

# Status & Plans

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Far Detector Technical Board Meeting

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# Path to TDR

- Much progress over past couple of months
  - Public Release of Interim Design Report
  - Submission of initial cost estimates to NGC
  - Beginning of ProtoDUNE-SP operations
  - Successful operation of ProtoDUNE-DP CRP in Cold Box
- Primary focus of next 6-9 months needs to be on the production of Technical Design Reports

# Steps to TDR

- An aggressive schedule has been distributed by the TDR Editors (see next slide)
- LBNC has requested early access to our drafts to assist them in their review process
- LBNC also has requested that we work to standardize how information is presented within each of the TDR sections

# TDR Production Schedule

- **September:** Consortium/working group editors appointed
- **October:** Outlines due including outline of protoDUNE strategy
- **November:** First drafts due including first pass at requirements table. Editors' initial review complete by November 15
- **December:** Second drafts due. Must include initial cost, risk, schedule, and interface tables, plus any iteration of protoDUNE strategy and requirements.
- **January:** Review of second drafts.
- **February:** Outcome of independent reviews of second drafts back to consortia/working groups
- **March:** Final drafts due
- **April:** Review of final documents complete
- **April 15:** Submit final document to LBNC

# Auxiliary Information

- Project deliverables associated with production of the TDR include
  - Costed Work Breakdown Structure
  - Schedule for Construction and Installation
  - Risk Assessments
  - Finalized Interface Documents
  - Completed Design Reviews
  - Assigned Institutional Responsibilities for Deliverables

# TDR – Next Steps

- During next week's collaboration meeting, the TDR editors and myself would like to schedule some time to meet with each of the consortia leadership teams (including editors)
  - Need to settle on strategy for TDR content – What is baseline system?, Will any alternatives be mentioned?
  - Need to understand the production schedules for each of the consortia chapters
- Look for a doodle poll from me later today to identify times for these discussions

# TDR – Requirements

- Need to re-visit the issue of how to deal with requirements in the TDR
- More on this later

# Cost Estimate – Next Steps

- NGC is still reviewing our initial cost estimate information and will provide feedback to us on the time scale of mid-October
- Ami Dave is working to combine the received input into a coherent WBS cost book
  - Goal is to see if we can format this in a manner that will be easier to update and maintain
- Expect the next NCG review of the cost book to take place on time scale of February 2019



# Schedule – Next Steps

- As part of the ongoing cost re-estimation process for LBNF/DUNE-US, we have created a schedule for international DUNE (based on the inputs from the consortia) with appropriate links into the facilities project schedule
- I will need to work individually with each of the consortia leadership team over the next few months to further develop this schedule

# Interface Documents – Next Steps

- Interface documents were updated as part of the recent cost estimation exercise
- Need to place all interface documents under signature control within the next 2 months
  - Project engineering team will interact with consortia leadership teams as necessary to finalize documents
  - Need to make sure that all consortia leadership teams have certificates that allow them to sign-off on the appropriate DUNE DocDB entries

# Institutional Responsibilities – Next Steps

- Funding agency representatives were shown a high-level, speculative mapping of responsibilities for deliverables based on current institutional interests at last week's RRB meeting
- Funding agency representatives are being asked to make a statement at the next RRB meeting in March as to whether their set of assigned deliverables is “realistic”

# Design Reviews – Next Steps

- 30% design reviews are being scheduled for SP-PD and DAQ in November and December, respectively
- 60% design reviews will need to be scheduled for all sub-systems in 2019 (timing will be discussed as part of the discussions that we hope to hold during the upcoming collaboration meeting week)

# Upcoming Schedule

- Collaboration Meeting: September 24-28 @ FNAL
- Integration/Installation Workshop: October 29-31 @ SURF
- LBNF/DUNE Integration Meetings: October 31, November 1-2 @ SURF
- SP-PD 30% Design Review: November 12-13 @ FNAL
- DAQ 30% Design Review: December 3-4 @ CERN (TBC)
- LBNC Meeting: December 7-9 @ CERN
- Collaboration Meeting: January 28-31, February 1 @ CERN