BROOKHAVEN NATIONAL LABORATORY PHYSICS DEPARTMENT Subject: ATF Linac Operator Training Reviewed by ES&H Coordinator: Number: 4.0.2 Effective: 08/01/2006 Page 1 of 3 Prepared by: Approved by ATF Head: Chair:

Accelerator Test Facility ATF LINAC Operator Training

ATF Linac Operator Training Checklist #1 (PO-ATF-LINAC1).

ATF Linac Operator Training Checklist #2 (PO-ATF-LINAC2).

ATF Linac Operator Training Checklist #1 (PO-ATF-LINAC1) BNL Accelerator Test Facility

Completion of this training qualifies accelerator system. A Duty Operator						
Trainee name	Life/Guest number			Date		
Policies and Procedures:						
☐ Emergency phone numbers: Police/Fire/Med	cal x2222 or x911, A	TF Control Roo	m x2306, Building Ma	anager (B. Liegel) x2281		
☐ Role as Local Emergency Coordinator (LEC)	and understanding o	f local emergen	cy plan (LEP); trainee	must complete GE-LEC cours		
☐ Minimum of 2 people to be present at ATF wh	enever linac is in op	eration				
☐ Demonstrate proper use of linac high energy	operation checklist, l	ogbooks, keybo	x, and general proced	lural compliance		
☐ Emergency STOP button identification & purp	fication & purpose (Red vs. Blue)		☐ ATF radiation fault response procedure			
☐ Modulator malfunction response procedure	procedure		☐ Power failure response and main circuit breaker location			
☐ Understanding of radiation hazards (prompt v	s. activation), postinç	gs, shielding, ch	pmunks, etc.			
☐ Identification of controlled areas at ATF and re	equirements for train	ing and TLD ba	dges			
☐ Understanding of proper procedure to hand-or	ver operations to nex	t operator (keys	, logbooks, etc)			
Experimental Area Security:						
☐ Demonstrate use of the Area Enable keys (27	/28) and Operations	keys (25/26) for	the control room con	sole		
☐ Demonstrate use of the Reset key (29) when	the Radiation Securi	ty system has b	een tripped			
☐ Demonstrate interlock search & secure process	dures for both Laser	and Radiation s	ecurity of the Experim	nental Hall		
☐ Demonstrate operation of the High Energy Be	am Stop and Laser (JV shutter				
Machine Reset and Turn-Off Procedu	res:					
☐ Demonstrate the ability to reset the RF Modula	ators after a routine	trip				
☐ Demonstrate the ability to reset the Magnet Po	ower Supplies after a	routine trip				
☐ Demonstrate routine turn-off of machine syste	ms and use of check	dist to documen	t it			
☐ Demonstrate emergency turn-off						
Computer Operations:						
☐ Demonstrate the ability to login to the Operation	ons Program					
☐ Demonstrate the ability to select appropriate e	quipment/elements	for beam contro				
☐ Demonstrate the ability to change beam energy	y and use appropria	te diagnostics to	establish correct bea	am operation		
☐ Demonstrate the use of the file Snap/Restore	features to archive n	nachine set poin	ts			
Trainee signature indicates completic	on of the trainin	g and under	rstanding of lina	c policies/procedures:		
Name (print) Life/Guest	# Institution		Signature	Date		
Trainer's name/life#/signature/date:						
☐ TRAINER: Add trainee's name & phon	e number to "Qu	alified DUTY	Operator" list and	notify ESH personnel		

ATF Linac Operator Training Checklist #2 (PO-ATF-LINAC2) BNL Accelerator Test Facility

Trainee name		Life/Guest number		Date
Policies and Procedure				
☐ Completion of PO-ATF-L	INAC1 training ch	ecklist for Duty Operator -	REQUIRED prior to	start of PO-ATF-LINAC2
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Machine Turn-On Proce	edures			
☐ Observe machine turn-or	n procedures and	use of operations checklis	t	
DAY 1 - Perform machin	ne turn-on procedu	ires, using operations che	cklist	
DAY 2 - Perform machin	ne turn-on procedu	ires, using operations che	cklist	
DAY 3 - Perform machin	ne turn-on procedu	ires, using operations che	cklist	
		10 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -		
Beam Alignment:				
☐ Demonstrate				
Machine Reset and Turr	n-Off Procedure	s:		
Demonstrate the ability to				
Demonstrate the ability to				
Demonstrate routine turn-		stems and use of checklist	to document it	
Demonstrate emergency	turn-off			
rainee signature indica	tes completion	of the training and un	derstanding of line	ac policies/procedures
lame (print)	Life/Guest #	Institution	Signature	Date
rainer's name/life#/sigr	nature/date:			
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