

F&O Facility Risk Assessment

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Name(s) of Risk Team Members: P. Williams, A. Piper, P. Bender, N. Houvener, J. Gadbois, J. Pagano, R. McKay		Point Value → Parameter ↓	1	2	3	4	5
Area/Facility Description Title: Facility Wide Fire		Occupancy or Use	≤once/year	≤once/month	≤once/week	≤once/shift	>once/shift
Area/Facility # (if applicable): FRA-FO-GEN-Fire							
Area/Facility Description: Facilities & Operations		Severity	First Aid Only	Medical Treatment	Lost Time	Partial Disability	Death or Permanent Disability
Facility – Wide Fire							
Approved by: Patricia Williams Date: 9/16/04 Rev.#: 1		Likelihood	Impossible	Unlikely	Possible	Probable	Multiple
Reason for Revision (if applicable): Correction of minor calculation error.					Comments: N/A		

Physical Item or Activity	Hazard(s)	Control(s)	Risk with Controls in Place				Control(s) Added to Reduce Risk	Risk with Additional Controls in Place				% Risk Reduction
			Occupancy A	Severity B	Likelihood C	Risk* AxBxC		Occupancy A	Severity B	Likelihood C	Risk* AxBxC	
Electrical Fire	Smoke And Heat	Fire detection & suppression systems; equipment protective systems; Project Design reviews for renovation or construction projects; all equipment is listed on Key Plans; Tier 1 inspections; maintenance; electrical & life safety code compliance; emergency procedures; EMTs & BNL fire rescue.	4	3	3	36	The replacement of approximately 6,000 faulty Edwards's 281A heat detectors lab wide is on schedule and approximately 40% are complete for this year. Being tracked by ATS 1237	4	3	2	24	33

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			Risk with Controls in Place				Risk with Additional Controls in Place					
Physical Item or Activity	Hazard(s)	Control(s)	Occupancy A	Severity B	Likelihood C	Risk* AxBxC	Control(s) Added to Reduce Risk	Occupancy A	Severity B	Likelihood C	Risk* AxBxC	% Risk Reduction
Flammable Liquid Fire	Smoke And Heat	Fire detection & suppression systems; procedures; training; chemical segregation; volume controls; flammable storage cabinets and storage controls, ventilation, labeling, MSDS; Tier 1 inspections; ignition source controls.	3	2	3	18						

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Physical Item or Activity	Hazard(s)	Control(s)	Risk with Controls in Place				Control(s) Added to Reduce Risk	Risk with Additional Controls in Place				% Risk Reduction
			Occupancy A	Severity B	Likelihood C	Risk* AxBxC		Occupancy A	Severity B	Likelihood C	Risk* AxBxC	
Chemical Fire	Smoke And Heat	Fire detection & suppression systems; procedures; training; equipment protective systems; flammable storage cabinets, Tier 1 inspections	2	2	2	8						
Combustible Material Fire	Smoke And Heat	Fire detection & suppression systems; procedures; training; equipment protective systems; all equipment is listed; Tier 1 inspections	5	2	3	30						
Flammable/Explosive Gases Fire	Smoke And Heat	Fire detection & suppression systems; procedures; training; equipment protective systems; Project Design reviews for renovation or construction projects; Tier 1 inspections; maintenance; emergency procedures; BNL Fire Rescue; volume controls; segregation controls; labeling; area posting.	4	5	2	40						
Dry Vegetation Fire	Smoke And Heat	Fire breaks; maintenance of fire breaks; procedures; training; BNL site-wide warning alarm system; BNL Wildland Fire controls; Tier 1 inspections; Emergency procedures; BNL Fire Rescue	1	2	2	4						

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			Risk with Controls in Place				Risk with Additional Controls in Place					
Physical Item or Activity	Hazard(s)	Control(s)	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: Site-wide communications via plectron radio.												
*Risk:	0 to 20	21 to 40	41-60				61 to 80		81 or greater			
	Negligible	Acceptable	Moderate				Substantial		Intolerable			