

Hall: C

RADIATION BUDGET FORM

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Exp. # E12-11-107

rev: A

run dates: 2022-2023

name of liaison: H. Szumila-Vance

setup number			1	2	3	4	
beam	energy	GeV	6.6	10.9	10.9	10.9	<i>totals:</i>
	current	uA(CW)	10.0	10.0	1.0	1.0	
exp't target	element		H	C	D		
	thickness	mg/cm2	1400	287	2800		
	dist. to pivot	m	0.0	0.0	0.0		
	Z		1	6	1	0	
	A		1	12	2	0	
cryo tgt window	element		Al		Al	Al	
	thickness	mg/cm2	70		70	70	
	dist. to pivot	m	0.0		0.0	0.0	
	Z		13	0	13	13	
	A		27	0	27	27	
critical window	radius	cm	2.06	2.06	2.06	2.06	
	dist. to pivot	m	2.58	2.58	2.58	2.58	
scattering weighting factor			0.50	0.50	0.50	0.50	
time	run time (100% eff.)	hours	36	36	840	48	960
		days	1.5	1.5	35.0	2.0	40.0
	installation time	hours					0
		days	0.0	0.0	0.0	0.0	0.0
dose rate at the fence post (run time)	method 1	urem/hr	0.40	0.16	0.10	0.00	
	method 2	urem/hr					
	conservative	urem/hr	0.40	0.16	0.10	0.00	
dose per setup		urem	14	6	82	0	102.3
% of annual dose budget		%	0.1	0.1	0.8	0.0	1.023

% of allowed dose for the total time

9.33

% of allowed dose for the run time only

9.33

*If > 200%, discuss result with Physics Research EH&S officer**date form issued:* November 20, 2020*authors:* P. Degtiarenko