

Light Sources Directorate OHSAS Facility Risk Assessment

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Name(s) of Risk Team Members: NSLS OHSAS Committee	Point Value → Parameter ↓	1	2	3	4	5	
Area/Facility Description Title: General Fire Issues	Occupancy or Use	≤once/year	≤once/month	≤once/week	≤once/shift	>once/shift	
Area/Facility # (if applicable): LS-FRA-0002							
Area/Facility Description: Facility fire hazards and controls	Severity	First Aid Only	Medical Treatment	Lost Time	Partial Disability	Death or Permanent Disability	
	Likelihood	Extremely Unlikely <<1x/20yrs	Unlikely 1x/10-20yrs	Possible >1x/10-20yrs	Probable 1x/yr	Multiple >1x/yr	
Approved by: A. Ackerman Rev.#: 3	Date: 08/15/2008 Revision Log					Comments:	
Reason for Revision (if applicable): The likelihood "point value" on the electrical fire section of the FRA has been increased based on the increased probability of a fire being caused by a piece of equipment that has not yet been inspected by an EEI, since it is inaccessible because it has been covered by radiation shielding.							

Physical Item or Activity	Hazard(s)	Before Controls				Initial Controls	After Initial Controls				Control(s) Added to Reduce Risk	After Additional Controls				% Risk Reduction
		Occupancy A	Severity B	Likelihood C	Risk* AxBxC		Occupancy A	Severity B	Likelihood C	Risk* AxBxC		Occupancy A	Severity B	Likelihood C	Risk* AxBxC	
Electrical Fire (The likelihood "point value" is based on the probability of a fire being caused by a NRTL approved, or EEI reviewed and approved piece of equipment.)	Smoke and heat	4	5	4	80	Fire detection and suppression systems, Life safety code compliance, marked exits, Emergency procedures, National Electric Code compliant installations, BNL Fire-Rescue, Tier I inspections	4	3	3	36						
	Injury due to panic	4	3	4	48		4	2	3	24						
Electrical Fire (The likelihood "point value" is	Smoke and heat	4	5	5	100	Fire detection and suppression systems, Life safety code compliance, marked exits, Emergency	4	3	4	48						

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Physical Item or Activity	Hazard(s)	Before Controls				Initial Controls	After Initial Controls				Control(s) Added to Reduce Risk	After Additional Controls				% Risk Reduction
		Occupancy A	Severity B	Likelihood C	Risk* AxBxC		Occupancy A	Severity B	Likelihood C	Risk* AxBxC		Occupancy A	Severity B	Likelihood C	Risk* AxBxC	
based on the increased probability of a fire being caused by a piece of equipment that has not yet been inspected by an EEI, since it is inaccessible because it has been covered by radiation shielding.)	Injury due to panic	4	3	5	60	procedures, BNL Fire-Rescue, work planning and safety system work permits prompt the inspection of these pieces of equipment when shielding removal is necessary	4	2	4	32						
Fire caused by ignition of flammable gas	Smoke and heat	4	5	4	80	Fire detection and suppression systems, Life safety code compliance, marked exits, Emergency procedures, segregation of incompatible chemicals, experimental review, minimize quantities, labeling, BNL Fire-Rescue, Tier I inspections	4	3	3	36						
	Injury due to panic	4	3	4	48		4	2	3	24						
Combustible material fire	Smoke and heat	4	5	4	80	Fire detection and suppression systems, Life safety code compliance, marked exits, Emergency procedures, BNL Fire-Rescue, Tier I inspections	4	3	3	36						
	Injury due to panic	4	3	4	48		4	2	3	24						

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Physical Item or Activity	Hazard(s)	Before Controls				Initial Controls	After Initial Controls				Control(s) Added to Reduce Risk	After Additional Controls				% Risk Reduction
		Occupancy A	Severity B	Likelihood C	Risk* AxBxC		Occupancy A	Severity B	Likelihood C	Risk* AxBxC		Occupancy A	Severity B	Likelihood C	Risk* AxBxC	
Chemical fire	Smoke and heat	3	5	4	60	Fire detection and suppression systems, Life safety code compliance, marked exits, Emergency procedures, segregation of incompatible chemicals, chemical storage cabinets, experimental review, minimize quantities, labeling, BNL Fire-Rescue, Tier I inspections	3	3	3	27						
	Injury due to panic	3	3	4	36		3	2	3	18						
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		