

Name(s) of Risk Team Members: P. Ribaudo, K. Krasner, D. Oldham	Point Value → Parameter ↓	1	2	3	4	5
Job Title: Electrical and Electronic Shop Work. Work at <600Volts	Frequency (B)	≤once/year	≤once/month	≤once/week	≤once/shift	>once/shift
Job Number or Job Identifier JRA-04-08						
Job Description: Assembly of circuit boards, enclosures, mounting hardware, use of hand tools, powered hand tools and 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	Unlikely	Possible	Probable	Multiple
Training and Procedure List (Optional):						
Approved by: E. Lessard Rev. #: 0	Date: 3-26-08					
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
Wire wrapping of circuit board components	Repetitive motion, injury, lacerations, punctures, abrasions	N	1	2	2	3	12	Training in hand tool operation, IH monitoring, tier I inspections, adequate lighting	1	2	2	1	4						
Cleaning of circuit boards and components	Chemical exposure	N	1	4	2	3	24	Working with chemicals Subject Area, training, PPE work planning	1	4	2	2	16						
Assembly of electronic enclosures,	Lacerations, abrasions, strains, sprains, contusions	N	1	4	2	3	24	Training, adequate lighting, proper PPE	1	4	2	2	16						

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
components, and circuit boards																			
Soldering of components and circuit boards	Burns	N	1	4	2	3	24	PPE, training, adequate lighting, housekeeping	1	4	2	2	16						
	Exposure to fumes	M	1	4	1	3	12	PPE, local exhaust ventilation, lead-free solder	1	4	1	2	8						
	Fire	N	1	3	3	2	18	Fire detections systems, housekeeping, fire loading minimized	1	3	3	1	9						
Use of non-powered hand tools	Lacerations, abrasions, contusions, strains, struck by flying objects	N	1	4	2	3	24	PPE, training, housekeeping, job planning	1	4	1	3	12						
Use of powered hand tools	Lacerations, abrasions, struck by flying objects, slips, falls, electrical shock	N	1	4	3	3	36	PPE, training, lighting, housekeeping, procedures, job planning	1	4	2	2	16						
Testing of electronic assemblies	Electrical shock, electrocution, arc flash	N	2	4	3	2	48	PPE, training, adequate lighting, job planning	2	4	1	2	16						
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	