

Hall: A

**RADIATION BUDGET FORM**

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Exp. # E95-001

rev: A

run dates: 1997

name of liaison: Haiyan Gao

setup number			1	2	3	4	5	6	7	8	9	10	11	12	<i>totals:</i>	
beam	energy	GeV	0.800	1.600	0.800	0.800	0.800	0.800	1.600	1.600	1.600	1.600	1.600	1.600		
	current	uA(CW)	5.0	10.0	5.0	5.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0		
exp'l target	element		He[3]	He[3]	He[3]		He[3]		He[3]		He[3]		He[3]			
	thickness	mg/cm2	50	50	50		50		50		50		50			
add'l target 1	element		Si	Si	Si	Si	Si	Si	Si	Si	Si	Si	Si	Si		
	thickness	mg/cm2	24.2	24.2	24.2	24.2	24.2	24.2	24.2	24.2	24.2	24.2	24.2	24.2		
add'l target 2	element		O	O	O	O	O	O	O	O	O	O	O	O		
	thickness	mg/cm2	27.7	27.7	27.7	27.7	27.7	27.7	27.7	27.7	27.7	27.7	27.7	27.7		
time	run time (100% eff.)	hours	24	24	27	8	32	8	29	8	54	8	75	8		305
		days	1.0	1.0	1.1	0.3	1.3	0.3	1.2	0.3	2.3	0.3	3.1	0.3	12.7	
	installation time	hours													0	
		days	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
dose rate at the fence post (run time)	method 1	urem/hr	0.01	0.03	0.01	0.01	0.02	0.01	0.03	0.01	0.03	0.01	0.03	0.01		
	method 2	urem/hr														
	conservative	urem/hr	0.01	0.03	0.01	0.01	0.02	0.01	0.03	0.01	0.03	0.01	0.03	0.01		
dose per setup		urem	0.3	0.6	0.3	0.0	0.7	0.1	0.7	0.1	1.4	0.1	1.9	0.1	6.3332	
% of annual dose budget		%	0.003	0.006	0.003	0.000	0.007	0.001	0.007	0.001	0.014	0.001	0.019	0.001	0.0633	
% of allowed dose for the total time															1.819	
% of allowed dose for the run time only															1.819	
<i>If &gt; 200%, discuss result with Physics Research EH&amp;S officer</i>																

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