

SP PHOTON DETECTION CONSORTIUM

NOVEMBER 14, 2017

OUTLINE

- Report from the last Technical Board meeting
- WG meeting coordination
- SP PD first workshop

DELIVERABLE #1

- Each consortia needs to identify an editor for their section(s) of the Technical Proposal and TDRs. **DONE, our editor is *Bob Wilson***
- Complete Table of Contents for the Technical Proposal and TDRs (down to the section level headings) due in December. **To Be Done**



DELIVERABLE #2

- Schedule of activities for 2018 and 2019 with tracking milestones
 - *Management want to have milestones that lay out the process for making key technological decisions*
 - **Due at December 7th Technical Board meeting**
- It will be integrated into a common schedule by the end of the calendar year
- Initiates discussions with DUNE management about locating resources for needed activities

Time scale for technological decisions

- At the time of Technical Proposal, the presentation of ***alternative detector designs is acceptable***
 - In these cases, will need to lay out a plan in the Technical Proposal for how the necessary technological decisions will be made on the time frame of the TDRs
- At the time of the TDRs, a clear baseline design needs to be presented (hopefully there will be convergence on most of the choices by this point)

Consortia Deliverable #3

- Rough drafts of all required interface documents
 - ✓ *At time of Technical Proposal, these should basically provide **a description of the boundaries between detector subsystems***
 - ✓ *By the time of the TDRs, these should advance to contain all of the needed mechanical drawings, cable layouts, etc...*
 - ✓ *A template of the document will be circulated soon to serve as starting point*
- **Due at December 21st Technical Board Meeting**
- We are starting the interaction with APA Consortium and will have a presentation in the next APA meeting (end November probably)
- We already had a presentation at the DAQ Consortium Workshop (Zelimir)
- Should start interaction with Slow Control Consortium

In our next future

- We need to develop an *initial cost estimate* of the PD system for the Far Detector
- It will benefit greatly from the protoDUNE experience → Management is working with protoDUNE construction team to document clearly the production costs of all the subsystems
- Management will work with the new constituted Neutrino Costing Group to define exactly what supporting documentation is needed and the procedures for determining the costs associated with each deliverable – initial iteration will occur between now and end of calendar year
- Submission of preliminary Cost Estimate to NCG is expected 1 month after the submission of TP to LBNC → May 2018
- The Cost Estimate should be accompanied by a *risk registry*, with a *QUALITATIVE* risk assessment and mitigation strategy.

WG meeting coordination

- We usually have 4 WG meetings on a bi-weekly base;
- Let's try to have 2 WG meetings per week to make our life easier;
- Proposal to have **Photon Collector** and **Integration** in one week while **Physics/Simulation** and **Electronics+Photo Sensors** in the other one
- Possible to use the same time slots?

First PD SP Workshop

- In view of the preparation of the TP and to give a substantial boost to the activities of the Consortium we think it would be useful to have or first face to face workshop
- It should happen significantly before the TP delivery dead-line (April 2018) → Not after the end of February
- An easy, but not ideal option is the next General Meeting at CERN at the end of January. Many meetings and many presentations related to the GM would not allow an efficient participation to the activities of the Consortium
- Preferred to have an ad hoc Workshop in February in a place to be decided → Brazil, US, ...? Please make suggestions.