Task or Employee: DIRC Prototype R&D □ Routine □ Non-routine

<u>Retention</u>: Completed Routine JHAMs are retained by the employee and supervisor. Non-routine JHAMs are retained until the task is fully closed out. In the case of an accident, the form is to be retained for use by the review team.

Other relevant safety documents are:

Endstation A Area Hazard Analysis Research Yard Area Hazard Analysis (https://www-internal.slac.stanford.edu/esh/SLACsafety/jham/aha_docs/AHA-B060-61.doc) (https://www-internal.slac.stanford.edu/esh/SLACsafety/jham/aha_docs/AHA-ResearchYard.doc)

Sequence of Basic Job Steps	Potential Hazards	Potential Hazards Controls & Recommended Actions	
Accessing the Research Yard. Entering and working in and around Endstation A	 Exposure to radiation Electrical hazards Trips/slips/falls Uneven floor surfaces Protruding equipment Pipes and other navigation obstacles Noise (difficult to communicate or hear hazard warnings) Limited lighting in Endstation A in evenings and on weekends 	 Have up to date GERT certification and properly wear dosimeter Review the ESA and Research Yard Area Hazard Analysis (AHA) Observe and follow safety rules and regulations established for the area Adhere to safety signage Wear close-toes shoes Touch equipment only under the guidance of a system expert. Be aware of your surroundings; look before you reach or go Know dangers of the materials you are working with by reading MSDS Maintain a clean environment Training: General Employee Radiological Training (GERT) (course #115) Employee Orientation to ES&H (course #219) 	
Use of hand tools (non-powered) such as wrenches, hammers, saws, screw drivers.	Cut hands/knucklesStab woundEye injury	 Wear gloves when practical Use liquid wrench or similar material to pre-loosen tight bolts. Apply force away from your body when prying with hand-tools (like a screwdriver) Wear safety glasses if something may fly into your eye. Keep tools sharp Use the right tool for the job 	
Working in the ESA data monitoring trailer (build. 420)	Electrical hazards Trips/slips/falls	 Review the Area Hazard Analysis (AHA) Observe and follow safety rules and regulations established for the 	

Sequence of Basic Job Steps	Potential Hazards	Controls & Recommended Actions
	Protruding equipment	 area Adhere to safety signage Wear close-toes shoes Touch equipment only under the guidance of a system expert. Be aware of your surroundings; look before you reach or go
Work around Focusing DIRC Prototype	 Movable equipment (bar support frame, electronic crates) and overhead equipment (bar support frame, beam line and support) Risk of bumping into equipment or hitting head Uneven floor surfaces, cables on floor Possible exposure to HeNe laser beam Stepladder access to beamline detectors and standoff box: slip, trip, fall hazard 	 Be aware of your surroundings; look before you reach or go Follow operating procedures Alignment laser is a class Illa HeNe laser, no special training is required. It poses an eye hazard only when looking into the beam for an extended time or when viewed through optics (telescope. magnifier). Do not look into the beam with or without optics. When accessing the beamline detectors or the standoff box, use the ladder, do not step on bar support frame.

Acknowledgements	Print Name	Signature or Initialed	Date
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