

# STFC QUANTITATIVE RISK ASSESSMENT PRO-FORMA

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|---------------------------------|---|
| Ref: RA-Remote-Power-010 rev. 4 | Description: Power MICE conventional magnets with personnel in attendance |
| Assessment Date: 29 August 2013 | Location/Site: MICE Hall, ISIS synchrotron                                |
| Assessor:                       | Department:   |
| Assessment Team:                | Persons Exposed: Experimenter, Observer, others in vicinity               |
| Activity/Task:                  |   |

Step 1 What are the hazards?     
 Step 2 Who might be harmed and how?     
 What are you already doing?     
 What is the level of risk?     
 Step 3: What further action is necessary?     
 Step 4: How will you put the Assessment into action?

| Hazard/Task or Situation  |  | H<br>Harm  | L<br>Likelihood | R<br>Risk   |      | Action by whom  | By when | Done |
|---|--|--|-----------------|-------------|------|---|---------|------|
| Electrical shock from exposed conductors<br>Q1-3: Max. V @ 200 A – 20 V<br>D1: Max. V @ 440 A – 180 V<br>D2: Max. V @ 200 A – 75 V<br>Q4-9: Max. V @ 400 A – 64 V | Experimenter, Observer, others in vicinity | No interaction with magnets if powered   | High            | Likely      | High | Fence off area, post signs<br>Notify others working in vicinity<br>No lone working –<br>Experimenter accompanied by Observer when magnet running<br>3 <sup>rd</sup> person in phone/walkie-talkie contact by controls |         |      |
| Magnetic fields   | Experimenter, Observer, others in vicinity | No interaction with magnets if powered   | Mod.            | V. Unlikely | Low  |   |         |      |
| Burns/Scalds<br><br>D1 can get up to 55 °C, other magnets stay near ambient   | Experimenter, Observer, others in vicinity | No interaction with magnets if powered   | Sl.             | Likely      | Low  |   |         |      |
| Ionising Radiation<br><br>Activation (and thus increased personal dose) likely in vicinity of MICE target (Q1-D1).  | Experimenter, Observer                     | Obey System of Work and heed local signage (survey results).<br>DSA has local neutron monitor. | High            | Unlikely    | Med. | Confirm radiation survey made since last ISIS run.<br><br>Consult Health Physics if desired.  |         |      |

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Step 5 Review Date:

- § Review your assessment to make sure you are still improving, or at least not sliding back.
- § If there is a significant change in your workplace, remember to check your risk assessment and where necessary, amend it.