

R2E News & Follow-Ups

21.7.2011

R2E Project Meeting

News

- Collimation-Review (see [link](#))
- LBOC and failures (see [link](#))
- Mini-Chamonix (see [link](#))
- H4IRRAD: amazing! -> THANKS!
- Safe-Rooms: EN/EL commitment
- P4 PLC failure
 - Unlikely that SEE
 - Triggers however discussion on residual gas pressures and respective radiation levels (P4, REs)
 - Mitigation request possible
- Possible impact of 25ns operation to be studied
- PS-EastArea: calculations (Elias) + specification draft
- R2E Review (update)

Integration & Implementation

- xCheck of equipment remaining in critical areas
- provision of iron rods for RA/UA junctions
- status of shielding storage area (GS)?
- PAD/MAD relocation -> baseline
- Shielding P5: not to be purchased
(confirmation from EN/EL that other solution will be found)
- Shielding storage area -> news from GS?
- Planning: xMasBreak actions and LS1 draft

Civil Engineering

- Dismantling costs of TZ76 and call for tender
- Integration drawings for ducts (P5) -> urgent because of tender?
- Additional activities required for LS1?

Operation

- Easier follow-up of possible SEE candidates
- Correct inclusion of failures in BE/OP statistics (and graphs)?
- 25ns MD -> 144 bunches might not be sufficient for R2E purposes

Monitoring & Calculations

- Review of radiation levels per area, evolution with time and extrapolation
- Vacuum pressures & extrapolation (focus on P4 ARCs and REs)
 - Additional BLMs for LSS centre of P4
- FGC analysis and consequences for radiation levels in UJ56/76
- Next MCWG to be scheduled
- PAT benchmarks and analysis
- Additional monitoring required?
- Monitoring Tool – Future?
- Weekly reports -> update of losses, additional areas
- Update of technical drawings: including history of monitor changes
- Purchase of R2E Bat/RadMon stock
- Calculations: BeamGas (Roberto), PATIs (Cristina), LHCb (Mathias?), East-Area (Elias), MD-benchmark?, thermal-neutrons (Regina), IR1/5 advanced shielding?
- Documentation: CNRAD/CERF (Ketil), PMIs-P1?, EastArea (Elias), Injection (Vittorio), H4IRRAD (Bart)

Radiation Working Group

- Follow-up of equipment failures
- Update of failure rate tables
- H4IRRAD radiation test results (further EPC requirements)?
- Cryo PLC tests at CNRAD (last slot?) or H4IRRAD
- H4IRRAD EN/EL radiation tests to be prepared (additional GTO tests in the shadow)
- nanoFIP follow-up & tests
- Valve controller analysis/tests
- UPS failure and possible test of control part
- PSI agreement -> status/payment?
- TE/EPC status/roadmap of tests

Power-Converters

- 120A failures as observed in H4IRRAD -> conclusion on 2nd failure mode
- Analysis of H4IRRAD tests
- TRAD follow-up
- CNRAD last slot preparations
- status/roadmap of radiation tests

Safety

- Safe-Room Issue (not only R2E) – ok for everybody?
- RP considerations on xMasBreak and LS1 activities
- Fire-Extraction in P1 – status?
- Handling/Repair procedures and status of common workshop
- Equipment to be recuperated from the LHC -> update on procedure (e.g., RR equipment)?