

# METHOD STATEMENT: Attended Running Up of MICE Beamline Conventional Magnets

M.S.-Remote-Power-010 rev. 5

27<sup>th</sup> August 2013

Risk Assessment: RemotePower-010

3 people required.

Communication will be maintained with MLCR by phone/walkie-talkie.

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) MOM to provide radiation survey for vicinity of ISIS magnets (Q123 & D1). Confirm DSA neutron monitor running. Required fencing and signage put in place and vicinity searched.
- 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. During this process no-one will be by the magnets themselves, as they may briefly become energised. Only if the remote control is not operational, will the power supply be turned ON and the nominal current set locally; the operator would then stay by the power supply to operate the emergency stop if necessary.
- 6) The experimenter and observer will then enter the work area; the MLCR operator will ensure that the magnets themselves are not turned ON.
- 7) Any measuring probe will be put and fastened in place on the magnet with the magnet OFF, and the readout unit placed where it can be read from a safe distance.
- 8) The power supply will be turned on from the MLCR. The observer will keep an eye on the experimenter and summon help if needed, and on the Magnet On lamps to warn the experimenter should the magnet be energised accidentally.
- 9) Once the measurements are complete the magnet will be turned OFF, and any probes removed; and move on to next magnet if required.
- 10) After completion, power supplies to be locked off, keys returned to MOM, signage removed, etc.

--