CEC/ICMC 2025 Abstracts & Technical Program



Contribution ID: 7 Type: Contributed Oral

C2Or4B-06: Fermilab PIP-II CDS & CM Cryogenic Controls System

Tuesday 20 May 2025 17:30 (15 minutes)

Details on Final design for Cryogenic Electrical & Controls System for Fermilab's next-gen particle accelerator PIP-II. Electrical Controls System includes instrumentation and controls of Cryogenics Distribution System and Cryomodules. Design includes Siemens PCS7 Controls System with 26 Remote IO Rittal Cabinets and 48 Relay Racks for Temperature Readouts, Valve Positioners, Level, Heater Controls etc. Electrical Drawings and Design have been completed with focus now on fabrication of the 26 Rittal Cabinets and 48 Relay Racks. All materials have been procured also. EPICS will be used as a SCADA system communicating to S7 Controllers via OPC UA.

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Session Classification: C2Or4B - Instrumentation, Visualization, and Controls II