

Hall: **A****RADIATION BUDGET FORM**

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Exp. # **GEn**rev: **0**run dates: **TBD**name of liaison: **Todd Averett, Eric Fuchey****E12-09-016**

setup number			1	2	3	4	5	6	7	
beam	energy	GeV	4.4	4.4	4.4	4.4	4.4	6.6	8.8	<i>totals:</i>
	current	uA(CW)	60.0	60.0	60.0	5.0	60.0	60.0	60.0	
exp't	element		He-3	N	H	C	He-3	He-3	He-3	
target	thickness	mg/cm2	97	904	65	280	97	97	97	
add'l	element		Be	Be	Be	Be	Be	Be	Be	
target 1	thickness	mg/cm2	46.9	46.9	46.9	46.9	46.9	46.9	46.9	
add'l	element		Al	Al	Al	Al	Al	Al	Al	
target 2	thickness	mg/cm2	2.8	2.8	2.8	2.8	2.8	2.8	2.8	
add'l	element		N	N	N	N	N	N	N	
target 3	thickness	mg/cm2	26	26	26	97.8	26	26	26	
cryo tgt	element		Al	Al	Al		Al	Al	Al	
window	thickness	mg/cm2	83	83	83		83	83	83	
exit	element		Be	Be	Be	Be	Be	Be	Be	
window	thickness	mg/cm2	93.9	93.9	93.9	93.9	93.9	93.9	93.9	
time	run time (100% eff.)	hours	10	10	10	10	41	165	929	1175
		days	0.4	0.4	0.4	0.4	1.7	6.9	38.7	49.0
	installation time	hours								0
		days	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	0.68	2.91	0.50	0.09	0.68	0.77	0.85	
	method 2	urem/hr								
	conservative	urem/hr	0.68	2.91	0.50	0.09	0.68	0.77	0.85	
dose per setup		urem	7	29	5	1	28	128	787	983.8
% of annual dose budget		%	0.1	0.3	0.1	0.0	0.3	1.3	7.9	9.838
% of allowed dose for the total time										73.34
% of allowed dose for the run time only										73.34
<i>If > 200%, discuss result with Physics Research EH&S officer</i>										

date form issued:

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