



# TC-office News

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ePIC General Meeting, May 2<sup>nd</sup>, 2025

## *A note*

- The previous GM was on March 20<sup>th</sup> and, therefore, the previous TC-Office update at GMs was about 1.5 m ago
- Today, highlights since May 2nd

# Addressing needs crosscutting many/all subsystems

- The attention to information of general interest about **mechanics and integration** is continued:
  - Monthly report on integration updates from the Project Engineers at the ePIC General Meeting on April 7<sup>th</sup> , next scheduled on May 5<sup>th</sup>
- Progress in **COOLING matter requires refreshed input**
  - TC office assisted the Project for the revisited survey on cooling needs by DSCs:
    - dedicated session at the ePIC General Meeting on March 31<sup>st</sup>

# Meeting the RHIC/EIC Transition and Ops Preparation Task

- **Task Force established by the BNL ALD** for nuclear and particle physics
- Goals:
  - Providing support for the EIC project and the ePIC experiment
  - Assisting the ALD in securing off-project funding.
  - The assigned charge covers a very wide range of fields implying interactions with various entities as different BNL sectors, the EIC project and the ePIC Collaboration
- In the discussion, the physical space needed by ePIC at BNL during construction and assembly phase has receive major attention.
  - It has been clarified that the collection of this information will continue as in the past, from DSCs to Project CAMs.
- The ePIC Collaboration ready to contribute for items specific to the collaboration.

# Other detector-relevant appointments in the last weeks

- Cherenkov PID PDR : April 1-2, 2025
- 4th BIC In-person Workshop : April 9-11, 2025
- ePIC R&D Day : April 16-17, 2025

# ePIC detector technologies contributing to EPPSU2026

- ***The ePIC detector technology document for the EPPSU2026 has been submitted***
  - *Available in Zenodo:*
  - ***ID # 17***
  - *Thank you to all who contributed with texts and review feedback*

Enabling future detector technology within ePIC at the EIC

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On behalf of **the ePIC Collaboration**

*Input to the European Strategy for Particle Physics - 2026 update*

March 22, 2025

- *One of the several submitted documents related to ePIC*
  - *EIC-LHC synergies (EICUG & ePIC effort), ID # 114*
  - *EIC accelerator (EIC accelerator collaboration)*
  - *DIS Physics*
  - *ePIC endorsing a document related to the relevance of computing in strategic terms*

# On more contribution to EPPSU2026 from TC-Office

- As input to a dedicated document for European Particle Physics Strategy Update (EPPSU), TC-Office collected from DSCs input on **CERN beam time requirements for 2026-2030 + 2030-2040**
- Feedback from 6 DSCs
- Executive summary of ePIC beam time needs :
  - 2026: 31 weeks
  - 2027: 27 weeks
  - 2028/2029: 32 weeks
- Total: 90 weeks (!) → for test beams in the coming years:
  - the actual needs and goals MUST be checked
  - coordination and exploitation of synergies will be a MUST

# preTDR strategy and timelines

- *Based on the initial proposal put forward by TC-Office at the ePIC meeting*
- ***A main responsibility of TC-Office***
- ***Preserving the goal of preTDR completion by the end of 2025***
- *Integrating the suggestions received at the ePIC General Meeting on Feb. 17*
- *Completing the picture in order to include in the global strategy also chapter 2 (agreed upon by ACs)*



# preTDR in 2025 Timeline

- Version 1 (chapter 8) **reviewed** by TC-Office, specific comments and suggestions to DSC's made available on April 25<sup>th</sup>
- Version 1 (chapter 2) comments and suggestions to PWG's by SP-Office
- Version 2 **due by July 11<sup>th</sup>** (Collaboration Meeting)
  - Version 2 internal/external review Aug-Oct.
  - Comments tracked and feedback given to reviewers
- Editorial Board formed by end of July
  - Silvia co-chair, 3-5 additional people
  - Board is responsible for overseeing Version 2 review process
  - Board is responsible for final editing pass (typos, language, consistency)
- **preTDR Version 2.1 by early December 2025**

**Version2 is the last version requested for preTDR !**

# Outcome of the review of preTDR-chapter8 - Version1

- ***The Reviewing process of the preTDR draft Version1 is largely completed***
  - ***e-mail to DSLs on April 25<sup>th</sup>***
- ***Goal of the review: provide indication and guidance for the next (hopefully last) preTDR draft Version2 due by July 11<sup>th</sup>, 2025 (before the Summer ePIC Collaboration meeting)***
- ***Outcome of the review:***
  - ***Global Prescriptions for all DSCs***
    - ***Direct link: [General Prescriptions - Google Drive](#)***
  - ***Specific comments for each DSC in the repository:***
    - ***[pre-TDR TC Comments - Google Drive](#)***
    - ***Please, answer to each point addressed in the review by adding your feedback directly in the files***

# Outcome of the review of preTDR-chapter8 - Version1 cont.

- *At the ePIC General Meeting on May 12<sup>th</sup> more useful information for Version2, particularly about:*
  - *QA and QC*
  - *Common scenarios to be adopted for **Luminosity** figures, **Radiation** doses, **background** assumptions*
- *Also an opportunity for further **Q & A** about Version2*