

NATIONAL UNIVERSITY OF SINGAPORE

Doc no: CIBA/RA/Exp/008		Experiment-Based Risk Assessment Form			
Name of Department	Physics	Location of Lab	S7 #01-01		
Name of Laboratory	CIBA	Name of PI	Prof Frank Watt		
Name of Researcher/LO	Dr Ren Mingjin	Name of Activity/Experiment	Nuclear Microscopy Experiment		

No	Description/Details of Steps in Activity	Hazards	Possible Accident / Ill Health & Persons-at-Risk	Existing Risk Control (Mitigation)	Severity	Likelihood (Probability)	Risk Level	Additional Risk Control	Person Responsible	By (Date)
1	Load samples into vacuum chamber	Heavy object (target chamber top)	Can cause muscular injury	Other Stronger Staff to handle well	1	1	1			
2	Topping up liquid nitrogen to detector's tank	Cold burns from liquid nitrogen	Burn related health hazard	Always filled by trained personnel. Wear proper protective gloves	1	1	1			
3	Adjusting beam parameters manually by going close to the beam lines	Radiation hazard	Over-exposure to radiation at certain locations on the beam line if not maintained well, Lead shields installed at certain points to further reduce radiation	Areas of high radiation risk identified and maintained at safe levels by conducting periodic checks	2	1	2			
4							0			
5							0			
6							0			
7							0			
8							0			
9							0			
10							0			

Conducted By Dr Ren Mingjin

Approved By

Name Prof Frank Watt

Signature _____

Approval date 12/4/2010

Next Revision date 12/4/2013
(Maximum 3 years)