

BNL-104005-2014-TECH AGS.SN127;BNL-104005-2014-IR

SEC Response Continued

J. W. Glenn

November 1980

Collider Accelerator Department

Brookhaven National Laboratory

U.S. Department of Energy

USDOE Office of Science (SC)

Notice: This technical note has been authored by employees of Brookhaven Science Associates, LLC under Contract No.DE-AC02-76CH00016 with the U.S. Department of Energy. The publisher by accepting the technical note for publication acknowledges that the United States Government retains a non-exclusive, paid-up, irrevocable, world-wide license to publish or reproduce the published form of this technical note, or allow others to do so, for United States Government purposes.

DISCLAIMER

This report was prepared as an account of work sponsored by an agency of the United States Government. Neither the United States Government nor any agency thereof, nor any of their employees, nor any of their contractors, subcontractors, or their employees, makes any warranty, express or implied, or assumes any legal liability or responsibility for the accuracy, completeness, or any third party's use or the results of such use of any information, apparatus, product, or process disclosed, or represents that its use would not infringe privately owned rights. Reference herein to any specific commercial product, process, or service by trade name, trademark, manufacturer, or otherwise, does not necessarily constitute or imply its endorsement, recommendation, or favoring by the United States Government or any agency thereof or its contractors or subcontractors. The views and opinions of authors expressed herein do not necessarily state or reflect those of the United States Government or any agency thereof.

AGS STUDIES REPORT

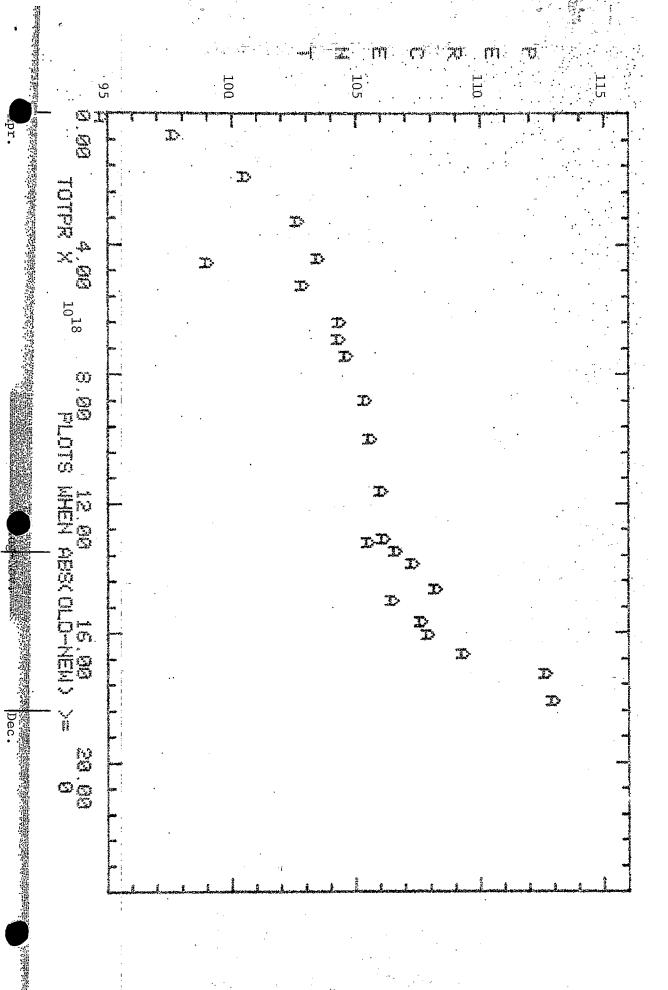
NUMBER	1	2	7
--------	---	---	---

Date	11/80-12/80	Time	Experimenters _	J.W. Glenn	
Subje	ct SEC I	Response Continued			

OBSERVATIONS AND CONCLUSION

The response of the SEC that was installed on April 16, 1980 is recorded for the fall run of the Slow Beam. Figure 1 shows the response of the SEC as a function of traversing protons since its installation. The data for the first 13×10^{18} protons were reported in Studies Report No. 125. An additional 5×10^{18} protons traversed during the fall run and data are plotted. The data for this run were normalized to 1.528×10^9 protons per count as were the spring data. The digitalization electronics were checked and have drifted less than 1%. The response continues to increase and is becoming more erratic.

Conclusion: Until a new SEC is available for this location, the "software" calibration will be updated weekly using ring loss monitor and current transformer data.



SEC Response (SEC)