

ISSUING AUTHORITY	CHAPTER AUTHOR	APPROVAL DATE	EFFECTIVE DATE	EXPIRATION DATE	REV.	Page 1 of 2
ESH&Q	Mary Jo Bailey					

DOCUMENT ID:	3210-T3 Task Hazard Analysis (THA) Worksheet
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THA Author:	J. Dahlberg				
Date:	June 2, 2008	Task #:		Frequency of use:	Annually
Complete all information. Use as many sheets as necessary					

Task Location:	Accelerator survey penetrations	Task Title:	Penetration work
Division:	Engineering	Prepared by:	Dahlberg
Department:	Alignment/Metrology	Reviewed by (employee):	
Supervisor:	C. Curtis	Approved by:	
Standard Requirements: (PPE, TOSPs, SOPs, etc.)	Refer to EH&S manual chapters 6131(fall protection, 6620(gloves), along with the general THA for survey tasks.		

Sequence of Job Steps	Potential Hazards	Risk Code before mitigation	Proposed Mitigation Safe Procedures/Practices/Controls	Risk Code after mitigation
1) Remove top penetration cover.	Back strain, pinch hazard.	2	Two man rule, gloves.	1
2) Remove lower penetration cover.	Debris in eyes, falling. Injury from dropped equipment above.	2	Prior to removal, check for debris inside tube from above, install temporary cover above. Use platform ladder with spotter to exchange tools and hardware, wear safety glasses.	1
3) Set up tripod/equipment, perform survey.	Equipment damage from dropping through penetration, personnel injury from falling in penetration or dropping equipment through penetration onto personnel.	2	Cordon area below penetration with safety cones, and "work above stay clear" sign. Ensure temporary cover above is in place while setting up cones and targeting below and while installing survey equipment above. Remove temporary cover only while positioning instrument over monument and checking closure. Person monitoring area above or "do not remove" sign while on break.	1

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When completed if the analysis indicates that the Risk Code before mitigation for any of the steps of this task is “medium” or higher (RC≥3), then develop a formal Work Control Document (WCD) (See [ES&H Manual Chapter 3310 Work Control Documents](#)) for the task, attach this THA, have it reviewed and approved prior to beginning the work in accordance to [ES&H Manual Chapter 3310 Work Control Documents](#).