

### Job Risk Analysis

Name(s) of Risk Team Members: R. Karol, J. Scott				Point Value → Parameter ↓	1	2	3	4	5							
Job Title: Radiation/contamination work Job Number or Job Identifier: JRA 7b-04				Frequency (B)	≤once/year	≤once/month	≤once/week	≤once/shift	>once/shift							
Job Description: Perform work (typical) with any radioactive and/or contaminated material or posted areas within C-AD facilities.				Severity (C)	First Aid Only	Medical Treatment	Lost Time	Partial Disability	Death or Permanent Disability							
Training and Procedures List (optional): BNL Radcon Manual; OPMs 4.1, 9.1 series, 9.5 series.				Likelihood (D)	Impossible	Unlikely	Possible	Probable	Multiple							
Approved by: <i>E. Lessard</i> Date: 7-12-04      Rev. #: 0																
Stressors (if applicable, please list all): None				Reason for Revision (if applicable):			Comments: Represents the radiation hazards associated with typical jobs performed at C-AD facilities.									
				Before Additional Controls					After Additional Controls							
Job Step / Task	Hazard	Control(s)	Stressors Y/N	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	Control(s) Added to Reduce Risk	Stressors Y/N	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	% Risk Reduction
Survey Radiation Areas And High Radiation Areas	Direct radiation	Qualified RCT, RWP, work planning, TLD, alarming EPD, sign-in logs, gate watch, ACS, PASS, radiation instruments, calibration of instrumentation and monitoring devices, shielding, RSLOTO, alarming and/or interlocking Chipmunks	N	2	5	1	2	20								
Survey Contamination Area	Skin and direct radiation, internal radiation	Qualified RCT, RWP, work planning, TLD, alarming EPD, sign-in logs, gate watch, ACS, PASS, radiation instruments, calibration of instrumentation and monitoring devices, PPE,	N	2	3	1	2	12								



Perform Work On Activated Materials	Skin and direct radiation, internal radiation	Qualified radworker, RWP, job coverage by RCT as required, work planning, TLD, alarming EPD, sign-in logs, gate watch, ACS, PASS, radiation instruments, calibration of instrumentation and monitoring devices, PPE, shielding, radiation survey information available, ALARA committee reviews and controls, RSC, RSLOTO, alarming and/or interlocking Chipmunks	N	5	5	1	2	50								
Working With Radioactive Sources	Direct radiation	Qualified radworker, RWP, job coverage by RCT as required, work planning, TLD, alarming EPD, radiation instruments, calibration of instrumentation and monitoring devices, PPE, shielding, radiation survey information available	N	2	3	1	2	12								
Working With Activated Water	Skin and direct radiation, internal radiation	RWP, spill response, PPE, job coverage by RCT as required, work planning, TLD, radiation instruments, calibration of instrumentation and monitoring devices, shielding	N	2	3	2	2	24								
Further Description of Controls Added to Reduce Risk:																
*Risk:	0 to 20	21 to 40	41 to 60	61 to 80	81 or greater											
	Negligible	Acceptable	Moderate	Substantial	Intolerable											