

NSLS OHSAS Job Risk Assessment

The only official copy of this file is the one on-line in the NSLS ESH website. Before using a printed copy, verify that it is the most current version by checking the document issue date on the NSLS ESH website.

Name(s) of Risk Team Members: D. Abel, J. Aloji, M. Sullivan, K. Hayes	Point Value → Parameter ↓	1	2	3	4	5
Job Title: <i>Radioactive and Mixed Waste Generation</i>	Frequency (B)	≤once/year	≤once/month	≤once/week	≤once/shift	>once/shift
Job Number or Job Identifier: LS-JRA-0027						
Job Description: Generating Radioactive and Mixed Waste	Severity (C)	First Aid Only	Medical Treatment	Lost Time	Partial Disability	Death or Permanent Disability
	Likelihood (D)	Extremely Unlikely <<1x/20yrs	Unlikely 1x/10-20yrs	Possible >1x/10-20yrs	Probable 1x/yr	Multiple >1x/yr
Training and Procedure List (Optional): PRM & SA Hazardous Waste and Radioactive Waste Generation						
Approved by: Andrew Ackerman Date: 08/20/08 Rev. #:2 Revision Log						
Stressors (if applicable, please list all):		Reason for Revision (if applicable): Periodic review			Comments:	

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 mixed waste in a SAA and 90-Day Area	SPILL: due to container failure may result in explosion or fire from flammable/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-	1	4	3	2	24						

NSLS OHSAS Job Risk Assessment

The only official copy of this file is the one on-line in the NSLS ESH website. Before using a printed copy, verify that it is the most current version by checking the document issue date on the NSLS ESH website.

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
							life monitoring, containers specific for the hazard and operation, training, applicable subject areas, SAA monthly checklist, 90 day area inspections, material substitution											
	SPILL: 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, SAA monthly checklist, material substitution, 90 day area inspections	1	4	3	2	24					
	Reaction: 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, SAA monthly checklist, material substitution, 90 day area inspections	1	1	3	2	6					
	Radiation exposure and contamination from spill						See LS-JRA-0023											

NSLS OHSAS Job Risk Assessment

The only official copy of this file is the one on-line in the NSLS ESH website. Before using a printed copy, verify that it is the most current version by checking the document issue date on the NSLS ESH website.

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
Moving containers of mixed waste from SAA to 90-Day Area	SPILL: 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, material substitution	1	4	3	3	36						
	SPILL: 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, material substitution	1	4	3	3	36						
	Radiation exposure and contamination from spill							See LS-JRA-0023											
Adding Mixed Waste to a SAA container	SPILL: 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, material substitution	1	4	3	3	36						

NSLS OHSAS Job Risk Assessment

The only official copy of this file is the one on-line in the NSLS ESH website. Before using a printed copy, verify that it is the most current version by checking the document issue date on the NSLS ESH website.

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
	SPILL: 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, material substitution	1	4	3	3	36						
	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, material substitution	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, material substitution	1	4	4	3	48						
	Radiation exposure and contamination from spill							See LS-JRA-0023											
Radioactive Waste Handling	Radiation exposure and contamination							See LS-JRA-0023											

NSLS OHSAS Job Risk Assessment

The only official copy of this file is the one on-line in the NSLS ESH website. Before using a printed copy, verify that it is the most current version by checking the document issue date on the NSLS ESH website.

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	% Risk Reduction	
Material handling - manual	See LS-JRA-0018																				
Material handling - mechanical	See LS-JRA-0019																				
*Risk:	0 to 20 Negligible	21 to 40 Acceptable					41-60 Moderate					61 to 80 Substantial					81 or greater Intolerable				