

CRA1 RISK ASSESSMENT RECORD SHEET

Location : MAST Area		RISK ASSESSOR : Scott Allan		RISK ASSESSMENT Ref : 82116				
TASK\ PREMISES TO BE ASSESSED : Calibration of proton detector electronics using an unsealed source		RESPONSIBLE OFFICER : Scott Allan		DATE OF ASSESSMENT : 14 March 2013				
Area \ Activity \ Plant \ Material etc.	Description of Identified Hazards	Persons at Risk	Controls in Place	Severity of Harm	Likelihood of Harm	*Risk category	Further Action Yes - No - Ref.	
Cubicle MD05 and reciprocating probe, MAST Area	Risk of electrocution from electrical equipment.	All users	1) All equipment to be PAT certified before use.	Harmful	Highly unlikely	- Acceptable (ALARP)	X	
Reciprocating probe, Sector 1, MAST Area.	Radiation and contamination from 600 kBq unsealed Americium 241 source (MPR-alpha 1).	All occupants	Follow the time/distance/shielding principle to keep doses ALARP as set out in HPP39-02; i.e: 1) Radioactive source to be stored in lead container when not in use and use shielding material to shield the source whilst in use as far as practicable 2) Radioactive source to be handled using tongs. 3) Source not to be dropped, 4) Operations that can cause contamination are prohibited (source should not be knocked, touched, cut or made wet, etc...) 5) Source only to be handled by trained radiation workers. 6) Source only to be used in a controlled area set up at the reciprocating probe. 7) When first set up, radiation levels in the controlled area are to be checked by Health Physics. 8) Source not to be left unattended when MAST area is open.	Harmful	Unlikely	- Moderate	X	157200

			<p>9) Source to be stored in MAST radiation storage cupboard when not in use.</p> <p>10) If source is dropped while in the storage container then Health Physics should be contacted and a smear taken to assess the level of contamination.</p> <p>11) If the source is dropped while not in its storage container then the MAST area should be evacuated and any personnel suspected of contamination isolated. Contact Health Physics to survey area and personnel suspected of contamination.</p> <p>12) Do not loiter near the source when is it not necessary (e.g. step away whilst equipment is acquiring data).</p> <p>13) Plastic sheet to be placed around area where source is to be used to ensure it fall through floor holes/cracks.</p> <p>14) Use a padded box to transport source.</p> <p>15) A second person with gloves on should hold the storage box while the first person is installing/removing the source.</p>						
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Area \ Activity \ Plant \ Material etc.	Action Ref.	Specialist hazard code	Details Of Additional Controls Required		Revised Risk Category or ALARP	Risk Assessment Specialist/SAP Name	Date
Reciprocating probe, Sector 1, MAST Area.	157200	RPA	With controls in place risk is considered ALARP		ALARP	Etienne Letellier	14 February 2013
APPOINTED RISK ASSESSOR		DATE	REVIEW DATE	SIGNED OFF			Date
				DRAFT			