

**Charge Letter: LBNC June 2024 Review, June 5-7, 2024**

The LBNC is charged by the Fermilab Director to provide external scientific peer review and to monitor the technical progress of the International DUNE collaboration, and those aspects of the facility construction that have direct impact on the DUNE experiment.

For the June 2024 meeting, the LBNC will meet to review status and progress of LBNF and DUNE. As with other meetings, the LBNC should construct a report in which it acknowledges, comments on, and where appropriate, makes recommendations following the presentations and discussions during the meeting.

There is one major topic for this LBNC meeting: the LBNF beamline. Secondary focus areas will be DUNE Computing and the DUNE near detector. In addition, the LBNC should receive updates on the DUNE collaboration, far detector progress, activities on ProtoDUNE-II, and DUNE Phase II.

In considering the presentations and material provided for the meeting, attention should be given to prior LBNC recommendations and actions that have been undertaken to address these recommendations. We would like to continue our work toward uniform and regular reporting and tracking of major DUNE technical milestones. The Director requests that every effort be made by the speakers to have their talks uploaded to indico at least six days before the June meeting and that responses to existing recommendations be addressed in the recommendation tracker also at least six days before the June meeting.

For the LBNF beamline topic the committee is asked to use the June meeting to advance their review of the beamline TDR as much as possible with the aim of having the review completed in time for it to be input to the Near Site CF and Beamline Director's review on 30 July 2024. The LBNC's review of the beamline TDR has its own charge.

Regarding DUNE Computing, the committee is asked to track progress on the advancement of the overall organizational structure, and the formation and execution of the plan for the computing framework development.

Regarding the ND and given that the Near Detector Requirements Taskforce is expected to have completed their work, the committee is asked to scrutinize the resulting updated ND requirements.

The LBNC should present a Closeout Report to deliver at the end of the meeting. Subsequently this should be refined into a LBNC Meeting report.