



LBNF Primary Beam Project Update

Anne Norrick

Friday 9am

2 Nov 2023

Primary Beam

Magnets

What is included

All conventional magnets needed for extracting the beam from the Main Injector/Recycler and moving the protons to the target. Includes stands to hold the magnets, and plans for installation.

Ongoing Work

- » Tests of kicker components are ongoing.
- » MI steel samples being sent to vendor.
- » Working on defining the magnet procurement plan.
- » Preparation for magnet stand Final Design Review has begun
- » Magnet stand engineering notes ready for release after the FDR.

Magnet Power Supplies

What is included

Power supplies needed for any and all magnets used in the primary beam.

Ongoing Work

- » Schedule replanning ongoing.
- » Work on designing the thyatron needed for the kicker power supply underway.

Primary Beam

Primary Water System

What is included

All water cooling for all magnets and power supplies.

Ongoing Work

- » Work on flow models and schematic diagrams for the LCW continue
- » Rearrangement work on LBNF-05 Power Supply Room are pending review.
- » Primary Water System Branch piping for power supplies in MI-14 is completed pending review.

Vacuum

What is included

Beam pipes and all of equipment needed to create and maintain vacuum in the beam pipes.

Ongoing Work

- » Underwent final design review this week.
- » Work on installation drawings continues
- » Resistivity testing on the coated kicker magnet ceramic beam tube samples from the vendor ongoing.

