

MICE Spectrometer Solenoid Review Committee

Charge of the solenoid repair plan review

Date: 8th October, 2010

1. To set a date to review and sign off on a complete set of assembly and part drawings of both spectrometer magnets.
2. To set a date to review and sign off on a revised set of thermal balance calculations that are strictly based on the above design.
3. To set a date to review and sign off on a magnet repair and reassembly plan indicating all “stop & inspect” points.
4. To review and comment on the repair project plan, including acceptance criteria at the necessary decision points (before undertaking repairs, before cool-down, before power-up, before release of the magnet) based on measurements on the magnets with the appropriate instrumentation, and comparison with thermal calculations predictions.

To confirm a date of **December 1st, 2010** for acceptance of the repair plan by the Spectrometer Solenoid Review Committee.

5. To agree to a list of project deliverables and delivery dates, a draft of which is set out in the table attached – it is presumed that major delivery dates for these deliverables will be contained in (4).
6. To set the date of the formal repair plan review
7. Quench protection system & lead protection, part of item 4
8. Cool-down scheme – spec. in deliverables, operations manual

PROJECT DELIVERABLES

Repair project plan with resource loading, schedule float and milestone table (see above)

A set of construction drawings (before repair) of both magnets (see above)

A revised set of thermal balance calculations performed based on these drawings (see above)

CofG diagram and lifting/handling instructions

Project resource table

Electrical specification, including circuit diagrams, etc

Dimensioned 2D Interface and envelope drawings, including all services requirements and external fiducial marks or features.

Instrumentation plan

Written specification of the magnet control system

EU declaration of conformity for pressure system and vessel

Technical data file, including test results, material data, performance results and certification for all critical materials and equipment

A set of as-manufactured drawings of both magnets

Magnetic mapping plan of the magnets

Details of shipping to STFC, UK