

Hall C HV Distribution- Minutes

Date: 7/8/2019

Time: 2:30 pm

Attendees: M. McMullen, B. Eng, J. Segal, B. Sawatzky,

1. CAEN 7030TN Connector contact issue

- 1.1. The issue of contact retention in the connector mounted on the module was discussed. B. Sawatzky had already reviewed the CAEN documentation on potting the cable mount plug connector.
- 1.2. DSG states that CAEN should be contacted about the issue, and HV testing will continue, while noting any issues.

2. Hall C HV Distribution Mass Termination Scheme

- 2.1. Hall Cs plan to distribute HV to the NPS detector was discussed. Brad has sent a presentation on the proposed distribution which includes 32 runs of multiconductor (36 channels each).
 - 2.1.1. Each run is divided into two individual runs from the CAEN modules (2x 16 modules) with a patch panel disconnect in between. Making 64x 60 to 70 foot cables.
 - 2.1.2. Initially, all connectors on the cables will be male to male Radiall 52 pin plugs. With a female to female adapter on the patch panel.
 - 2.1.3. Due to availability, it may be beneficial to substitute 3 of the Radiall 52 pin plugs for a more available substitute.

Module (R52f)][R52m---40 conductor HV cable---R52m]][R52f]R52f]][R52m---40 conductor HV cable---R52m]][NPS(R52f)

Alternative

Module (R52f)][R52m---40 conductor HV cable---40m]][40f]40f]][40m---40 conductor HV cable---40m]][NPS(40f)

R52 = Radial 52 pin connector

f or m = connector sex

40 = alternative 40 conductor connector.

- 2.1.4. Hall C request DSG to research suitable components, help with procurement and possible fabrication.