

Hall: C

RADIATION BUDGET FORM

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Exp. # E12-16-007

rev:

run dates: 2019

name of liaison: D. Gaskel

setup number			1	
beam	energy	GeV	11.0	<i>totals:</i>
	current	uA(CW)	40.0	
radiator	element		Cu	
	thickness	mg/cm2	1157	
	dist. to pivot	m	-1.00	
	Z		29	
	A		64	
exp't target	element		H	
	thickness	mg/cm2	1062	
	dist. to pivot	m	0.0	
	Z		1	
	A		1	
cryo tgt window	element		Al	
	thickness	mg/cm2	83	
	dist. to pivot	m	0.0	
	Z		13	
	A		27	
critical window	radius	cm	6.32	
	dist. to pivot	m	5.57	
scattering weighting factor			0.50	
time	run time (100% eff.)	hours	264	264
		days	11.0	11.0
	installation time	hours		0
		days	0.0	0.0
dose rate at the fence post (run time)	method 1	urem/hr	7.84	
	method 2	urem/hr		
	conservative	urem/hr	7.84	
dose per setup		urem	2071	2071
% of annual dose budget		%	20.7	20.71
% of allowed dose for the total time				687.19
% of allowed dose for the run time only				687.19

*If > 200%, discuss result with Physics Research EH&S officer**date form issued:*

May 23, 2017

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