

12-20-91

**FROM: Rodger Bossert**

**TO: Gale Pewitt**

**CC: J. Carson, S. Delchamps, W. Koska, D. Sims, J. Strait, M. Wake, J. Zbasnik**

**SUBJECT: Discussion with John Zbasnik about Cable Insulation.**

As you requested, I discussed by phone with John Zbasnik our cable insulation plans for the first long and short magnets (DCA320 and DSA330) for Fiscal 1992. He has concurred in our initial decision to begin with an insulation system of:

**Inner coils: One layer of .001 x .375 H film without adhesive with 50% overlap followed by one layer of butt lapped .001 x .375 LT film with .0002 inches of Scotch 2290 adhesive.**

**Outer coils: One layer of .001 x .375 H film without adhesive with 50% overlap followed by one layer of .001 x .375 LT film with .0002 inches of Scotch 2290 adhesive with 50% overlap.**

Coils made with these insulation systems will be smaller in azimuth than the traditional glass tape coils. We will compensate for this by placing brass shims on the wedges.

John is somewhat concerned that we have very little data on the punch through resistance of this system. I have agreed to send him sections of the first practice short coils. Parts of these coils (inner coil #134 and outer coil #234) will be used for "cookie" cross sections at FNAL. The remaining sections will be sent to John around Jan. 10 to have punch through resistance tests performed on them.