

NSLS OHSAS Job Risk Assessment

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Name(s) of Risk Team Members: J. Aloï, A. Boerner, B. Chmiel, G. Ramirez, A. Santiago, T. Seda, C. Sorrentino	Point Value → Parameter ↓	1	2	3	4	5
Job Title: Electrical & Electronic shop Work	Frequency (B)	≤once/year	≤once/month	≤once/week	≤once/shift	>once/shift
Job Number or Job Identifier: LS-JRA-0001						
Job Description: Assembly of circuit boards, enclosures, mounting hardware, use of hand tools, powered hand tools & bench tools, soldering, wire wrapping, use of circuit board cleaning agents, testing equipment.	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: 2/7/2009 Rev. # 3 Revision Log						
Stressors (if applicable, please list all): N/A		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
Wire wrapping of circuit board components	Repetitive motion injury, lacerations, punctures, abrasions	N	1	2	2	3	12	See LS-JRA-0014 ; hand tool use, IH support, Tier 1, adequate task lighting, job rotation, rest breaks	1	2	2	1	4							

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Cleaning of circuit boards and components	Chemical exposure (multiple routes of entry)	N	1	4	2	3	24	See LS-JRA-0021 ; routine chemical use. CMS, proper PPE in accordance with SBMS, work planning, use of less hazardous chemicals	1	4	2	2	16						
Assembly of electronic enclosures, components & circuit boards	Lacerations, abrasions, strains, sprains, contusions	N	1	4	2	3	24	See LS-JRA-0014 ; hand tool use, Tier 1, adequate task lighting, proper PPE in accordance with SBMS	1	4	2	2	16						
Soldering of components and circuit boards	Burns	N	1	4	2	3	24	Proper PPE in accordance with SBMS, proper equipment, adequate illumination for the task, good housekeeping practices, Tier 1	1	4	2	2	16						
	Exposure to fumes	N	1	4	1	3	12	Proper PPE in accordance with SBMS, local exhaust provided, use of lead-free solder	1	4	1	2	8						
	Fire	N	1	3	3	2	18	Fire detection & suppression systems, proper equipment, Tier 1, good housekeeping	1	3	3	1	9						

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								practices, minimize fire loading											
Use of non-powered hand tools	Lacerations, abrasions, contusions, strains, struck by flying objects	-	-	-	-	-	-	See LS-JRA-0014 ; hand tool use	-	-	-	-	-						
Use of powered hand tools	Lacerations, abrasions, contusions, struck by flying objects, strains, slips, falls, burns, electrical shock, electrocution	-	-	-	-	-	-	See LS-JRA-0013 ; hand-held power tool use	-	-	-	-	-						
Testing of electronic assembly's	Electrocution, electrical shock, arc flash, reflex injury	-	-	-	-	-	-	See LS-JRA-0003 ; Troubleshooting energized electrical equipment in following range ≥ 50 v and ≤ 240 v.	-	-	-	-	-						
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	