

## **ISIS BEAMLINER HIGH VOLTAGE INTERLOCK SYSTEM**

The project aim was to design a beamline high voltage interlock system to carry out the protection of personnel from being harmed by electrical hazards under all operating modes.

Experiments that require the use of high voltage power supplies are becoming increasingly common which has been the driving force for the requirement of this safety system. The experiments typically are conducted on PCBs with exposed live conductors. Previously, these experiments were performed solely under administrative controls which is one of the least effective methods of control. With elimination and substitution not practicable, due to high voltages being required, that left engineering control the viable solution.

This talk will discuss the design and development of the system and the benefits this has provided to the ISIS user community and staff.

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