

## NSLS OHSAS Job Risk Assessment

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<b>Name(s) of Risk Team Members:</b> J. Aloï, S. Bennett, S. Khalid, R. Greene, A. Lenhard and S. Wirick.	<b>Point Value → Parameter ↓</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>
<b>Job Title:</b> <b>Generating Hazardous Waste</b>	<b>Frequency (B)</b>	≤once/year	≤once/month	≤once/week	≤once/shift	>once/shift
<b>Job Number or Job Identifier:</b> <b>LS-JRA-0026</b>						
<b>Job Description:</b> Generating Hazardous & Industrial Waste	<b>Severity (C)</b>	<b>First Aid Only</b>	<b>Medical Treatment</b>	<b>Lost Time</b>	<b>Partial Disability</b>	<b>Death or Permanent Disability</b>
	<b>Likelihood (D)</b>	<b>Extremely Unlikely</b> <<1x/20yrs	<b>Unlikely</b> 1x/10-20yrs	<b>Possible</b> >1x/10-20yrs	<b>Probable</b> 1x/yr	<b>Multiple</b> >1x/yr
Training and Procedure List (Optional): PRM & SA Hazardous Waste Generation						
Approved by: Andrew Ackerman      Date: 08/20/08 Rev. #: 2 <a href="#">Revision Log</a>						
<b>Stressors (if applicable, please list all):</b>		<b>Reason for Revision (if applicable):</b> Periodic review			<b>Comments:</b>	

Job Step / Task	Hazard	Before Controls						Initial Controls	After Initial Controls					Control(s) Added to Reduce Risk	After Additional Controls				
		Stressors Y/N	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD		# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD		# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD
Storing containers of hazardous waste in a SAA and 90-Day Area	<b>SPILL:</b> due to container failure may result in explosion or fire from flammable or combustible materials coming in contact with an ignition source or chemical reaction	N	1	4	4	5	80	Segregation of incompatibles, chemical storage cabinets, PPE, work planning/experimental review, ventilation, secondary containment, spill response, use of safer substitutes, Tier 1 inspections, container labeling, area posting, shelf-life monitoring, containers	1	4	3	2	24						

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		Stressors Y/N	# of People A	Frequency B	Severity C	Likelihood D		Risk* AxBxCxD	# of People A	Frequency B	Severity C	Likelihood D		Risk* AxBxCxD	# of People A	Frequency B	Severity C	Likelihood D
							specific for the hazard and operation, training, applicable subject areas, weekly inspections											
	<b>SPILL:</b> due to container failure may result in exposure to toxic materials or corrosive splash	N	1	4	4	5	80	chemical storage cabinets, work planning/experimental review, ventilation, secondary containment, use of safer substitutes, Tier 1 inspections, container labeling, area posting, shelf-life monitoring, containers specific for the hazard and operation, training, applicable subject areas, PPE, weekly inspections	1	4	3	2	24					
	<b>Reaction:</b> Chemical reaction of hazardous materials stored in a refrigerator during a power failure	N	1	1	4	3	12	Emergency power generator, work planning/experimental review, use of safer substitutes, Tier 1 inspections, container labeling, area posting, shelf-life monitoring, containers specific for the hazard and operation, training, applicable subject areas, PPE, secondary containment	1	1	3	2	6					
Moving containers of hazardous waste from SAA to 90-Day	<b>SPILL:</b> due to dropping container may result in explosion or fire from flammable/combustible materials coming in contact with an ignition source	N	1	4	4	5	80	work planning/experimental review, spill response, Tier 1 inspections, container labeling, containers specific for the hazard and operation, training, applicable subject areas, secondary containment	1	4	3	3	36					

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Area	<b>SPILL:</b> due to dropping container may result in exposure to toxic materials or corrosive splash	N	1	4	4	5	80	work planning/experimental review, PPE, spill response, Tier 1 inspections, container labeling, containers specific for the hazard and operation, training, applicable subject areas, secondary containment	1	4	3	3	36						
Adding Waste to a SAA container	<b>SPILL:</b> due to dropping container may result in explosion or fire from flammable/combustible materials coming in contact with an ignition source	N	1	4	4	5	80	spill pads, work planning/experimental review, PPE, use of small volumes, fume hood, secondary containment, spill response, use of safer substitutes, Tier 1 inspections, container labeling, area posting, containers specific for the hazard and operation, applicable subject areas	1	4	3	3	36						
	<b>SPILL:</b> due to dropping container may result in exposure to toxic materials or corrosive splash	N	1	4	4	5	80	spill pads, work planning/experimental review, PPE, use of small volumes, fume hood, secondary containment, spill response, use of safer substitutes, Tier 1 inspections, container labeling, area posting, containers specific for the hazard and operation, applicable subject areas	1	4	3	3	36						

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	Exposure to toxic materials including inhalation, absorption, ingestion and injection	N	1	4	4	5	80	work planning/experimental review, PPE, use of small volumes, fume hood, use of safer substitutes, container labeling, area posting, applicable subject areas, area and/or personnel monitoring	1	4	2	3	24						
	Exothermic reaction from mixing incompatibles	N	1	4	4	5	80	Work planning/experimental review, PPE, use of small volumes, use of safer substitutes, container labeling, area posting, reactions vessels specific for the hazard, applicable subject areas	1	4	4	3	48						
Disposal of sharps	Cuts, puncture wounds, exposure to infectious and hazardous materials	N	1	4	2	3	24	Sharp containers, area posting, Tier 1 inspections, applicable subject areas, work planning/experimental review	1	4	2	2	16						
Material handling - manual	See <b>LS-JRA-0018</b>																		
Material handling - mechanical	See <b>LS-JRA-0019</b>																		
<b>*Risk:</b>	<b>0 to 20 Negligible</b>	<b>21 to 40 Acceptable</b>					<b>41-60 Moderate</b>			<b>61 to 80 Substantial</b>			<b>81 or greater Intolerable</b>						