

## MINUTES OF THE WEEKLY WA104 TECHNICAL MEETING – 01/02/2017

Convener at CERN: Claudio Montanari

Present at CERN: Alberto Braggiotti, Gian Luca Raselli, Massimo Rossella, Alberto Scaramelli, Maura Spanu, Andrea Zani

Present on Vidyo Connection: Angela Fava, Fernanda Garcia, Paola Sala, Anne Schukraft, Bob Wilson, Peter Wilson

The Indico page of the event is: <https://indico.cern.ch/event/610274/>

Montanari open the meeting by describing activities to be performed on the second module (slides). He states that the completion of the work is foreseen for the second week of March. A welder will be asked for the second week of February, to connect the PMT cables to the bases.

Next week a meeting will take place in Padova, related to electrical equipment to ship to the US for the detector operation: Scaramelli, Raselli, Bonesini, Fava and Linda Bagby will be among the attendants. Peter Wilson shares news from FNAL: the first container of warm vessel parts arrived at the lab. The building cranes were load-tested up to 120% load. The ex-Nova building will be emptied soon and may serve as workshop. Garcia adds that the coming week there will be work on the levelness on the building floor. Montanari asks if there is a working plan for the warm vessel assembly: Garcia replies that this is being worked out.

Braggiotti discusses decoupling boards (DBBs). The samples assembled for the first module were taken to Padova for refurbishment: they are ready to be re-shipped back to CERN. A test for feasibility of the cluster installation through the cold vessel flanges will be performed in the coming two weeks. Among the DBBs at CERN, 108 were deeply tested, with 7 broken resistors and 1 capacitor recorded. All of these were open circuits. The program is to perform tests in LAr the following day, then more room-temperature checks. Raselli asks whether the components were actually broken or disconnected: Braggiotti replies they were disconnected, i.e. the weld was broken. Montanari notices that we want to buy new boards, to replace the broken ones, and we need to understand how many. A final decision on how to proceed will be taken on coming Friday.

Montanari introduces discussion on Working Groups (WG) formation, for installation at FNAL. Three groups are discussed during the meeting, focused on: 1) TPC and its electronics; 2) PMTs, with their electronics and calibration system; 3) overall installation. The CRT Working Group is not discussed here. Montanari suggests that within mid-March the three groups should meet internally, to define two coordinators, as well as actions and timetables. A follow-up meeting among the coordinators should then take place within end March.

Peter Wilson asks about the CRT Working Group: Montanari replies that this is not discussed only because it will be organized among CERN, FNAL and Bologna. However he states that of course the information must be circulated among the WGs, and he has to be informed on the CRT group activities as well. Bob Wilson expresses the need to have a meeting with Sergio and FNAL. Montanari suggests that this WG follows the same procedure as the other three. It is clear however that the schedule of the CRT group is a bit different, as the installation may start soon. Concerning the CRT bottom, Garcia states that she and Anne prepared a new schedule, foreseeing the possibility to install it before the flipping of the first half of the warm vessel.