

Task Hazard Analysis (THA) Worksheet

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

Click
For Word

Author:	Xiangdong Wei	Date:	08/23/2016	Task #: If applicable	
Complete all information. Use as many sheets as necessary					
Task Title:	• Testing Electronic Instruments in HDice Lab	Task Location:	Bldg. 58, Rm.1142		
Division:	Physics	Department:	Hall B	Frequency of use:	monthly
Lead Worker:	P. Bonneau, B. Eng, X. Wei, and members in the HDice Group and Detector Support Group.				
Mitigation already in place: Standard Protecting Measures Work Control Documents	SAF 104 – LT&T SAF 103 - ODH PPE				

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	Power off and disconnect the NMR rack. May exposure to Class 2 Hazards, current upto 120ADC, if not done.	M	L	2	<ol style="list-style-type: none"> 1. Make magnet safe. 2. Disconnect (unplug) the rack. 	<ol style="list-style-type: none"> 3. De-energize superconducting magnet to make it safe, if magnet is presented. 4. Turn-off related power supply. 5. Turn off all instruments on the rack, follow the manual. 6. Unplug the rack. 	N*
2	Install components on the rack. If not handling properly, personal injury may occur.	L	L	1		Wear PPE such as safety shoes, gloves, etc.	1
3	Connect components with power switch off. Personal injury may occur.	L	L	1		Wear PPE such as safety shoes, gloves, etc.	1

Task Hazard Analysis (THA) Worksheet

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

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)
4	Plug-in, energize the rack and turn on the test related instruments only. Personal injury may occur.	M	L	2		The current of all superconducting magnet power used in HDice lab are 0 (by default) when switched on. Follow operation manuals and existing procedures.	1
5	Test the integrated equipment with dummy load.	M	L	2	Running tests on dummy load first to protect connected equipment.	Follow operation manuals and existing procedures.	1
6	Switch to real load.	L	L	1		Wear PPE such as safety shoes, gloves, etc. Follow operation manuals and existing procedures.	1
7	Test the integrated equipment with real load. May damage other instruments, if initial settings are wrong.	M	L	2		Follow operation manuals and existing procedures.	1
8	Turn off instruments.	M	L	2		Follow operation manuals and existing procedures.	1

Highest Risk Code before Mitigation:

2

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](#).)

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

This document is controlled as an on line file. It may be printed but the print copy is not a controlled document. It is the user's responsibility to ensure that the document is the same revision as the current on line file. This copy was printed on 9/15/2016.

Task Hazard Analysis (THA) Worksheet

(See [ES&H Manual Chapter 3210 Appendix T1](#)

[Work Planning, Control, and Authorization Procedure](#))

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

This document is controlled as an on line file. It may be printed but the print copy is not a controlled document. It is the user's responsibility to ensure that the document is the same revision as the current on line file. This copy was printed on 9/15/2016.