

Minutes of ProtoDUNE-SP Integration, Test, and Installation weekly meeting December 1st, 2016

Attendees:

Roberto Acciarri
Christos Touramanis
Flavio Cavanna
Ed Blucher
Flor De Maria Blaszczyk
Serhan Tufanli
Geoff Savage
Anselmo Cervera Villanueva
Terri Shaw
Bill Miller
Linda Bagby
Karol Hennessy
Andrea Zani
Francesco Pietropaolo
Sarah Lockwitz
Glenn Horton-Smith
Thomas Kutter
Giovanna Lehmann Miotto
Gina Rameika
Stephen Pordes
Alan Hahn
Steve Kettel
Probably missing someone

Meeting:

Started with a few introductory slides from Christos, pointing out structure and goals of this series of meetings, tools we will need, importance of an early registration for people coming to CERN, etc.

Discussion on web space to be used to store documents and information started by Stephen, who suggests to use DocDB. Thomas and Andrea pointed out there is already a Twiki account set up for ProtoDUNE-SP in the CENF web page. Suggestion is to contact both Audrey Dedda and Nectarios to get help/information about this resource.

Regarding CERN registration, Karol pointed out that declaring a presence at CERN above 50% at the time of registration implies additional bureaucracy to go through. Suggestion from Christos is to declare a presence below 50%, unless a permanence at CERN longer than 7-9 months per year is foreseen.

Flor presented the status of the slow control system and still-open questions. During the presentation, there was a question from Stephen about how remote the control of the system would be. According to Flor, remote control should be available only inside the laboratory (in situ), while for Stephen there should be the possibility to access controls (for instance, through VPN connection) also from outside.

While presenting the system of temperature sensors under study, Stephen Pordes argued that 70 temperature sensor in a single rod may be excessive to span a ~6 meter length. The TDR reports

one sensor each 30 cm, which makes for a total of ~20 sensor. His question is if 70 is a sensible number coming from a particular study. Flor answered this number is what the Hawaii group proposed, based on the temperature map produced by Eric Voirin. Anyway, this number is still under discussion and no definitive decision is taken yet.

On the topic of the gas analyzer, concerns were expressed about the fact the CERN cryogenic team would not take care of such devices. Worries about who will take care of them, and question about the possibility/necessity to invite members of the cryogenic team to this series of meetings in order to discuss this issue were raised.

Questions/Comments at the end of Flor's presentation:

Flavio remarked that for this type of items and relative discussion, the more appropriate venue is the Cryo-Instrumentation Meeting.

Linda pointed out that the correct grounding of the cryo-piping is a delicate issue and there may be need of having David Montanari making a presentation on the subject at the meeting. She also recalled the fact that all the cryo-controls read by devices in building ground need to be optically isolated to preserve the grounding scheme.

Christos pointed out that the High Voltage Power Supply (the 300 kV one mainly, but not only) should have a system in place for controlled turn off/raise up of the voltage, in case of unforeseen events like an electrical shutdown. There would be need of someone (like Flor) to discuss with CERN safety responsible (Olga) about CERN requirements on this subject.