

TDR Kickoff

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- DUNE Collaboration Call
- August 24, 2018

Overall Structure:

-- Connected stand-alone volumes

- I. TDR Executive Summary
- II. Physics TDR
- III. Dual Phase Module TDR
- IV. Single Phase Module TDR
- V. Technical Coordination TDR
- VI. (Computing CDR)
- VII. (Near Detector CDR)

Common volume structure

Executive summary → funding agency professionals
Volume chapters → HEP professionals == reviewers

1. Volume executive summary
 - a. Concise summary aimed at funding agency professionals.
 - b. ~50 pages.
2. Content chapters
 - a. Determined by volume editors.
 - b. Aimed at HEP reviewers.
3. TDR executive summary
 - a. One readable volume aimed at funding agency professionals
 - b. ~200 pages, composed from volume executive summaries.

Detector Module TDR

~50 page chapters

1. Executive summary
2. CRP or APA
3. High voltage
4. Cold electronics
5. Photon detector
6. Calibration
7. DAQ
8. CISC
9. TC-- integration/installation/commissioning

Detector module consortium chapter

Updated IDR narrative

Plus standardized elements

1. Requirements Table (“Schmitz Table”)
2. Components summary and table
3. Cost summary and table
4. Schedule summary and table
5. Risk summary and table
6. Interface summary and table

Themes

To be worked in at all levels

1. Requirements from physics for the detector.
2. ProtoDUNE.
3. Safety.
4. Professional practices (cost, schedule, risks, interfaces).
5. Concision

Early key decisions:

- Scope definition and baseline.
 - What is the system or scheme for the TDR?
 - What is the development plan, if needed, for post-TDR elements?
- Incorporating ProtoDUNE
 - What can go in with high confidence?
 - What are reasonable stretch goals?
 - Implementing a placeholder structure.

Nominal Schedule

- September 1: Consortium and working group editors appointed. “Lessons learned” and other meetings.
- October 1: Outlines due. Outline of ProtoDUNE strategy due .
- November 1. First drafts due; including first pass at requirements table. Editors’ initial review complete by November 15.
- December 1. Second drafts due. Must include initial cost, risk, schedule, and interface tables, plus iterations of ProtoDUNE strategy and requirements.
- February 1. Independent reviews of second drafts back to consortia/working groups.
- March 1. Final drafts due.
- April 1. Independent reviews of final documents complete.
- April 15. Submit to LBNC.