

EHN1 status report

ProtoDUNE-SP ITI Meeting
February 15th, 2018

APA #3

- Cold test ended last Friday, warm up during the weekend, extracted from the Cold Box on Monday
- We found 4 FEMBs which needs to be replaced an some wireplane bias voltage-related noise.
- Visual inspection, FEMBs replacement, electron diverters installation, etc currently ongoing
- Plan to insert APA3 back in the Cold Box between today and tomorrow for another short round of warm tests before inserting it inside the cryostat

Everything but APA 3

- First End Wall assembled
- CTC support for APA penetrations of the first drift volume installed
- Purge pipes welding on top of the cryostat ongoing
- Cable tray unistructs for APA 1 and 2 replaced (to avoid conflicts with cryostat membrane)
- APA1 hanger installed

APAs, End Walls and schedule

- We plan to extract APA3 from the Cold Box on Tuesday, and have it inserted in the cryostat the same day or on Wednesday morning

- In the meantime (this Friday and next Monday):
 - extract APA2 from the cryostat to remove plastic shims in the CE boxes and test once more all the boxes after this operation (and cable tray work done at the beginning of the week). Then, put it back inside the cryostat
 - Install CPA hangers

- Next week (February 19th – 23rd):
 - Insert first End Wall in the cryostat
 - Install Beam Plug on End Wall panel and survey it
 - End Wall assembly and insertion in the cryostat
 - Lock APAs in position and start installing cable trays

- Following week (February 26th – March 2nd)
 - Complete cable trays installation and start routing APA cables
 - Install CE and PD flanges, route warm cables on top of the cryostat