



*This form is to be used in conjunction with the Environment Health and Safety Manual Procedure 3.2 Hazard Identification, Assessment and Control - Application.*

**Information of Activity**

Activity: Use of Large Centrifuge

Location: CAB, Veterinary Science, Parkville

Identified by: Laboratories

Date: Update 6 September, 2004

Identified Hazard / Aspect: Use and maintenance of Large Centrifuges

**Risk Analysis matrix – level of risk**

Identified Hazards	Risk Assessment			Risk Score E x L x C	Risk Level
	Exposure (E)	Likelihood (L)	Consequence (C)		
Rotors (high & super speed). Heavy, Cold +/- Slippery	3	0.3	5	4.5	M
Spillages (chemical, biological)	2	0.1	10	2	L
Impact if rotor detaches from spindle during spin	3	0.1	20	6	M

Definitions							
Exposure	E	Likelihood	L	Consequence	C	Risk Score	Hierarchy of Risk Controls
Continuously	10	Almost Certain	1.0	Catastrophic	20	<b>E</b> >20 <b>H</b> >10 <b>M</b> 3-10	<b>Elimination</b> is a permanent solution and should be attempted in the first instance. <b>Substitution</b> involves replacing the hazard or environmental aspect by one of lower risk. <b>Engineering</b> controls involve physical barriers or structural changes to the environment or process. <b>Administrative</b> controls reduce hazard by altering procedures and providing instructions. <b>Personal protective equipment</b> last resort or temporary control.
Frequently	6	Likely	0.6	Major	10		
Occasionally	3	Possible	0.3	Moderate	5		
Infrequently	2	Unlikely	0.1	Minor	2	<b>L</b> < 3	
Rarely	1	Rare	0.05	Insignificant	1		

**LEGEND**

E: extreme/significant risk; immediate action required; must be managed by senior management with a detailed plan, notify RMO immediately.

H: high risk, senior management attention needed, detailed research and management planning at senior levels

M: moderate risk, management responsibility must be specified; manage by specific monitoring or response procedures

L: low risk, manage by routine procedures; unlikely to need specific allocation of resources

**Details of Action to be Taken**

Actions: (These should be determined by both the person(s) identifying the risk and the responsible manager and HSR or Environmental Representative). When determining action refer to Hierarchy of Risk Control.

Assistance for those not able to lift/carry heavy rotors.

Personal protection equipment (gloves) provided.

Rotors regularly inspected & serviced by competent persons. Records/logs kept.

All spillages must be cleaned up immediately. Relevant MSDS's provided.

Person assessing the risk: JILL PLEASANCE

Date: 7<sup>th</sup> September 2004

Authorised by: CAB Laboratory Management Committee

Planned completion date: \_\_\_\_\_

**Actions Completed**

Actions by: \_\_\_\_\_ Completed (Initials & date): \_\_\_\_\_