

NSLS OHSAS Job Risk Assessment

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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
	Electrical Shock		1	3	3	5	45	Proper grounding, (proper equipment design, approval, & installation), proper lighting	1	3	3	1	9						
	Arc Flash		1	3	5	5	75	Training, proper grounding, (proper equipment design, approval, & installation), NFPA 70E compliant PPE, standards & procedures, proper lighting	1	3	4	1	12						
Electrical LOTO: Meter voltage check on energized conductor	Electrocution		1	3	5	5	75	Training, proper grounding, NFPA 70E compliant PPE, (proper equipment design, approval, & installation), standards & procedures, proper CAT meter, electrical work permit, proper lighting, engineered solutions for voltage verifications	1	3	5	1	15						

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	Electrical Shock		1	3	3	5	45	Training, proper grounding, NFPA 70E compliant PPE, (proper equipment design, approval, & installation), standards & procedures, proper CAT meter, electrical work permit, proper lighting, engineered solutions for voltage verifications	1	3	3	1	9						
	Arc Flash		1	3	5	5	75	Training, proper grounding, (proper equipment design, approval, & installation), NFPA 70E compliant PPE, standards & procedures, proper CAT meter, electrical work permit, proper lighting	1	3	3	2	18						

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Electrical LOTO: Zero energy verification (if wrong isolating device was opened)	Electrocution		1	3	5	5	75	Training, proper grounding, NFPA 70E compliant PPE, proper equipment design & installation, standards & procedures, proper CAT meter, electrical work permit, proper lighting	1	3	5	1	15						
	Electrical Shock		1	3	3	5	45	Training, proper grounding, NFPA 70E compliant PPE, (proper equipment design, approval, & installation), standards & procedures, proper CAT meter, electrical work permit, proper lighting	1	3	3	1	9						

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	Arc Flash		1	3	5	5	75	Training, proper grounding, (proper equipment design, approval, & installation), NFPA 70E compliant PPE, standards & procedures, proper CAT meter, electrical work permit, proper lighting	1	3	3	1	9						
Radiation Generating Device LOTO	Radiation exposure							Training, procedures, PPE, labels, work planning See LS-JRA-0024 for radiation exposure ranking numbers, proper lighting, (proper equipment design, approval, & installation)											

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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
May apply to any type of LOTO: (electrical, mechanical, pneumatic, hydraulic, radiation, etc.)	Struck by, crush hazard		1	3	3	5	45	Training, procedures, PPE, labels, work planning, (proper equipment design, approval, & installation)	1	3	3	1	9							
	Reflex Injury		1	3	5	5	75	Training, standards & procedures, Good Housekeeping, Tier I	1	3	5	1	15							
	Hand tool use							See LS-JRA-0014												
	Hand held power tool use							See LS-JRA-0013												
	Elevated Work							See LS-JRA-0035												
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

NLSL REVISION LOG	
Document Number:	LS-JRA-0005
Subject:	Performing LOTO

> See NLSL Quality Control Coordinator for original revision and review signatures <

REVISION TABLE		
Rev	Description	Date
1	Original Document	08/29/05
2	This document was reviewed by several workers besides the group who reviewed the initial document. We replaced all references to range B electrical work with the following range $\geq 50v$ and ≤ 240 volts. Changes were made to reflect the recent staff reorganization title changes.	06/20/2007