

Status & Plans

Eric James

Far Detector Technical Board Meeting

November 29, 2018

TDR

- Production of TDR volumes on the needed time scale remains highest collaboration priority
- My understanding is that we met the deadline for producing first drafts of the SP-HV, SP-APA, and SP-DAQ chapters
- Targeting the release of these three chapters to the LBNC prior to end of December

Near-term Schedule

Consortium	1st draft	2nd draft	LBNC
SP-HV	November 2, 2018	December 7, 2018	December 21, 2018
SP-APA	November 2, 2018	December 7, 2018	December 21, 2018
SP-DAQ	November 2, 2018	December 7, 2018	December 21, 2018
SP-PDS	November 30, 2018	January 11, 2019	January 25, 2019
SP-CISC	November 30, 2018	January 11, 2019	January 25, 2019
TC	November 30, 2018	January 11, 2019	January 25, 2019
PHYSICS	November 30, 2018	January 11, 2019	January 25, 2019

TDR Draft Schedule

December: SP high voltage, SP APAs, SP DAQ

January: SP photon detection system, SP CISC,
Technical Coordination

February: SP electronics, DP electronics

March: DP high voltage, SP installation/integration

April: DP photon detection system, **SP Calibration**

May: DP DAQ, DP installation/integration, DP CISC

June: DP CRPs, **DP Calibration**

July: Final version of complete TDR to LBNC

(note: month indicated implies end-of-month delivery)

QA/QC and ES&H

- Heard from Kevin about plans for how his team will interact with the consortia to further develop QA/QC plans
- At last meeting asked consortia to nominate contact persons for QA/QC and ES&H
- Only one response received up to this point – needed as soon as possible now that our QA Specialist (Jim Mateyack) is in place

ProtoDUNEs

- There will be a meeting on December 4th at CERN starting at 2:30pm (Geneva time) to discuss the ProtoDUNE-SP run plan for 2019
- Per Gina's presentation, consortia should propose needed data sets and tests and identify the required resources
- Current expectation is that there will be a small (3-5 person) on-site team to maintain the detector and provide support

Schedule

- The final versions of the TDR volumes will incorporate updated schedule information that accounts for the current state of the excavation schedule for the underground areas
- For the moment, the excavation schedule remains a work-in-progress, and we do not want to “jump the gun” on advertising new dates until we are confident that we have the correct ones in hand

Costs

- Need to put together a plan for next iteration
- Don't expect that there will be a lot of changes to the cost estimates themselves (still based primarily on ProtoDUNE)
- Big Issue is establishing a common format and providing a consistent level of backup material
- Will propose a plan for this at next Technical Board Meeting – Next iteration due by March

Schedule/Cost Work Days

- Between now and the end of the year, I would like to schedule days where Ami and I can meet with consortia leadership team members on an individual basis to work on further developing our construction schedule and cost estimates
- For consortia centered in Europe, Ami and I plan to be at CERN during the week of Dec. 3 and are leaving open the days of Dec. 5-6 to hopefully have some of these interactions

Upcoming Schedule

- DAQ 30% Design Review: Dec 3-4 @ CERN
- ProtoDUNE-SP 2019 Run Plan Meeting: Dec 4 @ CERN
- LBNC Meeting: Dec 7-9 @ CERN
- LBNF/DUNE-US Project Review: Jan 8-10 @ FNAL
- DUNE Collaboration Meeting: Jan 28-Feb 1 @ CERN
- APA 60% Design Review: Feb 7-8 @ PSL
- CE Mechanical 60% Design Review: Feb 11-12 @ BNL
- RRB Meeting: March 14-15 @ FNAL
- LBNC Meeting: April 1-3 @ FNAL

LBNC Meeting Next Week

- Agenda has been finalized (DocDB #11563)
- Presenters are requested to post their slides to the practice talk agenda page by Wednesday, December 5th
 - <https://indico.fnal.gov/event/19173/>
- Practice talks will be the afternoon of December 6th at CERN starting at 1pm
 - <https://indico.cern.ch/event/777482> (Vidyo connection)

Detector Specifications

- Executive Board approved and took ownership of parameter specifications list for SP FD at its last meeting on 11/15 (DocDB #11074)
- As requested by LBNC, a document has been written that maps DUNE primary physics goals into the five specifications on this list identified as the primary physics drivers (DocDB #11431)
- Next step is to repeat this process for the DP FD
 - Need to discuss with relevant consortia leadership teams next week at CERN