RADWG 2011OBJECTIVES AND ORGANIZATION

G. Spiezia (EN/STI/ECE)

- I. Provide support for radiation tests
 - Facility
 - CNRAD, H4IRRAD
 - TE/EPC, QPS, Cryo?, EN/EL?, LED, FIP repeater, NanoFIP?
 - Are others groups interested??? Inform us as soon as possible to verify your needs
 - PSI protons 60-250 MeV (special agreement for I year)
 - CEA I MeV neutrons for Displacement Damage
 - TRIGA reactor or Prague facility for thermal neutrons test
 - IONISOS Total dose test for material

- II. Radiation tests Component testing in 201 I
 - Useful for TE/EPC and others
 - 'Generic' components (AmpliOP, Buffers, transistors)
 - EN/STI and TE/EPC
 - More complex components
 - High resolution ADCs
 - Buffer for ADCs
 - DACs
 - EN/STI and TE/EPC
 - Power components
 - TE/EPC
 - RADWG will be a forum to discuss on
 - Planning and guidelines for the test
 - Test results

- III. Build a 'Simple Database'
 - We need reports ... (missing 2009 and 2010)
 - A template for report exists!
 - It is Simple and Effective (Thanks to DANIEL and your feedbacks)
 - → will be easier to build the DB
 - It will be a DB of COTS; it is true but ...
 - Useful for everyone to start a new design
 - Access can be limited only to CERN users

- IV. Knowledge exchange
 - Forum within accelerator sector
 - Invite PH/ESE expert
 - Course on radiation damage given by Remi Gaillard – next date in March April 2011
 - A mail will be sent to have the list of participants and their specific interests
- V. Report from LHC monitoring
 - FLUKA simulations
 - RADMON (and others...) measurement data
 - Continuous work on monitoring calibration

- VI. Link to R2E
 - Strategy and priorities
 - Concerns for the RADWG members
- VII. Reporting of failures
 - Not easy to isolate radiation effects
 - Effort to be done to react soon to the problem
 - 'Patch solutions' are required ...
 - Equipment based on custom design
 - Commercial parts (PLC, or Ethernet switches)

RADWG 2011- Organization

- Chairman: G. Spiezia
- Scientific secretary: J. Mekki
- http://radwg.web.cern.ch/RadWG/ (Thanks Daniel!!!)
- Tests
 - CNRAD:
 - · Organization: D. Kramer, J. Mekki, G. Spiezia
 - Technical infrastructure: J. Lendaro
 - H4IRRAD:
 - Organization: M. Calviani
 - Outside CERN- PSI, CEA or others:
 - Organization: G. Spiezia
 - Test preparation for PC design:
 - Shared effort TE/EPC and EN/STI
- Link to MCWG: M. Calviani
- Link to R2E: M. Brugger
- Update on failures: M. Brugger, M. Calviani, J. Mekki, G. Spiezia (through LHC 8h30 meeting), and yourselves ...

Coming soon ...

- PSI tests on February
 - Amplifiers (MAX9617 MAX410 ADA4899 LMH6551)
 - Memories calibration
- Test for March at PSI: NanoFIP?? TE/EPC??
- Tentative Agenda for next meeting
 - Date: February 15th
 - CNRAD preparation and further needs (mail to Daniel, Giovanni, and Julien Mekki)
 - Report on Fire detectors test at CNRAD
 - PSI reports