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Integration of Fermilab's Legacy Controls System into EPICS/Phoebus

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The Fermi National Accelerator Laboratory (FNAL) PIP-2 (Proton Improvement Plan 2) project will provide a high power linear proton accelerator to produce an intense high-energy neutrino beam for the Deep Underground Neutrino Experiment. PIP-2 has chosen to use EPICS, Phoebus and related tools to control this new accelerator. This represents the first use of EPICS for accelerator operations at FNAL. The existing legacy control system called ACsys (Accelerator Control Systems) was developed over years as a custom solution for the rest of the FNAL accelerator complex. We will present our efforts to integrate the existing and new systems and mention our status and plans for the future.

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