



RADWG 4TH - 2013

25TH JUNE 2013

G. Spiezia (EN/STI/ECE)

AGENDA

- ❖ Matters arising
- ❖ ~~CNRAD test: Survey equipment~~
- ❖ ~~H4IRRAD test: FGC Lite~~
- ❖ CV equipment at the PS booster dump area
- ❖ Summary CNES-ESA workshop

PSI test – Done

Date	Equipment Owner	Test group	DUT
16-17 February	EN/STI-BE/BI	EN/STI, BE/BI	Cypress memory, potentiometer, Samsung, BLM
24-Feb	TE	TE	Switches
16-17 March	BE CO	BE CO	NanoFip
23-24 March	TE/EPC, EN/STI	EN/STI	Voltage reg, Voltage ref, Mux, Amplifier
13-14 April	TE/EPC	TE/EPC, EN/STI	ADC, SRAM for latch-up study
25-26 May	TE/EPC, EN/STI	EN/STI	LM45, Oscillator, Current source, SRAM
25 Jun	TE/EPC, EN/STI	TE/EPC, EN/STI	ADC ADS1271

PSI test on July-December

- ❖ 6 weekends used
- ❖ 9 weekends available
- ❖ Gathered information
 - ❖ QPS: >20 hours ideally over two weekends
 - ❖ PH: as from 26 October; >15 hours; can be parasitic
 - ❖ TE/EPC, TE/CRG, BE/BI: slots to be defined
- ❖ Slots to be booked ASAP
- ❖ Combination of tests to consider
- ❖ Proposals for dates of booking

PSI test

28-29 June	TE/EPC,EN/STI	EN/STI	Analog switch, Mosfets, Amplifiers, LVDT conditioner
20-21 July	TE/CRG, LHCb	TE/CRG, LHCb	Components for beam screen heaters, other
21-22 September	EN/STI, TE/EPC	EN/STI	ADC 8bit, Schmidt trigger, Other
28-29 September	BE/BI	BE/BI	components for BPM
19-20 October	TE/EPC	TE/EPC	FGC lite
26-27 October	QPS	QPS	Components
26-27 October	PH	PH	Components; 15 hours: can be parasitic
16-17 November	TE/EPC, EN/STI	EN/STI	Components, RadMon
1-2 December	TE/EPC	TE/EPC	FGC lite
7-8 December	QPS	QPS	
14-15 December	BE/BI	BE/BI	components for BPM
14-15 December	TE/CRG	TE/CRG	Heater board
?	BE/CO	BE/CO	FieldDrive

CEA

Date	Equipment Owner	Test group	DUT
29-30 April	EN/STI	EN/STI	Components, Pin diodes
14-May	BE/BI, IT, EN/EL, PH/ESE	passive	Diode, Beacon, LED, Silicon chip
8-9 September	EN/STI	EN/STI	RADMENV6, Experiment devices

- ❖ To be used for Displacement Damage assessment
 - ❖ Optical devices and diodes (not possible to do everything at PSI)
 - ❖ Installation in areas with high 1 MeV neutron fluence (expensive to do at PSI)
 - ❖ Bulky equipment (not feasible at PSI)
- ❖ Request for 2014
 - ❖ 3 slots have been asked

Fraunhofer institute - Germany

- ❖ Last meeting with Fraunhofer team was very useful and fruitful
- ❖ All the information and the news are on the web

<http://radwg.web.cern.ch/RadWG/radTests.htm>



Back-up

Test reports

- ❖ Share the knowledge of the tested components
 - ❖ Reports are on EDMS
 - ❖ Add your own reports (PSI, CNRAD, H4IRRAD)
 - ❖ Many tested components are useful for other groups
- ❖ Table of the tested components
 - ❖ http://radwg.web.cern.ch/RadWG/Pages/reports/Radiation_report_menu.htm

Passive dosimetry along 2012

- ❖ Used RadFets and BatMons (battery version of the RadMon)
- ❖ Removed from the machines
- ❖ Results given for the following areas
 - ❖ TT83 (requested by Spanggaard)
 - ❖ TT2 (requested by BE/ABP, S. Gilardoni)
 - ❖ PSB Dump (requested by Calviani)
 - ❖ Door 352 (requested by RAMSES, M. Pangallo)
 - ❖ LINAC3 (requested by M. Calviani)
 - ❖ PS (requested by RF, M. Paoluzzi)
 - ❖ SPS (requested by BE/BI, J Gonzalez)
 - ❖ SPS (requested by TE/MPE, P. Dahlen)
 - ❖ ATLAS-LAR (requested by Luis Hervas)

Conferences

❖ SEE symposium

❖ http://radhome.gsfc.nasa.gov/radhome/see_mapld/#

❖ NSREC

❖ <http://www.nsrec.com/>

❖ RADECS

❖ <http://www.radecs2013.com/>

CERN facilities

- ❖ CNRAD and H4IRRAD
- ❖ East area



Technical stop