

LBNF Update since 6 October Collaboration Monthly Meeting

- 24 Oct: LAr industry day held at Sanford Lab. Good attendance and opportunity for potential vendors to understand logistics of delivery at SURF. Vendors indicated less concerned about deliveries after visiting the site.
- 25 – 28 Oct: LBNC review conducted at SURF. One recommendation for LBNF received:

“The host lab and DOE efforts to resolve numerous legal and procurement challenges at the far site need to further evolve in order to allow timely resolution and achievement of the defined International Project Milestones.”
- 30/31 Oct: LBNF Strategic Project Advisory Committee met. Discussions covered current project status, strategy to CD-2, status of international engagement, governance, procurement processes, and international project milestones.

LBNF Update 2 of 4

- 1 Nov: EFIG met to discuss:
 - Removal of bulkhead that was planned between chambers 1 and 2 in the first cavern. Planning indicated that not installing the bulkhead will reduce costs by approximately \$500k and should have minimal or no impact on ability to start installation of first cryostat in chamber 1.
 - Optimized beamline. EFIG unanimously recommended that the optimized beamline be implemented without “hooks” or “staging” due to significantly improved physics reach of the improved neutrino beam.
 - Discussed international project milestones:
 - 2019 - start of main cavern excavation
 - 2022 - start of detector #1 installation
 - 2026 - beam on with two detectors

LBNF Update 3 of 4

- 6 Nov: Executive partnering session held at Arup NYC office, followed by KAJV, Arup, SDSTA, and LBNF broader team partnering session. Partnering sessions to be held quarterly per project plan. First session established overarching goals, communication channels, and assessment of each group's concerns.
- 21 Nov: Under Secretary for Science Paul Dabbar visited Fermilab and was provided detailed briefing on LBNF and DUNE.

LBNF Update 4 of 4

- 1 Dec: Final design review of the IHEP corrector magnet prototype successfully completed. IHEP is ready to proceed with producing the 23 corrector magnets; a production readiness review is being planned in China at IHEP for January.
- 8 Dec: Continuing resolution passed for two weeks, to 22 Dec.
- Misc Updates:
 - A “Host Laboratory” working group has met twice to identify issues related to supporting the LBNF/DUNE projects and supporting the international collaboration. Five sub-groups have been formed to address specific issues related to: International Lab, LBNF-DUNE Project Support, Business and Liabilities, FNAL-SURF Relationship, and User Interactions.
 - Offer extended and accepted for senior construction specialist at Far Site.
 - CERN is getting ready to award the design contract to GTT for the LBNF membrane cryostat design.