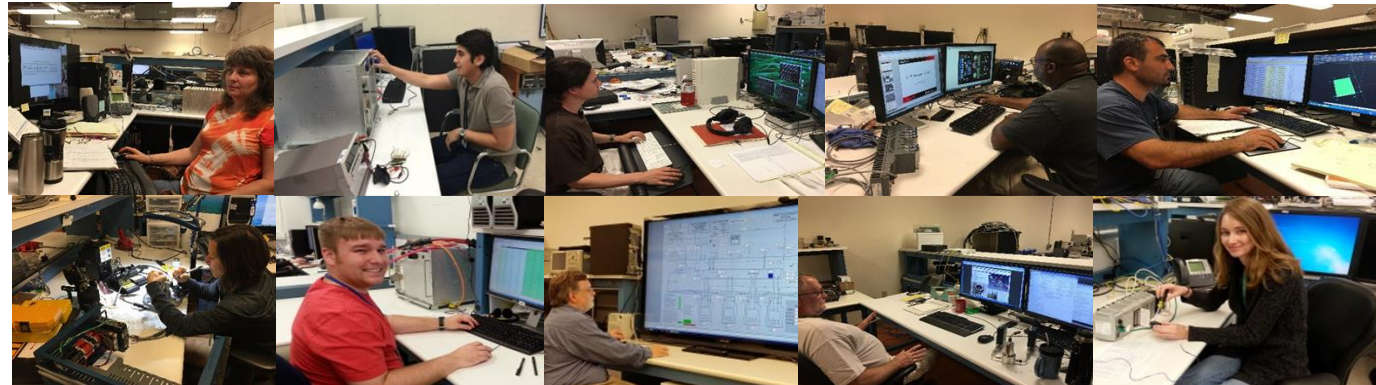


# SVT Noise Test in Hall B

**Brian Eng**

Detector Support Group



# SVT Noise Test in Hall B

- Line item on DOE schedule that must be completed before end of FY 2016
  - ◆ Required moving SVT and services from EEL clean room (EEL/124) to Hall B, then back again after test
  - ◆ Multiple groups involved: DSG, Hall B Physics, Hall B Engineering, Fast Electronics, ACE



# DSG Activities

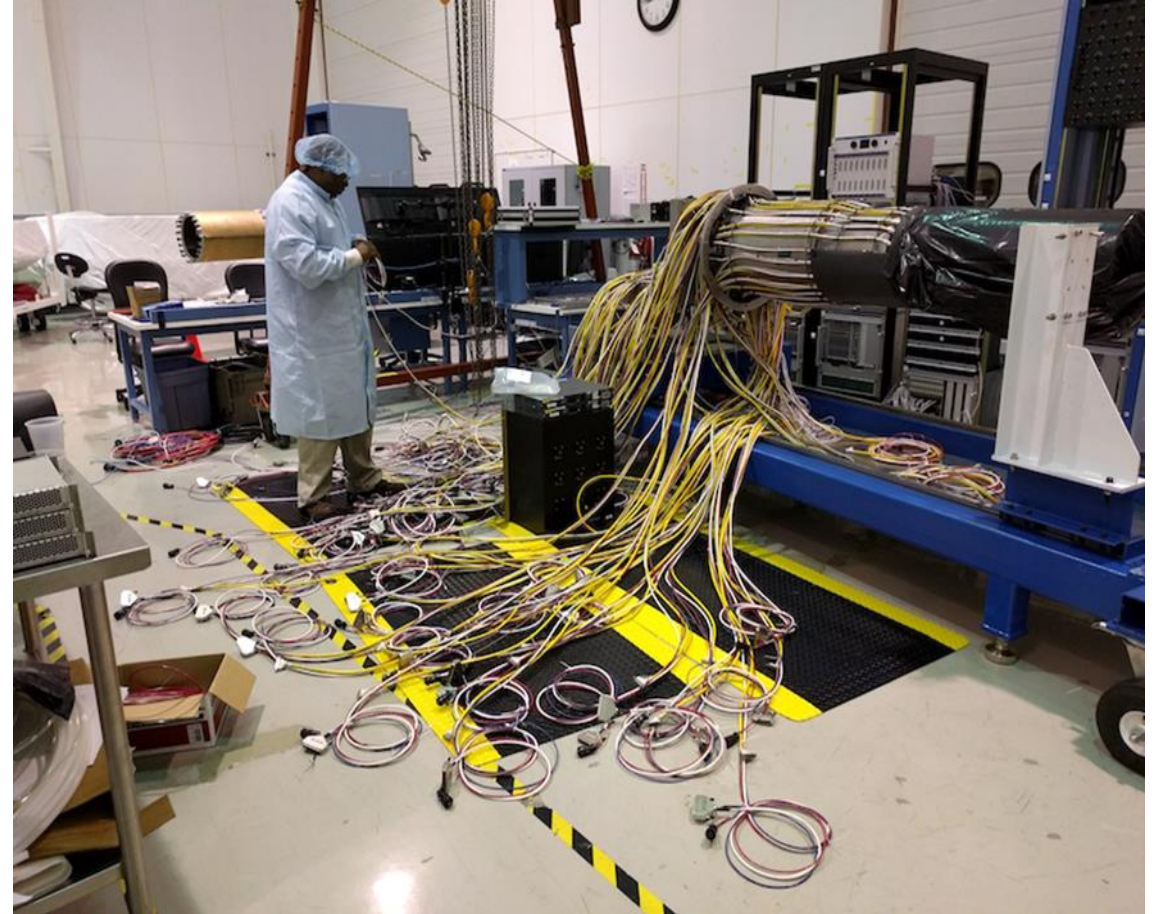
- De-cable SVT in EEL/124
- Moving equipment from EEL/124 to service cart
- Installation of N<sub>2</sub> purge in Hall B
- Cabling of SVT in Hall B
- Noise Test
- De-cable SVT in Hall B
- Move equipment from service cart to EEL/124



# De-cable SVT in EEL/124



Brian Eng



Marc McMullen





# Service Cart

- Designed by Hall B Engineering
- Required some modification by DSG
  - ◆ Cutting equipment trays
  - ◆ Drilling holes for cables
- Installed equipment



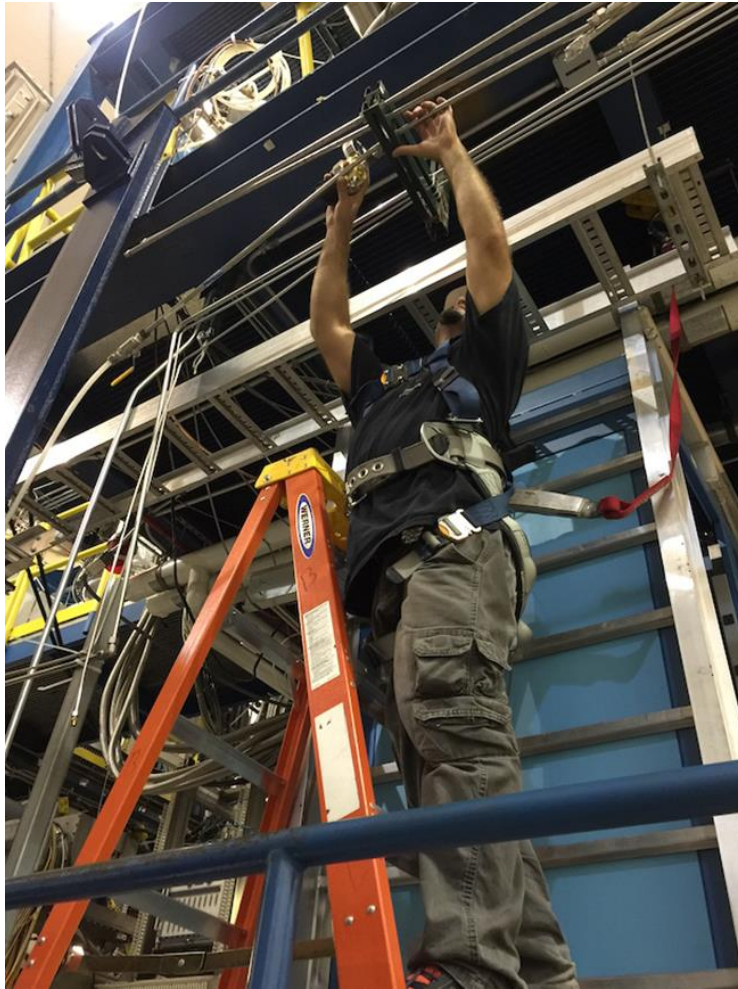
Marc McMullen

Brian Eng

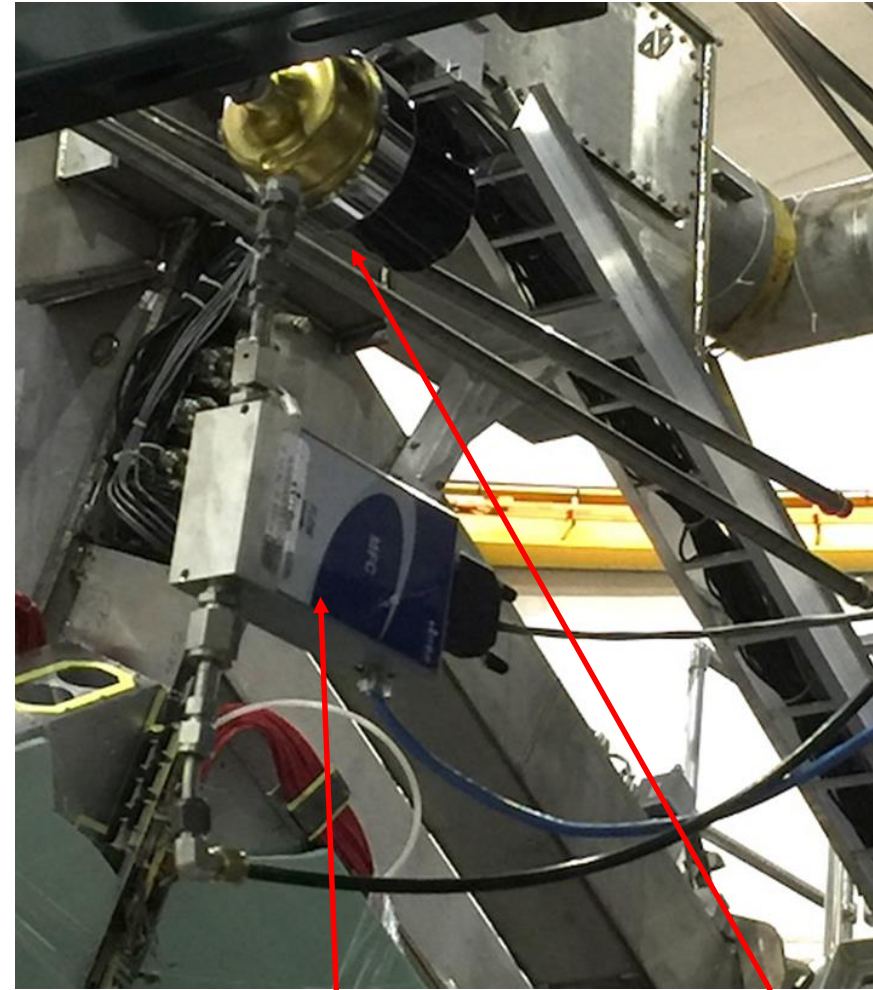


Sahin Arslan

# N<sub>2</sub> Purge Installation



Sahin Arslan installing piping



Mass Flow Controller and Regulator



# Computer Setup in Hall B Counting House



EPICS

Slow Controls screens

Interlock Screen



# Cabling SVT in Hall B



Mindy Leffel

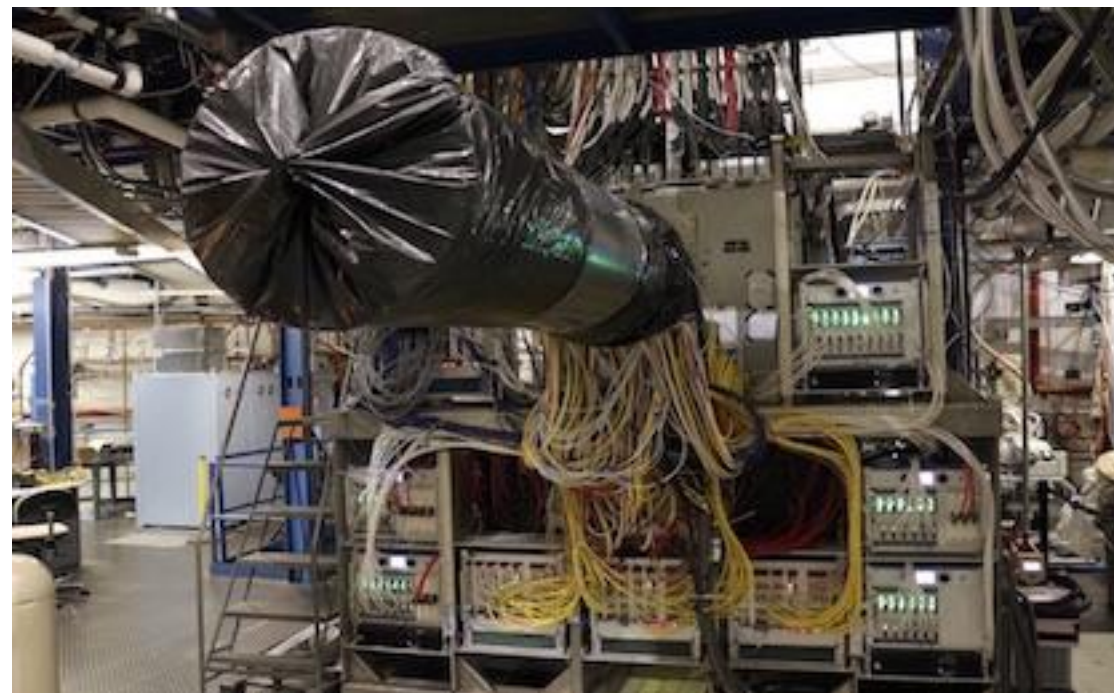
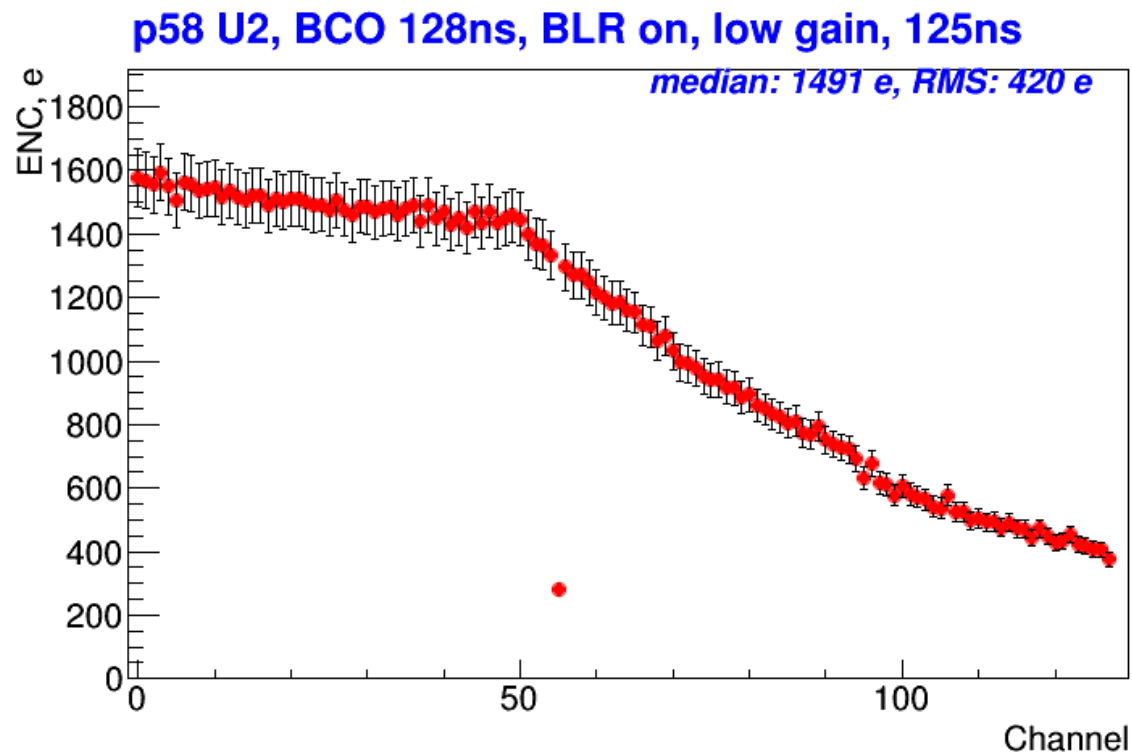
Sahin Arslan





# Noise Test

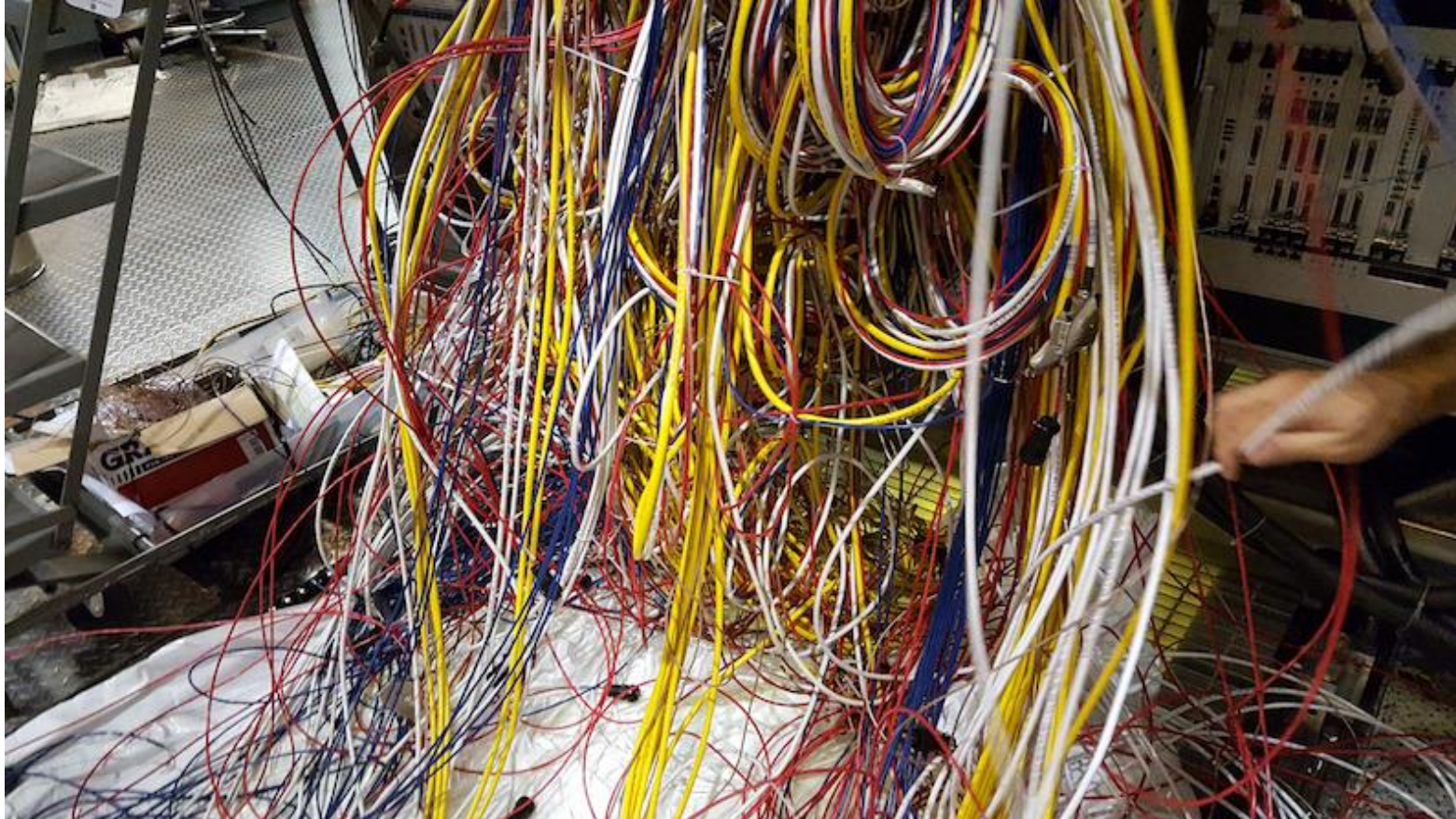
- Gain scans with individual logbook posting and parallel program
- Cosmic run taken
  - ◆ 3M events @ 11.5 Hz trigger



SVT Installed in Hall B

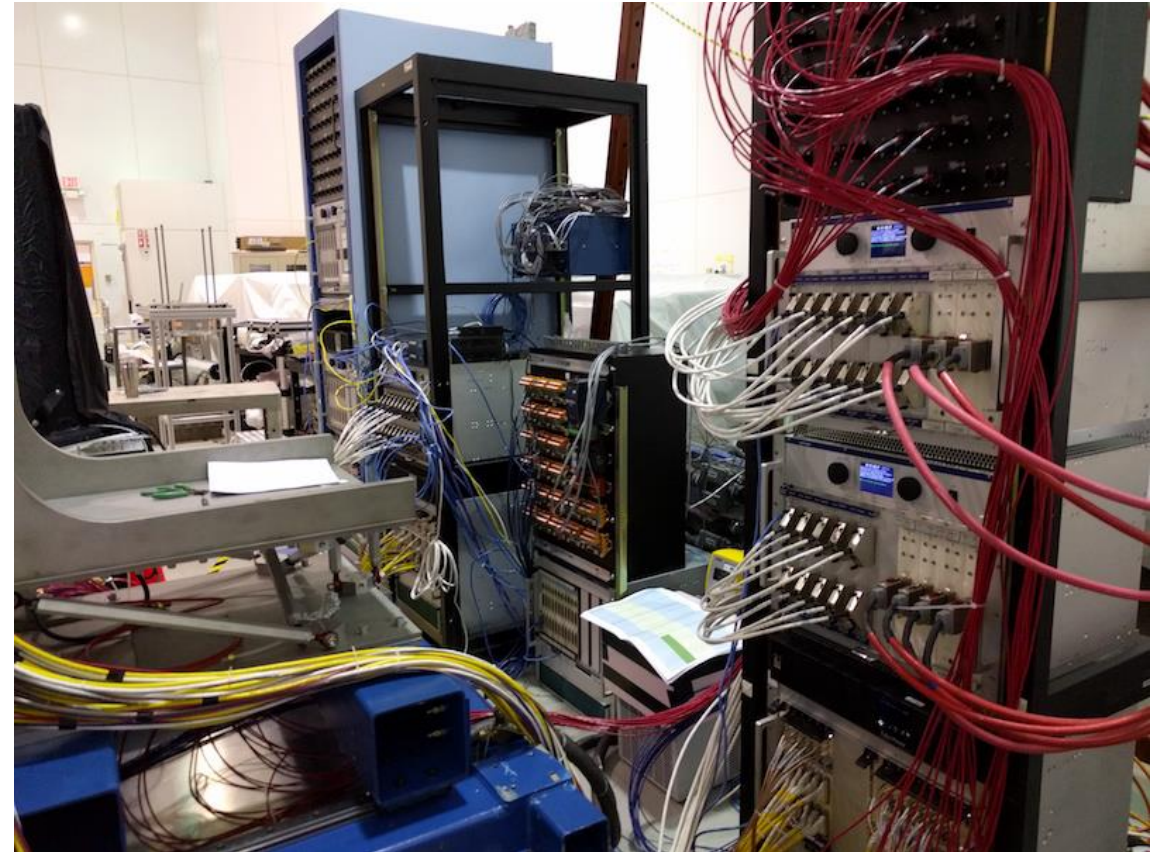
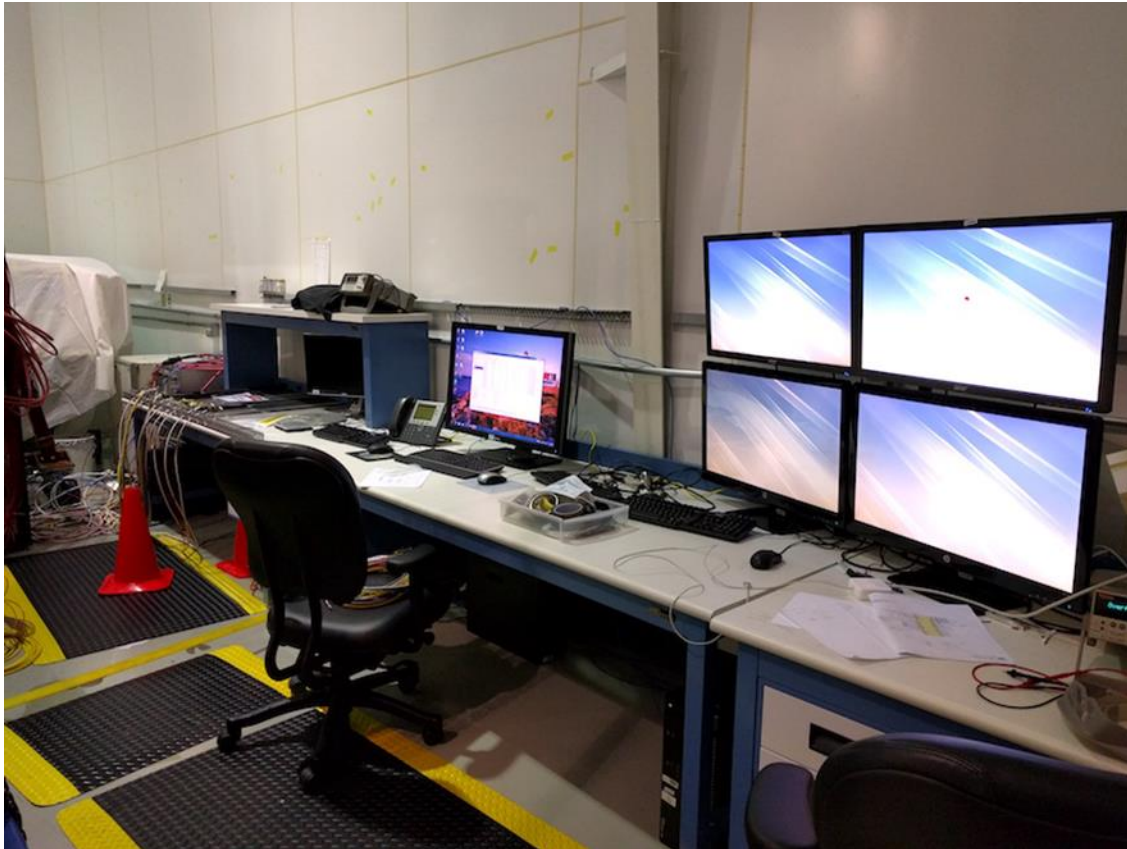
# De-cable SVT in Hall B

- Disconnect cables from crates
- Re-bundle by module





# Reconfigure EEL/124 for testing





# Lessons Learned

- No change in noise level in Hall B compared to EEL.
- Cable management on service cart not useful
  - ◆ Replace Panduit with cable tie downs
- Some cable labels not accessible
  - ◆ Cables have already had labels added at end connection
- Patch panel time consuming to reconnect
  - ◆ Replacing jumpers with solder connection where possible
  - ◆ Screw terminals good for debugging/testing, not so much for final use
    - ✦ Already put in request for Hall B to provide funding to replace with connector PCB
- Successfully moved SVT to Hall B with no damage
  - ◆ Hopefully won't have to do it again until final move



# Thank You

