

NSLS 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 ODH (Oxygen Deficiency Hazard) Issues.	Occupancy or Use	≤once/year	≤once/month	≤once/week	≤once/shift	>once/shift
Area/Facility # (if applicable): LS-FRA-0009						
Area/Facility Description: General ODH Issues throughout the NSLS complex.	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 Date: 08/15/2008 Rev.#: 2 Revision Log						Comments: This FRA refers to MERA. MERA is the only ODH Class 0 area within the Light Source complex.
Reason for Revision (if applicable):						

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	
Occupancy in an ODH area	Oxygen deficiency (asphyxiation) resulting in death or permanent disability	5	5	3	75	Postings, ODH alarms (local and remote), control room alarm response, automatic ventilation, training, procedures, emergency automatic shut-off, Tier 1, emergency response, ODH analysis, design review	5	5	1	25						

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		Before Controls					After Initial Controls					After Additional Controls				
Physical Item or Activity	Hazard(s)	Occupancy A	Severity B	Likelihood C	Risk* AxBxC	Initial Controls	Occupancy A	Severity B	Likelihood C	Risk* AxBxC	Control(s) Added to Reduce Risk	Occupancy A	Severity B	Likelihood C	Risk* AxBxC	% Risk Reduction
			Impaired visibility during an ODH event, resulting in the inability to escape the ODH atmosphere, thereby resulting in death or permanent disability	5	5		2	50	Tier 1, emergency exit signs, adequate facility illumination, egress path clear of obstructions, training, procedures, emergency response, ODH alarms (local and remote), control room alarm response	5		5	1	25		
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				