DC PS Rack Progress Report

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ArgonCube2x2

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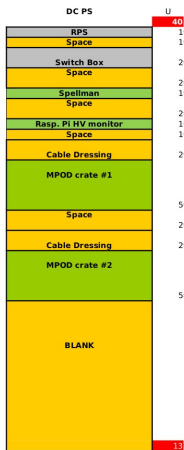# Outline

The DC-PS Rack

Installed equipment:

1. Smoke detector
2. RPS
3. MPOD crate #1
4. MPOD crate #2
5. MINERvA switch box
6. Spellman HV

The DC-PS Rack

Undecided location for:
- MINERvA switch box
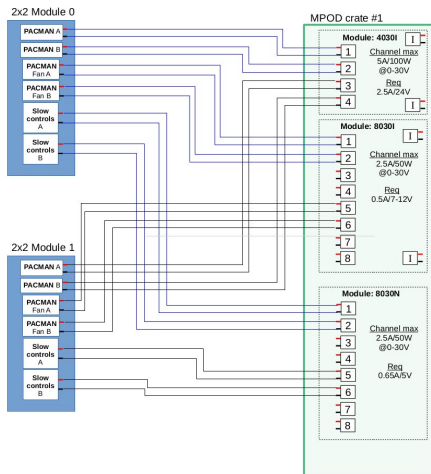- Spellman HV

Finalizing the rack:
- If the HV power supply can be moved to the HV filter rack, we could change our 208/3ph switch box as well
- Raspberry pi mentioned in the rack diagram is directly attached to the filter

MPOD

- MPODs have been installed and the cabling diagram has been chosen (see below)
- One MPOD slideable module for every apparatus: PACMAN, Fans, Slow controls for each 2x2 pair

Option 1: One MPOD mini-crate per 2x2 module pair; fans and slow controls separated

MPOD status

Missing equipment:

1. MPOD LV Module 8030N
2. Second set of MPOD modules 8030I and 8030N
3. Cables

Software and settings:

- We were able to set the voltages manually
- Both MPODs have USB and networking capabilities, but the software requires windows OS
- Matt gave us a demonstration on the fan/pacman interlock using the MPOD software to set the voltage
- Might need to write our own code down the line

Summary

- As soon as spellman's location has been determined, we can finish the DC-PS diagrams and the installation

- Still need to install computer/network switch

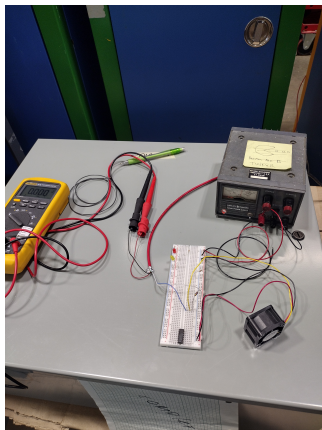- Lastly, need to find the missing MPOD modules

Documentation

https://docs.dunescience.org/cgi-bin/sso/ShowDocument?docid=24997

Backup Slides

Test

Windows PC

For MUSE control software