Hall: A

RADIATION BUDGET FORM

Exp. # E08-011 **rev: A** **run dates: 2009** **name of liaison: Paul Reimer**

setup number			1	2	3	4	5	6	7	8	9	10	11	12	13	
beam	energy	GeV	**6.000**	**4.870**	**6.000**	**6.000**	**4.870**	**6.000**	**4.870**	**6.000**	**4.870**	**6.000**	**4.870**	**6.000**	**4.870**	***totals:***
	current	uA(CW)	**125.0**	**125.0**	**100.0**	**20.0**	**20.0**	**20.0**	**20.0**	**125.0**	**100.0**	**20.0**	**20.0**	**20.0**	**20.0**	
exp't	element		**D**	**D**	**C**	**C**	**C**	**C**	**C**	**Al**	**Al**	**Be**	**Be**	**Ta**	**Ta**	
target	thickness	mg/cm2	**3380**	**3380**	**84**	**84**	**84**	**210**	**210**	**1660**	**1660**	**54**	**54**	**122**	**122**	
cryo tgt	element		**Al**	**Al**								**O**	**O**			
window	thickness	mg/cm2	**83**	**83**								**96**	**96**			
time	run time	hours	**980**	**79**	**4**	**4**	**2**	**4**	**2**	**17**	**4**	**4**	**2**	**1**	**1**	**1104**
	(100% eff.)	days	**40.8**	**3.3**	**0.2**	**0.2**	**0.1**	**0.2**	**0.1**	**0.7**	**0.2**	**0.2**	**0.1**	**0.0**	**0.0**	**46.0**
	installation	hours														**0**
	time	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**	**0.0**
dose rate at	method 1	urem/hr	**10.28**	**9.68**	**0.28**	**0.06**	**0.05**	**0.15**	**0.14**	**13.51**	**10.26**	**0.10**	**0.10**	**0.12**	**0.12**	
the fence post	method 2	urem/hr														
(run time)	conservative	urem/hr	**10.28**	**9.68**	**0.28**	**0.06**	**0.05**	**0.15**	**0.14**	**13.51**	**10.26**	**0.10**	**0.10**	**0.12**	**0.12**	
dose per setup		urem	**10077**	**764.8**	**1.1**	**0.2**	**0.1**	**0.6**	**0.3**	**229.7**	**41.1**	**0.4**	**0.2**	**0.1**	**0.1**	**11115**
% of annual dose budget		%	**100.8**	**7.648**	**0.011**	**0.002**	**0.001**	**0.006**	**0.003**	**2.297**	**0.411**	**0.004**	**0.002**	**0.001**	**0.001**	**111.15**
% of allowed dose for the total time																**881.98**
% of allowed dose for the run time only																**881.98**

If > 200%, discuss result with Physics Research EH&S officer

date form issued: October 28, 2009 *authors:* P.Degtiarenko