

**Subject:** [Eic-projdet-tic-l] TIC meeting 2/19, 2024 (planning for TDR effort (tracking, calorimetry, el/r-o/DAQ); report from the far detector review) - main outcome

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Dear Colleagues,

this e-mail is to underline the main outcomes of the Feb. 19 TIC meeting and it is also an opportunity to thank all the speaker for preparing their reports.

### PLANNING FOR TDR EFFORT

This being the first meeting where the planning for TDR is discussed, some introductory considerations have been presented underlining, in particular, two aspects:

- the need to identify via open and honest reports the shortcoming in workforce and resources, in view of supporting the needs of the DSCs;
- the effort to design a coherent ePIC detector via a collaborative effort, which requires shared information.

The point of possible duplication of the efforts in reporting to the TIC and to the Project (DPEs and reviews) was raised. Both Project and ePIC managements will take care of avoiding any duplicated effort.

Three reports have been presented:

- tracking, already very reach and addressing almost all the items requested; to be underlined ( in random order):
  - \* the important input coming from the carefully prepared and run workfests at the January ePIC meeting;
  - \* the shortage of workforce to introduce the information from the first imaging layer of the barrel calorimeter in the tracking reconstruction;
  - \* the new format of a joint meeting calling together the 2 tracking DSCs and software/analysis people related to tracking reconstruction effort;
  - \* the request to monitor the progress on quarterly basis instead of monthly;
  - \* the request to monitor the progress on a different, longer time scale instead of every month is regarded as an improvement of the planning process and a longer time scale will be adopted for progress monitoring.

- electronics, read-out and DAQ, a very exhausting report covering all the many sectors included under the guidance of this WG, where only some information about timelines is missing; to be underlined:

- \* the great graphical presentation of the "Electronics & DAQ WG – TDR Plans";
- \* the effort already started for the requirement documents;
- \* the lack of identified developers for some of the specific RDO / FEB;
- \* the need of further and deeper interaction with DSCs about slow controls, which architecture is largely to be defined.

- calorimetry, a very initial report where only LFHCAL has been presented in a condensed format.

#### REPORT FROM THE FAR DETECTOR REVIEW (2/12/2024)

An exhausting report has been provided with focus on the closeout indications.

The majority of the outcomes and comments were positive, underlining the important progress since the previous review, expressing appreciation for synergies among different systems within ePIC,

underlining the quality of the physics and background simulations.

In the following the focus is on aspects identified as issues, that can serve as guidance for the coming work.

- \* it has been underlined that neither fabrication nor assembly plans were presented;
- \* there is the need to refine ES&H and QA considerations as the design is finalized;
- \* the decision about crystals for B0 and for ZDC is urged;
- \* the justification for requirements of the direct photon calorimeter at high luminosity is regarded as not fully convincing;
- \* the delicate installation of detectors inside B0 requires major work development.

If this notes need corrections/integration, please, write me back.

Thank you.

Best greetings, Silvia

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