meeting update

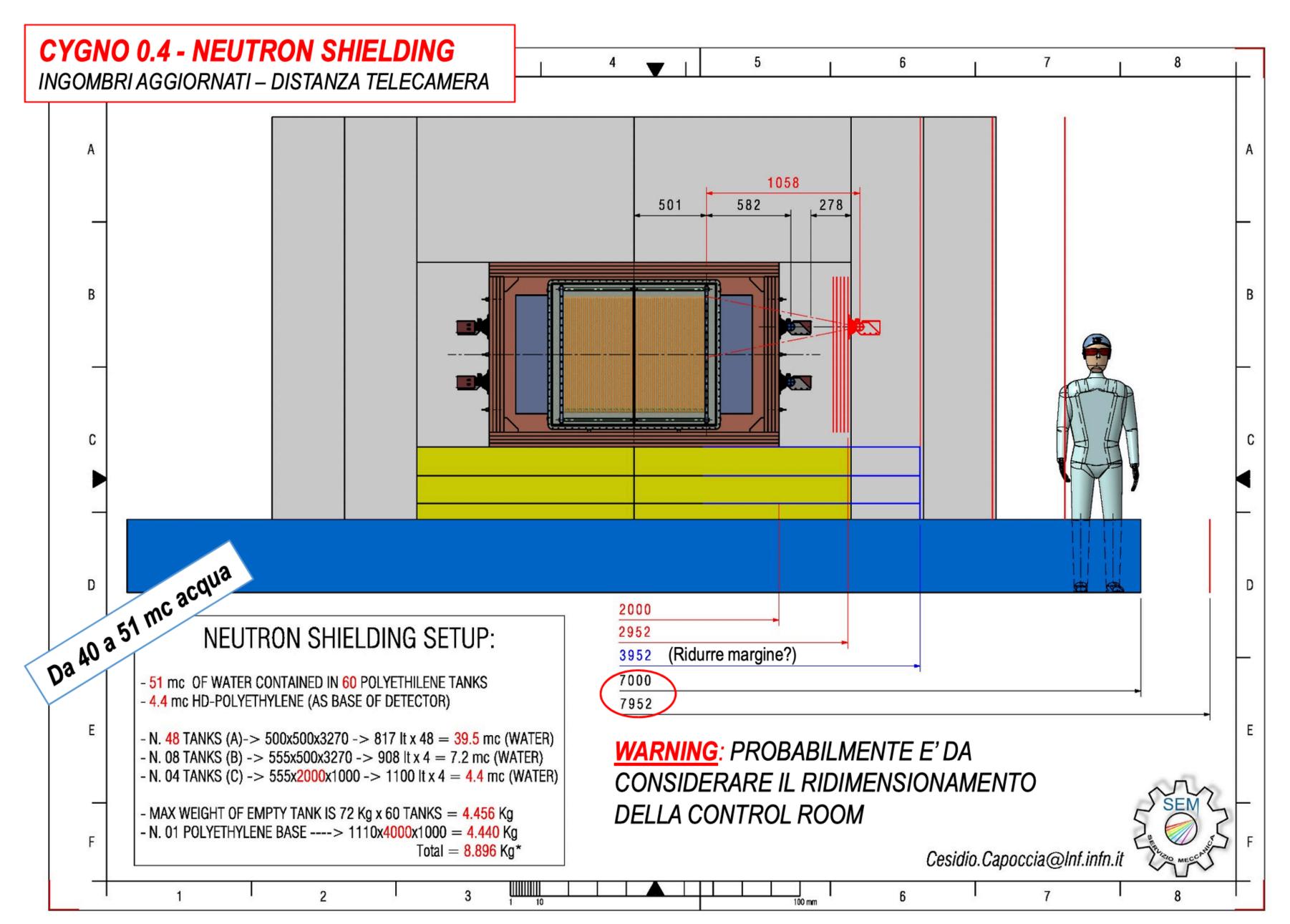
WP4 - Integration report 8 Feb 2024

- LIME:
 - gas system maintenance and operation (recovery bottles, gas quality monitoring)
- GIN:
 - Lomba cathode/FC with PCB test finished, analysis ongoing
- MANGO:
 - mechanical setup in progress

WP4 - Integration report 8 Feb 2024

• CYGNO04

- tender for site preparation: still waiting for INFN feedback about the agreement with the GSSI
- design and test on GEM/cathode/FC solution and frames (nylon6, resistors, radio-pure PMMA, Ti screws, etc)
 ongoing. It's fundamental have a feedback on PCB radio purity in order to proceed for more accurate full scale
 prototyping; in general, stil missing some companies and costs information;
- after the preliminary design and review done, the **costs of the Cu/H2O shielding** has been reduced by the idea of melting the LIME/OPERA Cu and use prefabricated water tanks for nuclear plants. **quantitative study is ongoing**; missing **information from SIM** about radio pure thickness of Cu and the possibility to use borated water
- a carefully study must be done on the source to understand number of it, materials for mechanics and movements
- a big issue with the camera distance: the today camera foreseen for CYGNO04 could not fit inside the detector, because of the today foreseen space available end any change of the affect the shielding of control too etc, already done: we have to carefully evaluate the best optics/camera ratio. we are incompatible with the space available.



Cygno 29.01.2023 Cesidio.Capoccia@Inf.infn.it