

Long Baseline Neutrino Committee

April 2019

Fermilab

CLOSEOUT Report

April 3, 2019

Acknowledgements

The LBNC recognizes the effort put into the preparation of the presentations and material by the DUNE Collaboration, and the frank responses to questions and queries.

The committee thanks Fermilab for their support and hospitality

LBNC Meeting Charge Draft 3/20/2019

- The LBNC will hear about the progress in a number of areas including the general progress of each of LBNF including the beamline, and DUNE in general and changes in the organization of the Technical Coordination functions. For ProtoDUNE SP, there will be presentations covering both the analysis of 2018 data and the 2019 operations. For the Dual Phase option, we will hear about the progress of ProtoDUNE DP, ongoing development, and preparations for the TDR. Two other foci will be the progress of the design and simulation of the Near Detector, as a precursor of its planned mid-2019 review. We will also hear more about the development of the Computing Consortium and plans. Finally, we have been active reviewing the Technical Design Report volumes for Physics, Far Detector – Single Phase, and Technical Coordination: we will hear a status report from DUNE and then, in Executive Session, from our review teams.
- The LBNC will prepare a written report, which will include descriptions of the status of each of these items. Following the December 2018 meeting, a report to the DOE LBNF-DUNE IPR in early January 2019, was requested. We might expect similar during the summer of 2019. Our goal will be to leave FNAL with an advanced draft of the report in hand.

LBNC Meeting Charge Draft 3/20/2019

- **In order to facilitate achieving this, we will make tentative assignments for the attending LBNC members including one who will be requested to take the lead in writing. We are looking for approximately 0.5 – 1.0 pages of text per item, plus individual powerpoint pages for inclusion and presentation at the closeout. We will discuss the expectations in the executive session at the beginning of the meeting.**

LBNC Meeting Assignments 3/20/2019

08:00 Executive Session Committee + Director

Role of LBNC and Status

Hugh Montgomery

09:00 LBNF Status

LBNF Update (general)

Joel Fuerst, Bob Laxdal

LBNF Update (Beamline)

Bob Laxdal, Joel Fuerst

10:00 Break

10:15

DUNE Update (general)

Dave Charlton, Marco Pallavicini, Bob Tschirhart

11:15

DUNE Update (Tech. Coord)

Marty Breidenbach, Dave Charlton, Bob Tschirhart

12:15 Lunch/ Executive Session

13:30 Near Detector

Naba Mondal, Patrick Huber

Near Detector (Performance Studies)

Near Detector (TDR Progress)

15:00 Break

15:15 ProtoDUNE Single Phase

Jocelyn Monroe, Ted Liu

ProtoDUNE-SP (Data Analysis)

ProtoDUNE-SP (2019 Operations)

LBNC Meeting Assignments 3/20/2019

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09:00 Dual Phase

Jeff Spalding, Ties Behnke, Cristiano Galbiati

ProtoDUNE-DP (Installation Progress)

DUNE-DP (Progress on TDR)

10:30 Break

10:45 Computing Consortium and Design Document

Amber Boehnlein

12:00 Lunch/Executive Session

13:30 TDR Status Reports – Dune

Far Detector-SP, Technical Coordination, Physics

15:30 Break

15:45 Executive Session

TDR Status Reports – LBNC TDR Teams

Far Detector-SP

Technical Coordination

Physics

Jocelyn Monroe, Ted Liu

Dave Charlton, Marty Breidenbach

Beate Heinemann

Executive Summary

Hugh Montgomery

LBNF Status General: Fuerst, Laxdal

- LBNF

Recommendations -

LBNF Status Beamline: Laxdal, Fuerst

- LBNF

Recommendations -

DUNE Update (general): **Charlton**, Pallavicini, Tschirhart

- The LBNC

Recommendations

DUNE Update (Tech Coord): **Breidenbach**, Charlton, Tschirhart

- The LBNC

Recommendations

Near Detector (Perf Studies): **Huber**, Mondal

- The LBNC

Recommendations

Near Detector (TDR Progress): **Mondal**, Huber

- The LBNC

Recommendations

ProtoDUNE-SP(Data Analysis): Monroe, Liu

- The LBNC

Recommendations

ProtoDUNE-SP(2019 Operations): **Liu, Monroe**

- The LBNC

Recommendations

ProtoDUNE-DP(Installation Progr): **Galbiati**, Behnke, Spalding

- The LBNC

Recommendations

ProtoDUNE-DP(TDR Progress): Spalding, Galbiati, Behnke

- The LBNC

Recommendations

Computing Consortium and Design): **Boehnlein**

- The LBNC

Recommendations

FD-SP TDR Status: **Monroe, Liu**

- The LBNC

Recommendations

Technical Coordination TDR: **Charlton**, Breidenbach

- The LBNC

Recommendations

PhysicsTDR: Heinemann

- The LBNC

Recommendations

DUNE Executive Summary: Montgomery

- DUNE....

Recommendations -