NSLS OHSAS Job Risk Assessment

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Name(s) of Risk Team Members: J. Aloi, A. Boerner, G. Ramirez, A. Santiago, J. Vaughn	**Point Value → Parameter ↓**	**1**	**2**	**3**	**4**	**5**
Job Title: **Electrical & Electronic shop Work** **Job Number or Job Identifier:** **LS-JRA-0001**	**Frequency (B)**	**≤once/year**	**≤once/month**	**≤once/week**	**≤once/shift**	**>once/shift**
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**
Training and Procedure List (Optional):	**Likelihood (D)**	**Extremely Unlikely** <<1x/20yrs	**Unlikely** 1x/10-20yrs	**Possible** >1x/10-20yrs	**Probable** 1x/yr	**Multiple** >1x/yr
Approved by: **A. Ackerman** Date: **6/20/2007** Rev. # **2** **Revision Log**						
Stressors (if applicable, please list all): N/A		**Reason for Revision (if applicable):**			**Comments:**	

		Before Controls							**After Initial Controls**						**After Additional Controls**					
Job Step / Task	**Hazard**	**Stressors Y/N**	**# of People A**	**Frequency B**	**Severity C**	**Likelihood D**	**Risk* AxBxCxD**	**Initial Controls**	**# of People A**	**Frequency B**	**Severity C**	**Likelihood D**	**Risk* AxBxCxD**	**Control(s) Added to Reduce Risk**	**# 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, 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	1	4	2	2	16							
Soldering of components and circuit boards	Burns	N	1	4	2	3	24	Proper PPE, 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, 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 practices, minimize fire loading	1	3	3	1	9							
Use of non-powered hand tools	Lacerations, abrasions, contusions, strains, struck by flying objects	-	-	-	-	-	-	See **LS-JRA-0014**; hand tool use	-	-	-	-	-							

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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**