

MICE Muon Beam on-call expert: responsibilities and duties

The MICE Muon Beam on call expert (BLOC='Beam Line On Call' expert) is the point of contact between the MICE Operation Manager (MOM), the MICE Hall Manager, and the MICE shift crew on issues related to the MICE Muon Beam.

The MICE Muon Beam includes the following sub-systems:

- The target;
- The decay solenoid;
- The proton absorber;
- The conventional magnets (Q1—3, D1, D2, Q4—6, and Q7—9); and
- The beam stop.

Responsibilities and duties:

- The BLOC will be familiar with the operating instructions for the various sub-systems and will have been trained in the various procedures;
- Training sessions will be organised as appropriate by the WBS Manager for the MICE Muon Beam (at present K. Long) or the Beam Line coordinator (at present M. Apollonio). It is a requirement that this training be carried out and that the new BLOC is familiar with the operation of each of the beam line components before his or her first BLOC duty;
- The BLOC rota, together with the list of trained BLOCs will be maintained by the MICE Muon Beam and the Beam Line coordinator on the MICO page.

Preparing the beam line for data taking:

- Once the MOM has determined that the conditions are appropriate, the MOM will contact the BLOC and ask that the beam line be set up for data taking;
- The BLOC will carry out the various procedures that are described in the target, decay solenoid, and conventional magnet instructions to prepare the beam line for data taking;
- The BLOC will solve problems as they arise with reference to the relevant sub-system expert as required;
- The BLOC will be at the experiment to carry out these duties.

During data taking:

- The BLOC is on call at the experiment, on site at RAL, or close to the laboratory;
- In response to requests from the MOM or the shift crew, the BLOC will solve problems with the beam-line sub-systems as they arise with reference to the relevant sub-system expert as required.

Making the beam-line safe after data taking:

- Once the MOM has determined that the beam line be shut down after data taking, the MOM will contact the BLOC and ask that the beam line be shut down;
- The BLOC will carry out the various procedures that are described in the target, decay solenoid, and conventional magnet instructions to make the various beam line sub-systems safe;
- The BLOC will be at the experiment to carry out these duties.

When MICE is not running

- The BLOC is on call but need not be at the experiment or in the immediate vicinity of the experiment but must be in the UK.

Communication:

- The BLOC can be contacted via the BLOC phone: +44 7825 713686;