



Update on Fraunhofer Tests

CERN R2E Project

RadWG Meeting November 14th 2013

M. Brugger for the R2E Project





Test campaigns started (some finished)

Finished:

Optical sensors, Piezos, Load sensors, Magnet materials, HLD samples, 3D printer materials, Scotch, RF 1st trial, Supressor diodes, nanoFIPdiag,

On-Going:

RadFet(s) 2nd campaign, RadMon components (problem with cable/connector size!)

Next:

 LED safety lights, Fire alarm system, RadMon components, humidity sensor?, collimation components, Cable holder (2nd), RF 2nd campaign, EPC components (to be decided after PSI results)

Ø Budget:

- Fully integrated into R2E project
- Oedicated code as from 2014+
- Requests through M. Brugger

Website & Documentation

R

Wiki Page operational

https://twiki.cern.ch/twiki/bin/view/FraunhoferRadTests/WebHome

- Update to be performed by:
 - Equipment group in charge (for specifications, final analysis and reports)
 - Fraunhofer INT

(for preparation, implementation, results)

- Q All comunication (documents, descriptions) MUST go through the TWiki
- Only few updated since migration!!! -> HELP!!!
- General planning sheet will be provided by Fraunhofer INT





Q Active or Passive tests

- Please carefully evaluate if active tests are required
 - Usually requiring a complex setup (thus additional costs if outsourced to Fraunhofer INT)
 - If it's 'simple' components, the additional information gain is limited
 - Example: QPS components where step-wise measurements would have 'saved' a few man-weeks
- e High-Dose location
 - Tests will be possible to be performed there
 - Even 'active' in case volume remains small and cables can extend to 60m
 - Costs per 10MGy will be comparable (below) 1MGy in standard location
- e High-level dosimetry project
 - Agreement with Fraunhofer INT and Pisa University
 - Octoral student will start in December
 - Promising 1st trials at CHARM