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| MEBT BPM Pickups Design CDR |
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| Critical Design Review (CDR) 24 May 2016, Lund, Sweden |
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| **Charge for the CDR**  |
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 **Purpose of the CDR**

The purpose of the critical design review is to verify that the design fulfils the requirements, and is well matched to these boundary conditions. Also, the CDR covers documentation, verification, planning, risks and safety issues.

Passing a CDR is a prerequisite for starting production.

**Scope of the CDR**

The main focus of the CDR is the MEBT BPM pickups.

**CDR Committee**

The CDR committee consists of:

* Manfred Wendt, CERN, External reviewer – Chair
* Andreas Jansson, ESS BI review secretary
* Tom Shea, ESS BI
* Edgar Sargsyan, ESS Linac
* Marcelo Ferreira/Fabio Ravelli, ESS Vacuum
* Matthew Conlon, ESS AD QA
* …

**Presenters and Observers**

* Seadat Varnasseri, ESS Bilbao

**Supporting Documents**

The supporting documentation will be provided to the committee about two weeks in advance, on the review Indico page, which also contains the agenda. Documents will include:

* Acceptance measurements of pieces of BPM prototype
* BPM welding acceptance plan
* BPM CDR presentation

Presentations will also be available on Indico site <https://indico.esss.lu.se/event/845/>.

**Committee Charge**

The committee is asked to consider the following questions. Where appropriate, please organize the responses by component/system.

1. Does the design fulfil all requirements and respect all interfaces, and is the design sufficiently mature and the level of documentation appropriate to start manufacturing/procurement?
2. Is the planning appropriate and consistent with the overall ESS plans and milestones?
3. Is the verification strategy appropriate?
4. Have reliability aspects been considered in the design choices?
5. Were any other issues identified during the review?

The results of the review should be summarized in a short report, outlining the answers to the above review questions and whether the review is considered passed, passed with action items, or failed. The report may also provide findings, comments, and recommended actions. Actions should be clearly categorized as one of the following:

* Must be addressed before CDR is considered closed and production starts
* Must be addressed prior to the TRR
* Must be addressed at some time during the project