

Approved
ORNL WORK PLAN

Operations, Maintenance and Services



57272

Work Plan Name / Rev: BL11B GONIOMETER PM / 1
Expiration Date: 12/4/2027

WORK SCOPE/DESCRIPTION

Requester (Name/Badge/Division):	Marrs, Robert / 03053994 / X186
Location of work (Bldg/Rm/Other):	8700 / / BL11B
Work Plan Title:	BL11B Goniometer PM
Description of Service/Work Needed: Perform semi-annual lubrication of the kinematic mounts and lift rails.	
Charge Number, if required:	N78211B2
Work Plan Grade/Worktype:	4 / 0
Author (Name/Badge):	Marrs, Robert / 03053994
File Attachments:	

INSTRUCTIONS

Prerequisites/Precautions: Contact Electrical RMs to power off and remove electrical connections. Disconnect cryogenic and pneumatic lines. Brace the rear instrumentation panel with 8020 to keep from falling. Remove railing in front to allow clearance for goniometer removal.
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Directions: Lift goniometer and place on stand. Contact Mechanical RMs to perform maintenance.

Post Work Testing: Replace goniometer after maintenance has been completed. Reinstall cryogenic and pneumatic connections. Contact Electrical RMs to reinstall electrical connections and restore power. Test goniometer lift.

Closeout:

JOB HAZARD EVALUATION

HAZARDS	PERMITS / CONTROLS
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DOCUMENTATION REVIEW AUTHORIZATION
(Approvals are certification of hazards assessment)

Reviewer/Approver Roles	Signature	Date
Accountable Management (Service Provider, Line, Equipment Owner, or Facility Management)	Cross Jr, Bobby Lee	12/4/2022
Task Leader	Marrs, Robert	12/2/2022

Work Package Concurrence

Facility Manager

Operations Supervisor

Facility Manager Approval To Start Work

Facility Manager

Work Start Authorization

Task Leader

Work Acknowledged Complete

Task Leader

Worker Feedback:

WORK DETAILS - Prerequisites/Precautions

Hazards	Permits/Controls	Resources	Dur
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1) - Contact Electrical RMs to power off and remove electrical connections. Disconnect cryogenic and pneumatic lines. Brace the rear instrumentation panel with 8020 to keep from falling.
Remove railing in front to allow clearance for goniometer removal.

Ergonomic Conditions (Contact Stress, Vibration, Posture, Force, Repetitive Motion)	<ul style="list-style-type: none"> Evaluation of work station or Evaluation of work posture/positioning Exposure Assessment: Enter or attach justification to classify exposure scenario as low risk, qualitative exposure assessment (QEA), or requirement to conduct quantitative exposure monitoring (QEM) 	Research Mechanic Electrical	2
WORK DETAILS - Directions			
Hazards	Permits/Controls	Resources	Dur
2) - Lift goniometer and place on stand. Contact Mechanical RMs to perform maintenance.			
Hoisting and Rigging	<ul style="list-style-type: none"> Hard hats Safety shoes Qualified personnel Traffic control 	SNS Instrument Support Technician	2
Manual Material Handling	<ul style="list-style-type: none"> Establish Controls (Guideline) [apply 30-50-30 criteria for a non-repetitive lifting task] <ul style="list-style-type: none"> Reduce weight Decrease load Design work area Facilitate access to material Optimum environment Reduce distance /Provide proper storage facilities Load storage Eliminate manual lifting/lowering Eliminate pushing/pulling – Use lifting aids Other instructions to staff Team Lifting (Guideline) Exposure Assessment: Enter or attach justification to classify exposure scenario as low risk, qualitative exposure assessment (QEA), or requirement to conduct quantitative exposure monitoring (QEM) 		
COVID-19	<ul style="list-style-type: none"> Wear masks and maintain social distancing. 		

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PRE-JOB SAFETY REVIEW GUIDE

ID: 57272

Scope of Work: Review work package/plan to ensure all participants understand the work activity.

Hazards: Review the hazards identified in Job Hazard Evaluation (JHE) / work plan (IOP).

- ε Since the work package / plan was written: 1) Have conditions changed? 2) Are there new hazards? Refer to Field Notes and Focus Areas.

Hazard Controls / Permits: Review:

- ε Written permits for the work activity.
- ε Precautions, step warnings, Hold Points ...
- ε Personal Protective Equipment (PPE)

- ε Work instructions for information - e.g., steps where hazards are introduced.
- ε ORNL subject area requirements - e.g., non-permit hazard controls.

Performing Work:

- ε Discuss group/individual responsibilities for safe & effective work.
- ε Follow work instructions & safety procedures.
- ε Availability/location of materials, tools, etc.
- ε Any previous experiences / lessons learned?
- ε Response if work cannot be performed as planned.
- ε What is the worst thing that could happen?
- ε Are there Potential error traps with the job? → →
- ε Take a minute before: work start & leaving work area.
- ε Work Hand-off / Turnover - workers & Task Leader

→ **Potential Error Traps:**

- ε Time pressures
- ε Distractive environment
- ε High workload
- ε First time evolution
- ε First day back
- ε Vague guidance
- ε Over confidence
- ε Imprecise communications
- ε Work stress

Abnormal Situation Response:

- | Stop Work: Observe an unsafe act, activity or condition that creates an imminent danger.
- | Emergency Response: Discuss egress paths or other responses if problems are encountered.

Field Notes and Focus Areas: (Use this area as a work space to record notes related to new hazards identified in the field or changed conditions. Record feedback in work package/plan information systems.)

By signing below, I am indicating that I have been briefed on the potential hazards associated with completing this job.

Signature / Badge	Date	Signature / Badge	Date