

RISK ASSESSMENT RECORD FORM

Please refer to the accompanying guidance when completing this form

Section 1: Administrative Details

Name of Assessor:

Job Title:

Date of Assessment:

Section 2: Activity/Task

Activity /Task

Provision of an MRI service

Risk:

Fire in the MRI Unit

Area affected:

MRI

Source of Risk (Background):

The MRI scanner contains a powerful magnet, and there would be risk of projectiles and associated injuries if fire fighters were to enter the examination room with ferromagnetic equipment.

In some situations it may be necessary to quench the magnet in order to eliminate the magnetic field so that firefighters can safely enter the scanner room. The wiring to the quench button needs to be fire proof so that quenching is possible even if there is an established fire.

Supporting Evidence:

Published data on MRI safety. MHRA guidelines on safe use of MRI [1].

Factors the risk contains: (if for COSHH include route of exposure, length of exposure time and exposure limits)

Magnetic fields.

Potential Consequence if risk is realised:

- Death or serious injury due to projectiles.

Section 3: Current Control Measures

Fire procedures are in place and on display in each MRI Unit.

Fire fighting equipment provided in the MRI unit is non-ferromagnetic.

Hospital staff with responsibilities for attending in the event of a fire out-of-hours receive MR safety training.

There is clear signage to indicate the location of quench buttons for use if the superconducting magnet has to be deactivated to allow fire fighters to enter the scanner room.

The location of quench buttons is indicated on a plan in the MRI Local Rules.

The fire ratings for wiring systems connected to magnet quench buttons meet the requirements of BS 7671:2008 'Requirements for electrical installations' clause 422.2.1 [2].

Section 4: Risk Rating

Use the consequence, likelihood and risk score tables in the accompanying guidance to identify the scores below.

Consequence Score:

Likelihood Score:

Risk Score:

Initial Risk Grading:

Section 5: Risk Reduction Options

Options	Revised Risk Score	Cost
Provide information/training to Fire Service		

Section 6: Agreed Actions

Actions	Lead	Target Date

Section 7: Risk Grading

	Consequence	Likelihood	Score	Grade
Initial:				
Current (will be the same as initial to begin with):				
Residual:				

Section 8: Review

Risk Owner:

Planned Review Date:

Reference

- [1] D. Grainger, "Safety Guidelines for Magnetic Resonance Imaging Equipment in Clinical Use," Medicines and Healthcare Products Regulatory Agency, Mar. 2015.
- [2] Requirements for Electrical Installations: IET Wiring Regulations 17th Edition (BS 7671:2008).