

Name(s) of Risk Team Members: T. Nehring and R. Savage	Point Value → Parameter ↓	1	2	3	4	5
Area/Facility Description Title: Collider-Accelerator Department Area/Facility # (if applicable): Area-Wide FRA 25-05	Occupancy or Use (A)	≤once/year	≤once/month	≤once/week	≤once/shift	>once/shift
Area/Facility Description: Area-Wide Locked Electrical Rooms and Locked Electrical Cages	Severity (B)	First Aid Only	Medical Treatment	Lost Time	Partial Disability	Death or Permanent Disability
	Likelihood (C)	Extremely Unlikely	Unlikely	Possible	Probable	Multiple
Approved by: <i>E. Lessard</i> Date: 3-21-05      Rev.#: 0						

Reason for Revision (if applicable):	Comments:
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Physical Item or Activity	Hazard(s)	Control(s)	Before Additional 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	
Electrical Caged Area/ Rooms (With Exposed Parts)	Electrical shock	Locked areas, procedures, electrical safety training, control zones (e.g. signs and barriers), work permits, job safety analysis, LOTO, safety watch, working hot permits, equipment design review, scheduled maintenance of equipment, fire rescue response, EMTs, work planning, PPE	2	5	2	20	BNL working towards compliance with NFPA 70E PPE, training, and posting requirements for all personnel, UL or equivalent approval of all equipment required or on-site experts to approve it.	2	4	2	16	20%
Electrical Caged Area/ Rooms (With Exposed Parts)	Electrical arcing	Locked areas, procedures, electrical safety training, control zones (e.g. signs and barriers), work permits, job safety analysis, LOTO, safety watch, working hot permits, equipment design review, scheduled maintenance of equipment, fire rescue response, EMTs, work planning, PPE	2	5	2	20	BNL working towards compliance with NFPA 70E PPE, training, and posting requirements for all personnel, UL or equivalent approval of all equipment required or on-site experts to approve it.	2	4	2	16	20%
Walking surface areas (With Exposed Parts)	Falls at the same level	Maintenance of walkways and landings	2	3	3	18						
Electrical Caged Area/ Rooms (Substations)	Electrical shock	Locked areas, procedures, electrical safety training, control zones (e.g. signs and barriers), work permits, job safety analysis, LOTO, safety watch, working hot permits, equipment design review, scheduled maintenance of equipment, fire rescue response, EMTs, work planning, PPE	2	5	2	20	BNL working towards compliance with NFPA 70E PPE, training, and posting requirements for all personnel, UL or equivalent approval of all equipment required or on-site experts to approve it.	2	4	2	16	20%
Electrical Caged Area/ Rooms (Substations)	Electrical arcing	Locked areas, procedures, electrical safety training, control zones (e.g. signs and barriers), work permits, job safety analysis, LOTO, safety watch, working hot permits, equipment design review, scheduled maintenance of equipment, fire rescue response, EMTs, work planning, PPE	2	5	2	20	BNL working towards compliance with NFPA 70E PPE, training, and posting requirements for all personnel, UL or equivalent approval of all equipment required or on-site experts to approve it.	2	4	2	16	20%

Walking surface areas (Substations)	Falls at the same level	Maintenance of walkways and landings	2	3	3	18					
Further Description of Controls Added to Reduce Risk:											
*Risk:	0 to 20	21 to 40	41-60		61 to 80		81 or greater				
	Negligible	Acceptable	Moderate		Substantial		Intolerable				