Multi-Canister Overpack Handling Machine Crane Control Simulator

The Spent Nuclear Fuel Project Canister Storage Building (CSB) at Hanford is the end point for the spent nuclear fuel pending shipment in future years to the Federal Repository at Yucca Mountain in Nevada. One of the key components in the CSB is the Multi-Canister Overpack (MCO) Handling Machine (MHM), a large complicated crane/handling system used to move the fuel from MCOs to their underground storage location.

MCE Controls provided the design, fabrication, programming, and testing of a custom simulator that simulates all control, alarm, and monitoring functions (with graphics display screen and alarm annunciator) for the MHM. The system employed an Allen Bradley SLC5/05 PLC, Ibox Industrial computer, and a Ronan annunciator.

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