Minutes of the 12/21/95 RSC

Subjects: 4 and 2 A*GeV Au beams in the B1 beam line


The discussion followed the written material previously distributed to the committee (D. Beavis 12/15/95 attached) for E866 and then the issues of several small experiments was discussed (K. Woodle is Liaison Physicist for these experiments).

The committee requested that the proposed fault study for improper bending in D4-6 examine both overbending and underbending. (CK-B1-AU-FY96-01: D. Beavis).

Note added after meeting: The fault study was conducted and based on the results a chipmunk from B5 was moved to the area to be sensitive to faults from mis-steering with the dipoles. The B1 upstream chipmunk was totally insensitive to overbending faults and had a reduced sensitivity (about a factor of 5) to underbending faults.

The committee recommends that the increased beam deflections with B1D181 be checked at both energy changes. (Ck-B1-AU-FY96-02: D. Beavis or K. Woodle)

The committee recommends that area surveys be conducted at each energy change. (Ck-B1-AU-FY-96-03)

The committee recommends that the quadrupoles, B1Q34 and B1Q56 have the current limited by using RSC red tags on the DC overload switch. The current should be scaled from the present allowed limits. (CK-B1-AU_FY96-04)

For the small experiments either the gaps in the beam line must be smaller than 4 inches or HP must be on continuous watch duty. (Ck-B1-AU-FY95-05: K. Woodle)

One experiment may place a thick degrader in the 4 A*GeV beam to lower it’s energy to 3 A*GeV. A fault study of survey must be conducted to ensure that this does not cause radiation levels exceeding those allowed for the areas.

Note added after: The degrader will be placed at the front of the experiment where typically a large scraping loss is not possible, therefore a fault study or appropriate survey must be conducted. (Ck-B1-AU-FY95-06: K. Woodle)

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