

NC Job Risk Assessment

Name(s) of Risk Team Members: L. Davis, D. Elling, R. Sabatini	Point Value Parameter → ↓	1	2	3	4	5
Job Title: <i>Changing out Pyrophoric, Flammable or Toxic Gasses</i>	Frequency (B)	≤once/year	≤once/month	≤once/week	≤once/shift	>once/shift
Job Number or Job Identifier: NC-JRA-014 Job Description:	Severity (C)	First Aid Only	Medical Treatment	Lost Time	Partial Disability	Death or Permanent Disability
Training Procedures List (Optional):	Likelihood (D)	Very Unlikely	Unlikely	Possible	Probable	Multiple
Approved by: R. Sabatini Date: 5/16/2011 Rev. #:1						
Stressors (if applicable, please list all)		Reason for Revision (if applicable):			Comments:	

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
1. Transporting gas cylinder from storage area to gas cabinet	Dropping cylinder, leak of pyrophoric, flammable or toxic gas, fire, burns, toxic exposure, ice/snow, mislabeled cylinder	Gas handling SOP, buddy system, posting in area, compressed gas training, PPE, limiting size of cylinder; secured cylinder transport cart	N	2	2	5	2	40							
2. Purging gas system with inert gas	Incomplete purge leaving hazardous gas in line resulting in fire or toxic exposure	Computer controlled/ interlocked? multiple purge cycles, gas detectors in gas cabinet, SOP for gas exchange, ventilated exhaust cabinet, visual indicator of exhaust flow	N	2	2	4	2	32							

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3. Exchanging gas cylinder	Damaged regulator, gas leak, fire or toxic gas exposure, dropping cylinder.	Gas handling SOP to include visual check, buddy system, posting in area, compressed gas training, gas monitors, PPE	N	2	2	5	2	40							
4. Opening Gas Valve	Stuck valve, damaged valve, regulator damaged or cross threaded causing leak of gas	Gas handling SOP, Gas cabinet has access to valve without opening cabinet door. Gas monitors, PPE	Y	2	2	3	3	36							
5. Initiating Gas handling system	Regulator damaged or cross threaded, power failure,	Gas monitors on emergency power	Y	2	2	3	3	36							
6. Returning empty cylinder to storage	Dropping cylinder, leak of pyrophoric, flammable or toxic gas, fire, burns, toxic exposure	Gas handling SOP, buddy system, posting in area, compressed gas training	N	2	2	3	1	12							
7.															
8.															

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