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Instrument Training for HFIR Users

INS	STRUMENT				
	CG-1A DEV BEAM	HB-1 PTAX			
	CG-1B Alignment	HB-1A FIE-TAX			
	CG-1D IMAGING	HB-2A POWDER			
	CG-2 GP-SANS	HB-2B NRSF2			
	CG-3 BIO-SANS	HB-2C WAND			
	CG-4C CTAX	HB-2D Development			
	CG-4D IMAGINE	HB-3 TAX			
		HB-3A FOUR-CIRCLE			
INS	STRUMENT AREA ORIENTATION				
	Normal access to instrument area (doors, path, swing gates, parking, etc)				
	General Instrument area layout; nearby instruments (potential interactions)				
	Identification and location of instrument documents				
	Closest location of exits and safety equipment (fire pull boxes, safety glasses, other PPE, etc.) Posted requirements/controls:				
	 Radiological area postings Other hazard signage as applicable to the instrument: chemical, cryogenic, thermal, pressure, vacuum, lasers, magnets, motorized or unguarded equipment (pinch points). 				
INS	STRUMENT OPERATIONS				
	Steps to permit neutron beam: Access sample area Demonstrate proximity alarms or sweep procedure Open and close the instrument shutter				
	 Sample handling at the instrument Changing a sample Location of RadEye™G Local response to RadEye™G alarm Sample storage location Detection of and response to sample contain Restrictions on opening sample contain 				
SAI	PLE MANAGEMENT				
	Requirements for sample check-in with Sample Management Staff prior to beam exposure				
	Sample disposition following experiment (checkout process)				
	Restrictions on removal of samples and/or equipment from ORNL				
RE	SPONSE TO ABNORMAL CONDITIONS AN	· ·			
	Location of radiological monitors in area and response to alarms				
	Location of Oxygen Deficiency Hazard (ODH) monitors in area and response to alarms				
ΕXI	RIMENT REVIEW				
_/\		SS)—hazards controls and required personal protective equipment			
	<u> </u>	Review of Experiment Safety Summary (ESS)—hazards, controls and required personal protective equipment			
	Review of Sample Environment (SE) equipmentoperation, hazards, controls, and contacts for problems				
	Review data collection system operation (brief overview – detailed training will occur once experiment begins)				
	Electrical safety (Users may not perform e	electrical work; user electrical equipment must be ORNL EEI approved;			
	Verify need for Laboratory access – (revie	w sample transport between lab and instrument, JHAs, and training)			

	Local Contact					
	Instrument Scientists					
	Scientific Associates					
	Central Control Room					
	Laboratory Shift Superintendent					
✓ or NA						
RE	RECORD OF COMPLETION					
The User(s) named on this record has received instruction for safe, technical operation of the identified instrument, including orientation to the instrument area, statements of permissions and restrictions, discussion of expectations for sample management, review of response to abnormal conditions and alarms, and communication of hazards and controls.						
Instr	ument Scientist/Staff Signature:	Badge:	Date:			
Following instruction delivered by Instrument Staff, I understand expectations for safe use of the identified in Instrument Staff have responded to my questions and requests for clarification.						
User	r Name (Print):	User Signature:				
	First time use of instrument? YES / NO	User Badge:	Date:			
User Name (Print):		User Signature:				
	First time use of instrument? YES / NO	User Badge:	Date:			
User Name (Print):		User Signature:				
	First time use of instrument? YES / NO	User Badge:	Date:			
User Name (Print):		User Signature:				
	First time use of instrument? YES / NO	User Badge:	Date:			
User	Name (Print):	User Signature:				

CONTACTS

Radiological Control Technicians

This checklist of topics to be included in User instruction is to be implemented with an instrument-specific *Quick Reference Guide for Users*, which provides detail of the content of instruction and remains with the User to be used as a job aid.

The User(s) named above is conducting experimental work managed as IPTS proposal tracking #:

User Badge:

First time use of instrument? YES / NO

Date:

Instrument Staff may assess User knowledge of these topics retained from previous use of the instrument and tailor delivery of training to address knowledge deficiencies. Those topics that are marked with an asterisk, however, are included in training prior to <u>each</u> experiment.