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OR17 - A Staged Approach to Beam Commissioning of Fermilab's PIP-II Accelerator

Thursday, 14 September 2023 09:00 (20 minutes)

The Proton Improvement Plan II, or PIP-II, project is an essential upgrade to Fermilab's accelerator complex to enable the world's most intense high-energy beam of neutrinos for the international Deep Underground Neutrino Experiment at the Long Baseline Neutrino Facility, and a broad physics program, powering new discoveries for many decades to come. PIP-II features a Warm Front End, Superconducting Linac, and beam transfer line that will provide a beam of 2 mA H⁻ ions up to 800 MeV and inject them into the existing Booster accelerator. PIP-II will be commissioned in stages as the Installation Team hands off hardware to the Commissioning Team. I will discuss the strategy for this staged approach and inclusion of Main Control Room operators into the commissioning tasks.

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Session Classification: Involving Operators in Accelerator Physics and Commissioning