

Status Update and Requirements

9th R2E Project meeting TE-EPC-CC R2E Team

Radiation Testing

- TRAD UCL Heavy Ion Tests
 - Tests of ADS1271B and 1281 ongoing (this week)
 - Slawosz Uznanski visited TRAD twice, presently assisting in tests
 - Preliminary results next week...
- H4IRRAD Slot 1
 - DAC test: 3 x MAX5541
 - □ ADC test: 3 x ADS1271B (previously exposed in 2011)
 - Dallas 1-wire test: 50 x 2401 (ID) + 50 x 18B20 (ID + temperature)
 - SRAM tests in preparation for slot 2...
- PSI Protons tests Foreseen
 - □ Voltage Regulator test: 30 x LP3990MF-1.8 (1.8V)
 - □ Voltage Regulator test: 30 x LM340MP-5.0 (5.0V)
 - □ Voltage Regulator test: 30 x LP2980AIM5-3.3 (3.3V)
 - □ Voltage Reference test: MAX6350 (5.0V)

Manpower

- Arni Dinius Project Leader
- Benjamin Todd Hardware Engineer
- Gillies Ramseier Analogue Engineer
- Stephen Page Software Engineer
- Slawosz Uznanski Radiation Expert
- R2E Technician Selection Board May 15th
- David Millar Technical Student July 1st 6 months Dallas 1-wire

LHC operation

Analysis of FGC failures

- Slawosz will be responsible for trying to understand which events are really due to radiation
- Two cases require analysis. Sometimes no conclusions can be reached:



Development Milestones

- 1st prototype expected by Autumn
- 30 prototypes = FGClite segment by the end of the year
- Final design = early 2014
- Production and testing = 2014
- Installation = 2015

Radiation Testing Milestones

- H4IRRAD only available in 2012…
 - Two more slots left...
 - Cover all aspects as much as we can...
 - Type testing & Batch testing
- PSI 2012-13...
 - By the end of 2013 = finished procurement and testing
- Heavy Ion Tests
 - Open question which components we can afford to test for SEL.