

Minutes of ProtoDUNE-SP Integration, Test, and Installation weekly meeting January 19th, 2017

Attendees:

Roberto Acciarri
Flavio Cavanna
Curt Lerol
Gina Rameika
Glenn Horton-Smith
Jolie Macier
Steve Kettel
Thomas Kutter
Cheng-Ju Lin
Jack Fowler
Matthew Worcester
Bill Miller
Linda Bagby
Karol Hennessy
Anselmo Cervera Villanueva
Ettore Segreto
Zelimir Djurcic
Robert Flight
Terri Shaw
Tim Loew
Anyone I forgot: sorry!

Meeting:

Slides from Roberto about a preliminary discussion regarding Clean Room and Cold Box requirements.

Concerning slide #3 on Clean Room requirements, Bill mentioned the fact we will need scissor/man lifts, whose batteries will need to be recharged. In addition, we should foresee enough outlets for hand tools, like power drills and such. These tools will likely have US plugs, but won't need dedicated transformers. Simple plug adapters should be enough.

About lighting, Jack mentioned that lights in the Clean Room will be UV-filtered, and portable UV-filtered lights for the cryostat are foreseen as well.

Karol pointed out that, even if the building is in Preveessin, plugs will be Swiss standard, not EU standard. Marzio confirmed that.

Concerning the questions about Cold Box parts procurement (slide #4), Zelimir said he would contact the relevant people of the PD group and provide answers during the collaboration meeting.

On the questions regarding temperature sensors (slide #5), Flavio suggested to contact the instrumentation group to see whether they already have sensor and a reader they could provide.

Karol asked about accessing rules for the building. At the moment, the building is accessible to everyone. At some point in March/April, access will be possible only using the badge, upon completion of an on-line safety course. The link to the course will be sent by the safety officer via mail to the whole collaboration a few weeks before the access rules will be adopted. In addition,

during the operation of the ProtoDUNE detector, ground floor and cryostat roof will be accessible also during beam time, while the pit access will be restricted.

Bill asked information about trolleys and hoists to be used in the clean room and cryostat. Jack answered they have not been selected yet. There are a few vendors available. The tender should go out next week (the week of the collaboration meeting) and after that it will be a couple of weeks before knowing something more.

There has been a request to avoid mounting electrical boxes and conduits on the long wall of the clean room, to minimize the risk of interference with the APA when being moved or rotated. This can be accommodated since the design of the electrical lines is not finalized yet.

Back to Cold Box parts procurement (slide #4), Matt said BNL will provide the T flange (for the Cold Box). They ordered a prototype flange which will be tested at BNL in the next month. After that, it will be shipped to CERN and used for the Cold Box. In addition, Matt asked about the distance between the top of the Cold Box and the Clean Room roof. Jack will check that.

Regarding the SSP crate for the Cold Box, it has been discussed who could provide that, since the PD group cannot buy it. The final agreement was that Roberto will check whether it can be purchased with the FNAL team account number at CERN, while Giovanna would get a quotation for it and, if possible, would add it to the pool of crates for DAQ and computing being purchased by CERN.