

NSLS OHSAS Job Risk Assessment

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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
Using Class IIIA laser for alignment or scattering experiment	Temporary vision problems, eye injury	N	1	3	1	3	9	Exp. review, training, laser registration, laser use permit, signs beam stop, never use optical instrument to view laser, use lowest power practical	1	3	1	2	6						
Using Class IIIB laser in experimental set up for scattering or spectroscopy	Eye injury	N	1	3	3	3	27	Exp. review, training, laser registration, approved written procedures, protective eyewear, signs, beam stop	1	3	1	1	3						
Using Class IIIB laser in experimental set up for scattering or spectroscopy	Skin Burns	N	1	3	1	4	12	Exp. review, training, laser registration, approved written procedures, protective eyewear, signs, beam stop	1	3	1	2	6						
Using Class IV laser in experimental set up for scattering or spectroscopy	Eye injury	N	1	3	4	3	36	Exp. review, training, laser registration, approved written procedures, protective eyewear, signs, enclosed beam path, beam stop, interlocks	1	3	1	1	3						

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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	Risk* AxBxCxD	% Risk Reduction		
Using Class IV laser in experimental set up for scattering or spectroscopy	Skin Burns	N	1	3	3	4	36	Exp. review, training, laser registration, approved written procedures, protective eyewear, signs, enclosed beam path, beam stop, interlocks	1	3	3	2	18									
Using Class IV laser in experimental set up for scattering or spectroscopy	Fire	N	1	3	2	3	18	Exp. review, training, fire detection, Tier I	1	3	1	2	6									
Servicing or repairing Class IV laser	Electrocution	N	1	2	5	3	30	Exp. review, training, laser registration, approved written procedures, protective eyewear, signs, beam stop, interlocks, work planning, NFPA 70E	1	2	2	2	8									
	Burns	N	1	2	4	2	16		1	2	2	2	8									
	Eye injury	N	1	2	4	2	16		1	2	2	2	8									
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				