Beam lines vacuum control system redesign

Accelerator and beam lines vacuum control systems redesigned and rebuilt. The new solution provides full control over all of SARAF vacuum elements.

Control of beam optics elements

This control system provides full control of the beam lines magnetic optical elements. The system is fully entwined with the SARAF machine safety systems.

Beam diagnostics control

The “4Jaw Collimator” determines the beam shape and size for current and future targets.

The new beam lines wire scanners control system consists of more reliable hardware.

The control application includes more information (wire position, beam statistics ETC) and a better interface for the operators.

System Architecture

ACS HMI

Vacuum Logics

Motion and Diagnostics

Magnets

cFP-DAQ

PXI 8108

cRIO 9014

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