

NSLS OHSAS Job Risk Assessment

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Name(s) of Risk Team Members: D. Abel, J. Aloï, S. Cheung, R. Hubbard, B. Karlin, A. Mingino, G. Nintzel, M. Sullivan	Point Value → Parameter ↓	1	2	3	4	5
Job Title: Lead Handling	Frequency (B)	≤once/year	≤once/month	≤once/week	≤once/shift	>once/shift
Job Number or Job Identifier: LS-JRA-0025						
Job Description: Lead Handling for radiation shielding installation and modification.	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): Lead Awareness, Hazardous Waste, Laboratory Standard, EMS Read & Sign, PRM & SA Lead						
Approved by: A. Ackerman Date: 9/12/08 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
Lead handling including shaping, pounding,	Inhalation of lead dust	N	1	2	2	5	20	Work planning/experimental review, PPE, area posting, applicable subject areas, area and/or personnel monitoring, training, time limits, NSLS PRM	1	2	2	2	6							

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Manual cutting, stacking and un-stacking (including decommissioning a beamline)	Exposure to lead dust and fumes by inhalation	N	1	2	2	5	20	Time limits, machine speed limits, PPE, PRM, work planning/experimental review, area posting, applicable subject areas, area and/or personnel monitoring, training, NSLS PRM	1	2	2	3	12						
	Ingestion of lead due to poor hygiene	N	1	2	2	5	20	Work planning/experimental review, PPE, area posting, applicable subject areas, training, hand washing, NSLS PRM	1	2	2	2	6						
	Struck by and crush hazard	N	1	2	4	3	24	work planning/experimental review, PPE, applicable subject areas, training	1	2	3	3	18						
	Hand tool use							See LS JRA-0014											
Machining Lead	Exposure to lead dust and fumes by inhalation	N	1	2	2	5	20	Time limits, machine speed limits, PPE, PRM, work planning/experimental review, area posting, applicable subject areas, area and/or personnel monitoring, training, NSLS PRM	1	2	2	2	6						
	Ingestion of lead due to poor hygiene	N	1	2	2	5	20	work planning/experimental review, PPE, area posting, applicable subject areas, training, hand washing, NSLS PRM	1	2	2	2	6						

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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
	Struck by and crush hazard	N	1	2	4	3	24	work planning/experimental review, PPE, applicable subject areas, training	1	2	3	3	18						
	Machine Shop Use							See LS JRA-0017											
Cleaning oxidized lead	Inhalation of lead dust	N	1	2	2	5	20	work planning/experimental review, PPE, area posting, applicable subject areas, area and/or personnel monitoring, training, time limits, NSLS PRM	1	2	2	2	6						
	Ingestion of lead due to poor hygiene	N	1	2	2	5	20	work planning/experimental review, PPE, area posting, applicable subject areas, training, hand washing, NSLS PRM	1	2	2	2	6						
	Struck by and crush hazard	N	1	2	4	3	24	work planning/experimental review, PPE, applicable subject areas, training	1	2	3	3	18						
	Chemical use							See LS JRA-0020											
Material handling - manual	see LS JRA-0018																		
Material handling - mechanical	see LS JRA-0019																		
Hazardous waste generation	see LS JRA-0026																		
*Risk:	0 to 20 Negligible	21 to 40 Acceptable						41-60 Moderate			61 to 80 Substantial			81 or greater Intolerable					