

MICE Spectrometer Solenoid Review

Review plan and organization

Review committee

Amalia Ballarino (CERN)

Elwyn Baynham (RAL+ITER)

Tom Bradshaw (RAL)

Mike Courthold (RAL)

Pasquale Fabbricatore (INFN) acting as Chair

Vladimir Kashikin (Fermilab)

Bob Sanders (Fermilab)

+ MICE collaboration (Alain Blondel, Alan Bross and Andy Nichols)

Review plan

1) Information and organization – (this meeting today Oct.27th).

Check of the documentation

2) Review work – two weeks, then a meeting restricted to reviewers only (within Nov. 10th to be decided next days). If required, we could make a list of questions to be sent to MICE and to be answered within November 17th.

3) Concluding the review – After iteration with MICE, we should have more than a week for preparing the official II phone conference with MICE to assemble the reports and validate (or not) the repair plan.

Tasks

- 1) **Thermal model results to be compared with experimental data.** This is an important point because up to now the thermal loads at I stage and at 4.2 K were for a large part unclear (**Tom Bradshow, Vladimir Kashikin and Bob Sanders**)
- 2) **Cryocoolers.** We should understand how the connection between I and II stages is working. A doubt last review (one year ago) was "How much problems are coming from heat loads and how much from lack of cooling due to bad connections or mis-functioning of cryocooler?" (**Tom Bradshow and Bob Sanders**)
- 3) **Quench and protection including current lead protection** (**Vladimir Kashikin and Amalia Ballarino**)
- 4) **Analysis of the construction drawings** (**Elwyn Baynhan and Pasquale Fabbricatore**)
- 5) **Analysis of test results** (this is partly overlapping point 1 – **Elwyn Baynham and Pasquale Fabbricatore**)
- 6) **Analysis of certifications and PED document of vessels. Vacuum issues** (**Mike Coulthod**).
- 7) **Instrumentation plan and magnet control system** (**Mike Coulthod**)
- 8) **Analysis of the repair plan** (**All**)