

## **A CAN BASED STATUS CONTROL AND INTERLOCK PROTECTION SYSTEM FOR THE SRS**

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The status control and interlock protection system of the SRS control system has been redesigned. The new design uses CAN to communicate between the plant and the controlling VME system. The plant interface module is an in-house design utilizing a microcontroller to process the CAN protocol while the VME interface is a commercial module. The resulting design minimizes the number of in-house built modules while maintaining a consistent interface to the plant. The ability to distribute the modules has simplified the installation and reduced the subsequent build costs. The first application of this system, controlling the vacuum equipment on a photon beam line, has now been commissioned and future installations are planned.