

## NSLS OHSAS Facility Risk Assessment

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<b>Name(s) of Risk Team Members:</b> <b>NSLS OHSAS Committee</b>	<b>Point Value →</b> <b>Parameter ↓</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>
<b>Area/Facility Description Title:</b> <b>General Radiation Issues</b>	<b>Occupancy or Use</b>	≤once/year	≤once/month	≤once/week	≤once/shift	>once/shift
<b>Area/Facility # (if applicable):</b> <b>LS-FRA-0008</b>						
<b>Area/Facility Description:</b> <b>NSLS Facility ionizing and non-ionizing radiation hazards and controls.</b>	<b>Severity</b>	<b>First Aid Only/</b> Rad stop work, RAR	<b>Medical Treatment/</b> ORPS threshold exceeded	<b>Lost Time/</b> NTS report filed with DOE	<b>Partial Disability/</b> DOE enforcement action levied against BNL	<b>Death or Permanent Disability/</b> DOE mandated rad ops stand down
	<b>Likelihood</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
<b>Approved by:</b> <b>A. Ackerman</b> <b>Date:</b> <b>08/15/2008</b> <b>Rev.#:</b> <b>2</b> <a href="#">Revision Log</a>						
<b>Reason for Revision (if applicable):</b>				<b>Comments:</b>		

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	
Being in a controlled area	Radiation exposure	5	1	3	15	Access control, training, postings, procedures, TLD as needed	5	1	2	10						
Being in close proximity to accelerator enclosures	Elevated radiation levels caused by mis-steering or mis-tuning of beam	3	3	3	27	Access control, SAD, ASE, operator training, procedures, radiation monitoring, equipment design, configuration control	3	2	2	12						

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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	
Being in close proximity to sealed radiation source	Radiation exposure	2	1	3	6	Postings, custodian program, SBMS subject area, proper labeling & storage	2	1	2	4						
Being in close proximity to unsealed radiation source, dispersibles, Accountable Nuclear Materials etc.	Radiation exposure	1	2	2	4	Postings, training, procedures, RWPs, proper labeling & storage	1	2	1	2						
Being in close proximity to activated materials, i.e. accelerator metal parts activated by the electron beam	Radiation exposure	1	2	2	4	Access control, training, dosimetry as required, activation checks, RWP as needed, work planning and permits, proper labeling & posting if stored	1	2	1	2						
Being in close proximity to magnetic fields	Medical implants exposed to fields >5 gauss: - pacemaker - defibrillator - insulin pump - cochlear implant other	2	5	2	20	Access control, posting/barriers, IH surveys, Static Magnetic Fields SBMS Subject Area, procedures, training, work area conditions, field maps, "tell tails",	2	5	1	10						

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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		
Further Description of Controls Added to Reduce Risk:																					
<b>*Risk:</b>		<b>0 to 20 Negligible</b>				<b>21 to 40 Acceptable</b>				<b>41 to 60 Moderate</b>				<b>61 to 80 Substantial</b>				<b>81 or greater Intolerable</b>			