

METHOD STATEMENT: Remote Powering of MICE Beamline Conventional Magnets (Q1-Q3, D1&D2, Q4-Q9)

M.S.-Remote-Power-001 rev. 4

11th April 2013

Risk Assessment: RemotePower-001
2 people required.

Magnet supplies shall be switched on and made ready as per current issues of the Magnet Checklist (<http://micewww.pp.rl.ac.uk/documents/13>) and Beamline Magnet Instructions (<http://micewww.pp.rl.ac.uk/documents/23>).

- 1) The polarity settings and cooling water flows to the magnets and power supplies will be checked, filling out the relevant sections of the Magnet Checklist. The MOM shall not release any power supply keys until all said checks are complete.
- 2) Required fencing and signage put in place and vicinity searched.
If the ISIS synch is open, the area around Q1,2,3 and D1 will also need barriers and signs.
- 3) The relevant PPS conditions for D1 and D2 will be checked and satisfied: "MICE Hall BOBs" and Beamstop closed.
- 4) The keys of the magnet power supplies will be obtained from the MOM. The MOM will ensure that a valid ATW has been obtained.
- 5) The required Power Supply Control units will be powered up one-by-one, any internal interlocks cleared and each unit set to remote control.
Only if the remote control is not operational, will the power supply be turned ON and the nominal current set locally.
- 6) The power supplies will be turned ON from the MICE Local Control Room (MLCR). At least one trained operator will be available in the MLCR as long as the magnets are powered.
- 7) No-one will enter the vicinity of the magnets whilst they are powered.
- 8) After completion, power supplies to be locked off, keys returned to MOM, signage removed, etc.