Hall:	ပ					RA	DIA	RADIATION		BUDGET	ET	FORM	Z Z					4	page: 1 of 2	of 2
Exp. #	Exp. # Run group rev: E12-09-011, E12-09-017, E12-09-002	rev: :12-09-017, E1	12-09-00	Ø	run d	ı dates	: Fall	ates: Fall, 2018			Ħ	ıame (of liais	name of liaison: Ole Hansen	le Ha	nsen				
3,1	setup number		1		2	3	4	5	9	7	8	6	10	11	12	13	14	15	16	17
beam	energy	GeV	9.4	9.4	4 6.4	4 6.4		4.9	6.4	3.8	3.8	9.01	9.01	8.5	8.5	10.6	10.6	10.6	10.6	10.6
	current	uA(CW)	70.0	40.0	0.07	0 40.0	0 35.0		40.0	35.0 40	40.0	, 0.07	40.0	70.0	40.0	50.0	10.0	50.0	25.0	10.0
exp't	element		Н	Al	Н	Al	Н	Al	Н	Al	Н	Al	H	Al	I H	H I		D D	D	•
target	thickness	mg/cm2	723	525	5 723	3 525		723 52	525 7	723 5	. 272	723	525	723	525	723	723	1670	1670	1670
	dist. to pivot	m	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	0.0	0.0	0.0	0.0	0.0
	Z		1	13	3	1 1	13	1	13	1	13	1	13	1	13	1	1	1	1	1
	A		1	27		1	27	1	27	1	27	1	27	1	27	1	1	2	2	2
cryo tgt	element		Al		Al		\mathbf{AI}		Al		$ \mathbf{AI} $		$ \mathbf{A} $		Al		Al	V IV	Al IA	Al
window	thickness	mg/cm2	137		137	7	1.	137	1	137		137		137		137	137	137	137	137
	dist. to pivot	m	0.0		0.0	0	0	0.0		0.0		0.0		0.0		0.0	0.0	0.0	0.0	0.0
	Z		13		0	13	0	13	0	13	0	13	0	13	0	13	13	13	13	13
	A		27		0 2	27	0 2	27	0	27	0	27	0	27	0	27	27	27	27	27
critical	radius	cm	2.06	2.06	6 2.06	6 2.06		2.06 2.0	2.06 2.	2.06 2.	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06
window	dist. to pivot	m	2.58		8 2.58				2.58 2.		2.58	2.58	2.58	2.58	2.58	2.58	2.58	2.58	2.58	2.58
scattering weighting factor	ghting factor		0.50	0.50	05.0	0 = 0.50	0.50		0.50 0.	0.50 0.	0.50 0	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
	run time	hours	108	12	2 31.2		4.8 74	74.4	9.6 1	108	12	240	26.4	240	26.4	9.73	45.6	134.4	91.2	45.6
time	(100% eff.)	days	4.5	0.5	5 1.3		0.2 3	$3.1 \qquad 0$	0.4	4.5	0.5 1	10.0	1.1	10.0	1.1	2.4	1.9	9.9	3.8	1.9
	installation	hours																		
	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	0.0	0.0	0.0	0.0
dose rate at	method 1	urem/hr	1.55	1.53	3 1.87	7 1.60		$1.10 \boxed{1.7}$	$1.70 \qquad 1.$	$1.30 \qquad 1.$	1.86 1	1.48	1.50	1.62	1.54	1.05	0.21	3.10	1.55	0.62
the fence post	method 2	urem/hr																		
(run time)	conservative	urem/hr	1.55	1.53	3 1.87	7 1.60		1.10 1.7	1.70 1.	1.30 1.	1.86	1.48	1.50	1.62	1.54	1.05	0.21	3.10	1.55	0.62
dose per setup		urem	168	18		28	8	82	16 1	141	22	354	40	389	41	61	10	417	141	28
% of annual dose budget	se budget	%	1.7	0.7		$6 \qquad 0.1$		0	0.2	1.4 (0.2	3.5	0.4	3.9	0.4	9.0	0.1	4.2	1.4	0.3
	date f	date form issued.	`	Augus	August 7, 2018	18			authors:		P. Degtiarenko	enko								