

## **SRC OPERATIONS**

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SRC provides beam in scheduled 3-week experimental quantum. There is a scheduled one-week "Development Week" for maintenance after every two quantum. Each week of an experimental quantum is scheduled from 8 AM Monday until 8 AM Saturday; five days, 24 hours a day. Saturdays are used for holiday make-up and to provide users with additional beam time. Each day during the week has four injections, 8 AM, noon, 6 PM and midnight. The noon to 8 AM period is considered scheduled beam for users. SRC over the year ending 10/1/2003 provided the normal 4271 hours of scheduled beam with a 98% reliability. The hours of operation can be broken down into 3636 hours of 800 MeV beam and 634 hours of 1 GeV beam. Saturdays and morning beams accounted for an additional 887 hours of user beam. The major source of downtime for the year was intermittent equipment failure.

Operations have continued to be dynamic. The group changed this year with the departure of swing shift operator, Dan Granger, and his replacement by Craig Trewartha. As a group we worked to complete several projects left from previous years (vacation readbacks, Diagnostic front ends, U3 Control interface, etc.). There was continued effort in the installation of the user utilities on the Wadsworth beamline. We also assigned a specific electronic technician to become a schematic draftsman, specifically responsible for AutoCAD support of the SRC electrical drawings. This was done to convert some of the original hand sketches of Aladdin systems to appropriate, dated, drawings.

Operations are also working to improve operator training. With the advent of the automated "One Button" setups for Aladdin, many of the operators don't get time doing machine setup and control during normal user operations. To maintain their ability to deal with the off normal situations, Operator training has been instituted during the development periods. By improving Operator capabilities and addressing weaknesses in the installed machine, operations will continue to make the machine more reliable in the year to come.