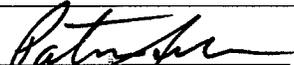


EENS Job Risk Assessment

The only official copy of this file is the one on-line. Before using a printed copy, verify that it is the most current version by checking the document issue date on the EENS OHSAS web site.

Name(s) of Risk Team Members: D. Mahajan, D. Elling, L. Bowerman, P. Sullivan, T. Sullivan, J. Madaia, A. Piper	Point Value Parameter → ↓	1	2	3	4	5
Job Title: Working with Pressure Vessels	Frequency (B)	≤once/year	≤once/month	≤once/week	≤once/shift	>once/shift
JRA #: EENS-JRA-020						
Rev. #: 0 JRA Date: 8/31/06						
Job Description: Using pressure to enhance chemical reactions	Severity (C)	First Aid Only	Medical Treatment	Lost Time	Partial Disability	Death or Permanent Disability
Training and Procedure List (Optional):	Likelihood (D)	Extremely Unlikely	Unlikely	Possible	Probable	Multiple
Approved by:  Date: 8/31/06 Patrick Sullivan						
Stressors (if applicable, please list all): none		Reason for Revision (if applicable):			Comments:	

Job Step / Task	Hazard	Control(s)	Before Additional Controls					Control(s) Added to Reduce Risk	After Additional Controls							
			Stressors Y/N	# of People A	Frequency B	Severity C	Likelihood D		Risk* AxBxCxD	Stressors Y/N	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	% Risk Reduction
Perform leak test	Being struck by object due to inadvertent pressure release	Compressed Gas training, PPE, ASME certified, fume hood enclosure, equipment inspection, proper tools, Work Planning & Control (ESR)	N	2	3	2	2	24								
Loading pressure vessel	Chemical exposure	Lab Standard training, PPE, Work Planning & Control (ESR), MSDS, ventilation	N	2	3	2	2	24								
Pressurize system	Being struck by object due to inadvertent pressure release	Compressed Gas training, PPE, ASME certified, fume hood enclosure, equipment inspection, proper tools, Work Planning & Control (ESR)	N	2	3	2	2	24								
	Chemical exposure	Lab Standard training, PPE, Work Planning & Control (ESR), MSDS, ventilation	N	2	3	2	2	24								

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Job Step / Task	Hazard	Control(s)	Before Additional Controls						Control(s) Added to Reduce Risk	After Additional Controls					% Risk Reduction			
			Stressors Y/N	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD		Stressors Y/N	# of People A	Frequency B	Severity C	Likelihood D		Risk* AxBxCxD		
Heating vessel	Burns	Insulation, High/lo temperature indicator, cool down period, posting when applicable	N	2	3	2	2	24										
System Failure from overheat or over pressurizing	Burns, being struck by object due to inadvertent pressure release, chemical exposure	High limit control, rupture disks, insulation, High/lo temperature indicator, rupture cool down period, posting when applicable, Compressed Gas training, PPE, ASME certified, fume hood enclosure, equipment inspection, proper tools, Work Planning & Control (ESR), Lab Standard training, PPE, MSDS, ventilation	N	2	3	2	2	24										
Sample Analysis, Shutdown, Cleanup	Being struck by object due to inadvertent pressure release, chemical exposure	Compressed Gas training, PPE, ASME certified, fume hood enclosure, equipment inspection, proper tools, Work Planning & Control (ESR), Lab Standard training, PPE, MSDS, ventilation	N	2	3	2	2	24										
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				