



# **RADWG 4<sup>TH</sup>**

**12<sup>TH</sup> APRIL 2011**

G. Spiezia (EN/STI/ECE)

# Single Events in the last weeks

- QPS firmware update: is it completed? Will you do it also in the arc?
  - Point 7 (left and right) is updated
  - Point 8: cells 8r, 9R, 10R have been updated
  - Priority for next updates according to the monitoring data (Marco):
    - Point 3 (left and right);
    - Point 8 (left);
    - Point 2 (right);
    - Point 5;
    - Point 1;

# Follow up from last meeting

- ❖ Course on Radiation effects on Electronics
  - 11-12 May first course
- ❖ RADECS conference on September, 19-23
  - [www.radecs2011.org](http://www.radecs2011.org)
- ❖ Storage area for electronics
  - Humidity and condensation risk measurement is on going at bld. 954
  - RadMon (Battery version) will be installed – waiting for P. Muffat
  - The requests and the requirement from the users have been collected and summarized in a document to be sent to GS/IS (Patrick Muffat, Isabelle Mardirossian), DGS/RP (Stefan Roesler, Heinz Vincke), RSOs of BE, TE, and EN. They will finalize the task.
  - [Link to the document](#)

# Follow up from last meeting

- ❖ Repair of electronic cards coming out from CNGS
  - Document is under engineering revision
  - List of the labs for non destructive tests: (2009-2010): **36-3-17** (Cryogenics, WorldFip, BLM, Survey), **866-ID-01** (BLM/BPM), **287 TE/EPC lab** (Power converters), ~~**30-5-40 (PIC, QPS)**~~
  - Lab for destructive test: **530**
  - EDMS documents: **1056444** (2009), **1071429** (2010), **113936** (2011).

# CNRAD

- CNRAD access 31 March: see presentation

## First slot

- BLM: any news?
  - 3 reference IC,
  - 3 new detectors.
- Power converter:
  - 1 AC-DC converter for the 600 A; → replacement of a the converter
  - IGBT installation
- LED:
  - 1 systems with a AC-DC converter. → replacement of the current converter
  - 1 system with transformer and rectifier
- DerivFIP:
  - version 2.02 with replacement of the weak components found in PSI
- RadMon:
  - Inversion of the memory voltage for the evaluation of the ratio HEH hadrons/ thermal neutrons;

# PSI

- March test:
  - Amplifiers (OPA2227, TL072, INA141), Voltage reference (LM4041, TL431, TL432): No SEL observed. No SET observed ( $> 100$  mV and  $> 10$  ns). Small drift on the output.
  - See presentation (P. Peronnard)
- April 15-17
  - 4 transistors (BCP56, BSR17A, BSR18A, BCP53) from TE-EPC;
  - NanoFIP (1 or 2 boards);
  - FipDiag (3 boards);

# CNRAD 2009-2010

- Missing reports
  - PIC: only slides
  - WIC
  - Cryogenics (2010)
  - Cooling & Ventilation: only slides
  - EN/EL (2010)
  - Fire detection
  - IT (switch)
  - QPS (2009, 2010): only slides
    - PSI test ?
    - TCC2 test ?
  - Power converter: to be completed?
  - FIP repeater: only slides