

Name(s) of Risk Team Members: P. Cirnigliaro, J. Scott, L. Campione, R. Karl, J. Williams	Point Value → Parameter ↓	1	2	3	4	5
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Job Title: Working with Hazardous Materials Job Number or Job Identifier: JRA 16-07	Frequency (B)	≤once/year	≤once/month	≤once/week	≤once/shift	>once/shift
Job Description: Change Mercury Bulb Crusher Bag Filter, and Crush Fluorescent Bulbs	Severity (C)	First Aid Only	Medical Treatment	Lost Time	Partial Disability	Death or Permanent Disability
Training and Procedures List (optional): Contamination Worker, Respirator Qualified	Likelihood (D)	Extremely Unlikely	Unlikely	Possible	Probable	Multiple
Approved by: <i>E. Lessard</i> Date: Jan 5, 2007      Rev. #: 2						

Stressors (if applicable, please list all):	Reason for Revision (if applicable):	Comments:
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				Before Additional Controls					After Additional Controls					% Risk Reduction	
Job Step / Task	Hazard	Control(s)	Stressors Y/N	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	Control(s) Added to Reduce Risk	Stressors Y/N	# of People A	Frequency B	Severity C		Likelihood D
Open HEPA Filter Door	Exposure to Mercury vapor by inhalation.	Training, procedures, work planning, RWP, areas with limited access to authorized personnel only, personal protective equipment, respirators, IH personnel and area monitoring, HP coverage, Manufacturers Manual	N	2	1	3	2	12							
Open HEPA Filter Door	Area or personnel Contamination	Training, procedures, work planning. RWP, areas with limited access to authorized personnel only, personal protective equipment, respirators, IH personnel and area monitoring PPE, HP coverage, Area surveys	N	2	1	1	3	6							
Remove old bag filter	Exposure to mercury vapor and particulate by inhalation	Training, procedures, work planning, RWP, areas with limited access to authorized personnel only, personal protective equipment, respirators, IH personnel and area monitoring, HP coverage, area surveys	N	2	1	3	2	12							
Remove old bag filter	Area or personnel contamination	Training, procedures, work planning, RWP, areas with limited access to authorized personnel only, personal protective equipment, respirators, IH personal and area monitoring, HP coverage, area surveys	N	2	1	1	3	6							

Replace new bag filter	Exposure to mercury vapor and particulate by inhalation	Training, procedures, work planning, RWP, areas with limited access to authorized personnel only, personal protective equipment, respirators, IH personnel and area monitoring, HP coverage, area surveys, Manufacturers manual.	N	2	1	3	2	12								
Open drum and place bag filter in drum	Exposure to mercury vapor and particulate by inhalation.	Training, procedures, work planning, areas with limited access to authorized personnel only, personal protective equipment, respirators, IH personnel and area monitoring, HP coverage, area surveys, Manufacturers manual.	N	2	1	3	2	12								
Open drum and place bag filter in drum	Area or personnel contamination	Training, procedures, work planning, RWP, areas with limited access to authorized personnel only, personal protective equipment, respirators, IH personal and area monitoring, HP coverage, area surveys	N	2	1	1	3	6								
Crush Fluorescent bulbs into drum.	Exposure to Mercury vapor and particulate by inhalation	Training, procedures, work planning, areas with limited access to authorized personnel only, personal protective equipment, respirators, IH personnel and area monitoring, HP coverage, area surveys, Manufacturers manual, HEPA and Charcoal filter exhaust on drum crusher(engineered ventilation)	N	1	1	3	2	6								
Crush Fluorescent bulbs into drum.	Area or personnel contamination	Training, procedures, work planning, areas with limited access to authorized personnel only, personal protective equipment, respirators, IH personnel and area monitoring, HP coverage, area surveys, Manufacturers manual, HEPA and charcoal filter exhaust(engineered ventilation).	N	1	1	3	2	6								
Crush Fluorescent bulbs into drum.	Injury from broken glass	Training, procedures, work planning, areas with limited access to authorized personnel only, personal protective equipment, Bulb crusher design, Manufacturers manual, No exposed moving parts and area bulb is crushed has suction to maintain glass in drum and a 30" entry tube as additional barrier.	N	1	1	3	3	9								
Crush Fluorescent bulbs into drum.	Injury from moving mechanical parts	Training, procedures, work planning, areas with limited access to authorized personnel only, personal protective equipment, Bulb crusher design, Manufacturers manual, No exposed moving parts and area bulb is crushed has suction to maintain glass in drum and a 30" entry tube as additional barrier.	N	1	1	4	3	12								

Crush Fluorescent bulbs into drum.	Injury from repetitive motion( Placing many bulbs in entrant tube	Training, procedures, work planning, areas with limited access to authorized personnel only, personal protective equipment, Bulb crusher design, Manufacturers manual, No exposed moving parts and area bulb is crushed has suction to maintain glass in drum and a 30” entry tube as additional barrier, Ergonomics set up so operator does not have to stretch repeatedly to position bulb.	N	1	1	4	3	12	Step ladder or stand placed in area to bring operator into ideal position to position bulb for crushing without stretching.	N	1	1	3	2	6	50%
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Further Description of Controls Added to Reduce Risk: Continual base line personal exposure monitoring for mercury exposure is in process for this work to characterize this job more completely.

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