

# NPS Collaborators' Meeting Minutes

**Date:** December 03, 2020

**Time:** 9:00AM – 10:00AM

*Attendees:* Vladimir Berdnikov, Marie Boer, Aaron Brown, Alexandre Camsonne, Rolf Ent, Tanja Horn, Charles Hyde, Steven Lassiter, Paulo Medeiros, Hamlet Mkrtyan, Carlos Munoz-Camacho, Julie Roche, Vardan Tadevosyan, Bogdan Wojtsekhowski, Stephen Wood, Carlos Yero

## 1. Detector Frame Assembly

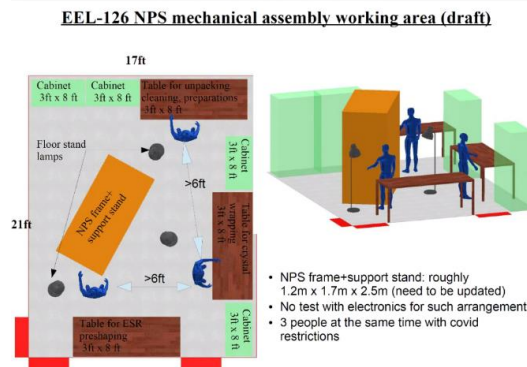
- 1.1. Carlos Munoz-Camacho presented photos of [detector frame](#)
- 1.2. Discussed where to place the input and output for the dry air or nitrogen
  - 1.2.1. Carlos will provide documentation about flow rate and pressure for dry air and nitrogen
- 1.3. Detector chillers will run on 110 V
- 1.4. Detector frame is equipped with two switches—one to turn on/off LED lighting for servicing the detector, and one to turn off high voltage when detector's door is opened
- 1.5. Frame scheduled to be shipped to JLab on January 5, 2021

## 2. DSG Update

- 2.1. Aaron Brown presented [NPS Collaborators' Meeting](#) DSG Update
- 2.2. Mindy Leffel has fabricated 1020 of 1100 high voltage divider cables; expect all cables to be completed by January 2021
- 2.3. The CAEN Radiall 52-pin connectors are delayed; expected by end of December 2020
  - 2.3.1. All other items to fabricate 140' multi-conductor cables have arrived
- 2.4. Ramp testing completed for all CAEN HV modules; module #297 is non-functional and could not be tested
  - 2.4.1. Module #349 has defective channel #13, never ramped above ~75 V
- 2.5. Mary Ann Antonioli has analyzed ~600 channels of trip test data
  - 2.5.1. Some channels failed to ramp down to 0 V/0  $\mu$ A after tripping
- 2.6. To determine where to place temperature and humidity sensors, DSG is developing a three-dimensional model of the NPS detector using NX 12

## 3. Assembly/Checkout

- 3.1. Vladimir Berdnikov showed a slide about assembly space in EEL, room 126



- 3.2. Discussed whether testing after assembly should be channel-by-channel or all channels at once
  - 3.2.1. Testing channel-by-channel is the easiest method