NC Job Risk Assessment

Name(s) of Risk Team Members: L. Davis, D. Elling, S. Hoey, W. Litzke, A. Piper	Point Value → Parameter ↓	1	2	3	4	5
Job Title:						
Clean Room Operations	Frequency (B)	<once td="" year<=""><td><pre><once month<="" pre=""></once></pre></td><td><pre><pre><pre><pre></pre></pre></pre></pre></td><td><once shift<="" td=""><td>>once/shift</td></once></td></once>	<pre><once month<="" pre=""></once></pre>	<pre><pre><pre><pre></pre></pre></pre></pre>	<once shift<="" td=""><td>>once/shift</td></once>	>once/shift
Job Number or Job Identifier: NC-JRA-017						
Job Description:						
	Severity (C)	First Aid Only	Medical Treatment	Lost Time	Partial Disability	Death or Permanent Disability
Training Procedures List (Optional):						
Approved by: S. Hoey	Likelihood (D)	Very Unlikely	Unlikely	Possible	Probable	Multiple
Date: 1/10/08 Rev. #: 0		December for D	andalan (if anni)	- h l - \ .	0	
Stressors (if applicable, please list all) (1) Environmental; (2)Temperature; (3) Time restraints		Reason for R	tevision (if applic	cable):	Comments:	

			Before Additional Controls						1							
Activity	Hazard	Control(s)	Stressor	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	Control(s) Added to Reduce Risk	Stressors	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	% Risk Reduction
1. FLOOR WASHING	SLIPS AND FALLS - WET FLOORS ARE EVEN MORE SLIPPERY WITH BOOTIES ON - MAY "BUMP" INTO EQUIPMENT CAUSING EXPOSURE TO ELECTRICAL CURRENT, TUBING DISLODGEMENT,	TEST DIFFERENT TYPES OF BOOTIES ON WET FLOOR SURFACES, DEDICATE AN APPROPRIATE SUPPLY FOR FLOOR MAINTENANCE – TRAINING OF PERSONNEL, cleaning procedure	N	1	3	3	3	27								

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				Before Additional Controls				After Additional Controls									
	Activity	Hazard	Control(s)	Stressor	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	Control(s) Added to Reduce Risk	Stressors	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	% Risk Reduction
		EQUIPMENT SHUT-DOWN															
2.	ROUTINE HORIZONTAL SURFACE WIPING	MAY CONTACT AND SPILL HAZARDOUS MATERIAL	KEEP TO A MINIMUM THE AMOUNT OF BEAKERS, BOTTLES, SAMPLES ETC. LEFT OUT ON BENCHES AND IN HOODS - TRAINING OF PERSONNEL	N	1	3	3	3	27								
3.	GENERAL CLEAN ROOM WORK	A CLEAN ROOM IS, BY DESIGN, AN ISOLATED ENVIRONMENT.AN INDIVIDUAL THAT HAS SUSTAINED AN INJURY MAY BE UNNOTICED BY THE LAB-AT- LARGE – BECAUSE OF THE HEPA FILTERS, THE CEILING IS VERY FLAMMABLE	INDIVIDUALS ARE NOT PERMITTED TO WORK ALONE, EXCEPT DURING NORMAL BUSINESS HOURS – DO NOT ALLOW OPEN FLAMES – TRAIN PERSONNEL ON CORRECT AND IMMEDIATE RESPONSE TO A FIRE IN THE CLEAN ROOM, fire extinguisher/sprinklers.	N	1	2	5	2	20								
4.	WORKING WITH HF	SPILLS / FUMES	Specific SOP, Training, PPE, Spill kit	N	1	2	5	2	20								
5.	UV EXPOSURE FROM NANO IMPRINTER	EYE AND SKIN EXPOSURE TO OPERATOR AND OTHERS IN ROOM	Signage, PPE	N	1	2	2	3	12								
6.	IGNITION OF PYROPHORIC GASES TO PECVD	Flammable gas leak ignites	Refer to JTA NC-015 Pyrophoric/Toxic Gas Exhange. Auto shutdown on flow.	N	1	2	5	1	10								
7.	ASPHYXIATION FROM GASES/FUMES	asphyxiation	ODH CALCULATIONS, MONITORS	N	1	2	4	2	16								
8.	SPINNING OF RESISTS	EXPOSURE TO TOXIC/CARCIONO GENIC/REPRODU CTIVE TOXIN FUMES FROM RESISTS	RESIST WORK IN HOODS, Refer to Chemical JRA-003	N	1	2	3	3	18								

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9.	FILLING OF CRYOGENIC TRAPS	CRYOGENIC BURNS FROM N2	TRAINING ON FILL PROCEDURES, PROPER PPE, Refer to JTA -005 Cryogenic work.	N	1	3	2	3	18								
10.	WORKING WITH OR NEAR VACUUM SYSTEMS	VACUUM CHAMBER IMPLOSION	PROPER SELECTION OF MATERIALS, SHIELDING, commercial equipment, Refer to JRA- 018 vacuum systems, Inspection of equipment	N	1	3	2	2	12								
11.	WEARING OF GLOVES	CONTACT DERMATITIS OR ANAPHYLITIC SHOCK FROM EXPOSURE TO LATEX IN GLOVES	TRAIN PERSONNEL TO INDENTIFY REACTIONS – PROVIDE SUBSTITUE GLOVES	N	1	2	1	2	4								
12.	WEARING FLAMMABLE MATERIALS (IE TYVEK, NEAR ELECTRICAL CONDUCTORS)	Ingintion of tyvek due to arc flash.	Proper selection of PPE, work permit.	N	1	2	4	2	16								

	*Risk:	0 to 20	21 to 40	41-60	61 to 80	81 or greater
Ī		Negligible	Acceptable	Moderate	Substantial	Intolerable