

**Job Risk Analysis**

Name(s) of Risk Team Members: Joel Scott, Ray Karol	Point Value → Parameter ↓	1	2	3	4	5
Job Title: Work with Hazardous Materials Job Number or Job Identifier: JRA 16-04	Frequency (B)	≤once/year	≤once/month	≤once/week	≤once/shift	>once/shift
Job Description: Working with PCBs, beryllium, lead, asbestos and mercury. This addresses only the IH aspects of this work.	Severity (C)	First Aid Only	Medical Treatment	Lost Time	Partial Disability	Death or Permanent Disability
Training and Procedures List (optional): OPM 1.7, OPM 1.8, OPM 1.10, OPM 8.20, OPM 8.20.2, OPM 8.24, OPM 9.2.1, OPM 9.3.1, OPM 9.5.9, BTMS Training, SBMS	Likelihood (D)	Impossible	Unlikely	Possible	Probable	Multiple
Approved by: <i>E. Lessard</i> Date: 7/12/04      Rev. #: 0						
Stressors (if applicable, please list all): None	Reason for Revision (if applicable):			Comments:		

Job Step / Task	Hazard	Control(s)	Stressors Y/N	Before Additional Controls					Control(s) Added to Reduce Risk	Stressors Y/N	After Additional Controls					% Risk Reduction
				# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD			# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	
Handling and working with lead	Ingestion, inhalation	Lead awareness training, hazardous and radioactive waste training, procedures, area monitoring, personnel monitoring, CMS, encapsulation of lead objects, PPE, prohibition of cutting/shaping lead unless SME reviews process, medical surveillance as required, ventilation, HEPA vacuums, water spray bottles, housekeeping, work planning, minimization of lead usage, warning signs, hazardous and radioactive waste controls, ASSRC and ESRC reviews	N	2	2	3	2	24								
Handling and working with beryllium	Inhalation, ingestion	Beryllium inventory controls, BURFs, work planning, procedures, PPE, medical surveillance, CMS, labeling, HEPA vacuums, ventilation, area monitoring, personnel monitoring, DOE Be-worker program, minimization of usage, glove bags, hoods, housekeeping, training, hazardous and radioactive waste controls, ASSRC and ESRC reviews	N	2	2	4	2	32								

Handling PCBs	Ingestion, absorption through skin	PCB inventory controls, periodic inspection of PCB components, spill response, PPE, training, work planning, equipment labeling, area postings, use of secondary containment, active replacement efforts, area monitoring, personnel monitoring, hazardous waste controls	N	2	2	1	2	8								
Handling and working with mercury	Inhalation, absorption through skin, ingestion	Training, PPE, procedures, work planning, mercury vacuum, area monitoring, personnel monitoring, minimization of usage, secondary containment, spill response, ventilation, hazardous and radioactive waste controls, ESRC reviews	N	2	1	4	2	16								
Handling and working with asbestos	Inhalation	BNL inventory, work planning, Plant Engineering qualified asbestos workers, training, procedures, labeling, ventilation, spray bottles, housekeeping, PPE, area monitoring, personnel monitoring, hazardous waste controls	N	2	1	4	2	16								
Handling and working with chemicals	Inhalation, absorption through skin, ingestion	CMS, work planning, procedures, PPE, area monitoring, personnel monitoring, use of small volumes, ventilation, secondary containment for liquids, spill response, hazardous and radioactive waste controls, use of safer substitutes, Tier 1 inspections, ASSRC and ESRC reviews	N	2	4	2	2	32								
Handling and working with chemicals	Eye irritation	CMS, work planning, procedures, PPE, ventilation, use of safer substitutes	N	2	4	2	3	48								
*Risk:	0 to 20	21 to 40	41-60	61 to 80	81 or greater											
	Negligible	Acceptable	Moderate	Substantial	Intolerable											