

## NC Facility Risk Assessment

<b>Name(s) of Risk Team Members:</b> L. Davis, D. Elling, S. Hoey, W. Litzke, A. Piper	<b>Point Value Parameter</b> → ↓	1	2	3	4	5
<b>Job Title:</b> <b><i>Hazards in Mechanical/Service Areas</i></b>	<b>Frequency (B)</b>	≤once/year	≤once/month	≤once/week	≤once/shift	>once/shift
<b>Job Number or Job Identifier:</b> NC-FRA-004						
<b>Job Description:</b> Hazards in the Mechanical/Service Areas of the CFN. These areas include: ME rooms, service chases (including the clean room service chase).	<b>Severity (C)</b>	First Aid Only	Medical Treatment	Lost Time	Partial Disability	Death or Permanent Disability
Training Procedures List (Optional):	<b>Likelihood (D)</b>	Very Unlikely	Unlikely	Possible	Probable	Multiple
Approved by: S. Hoey Date: 1/25/2008 Rev. #: 0						
<b>Stressors (if applicable, please list all)</b>		<b>Reason for Revision (if applicable):</b>			<b>Comments:</b>	

Activity	Hazard	Control(s)	Before Additional Controls					Control(s) Added to Reduce Risk	After Additional Controls					% Risk Reduction		
			Stressor	# of People A	Frequency B	Severity C	Likelihood D		Risk* AxBxCxD	Stressors	# of People A	Frequency B	Severity C		Likelihood D	Risk* AxBxCxD
Electrical Utilities	Shock or Electrocutation	Restricted access through card readers or key control, work planning and controls, scheduled maintenance, listed and approved equipment, training, Tier 1 inspections,	N	1	5	3	2	30								
	Electrical Arcing, burns	Restricted access through card readers or key control, work planning and controls, scheduled maintenance, training, approved equipment and enclosures,	N	1	5	2	2	20								

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Energized Steam	Burns	Restricted access through card readers or key control, work planning and controls, training, scheduled maintenance, proper system design review, tier 1 inspections	N	1	3	3	3	27							
Rotating equipment	Pinch or crushing hazard	Restricted access through card readers or key control, work planning and controls, training, scheduled maintenance, guarding, signs and postings, Tier 1 inspections, proper equipment design	N	1	4	2	3	24							
Walking/Working	Slips / Falls from same level	See NC-FRA-001	-	-	-	-	-	-							
Noise	Potential hearing loss from overexposure	All areas are routinely surveyed and posted if required. Currently there are no posted noise areas in these areas	-	-	-	-	-	-							
Compressed gases flammable & non-flammable	Struck by object due to pressure release	Restricted access through card readers or key control, equipment design review, cylinders secured, Tier 1 inspections, cylinder status tags, required hydrostatic testing, training, work planning and controls	N	1	5	2	2	20							
	Explosion or fire due to cylinder failure/leak	Restricted access through card readers or key control, equipment design review, cylinders secured, Tier 1 inspections, Cylinder status tags, required hydrostatic testing, flammable gas detectors with emergency backup power, fail safe design, postings, training, work planning and controls	N	1	5	2	2	20							
Compressed gases - toxic	Poisoning or lung damage due to inhalation of toxic	Restricted access through card readers or key control, equipment design review, cylinders secured, Tier 1	N	1	4	3	2	24							

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	gases	inspections, Cylinder status tags, required hydrostatic testing, toxic gas detectors with emergency backup power, fail safe design, postings													
Flammable liquids in storage	Fire or explosion	Restricted access through card readers or key control approved flammable liquid cabinets, Tier 1 inspections, inventory control	N	1	5	3	2	30							
Acids in storage	Exposure through contact or inhalation	Restricted access through card readers or key control approved acid storage cabinets, Tier 1, inventory control	N	1	5	2	2	20							
Cryogenic liquids	Oxygen Deficiency Hazard	Restricted access through card readers or key control approved construction of Dewar's/ transfer lines, Tier 1, ODH analysis, postings, training, restricted access	N	1	5	3	2	30							

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