

The Superconducting Linac Complex

The Superconducting Linac Complex (SCLC) is a set of improvements to the existing accelerator complex that will provide high power proton beams in support of the Fermilab particle physics research program. The SCLC comprises the construction of a new 800 MeV superconducting linear accelerator injecting into the existing Booster/Recycler/Main Injector complex. Upon the completion of PIP-II the existing 400 MeV linear accelerator will be retired from service.

The immediate goal of SCLC is to provide more than 1 MW of proton beam power onto the LBNE neutrino production target (the PIP-II Experiment facility) The secondary goal is to provide a platform for long term development of the Fermilab complex to support higher beam power to LBNE and to support a broader research program based on high power proton beams.



legend

- 1 Center Service Building (PIP-II)
- 2 3-8 GeV Pulsed Linac
- 3 1-3 GeV CW Linac
- 4 0-1 GeV CW Linac (PIP-II)
- 5 Cryo Building

Superconducting Linac
Complex Key Plan

