CNRAD preparation for the nextTS

- Next TS will be on Wednesday 31/08 from 13h30 to 16h30.

Groups which should Access to the test area

- Power converter -> Remove their rack from position 453
- BLM -> Installation of their setup in position 451

  - new LHC ICs from the pre series production to be tested before going on with the series production.

  - Same equipment than during the last campaign expected that 3 old LICs will be exchanged by the new ones.

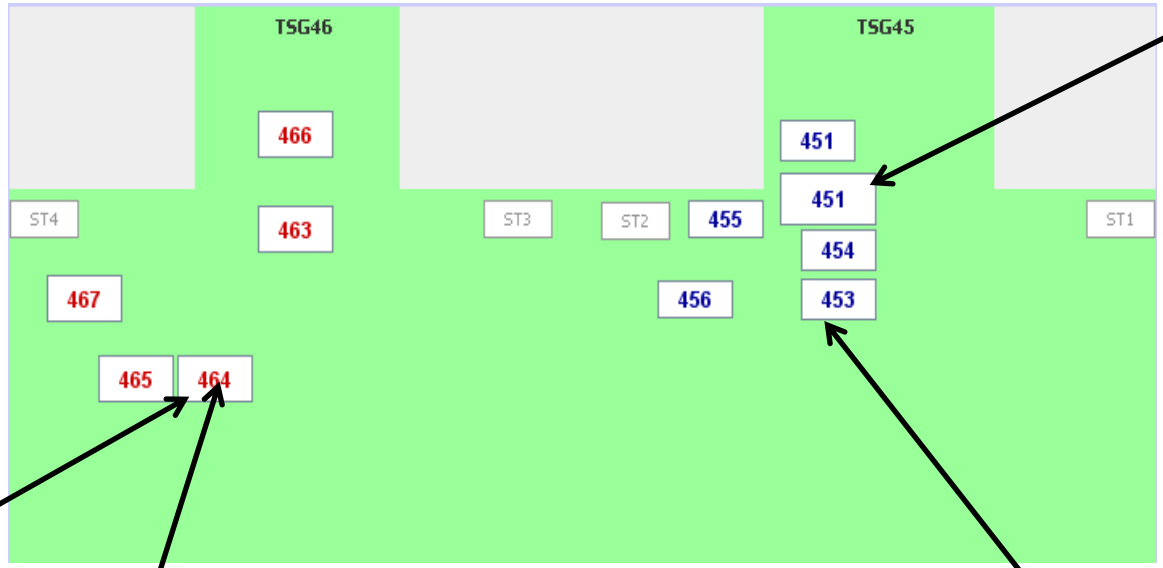
- LED warning system -> Move their setup from position 463 to 453

  - need to increase the radiation level for evaluating the tolerance of the LEDs to displacement damage.

- PLC Cryo -> Should install their test setup, should be close to position 464.

CNRAD preparation for the nextTS

Next access between 31 of August



BLM detectors
Station1:
3 CB50 for high voltages
2 optical fibers
1 CB50 for Remote Reset

PLC Cryo ?
Station4:
1 RJ45 (Ethernet Connection)
1 CB50 for Remote reset

QPS
Station4:
WorldFIP PCI 1 MHz

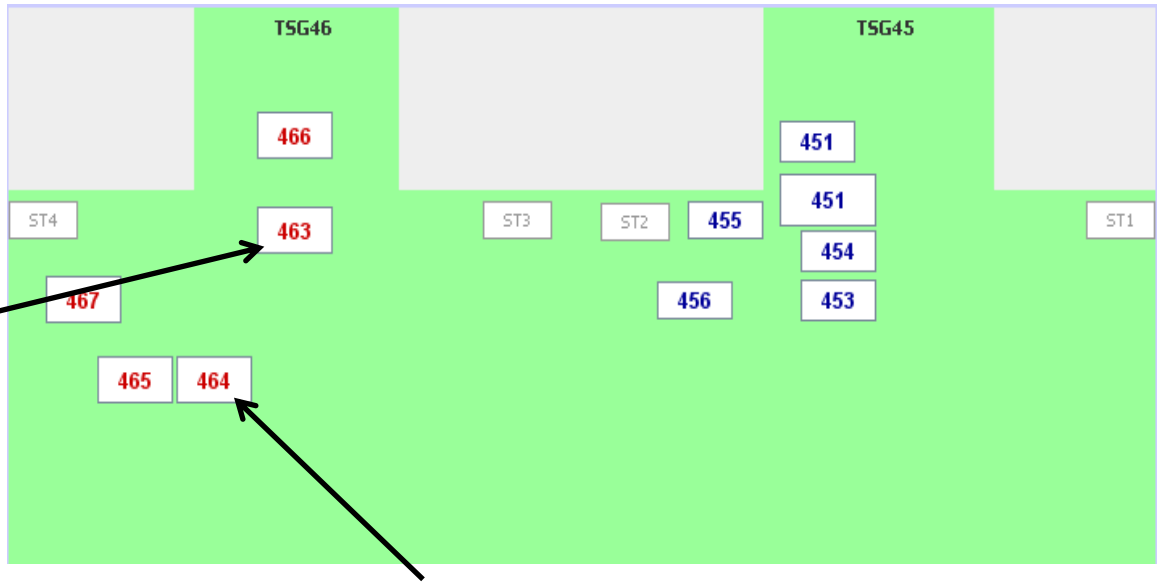
LED warning signs
Station2:
1 NE48
1 Ethernet connection for Webcam
1 CB50 for remote reset of the webcam
Camera located below Station2 where the radiation field should be low enough to avoid radiation damage

CNRAD preparation for the nextTS

Radiation level for the LED warning system and QPS during slot 4 (08/07 09:12 – 23/08 00:00)

Number of POTs: 9.06×10^{18}

Uncertainty: Factor of 2



RM8 dep
LED position
400nm

Dose: 29.6 Gy
1-MeV fluence: 2.3×10^{11} cm^{-2}
HEH fluence: 1.6×10^{11} cm^{-2}

Total since slot 1:
Dose: 123 Gy
1-MeV fluence: 9.1×10^{11} cm^{-2}
HEH fluence: 6.8×10^{11} cm^{-2}

RM8 box (5V)
QPS position
400 nm
Close to the camera

Dose : 8.13 Gy
HEH fluence: 6.6×10^{10} cm^{-2}
1-MeV equ. Fluence: 9.4×10^{10} cm^{-2}