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SEC Calibrations

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Observations and Conclusion

An approximate calibration of the ABC and C3 SEC's was obtained using the internal beam monitor and loss monitors. Approximately 1×10^{12} and 4×10^{12} protons per pulse was delivered to each target station separately and the losses and SEC responses noted. The sum of loss monitors was generally less than 10% of the total beam accelerated and their calibration is known to better than 25%. Thus, the SEC calibrations should be better than 5%. The exception is the C3 SEC where loss monitor coverage is less complete and beam hitting the C target further complicates the calibration.

A similar test was made in January, 1984. The A and C3 SEC's show significant changes since then.

<u>Beam</u>	<u>Present Response Normalized to January Response</u>	<u>New Calibration protons $\times 10^9$/count</u>
A	42%	0.477
B	78%	1.208
C	98%	1.29
C'	200%	0.491

mvh

Dept. S&P