



Fermi National Accelerator Laboratory
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Dr. Michael Witherell
Director
Fermi National Accelerator Laboratory
P.O. Box 500
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Dear Mike,

Attached is a short summary of the proposed CDF Run IIb upgrades. We have been working with Ken Stanfield and Hugh Montgomery to help define the scope of our upgrade program. They suggested that we submit a brief summary document, in addition to answering your questions from the last meeting, of all our proposed RunIIb projects since CDF has had items "on and off" the table in the last year. As you will see, we have attempted to justify the need for the projects in terms of the impact on the Higgs discovery where possible, or otherwise based upon our high transverse momentum physics program.

A point of some discussion is the issue of 132 ns versus 396 ns. We have assumed in all our requests that Run IIb will operate at 132 ns. If this is not the case, then the CDF trigger and data acquisition upgrades would be slightly more aggressive, but the silicon detector and the other detector upgrades would likely remain unchanged.

We hope you find the document useful in consideration of Stage I approval for these upgrades.

Regards,

Al Goshaw

Nigel Lockyer
CDF Co-Spokespersons

Pat Lukens
Run IIb Project Manager

Doug Benjamin
Run IIb Deputy Project Manager

