

# STFC QUANTITATIVE RISK ASSESSMENT PRO-FORMA

Ref: RA-Remote-Power-001 rev. 3	Description: Remote Powering of MICE conventional magnets
Assessment Date: 2 December 2012	Location/Site: MICE Hall, ISIS synchrotron
Assessor: J.J. Nebrensky	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?  
Step 3: What further action is necessary?  
Step 4: How will you put the Assessment into action?

Hazard/Task or Situation	H Harm	L Likelihood	R Risk	Action by whom	By when	Done			
Electrical shock from exposed conductors Q1-3: Max. V @ 200 A – 20 V D1: Max. V @ 440 A – 180 V D2: Max. V @ 200 A – 75 V Q4-9: Max. V @ 400 A – 64 V	Others in vicinity	Magnet area inaccessible* during operation Warning lamps Operator training	High	V. Unlikely	Med.	*Fence off Q7-9 area; search and secure DSA and ISIS. *If ISIS open, place barriers and signage around Q1-3 and D1. One trained operator in MLCR at all times when magnets live.			
Magnetic fields	Others in vicinity	Magnet area inaccessible during operation External fields below 5 Gauss	Mod.	V. Unlikely	Low				
Burns/Scalds  D1 can get up to 55 °C, other magnets stay near ambient	Others in vicinity	Magnet area inaccessible during operation Limited temperature	Sl.	V. Unlikely	Low				
	Others in vicinity	Crane use forbidden when magnets on							

<b style="color: brown;">Step 5 Review Date:</b>	§ 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.
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