

Task Hazard Analysis (THA) Worksheet

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

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Author:	Holly Szumila-Vance	Date:	October 20, 2020	Task #: If applicable	
Complete all information. Use as many sheets as necessary					
Task Title:	GEM detector for LAD experiment	Task Location:	Hall C target platform on the SHMS side, level with target		
Division:	Physics	Department:	Hall C	Frequency of use:	Daily
Lead Worker:	Florian Hauenstein				
Mitigation already in place: Standard Protecting Measures Work Control Documents					

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)
	Electrical shock from 4kV high voltage supplying GEM detector	M	L	2	Use of current limited high voltage supply at 4kV. Use of SHV cables and connectors. Exposed high voltage wrapped with electrical tape.	High voltage cables are only connected or disconnected to/from detectors, power supplies, and patch panels when power supply is not energized.	0
	Use of compressed Ar/CO2 gas	M	L	2	Gas supplied through a pressure regulator attached to the gas bottle with flow limited by a flow meter.	Setup, connection, or disconnection of the gas shall only be done by individuals authorized by this OSP.	0

Highest Risk Code before Mitigation:	2	Highest Risk Code after Mitigation:	0
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When completed, if the analysis indicates that the [Risk Code](#) before mitigation for any steps is “medium” or higher ($RC \geq 3$), 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 – 08/29/18 – No changes per TPOC

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	08/29/18	08/29/21	0.1

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For questions or comments regarding this form contact the Technical Point-of-Contact [Harry Fanning](#)