

QD/QP Commissioning plan Wed 25th to Tues 31st May.

Overview

The MICE Step IV experiment include 3 superconducting solenoids, 2 spectrometer solenoids and 1 focus coil. Following a failure of one of the coils in SSD an upgraded quench detection and protection system has been specified and installed in the MICE hall. This document details the work required to commission the new QD/QP system, planned to take place over the week from 25th to 31st May 2016. During this period the Focus Coils will not be powered.

Work Plan

1. System check out - Wed afternoon S Feher, A Bross.
See MICE_New_QPS_Commissioning_plan-v0.docx section 3 for details.
2. Test QD system triggers QP system.
3. Sign-off interlock approval checklist.
4. Low current PS stability tests.
See MICE_New_QPS_Commissioning_plan-v0.docx section 5 for details.
5. High current Tests
See MICE_New_QPS_Commissioning_plan-v0.docx section 6 for details.

Notes.

MICE DC must approve all test procedures.

MICE DC hours 9am to 6pm daily.

Weekend cover same hours 2 out of 3 days over bank holiday weekend only

Technical Approvals

Magnet Instrumentation- Pierrick Hanlet, IIT

QD system – Sandor Feher FermiLab

QP system – magnet power supplies - S Griffiths DL.

Magnet status for powering – J Boehm.

Risk Assessment

See attached doc.

Sign-Offs

This plan has been read and agreed to by the following

Pierrick Hanlet – Controls and Monitoring Date

Sandor Feher - QD system Date

Stephen Griffiths – QP and power supply system Date

Josef Boehm – Magnet status Date

MICE Duty Co-ordinator Date