

Detector Team Update

13 September 2021

Detector Team Progress

- ECCE **2nd Simulation Campaign** ramping up.
 - Some geometry conflicts identified over weekend.
 - ~7 M single particle events available.
- Detector Team spreadsheet with assumptions, requirements, and Project R&D tables:
 - <https://docs.google.com/spreadsheets/d/158QleLvQQU9SqiAYfabGe2BSo-czh1Uom4x6n9gTiUw/edit?usp=sharing>

ECCE Cost, Schedule, and Risks

- ECCE Cost & Schedule Team received data from most subsystem DWG co-conveners. A few are still behind and missed last deadline. **All data should be submitted no later than September 17.**
- SharePoint ECCE Cost & Schedule site access arranged for DWG co-conveners to exchange cost and schedule info with Cost & Schedule Team.
- Data are entered into Oracle Primavera P6 project management tool and is ready for initial internal review.
 - Have rolled-up costs and can click/drill-down across each WBS element.
 - Have Gantt charts for schedule and developing Risk Log.
- ECCE management is scheduling drill-down review sessions with each DWG subsystem.

ECCE Cost, Schedule, and Risks

- [Need Definition of Scope \(prose\) from each DWG subsystem](#) (i.e. What is included in the cost, technology choices, number of channels, plan for reuse of components.)
- [Some points to be emphasize during during drill-down reviews are:](#)
- Need to standardize across subsystems how we show equipment and material reuse value as an in-kind contribution and have solid basis for assessing and estimating value of those contributions.
- Need to standardize across subsystems how we capture contributed or in-kind labor. If reuse of components is proposed, what are the assumptions used for in-kind cost estimated? If some labor categories costs are partly in-kind, what principle is used to define in-kind vs. on-project cost?
- Need to standardize and clearly [distinguish between scope collected in WBS ECE06.10.02 Detector R&D](#) (i.e. "project-level R&D") and scope of DWG subsystem-level R&D.
- Need to clearly [distinguish/document Electronics scope included in Electronic WBS \(ECE06.10.08 Electronics and ECE06.10.09 DAQ/Computing\)](#) and that for each DWG subsystem.
- Cost of tooling, pre-installation testing at BNL, and packing and shipping to BNL should be included in the estimate.
- Need to be consistent how we assign the different types of basis of estimate (i.e. historical quote, engineering estimate, ...).

BACKUP