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Memo

date: April 18, 2003

to: Kin Yip

from: Philip Pile *pp*

subject: **RHIC Experiment Shielding Working Group – Motivation and Charge**

Motivation:

Problems encountered with backgrounds from RHIC beam losses during all phases of operation have seriously impacted not only the experiments ability to collect physics data but also RHIC beam tune-up. This working group is tasked to examine how such problems can be avoided.

The Charge:

Determine if shielding can be added to RHIC experimental IR's and elsewhere to allow experiments to operate with minimal backgrounds during all phases of RHIC operations, including the nominal set-up and ramp-up phases.

Where solutions are found, develop cost and schedule to complete the work.

A first pass at solutions is needed by [15 June](#) to allow sufficient time to integrate the work into our summer shutdown schedule. A status report is expected to be presented at the 14 May RHIC Machine/Detector Planning Meeting.

cc: S. Aronson,, M. Brennan, G. Bunce, W. Busza, M. Butler, W. Christie, M. Grosse Perdekamp, T. Hallman, D. Hofman, H. Huang, T. Kirk, J. H. Lee, D. Lowenstein, T. Ludlam, W. MacKay, Y. Makdisi, E. O'Brien, S. Ozaki, R. Pak, S. Peggs, F. Pilat, T. Roser, T. Satogata, T. Throwe, D. Trbojevic, F. Videbaek, S. White, Young, G.R., W. Zajc

Participants (attached)

The RHIC Experiment Shielding Working Group

Coordinator – Kin Yip (C-AD)

C-AD

- Dejan Trbojevic
- Angelika Drees
- Wolfram Fischer
- S.Y. Zhang
- Ray Filler
- Charlie Pearson
- Alan Stevens (consultant)

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- Dave Lee, LANL
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- Doug Fields, UNM (contact person)
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