Below are the results from the spectrometer pointing surveys carried out on the Hadron arm on November 15th.

=============== RESULTS =============== H111599B

The central ray of the spectrometer is at 27.610 degrees. It is missing the defined target center by 3.09 mm downstream, and -.32 mm vertically (positive = up).

If the offset is corrected by secondary alignment, the spectrometer will be at 27.589 degrees.

Horizontal corrections:
  Move rear jacks along tangent 3.15 mm downstream.

Vertical corrections (positive = up):
  Central jack: 1.09 mm.
  Upstream rear jack: 1.61 mm.
  Downstream rear jack: 2.14 mm.

*.3dd = 1.30  *.9pr = 0.11

=============== RESULTS =============== H111599C

The central ray of the spectrometer is at 12.528 degrees. It is missing the defined target center by 2.27 mm downstream, and -.76 mm vertically (positive = up).

If the offset is corrected by secondary alignment, the spectrometer will be at 12.512 degrees.

Horizontal corrections:
  Move rear jacks along tangent 2.31 mm downstream.

Vertical corrections (positive = up):
  Central jack: 1.68 mm.
  Upstream rear jack: 2.02 mm.
  Downstream rear jack: 3.21 mm.

*.3dd = 1.87  *.9pr = 0.13