

Examination of Booster Injection Foils

E. Bleser

November 1992

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**Date(s) of Study:** November 24, 1992**Time(s):** 2:30 p.m.**Experimenter(s):** E. Bleser and J. Brodowski**Reported By:** E. Bleser**Subject:** Examination of Booster Injection Foils

A visual inspection of the Booster injection foils was made and is reported here for the record.

- Foil #2. This was plainly the most heavily used but overall it looked good. A beam spot about 5/8 inches in diameter was visible tangent to the edge of the foil. The edge of the foil displayed ripples, some an inch long with an eighth inch amplitude and some smaller.
- Foil #3. Looked very good. There was a slight V shape to the edge with the V pointing downstream.
- Foil #4. Looked good; however, the whole edge of the foil seemed to curl upstream by about an eighth of an inch. Half the observers felt that the whole edge of the foil was shiny as though it had been irradiated as in #2.
- Foil #5. Looked perfect.
- Foil #6. Looked perfect.

CONCLUSION

The foils are in good shape. We shall not disturb them by opening or moving the vacuum can.