

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:	03/24/2016	Task #: If applicable	
Complete all information. Use as many sheets as necessary					
Task Title:	Operation od PRAD Vacuum chamber	Task Location:	Hall B		
Division:	Physics	Department:	Hall B	Frequency of use:	weekly
Lead Worker:	Denny Insley				
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)
	PRad experiment a large ~5m long vacuum chamber extending from the target to the PRad detector system. There is a 1.7m diameter 63 mil Al. window at one end of the vacuum chamber, just before the PRad detectors. When this chamber is under vacuum it has very large stored energy. The accidental rapture of the window causes a release of large stored energy. This present hazard to the personal and equipment	H	L	3	A window cover has been fabricated from 1/8" thick aluminum to protect the window from damage due to something falling into the window. This cover will be attached to the window at all times except when the experiment is running. The window will be installed or removed only when there is no vacuum in the tank. This will remove the stored energy in the tank so people can work near the window.	The PRad experiment is set up on level 1 of the Hall B Space Frame. This area will be roped off whenever the tank is under vacuum and safety glasses and hearing protection will be required to enter level 1. All operations near the window should be performed by authorized personnel only. The operations include ibut not limited to installation and removal of widow cover, connection of the beam pipe to the window.	2

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Sequence of Task Steps	Task Steps/Potential Hazards	<u>Consequence Level</u>	<u>Probability Level</u>	<u>Risk Code</u> (before mitigation)	Proposed Mitigation (Required for <u>Risk Code</u> >2)	Safety Procedures/ Practices/Controls/Training	<u>Risk Code</u> (after mitigation)

Highest Risk Code before Mitigation:

3

Highest Risk Code after Mitigation:

2

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

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