

Montgomery  
February 13, 2020

## **LBNC March 4-6 Draft Charge**

The LBNC would like to hear about the general status of LBNF. Of particular interest are the planning for DOE-IPRs, the current schedule, and any options for early delivery of beam. The LBNC would appreciate hearing a short discussion of the projections as a function of time of the accelerator performance, in particular the power delivery, through PIP II.

The LBNC would like to hear from DUNE its overall status and progress from a high level, providing a basis for the details which follow. A discussion of the numbers and impacts of new collaborators should be covered. Given that the plans for Hyper-K appear to have progressed, the LBNC would like to hear the view of the DUNE collaboration.

Time has been allotted for discussions of the advances in the Technical Coordination of DUNE and of the development of the Resource/Responsibility Matrix.

The LBNC would like to hear about the progress with the Far Detector SP technology. The presentation(s) should cover:

- a) Operations of ProtoDUNE-SP during 2020 and the understanding of operating parameters for DUNE and the plans for ProtoDUNE II operations.
- b) Physics analysis of the PD-SP data including charge and photon detection. A separate talk is envisaged in the draft agenda
- c) SP technical progress including the TPC electronics development.
- d) Progress in understanding of, and tests, of installation plans and procedures for DUNE.

Time has been reserved for breakout discussions which we suggest could be used for some of these discussions.

For the Far Detector Dual Phase technology, the presentations at this meeting follow a teleconference between the DP principals and the LBNC DP focus team. We anticipate that the “plenary” talk will cover progress through the LBNC Meeting. We have assigned a separate talk for the analysis. In the breakout, we anticipate discussions which follow on from the detailed issues addressed in the teleconference. The review group may have some specific questions.

At its December 2019 meeting, the LBNC heard an extensive discussion of tentative planning for the detectors to be included in the Conceptual Design Report for the Near Detector complex. Anticipating the imminence of the CDR, the LBNC would like to hear about how the design has evolved over the past few months. In particular, anticipating that resources will be constrained, the LBNC would like to hear of any plans for descoping or staging. These should ideally include discussions of their impact on the eventual systematic uncertainties.

The LBNC continues to be interested in the development of the Computing Consortium. This would ideally include a discussion of the scope of the consortium responsibilities vis-à-vis the full spectrum of DUNE capabilities and their organization and integration.

The LBNC will develop a Closeout Report which it will deliver not later than 13:30 on Friday March 6. Subsequently this will be refined into a LBNC Meeting report.