

Matters arising

RADWG - 3 July 2009

5.7e18 pot until 30/6 8am

Expect ~18 more weeks with beam

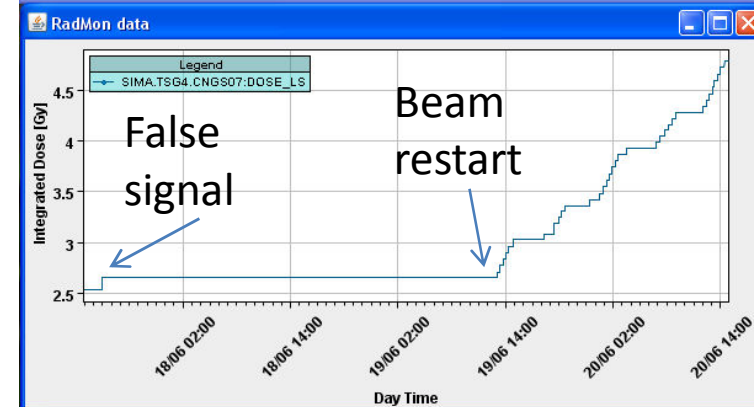
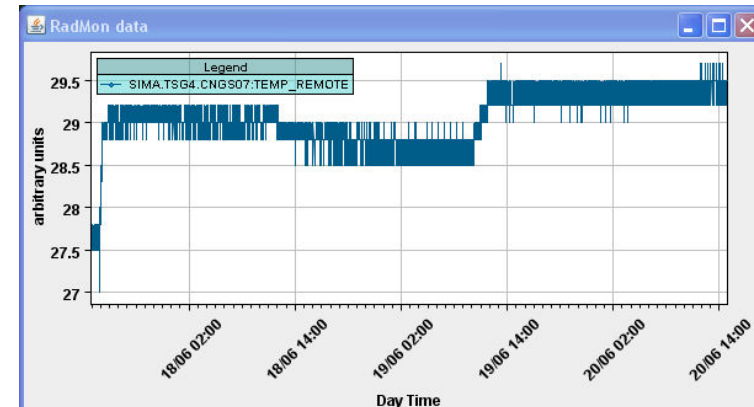
- Beam in CNGS stopped 30 June 8:11am
 - MD in SPS, magnet repair
 - Cooling water supply repair in CNGS
- Restarted today 3 July @ 7:15am
- WorldFIP communication problems for CRYO (test station 3)
 - Gateway exchange not helping
 - Perhaps a shortcut in the area?
 - To be investigated during next access

RADMON measurements

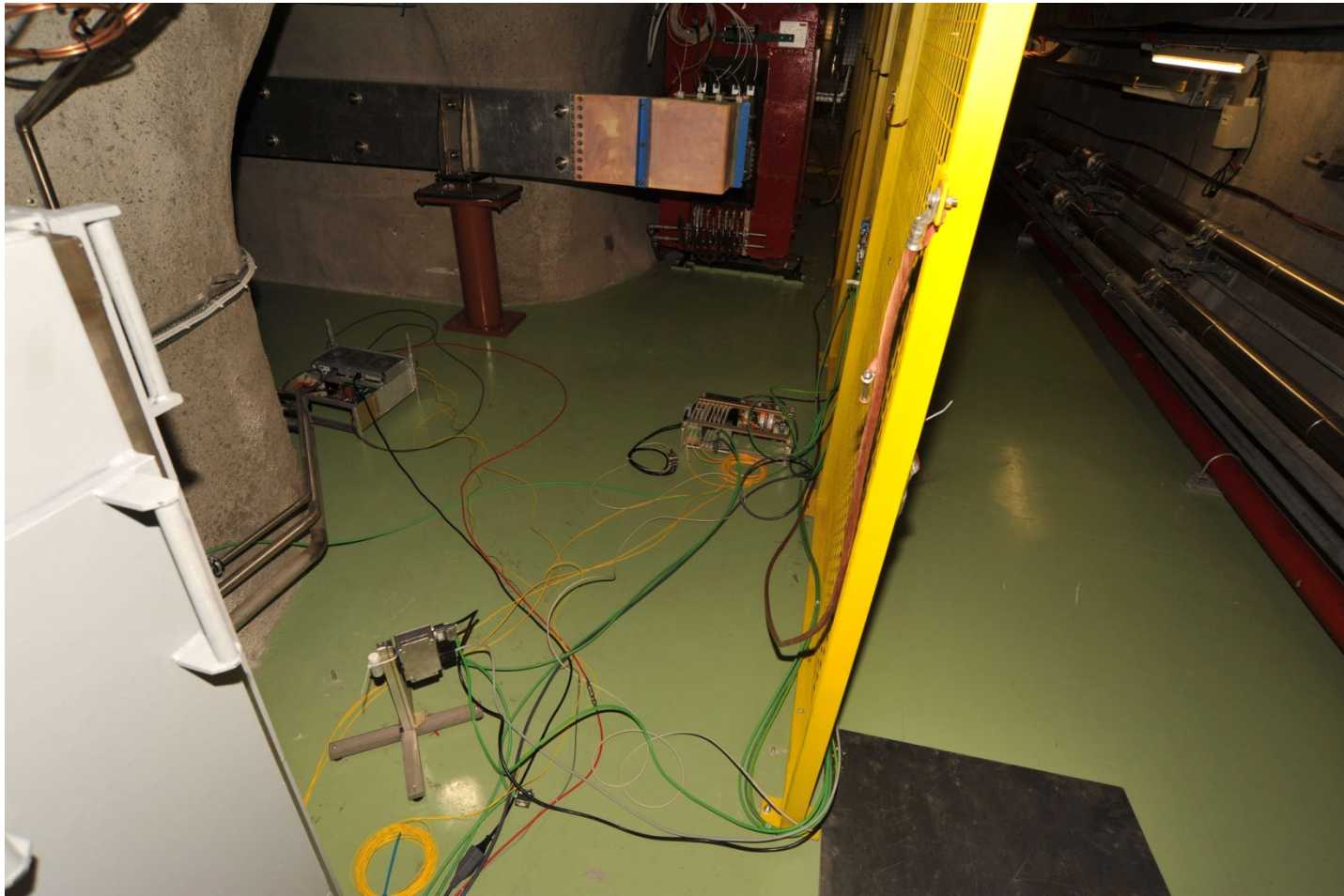
- A power cut happened the 18 June at noon (before the beam restart)
- The hadron fluence counters on RadMon 7 and 8 saturated despite the UPS
 - A transient glitch influenced most likely the powering
 - The 6 remaining RadMons had no problems
 - Saturation = $1.3107e11 \text{ cm}^{-2}$ (differential values have to be used)
 - Devices remain fully functional !

RADMON measurements II

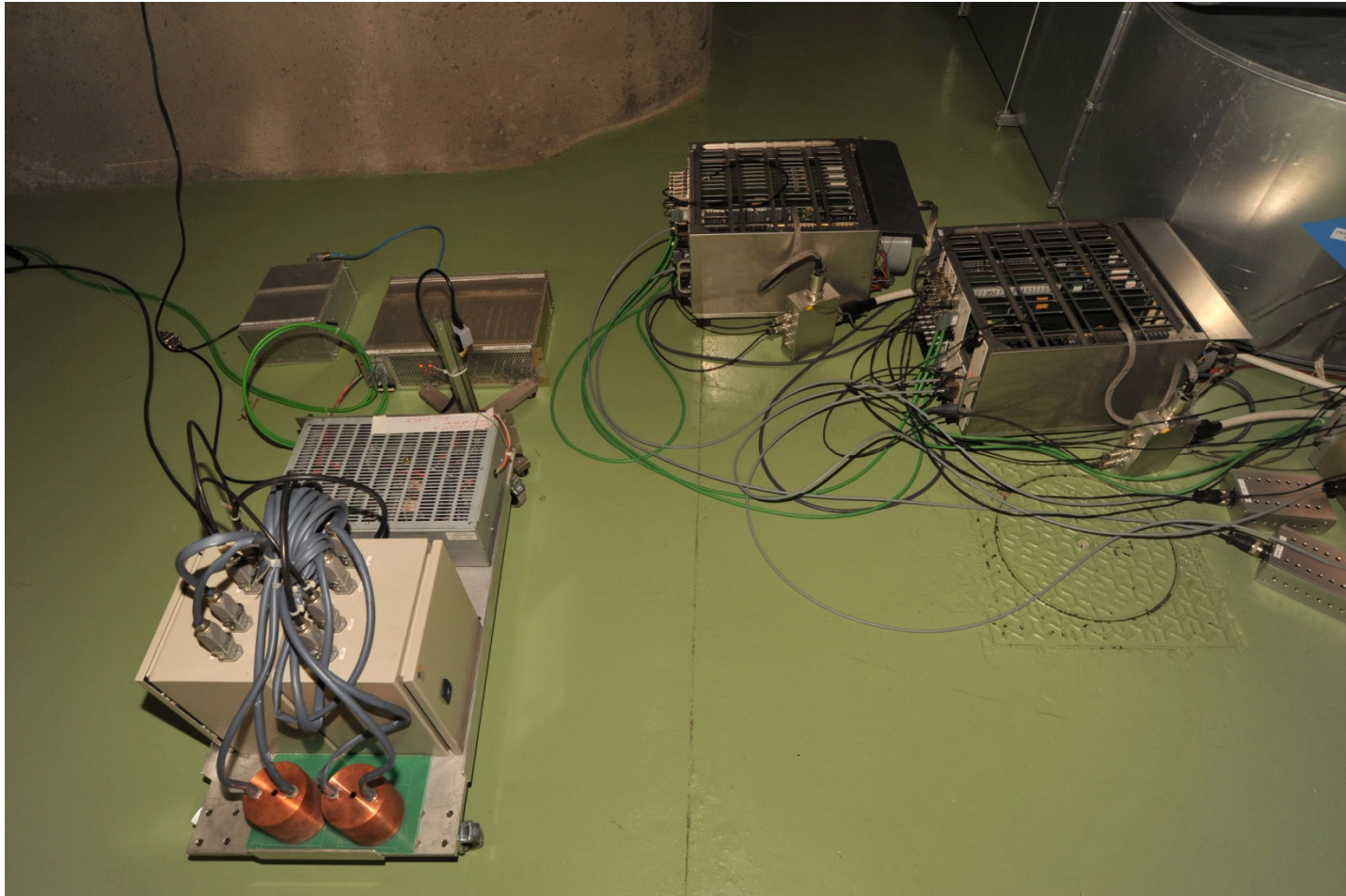
- Error in DAQ software made the DOSE and 1MeV n⁰ eq. fluence sensitive to temperature variations (mostly during access)
- New software for data visualization in preparation
- Each equipment position will be calibrated using RAW data normalized to POT (protons on target)
- Data will be calculated from POT
- Future calibrations of the corresponding locations will then improve the data quality
- High dose rate regions are mostly unaffected



TSG45 – Slot 2 detector and DUT layout



TSG46 – Slot 2 detector and DUT layout



Steel ramp for easier access to CNGS



US85 relocation status

- In the long term planning, all the sensitive electronics should be relocated from US85!
- Relocations in preparation (UAs/ULs):
 - Fire and ODH detection
 - PIC / WIC controller racks
 - Timing / Remote reset / WorldFIP
- CRYO cold compressor controller racks (most likely to be moved to the bottom of US85 and shielded)

Tracking radiation tests of equipment in CNGS with EDMS/MTF

- a first technical proposal

- David Widegren & Sonia Mallon Amerigo have made a proposal (GS/ASE)
- Presentation will be distributed through RADWG mailing list
- Please send your comments by mail

Overall strategy

- The overall idea is to use existing tools and infrastructure in order to avoid separate and duplicating databases and applications.
- This means in practice using the centrally managed and supported equipment management capabilities of MTF/D7i which is a fully integrated part of the CERN EDMS.
- This is particularly important since many components being testing in CNGS already are registered in MTF. The new WG for tracking of irradiated equipment will most likely also propose MTF/D7i as the tool to be used for this purpose CERN-wide
- In order to better cater for these new user requests, some additional functionality will be made available by the EDMS/MTF team within the standard application framework.

LHC performance note published

- **Mid/Long-Term Action Plan to Mitigate SEE related Risks at the LHC (and required actions)**
- <http://cdsweb.cern.ch/record/1187013>
 - Link sent to the RADWG mailing list

External radiation tests

- More testing is required in proton beams in 2009 ?
- Potential candidates according to the past requests:
 - power converters
 - Survey
 - CV
- Possibilities for THERMAL neutron electronics tests are being investigated