

Electrical tests and interlock

GSI/CERN superFRS kick-off meeting
3-4.07.2019

Present status (1)

- HV rack:

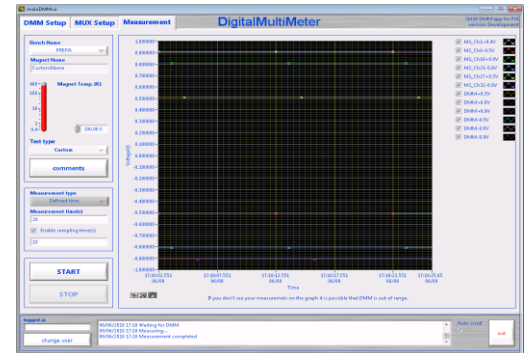
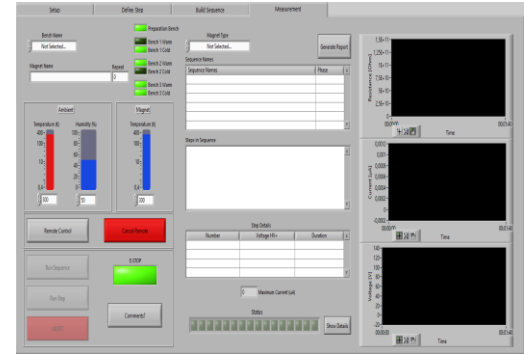
In production. Last improvements to be done accordingly to the operating feedback of Florian.

=> *User manual under writing – operator training done*

- DMM rack:

Commissioning to be completed. Should be ready for warm-up phase to measure RRR.

=> *Draft user manual written – operator training to be done*



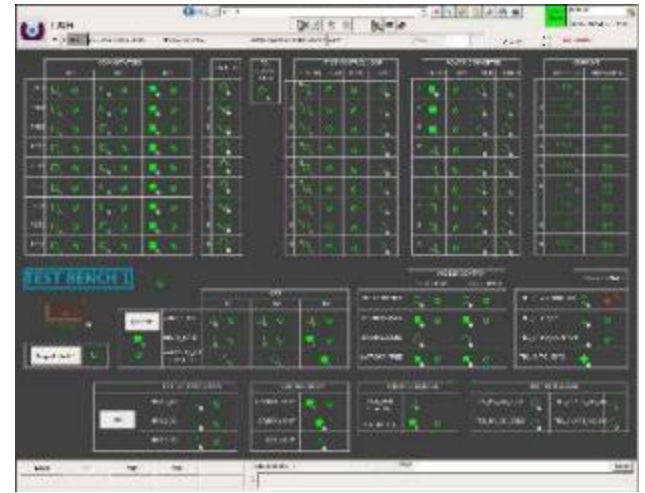
Present status (2)

- Interlock system:

Commissioning in stand-alone completed in 2018.

Commissioning with magnet to be performed at the different test phases (e.g. continuity, HV at warm, or cold powering, ...).

=> User manual to be written – will be done during commissioning & training



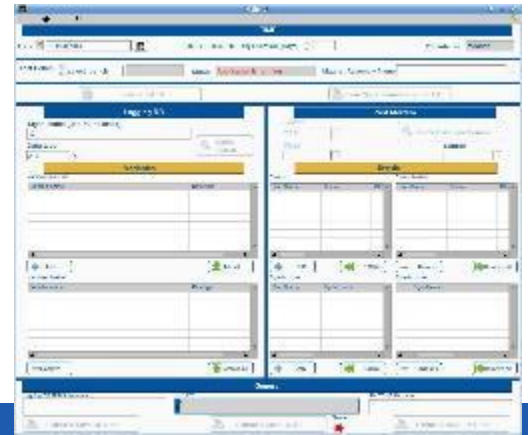
Present status (3)

- Power application:
Intensive tests in SM18.
Final commissioning with FAIR power converters to be done.

=> *documentation written – training during commissioning*

- Data extractor:
Raw version to be commissioned and tuned with real data.

=> *documentation written – training during commissioning*



Operation phase: Tech. and Adm. points

- Protective cover for low current tests on preparation bench: to be finalized + acceptance by HSE + signature of procedure of use
- Interlock system: Magnet assignment per PC must follow document “NAMING CONVENTION FOR FAIR MAGNET TEST STAND IN BUILDING 180” by M. Zerlauth
- Connection changes from one magnet type to another will entail adaptation of HV, LV and continuity test interfaces. No resources foreseen for that.
- Debugging provided by CERN