

## NSLS OHSAS Job Risk Assessment

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<b>Name(s) of Risk Team Members:</b> J. Aloï, A. Boerner, G. Ramirez, A. Santiago, J. Vaughn	<b>Point Value → Parameter ↓</b>	1	2	3	4	5
<b>Job Title:</b> <b>Work On Electrical Equipment in Zero Energy State</b>  <b>Job Number or Job Identifier:</b> <b>LS-JRA-0002</b>	<b>Frequency (B)</b>	≤once/year	≤once/month	≤once/week	≤once/shift	>once/shift
<b>Job Description:</b> Perform maintenance, servicing, or repair of de-energized electrical equipment.	<b>Severity (C)</b>	First Aid Only	Medical Treatment	Lost Time	Partial Disability	Death or Permanent Disability
Training and Procedure List (Optional):	<b>Likelihood (D)</b>	Extremely Unlikely <<1x/20yrs	Unlikely 1x/10-20yrs	Possible >1x/10-20yrs	Probable 1x/yr	Multiple >1x/yr
Approved by: <b>A. Ackerman</b> Date: <b>6/20/2007</b> Rev. #: 2 <a href="#">Revision Log</a>	<b>Stressors (if applicable, please list all):</b>			<b>Reason for Revision (if applicable):</b>		<b>Comments:</b>

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
Verify equipment is de-energized	Electrocution, electrical shock, arc flash, reflex injury	-	-	-	-	-	-	See LS-JRA-0005 Lockout-Tagout	-	-	-	-	-						
Assembly, disassembly, and cleaning of components or	Cuts or scrapes	N	1	4	2	3	24	Proper tools in good condition, gloves	1	4	1	2	8						
	Striking hand or arm against a surface	N	1	4	2	3	24	Proper tools in good condition, gloves	1	4	1	2	8						

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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
equipment	Strain injuries	N	1	4	3	3	36	Proper tools in good condition, proper body position	1	4	2	2	16							
	Struck by an object	N	1	4	2	3	24	Use of PPE (hard hat, safety shoes, safety glasses)	1	4	2	2	16							
	Improper lighting: Intense visual acuity needed	N	1	4	1	3	12	Good lighting, frequent breaks, use of magnifying equipment	1	4	1	2	8							
	Working in cramped locations	N	1	2	3	4	24	Move cautiously	1	2	3	4	24							
Soldering electrical components	Contact with temperature extremes (burns)	N	1	3	2	3	18	Safety glasses, equipment design and condition.	1	3	2	2	12							
	Exposure to toxic gases and fumes	N	1	3	1	4	12	Type of solder used (e.g. lead free), limit amount of solder to quantities necessary for proper solder joints.	1	3	1	3	9							
	Fire	N	1	3	3	2	18	Properly designed soldering tool storage stands, Building fire detection and protection systems.	1	3	3	1	9							
Cleaning components and equipment using chemicals	Chemical exposure	-	-	-	-	-	-	See <b>LS-JRA-0021</b> Routine Chemical Use	-	-	-	-	-							
Testing of electronic assembly's	Electrocution, electrical shock, arc flash, reflex injury	-	-	-	-	-	-	See <b>LS-JRA-0003</b> ; Troubleshooting energized electrical	-	-	-	-	-							

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								equipment in following range >= 50 v and <=240 v.														
Using portable ladder for access to equipment	Falls	-	-	-	-	-	-	See <b>LS-JRA-0036</b> Use of Portable Ladder	-	-	-	-	-									
Elevated work 4 feet or more above a lower level	Falls	-	-	-	-	-	-	See <b>LS-JRA-0035</b> Elevated Work	-	-	-	-	-									
<b>Further Description of Controls Added to Reduce Risk:</b>																						
<b>*Risk:</b>	<b>0 to 20 Negligible</b>	<b>21 to 40 Acceptable</b>						<b>41 to 60 Moderate</b>					<b>61 to 80 Substantial</b>					<b>81 or greater Intolerable</b>				