

EHN1 status report

ProtoDUNE-SP ITI Meeting

March 15th, 2018

APAs

- APA 3: 5/5 WIBs installed and tested. PD flange installed
- APA 2: 5/5 WIBs installed and tested. PD flange installed
- APA1: 5/5 WIBs installed, 4/5 WIBs tested. PD flange to be installed
- APA 4 inserted in the Cold Box and cabled at the beginning of the week – warm tests with both DAQ and local readout ongoing
- APA 5 left Daresbury last Tuesday. Arriving tomorrow at CERN, moved into the Clean Room next week
- APA 6 will arrive at CERN around April 6th

Inside the cryostat

- CPA installed in their final position. QA tests completed
- Facing a couple of installation problems:
 - APA plane a bit tilted to the side due to not symmetrical layout of cables respect to APA's center. End Wall installation and field cage deployment will help straightening up the plane. (currently with one End Wall connected we have 0.24 degrees deviation from the vertical, equivalent to 2.5 cm displacement). After several discussion with Dan and with Marzio, the decision is to move on with field cage deployment, checking the change of the APA plane at each step. After 2/3 of the field cages are deployed, we'll decide whether to install weights at the bottom of the downstream APA to correct the problem, or if the situation improved enough to leave it as it is
 - Downstream beam left /beam right End Wall with wrong connector plate. Long discussion had yesterday with Ash River crew, Dan, Vic, Thomas, Raoul, and more discussions today with Marzio and Dimitar. Found a couple of solution which may work – more on this from Kevin

46 days to TCO closing!

- March 19th → April 1st
 - APA 4 warm and cold test, then in the cryostat
 - APA 5 in the clean room, validation test, PD and CE installation
 - First drift volume field cage deployment
- April 2nd → April 15th
 - APA 5 Cold Box test
 - APA 6 in the Clean room PD+CE installation
- April 16th → April 29th
 - APA 6 CE installation
 - APA 6 and 5 in the cryostat
 - End Wall 3 and 4 assembly and in the cryostat

Additional notes

- Monday afternoon scaffolding company will come to install the scaffolding. They'll need to know exact location of scaffolding
- March 26/27 Johann and Letizia will take training to check scaffolding, while two CERN techs (Anatoly + #IforgotTheOtherName) will be trained to install scaffolding → starting from April will have much more freedom on scaffolding installation