface to be able to read and display the T and RH values without using PVSS.

New meeting room

Next week is CMS Week and the TOB meeting will be on Wednesday morning from 9 to 11 in building 40 (room TBA). Michael has booked the conference room in building 28 (28-S-029) from the 21.03.2006 onwards until Xmas 2006. The weekly TOB meetings will be held there (closer to the TOB integration activity).