Jefferson Lab
Thomas Jefferson National Accelerator Facility

Task Hazard Analysis (THA) Worksheet

(See ES&H Manual Chapter 3210 Appendix T1
Work Planning, Control, and Authorization Procedure)

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Author:	Eugene Pasyuk	Date:	March 16, 2016	Task #: If applicable	

Complete all information. Use as many sheets as necessary

Task Title:	Operation of HYCAL	Task Location:	Hall B
Division:	Physics	Department: Hall B	Frequency of use: Daily
Lead Worker:	Eugene Pasyuk		
Mitigation already in place: Standard Protecting Measures Work Control Documents	Standard Hall B protective measures and appropriate personnel training including but not limited to SAF111 PRad COO, PRad ESAD		

Sequence of Task Steps	Task Steps/Potential Hazards	Consequence Level	Probability Level	Risk Code (before mitigation)	Proposed Mitigation (Required for Risk Code >2)	Safety Procedures/ Practices/Controls/Training	Risk Code (after mitigation
1	Operation of HYCAL High Voltage for PMT. Potential hazards: • Electrical shock from touching exposed wires • Rapid heat buildup inside the HYCAL enclosure if chiller is not running may cause damages to the equipment.	H	L	3	• Hardware interlocks, • Personnel training, setting boundaries around equipment.	• All maintenance and repair work inside HYCAL enclosure is done by trained personnel with the HV off. • Interlocks disable HV when enclosure is open. • Interlocks disable HV if the chiller is not running or excessive humidity in the HYCAL enclosure in case of coolant leak.	1

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Sequence of Task Steps	Task Steps/Potential Hazards	Consequence Level	Probability Level	Risk Code (before mitigation)	Proposed Mitigation (Required for Risk Code >2)	Safety Procedures/ Practices/Controls/Training	Risk Code (after mitigation
2	Operation of the HYCAL transporter. Potential hazards: • Unbalanced load on the drive train may cause HYCAL to fall off • Personnel may get injure in the vicinity of the moving HYCAL and its drive train	H	L	3	• Hardware interlocks • Personnel training • Setting boundaries around equipment • Visual monitoring while in motion	Transition of HYCAL between operational and storage position must be performed by authorized personnel only.	1

Highest Risk Code before Mitigation:	3	Highest Risk Code after Mitigation:	1

When completed, if the analysis indicates that the Risk Code before mitigation for any steps is "medium" or higher (RC≥3), then a formal Work Control Document (WCD) is developed for the task. Attach this completed Task Hazard Analysis Worksheet. Have the package reviewed and approved prior to beginning work. (See ES&H Manual Chapter 3310 Operational Safety Procedure Program.)

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Form Revision Summary

Periodic Review – 08/13/15 – No changes per TPOC
Revision 0.1 – 06/19/12 - Triennial Review. Update to format.
Revision 0.0 – 10/05/09 – Written to document current laboratory operational procedure.

ISSUING AUTHORITY	TECHNICAL POINT-OF-CONTACT	APPROVAL DATE	REVIEW DATE	REV.
ESH&Q Division	Harry Fanning	08/13/15	08/13/18	0.1

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