

NSLS OHSAS Job Risk Assessment

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Name(s) of Risk Team Members: M. Buckley, B. Chmiel, A. Lanzirotti, C. Nelson	Point Value → Parameter ↓	1	2	3	4	5
Job Title: Using a Beamline	Frequency (B)	≤once/year	≤once/month	≤once/week	≤once/shift	>once/shift
Job Number or Job Identifier: LS-JRA-0029						
Job Description: Using a VUV or X-ray beamline at the NSLS including routine tasks.	Severity (C)	First Aid Only	Medical Treatment	Lost Time	Partial Disability	Death or Permanent Disability
	Likelihood (D)	Extremely Unlikely <<1x/20yrs	Unlikely 1x/10-20yrs	Possible >1x/10-20yrs	Probable 1x/yr	Multiple >1x/yr
Training and Procedure List (Optional):						
Approved by: A. Ackerman Date: 7/13/08 Rev. # 2 Revision Log						
Stressors (if applicable, please list all):		Reason for Revision (if applicable):			Comments:	

Job Step / Task	Hazard	Before Controls						Initial Controls	After Initial Controls					Control(s) Added to Reduce Risk	After Additional Controls					
		Stressors Y/N	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD		# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD		# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	% Risk Reduction
Open shutter to allow beam into hutch or on to sample.	Radiation exposure	N	1	4	5	4	80	Shielding, certified interlocks, experimental review, radiation surveys, training	1	4	1	2	8							
Work with routine chemicals to clean and mount sample.	See "Routine Chemical Use" JRA. LS-JRA-0021																			

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		Stressors Y/N	# of People A	Frequency B	Severity C	Likelihood D		Risk* AxBxCxD	# of People A	Frequency B	Severity C	Likelihood D		Risk* AxBxCxD	# of People A	Frequency B	Severity C	Likelihood D
Mount or install sample into end-station.	See "Working With Hand Held Tools" JRA. LS-JRA-0014																	
Collect data using computers	See "General Office Work" JRA. LS-JRA-0040																	
Work with cryogens	See "Working With Cryogens" JRA. LS-JRA-0010																	
Work with compressed gases	See "Working with Compressed Gases" JRA. LS-JRA-0009 or "General Flammable Gas Work" JRA. LS-JRA-0011																	
Generation of hazardous and industrial waste	See "Generation of Hazardous and Industrial Waste" JRA. LS-JRA-0026																	
Elevated Work	See "Elevated Work" JRA. LS-JRA-0035																	
Portable Ladder Use	See "Use of Portable Ladder" JRA. LS-JRA-0036																	
Work with vacuum systems	See "Work with Vacuum Systems" JRA. LS-JRA-0008																	
Troubleshooting/testing equipment	See "Electrical Equipment (Zero Energy State) Work" JRA. LS-JRA-0002																	

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		Stressors Y/N	# of People A	Frequency B	Severity C	Likelihood D		Risk* AxBxCxD	# of People A	Frequency B	Severity C	Likelihood D		Risk* AxBxCxD	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	% Risk Reduction	
Cutting/handling/installing lead for background remediation inside hutch	See "Lead Handling" JRA. LS-JRA-0025																				
Moving and installing experimental equipment	See "Material Handling (Manual Lifting)" JRA. LS-JRA-0018																				
Walking between the control station and the hutch (and generally around the experimental floor)	See "Walking" JRA. LS-JRA-0038																				
Further Description of Controls Added to Reduce Risk:																					
*Risk:	0 to 20 Negligible	21 to 40 Acceptable					41 to 60 Moderate					61 to 80 Substantial					81 or greater Intolerable				

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Document Review Frequency	
3	Years

Review signatures on file with master copy of controlled document

LIGHT SOURCES DIRECTORATE REVISION LOG		
Document Number:	LS-JRA-0029	
Subject	Using a Beamline	
Rev	Description	Date
1	Initial Document.	8/19/2005
2	Added tasks “Troubleshooting/testing equipment”, “Cutting/handling/installing lead for background remediation inside hutch”, “Moving and installing experimental equipment”, and “Walking between the control station and the hutch (and generally around the experimental floor)”.	7/13/2008