Introduction

A measurement of the losses on the slow beam extraction equipment indicates a doubling of these losses, and thus induced residual radiation in this equipment when about 30% of the circulating beam is targeted on G10.

G10 Induced Losses on Extraction Equipment

A LM was also installed in the G10 area. The beam was increased on G10, and the loss in the slow extraction area (ZLM)* was noted. The data are plotted on Fig. 1. Up to $\sim 15\%$ on G10 the loss on the extraction equipment is independent of beam on G10. For higher levels on G10 the losses increase dramatically. A doubling of the losses was measured at $\sim 30\%$ of the beam on G10. Unfortunately, the AGS failed before a calibration of the G10 LM was made. A calibration was inferred by comparing to the G10 telescope and an old calibration of $\sim 1100$ counts on the telescope per $10^{12}$ protons on G10.

*Described in AGS Technical Note 112

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