

BROOKHAVEN NATIONAL LABORATORY
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EP&S DIVISION TECHNICAL NOTE

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G-10 MONITORING SYSTEMS

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90° monitor: Maintained by AGS Division and quite adequate for tuning target etc. However, the particle off from G-10 traverses through target handling mechanism (Motors, Gears, Flanges, etc.) and significantly depends on the configuration of target manipulating system.

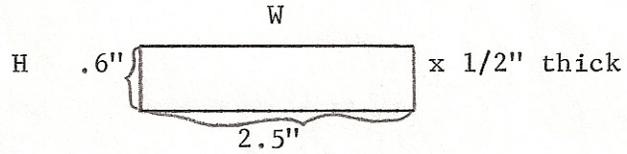
30° monitor: At present there are three systems present (of three counters each). All the experimenters on the floor use the last set, namely one installed by the Rochester Group. The electronics for the counters are sitting on the floor where the 30° hole is. We replaced the electronics with L-100 series modules.

Recommendations: a) the 90° monitor should be left as it is. The AGS multiplexing system has not been reliable but recently a new system has been installed by the AGS Division which supplies a signal to the Main Control Room and Target Desk. It is recommended that this signal be distributed to G-10 users.

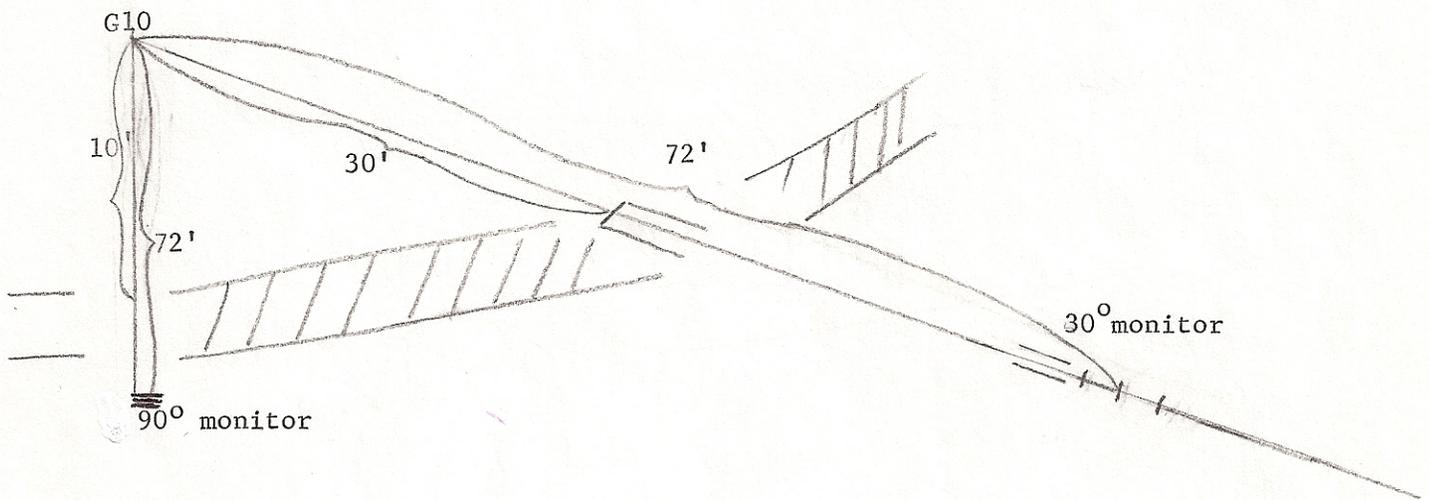
b) The 30° monitor should be renovated since most of the experimenter's work depends on it sometime or another.

i) 30° monitor hole; At present ~ 1" x 1". We would like to reduce to 1/4" vertical by 1" horizontal in order to minimize the other junk (?) viewed by the monitor telescope. Since there are plenty of counting rate, reducing the collimator wouldn't hurt the rate.

- ii) Counter telescope: At present it is 3-2" diameter counters. We would like to replace with the size just to cover the 30° hole, Recommended counter dimensions are:



- iii) The mount for the counter must be more rigid than present.
- iv) It is desirable to have this done during the Christmas shutdown.



D. Lazarus and Y. Lee would take the responsibility of maintaining the 30° monitor system.

Distr: EP & S Staff
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