

Draft of February 12, 2003

From: Michael Witherell

To: David Finley

Thank you for agreeing to chair a committee to advise me on the use of protons at Fermilab through the end of the decade.

I am pleased that Janet Conrad of MiniBooNE and Doug Michael of MINOS have already agreed to serve on this committee. It is important that these neutrino experiments succeed as part of the Fermilab physics program. We all know that neutrino experiments do better the more protons are available. I expect your team to come up with a quantified realistic estimate of how many protons we can expect to provide. All users of protons should be included in your deliberations, of course. I am particularly concerned that the collider program continue to get the protons they need.

To be more specific, I would like you to

- 1) Identify users of protons over the period 2003-2010 and the demands represented by each.
- 2) Establish technical goals for delivery of protons, both from the Booster and Main Injector, over the period.
- 3) Identify major modifications to the Proton Source and Main Injector that will be required to meet these goals assuming availability of Fermilab resources at the few x \$10M level over the period.
- 4) Identify possible resources and opportunities for collaboration by institutions outside Fermilab.
- 5) Suggest an organization for implementing a program of modifications, including opportunities for integration of collaborators outside Fermilab.

I want you to be prepared to provide a verbal status report at the April PAC, and a final written report before the June PAC at Aspen.

Cc:

Steve Holmes

Hugh Montgomery

Roger Dixon

Bob Kephart