Penetration Safety: Penetration Permit

Work Request # (if applicable): N/A_____ Date Permit Submitted: 12/5/07_____

General Information

Area/location	Date(s) work will be performed	Job description (location of penetration, material to be penetrated, tools, etc)
BTH	12/10/07 to 12/21/07	Drill floor and wall for survey monument installation.
Responsible line manager or designee Name/Organization)	Phone #	Other information (e.g., depth of penetration, etc)
Catherine LeCocq, SLAC / AEG	650-926-2335	See AEG website for procedure: http://www-group.slac.stanford.edu/met/Align/TechAnalysis/Monumentation_Drilling_Specifications.pdf

Class 1 Penetration Checklist (N/A)

Hollow walls, ceilings or floors, or 2 inches or less into solid material

	Yes	N/A
Checked other side of walls, under floors, or through false ceilings for hazards?	____	____
Verified stud locations?	____	____
Non-conductive tools to be used?	____	____
Masonry bits and hand tools to be used for initial penetration?	____	____
Drill bit stops or short drill bits (2 inches or less) to be used for solid material?	____	____
Electrical tools equipped with GFCIs or double insulated?	____	____
GFCIs tested?	____	____
Appropriate PPE specified (see page 3) and obtained?	____	____
PPE inspection(s) up to date?	____	____
Penetration is within a radiologically controlled area or a radioactive material management area? *If yes, complete the "Radiation Safety" portion of the form.*	____	____
Penetration is part of accelerator shielding (for example: the Accelerator Housing Structure, End Station A Hall, Klystron Gallery Floor)? *If yes, complete the "Radiological Safety" section of the form.*	____	____
A Radiation Safety Work Control Form (RSWCF) is required for all penetrations that meet any of the following conditions (contact the area safety officer for more information):	____	____
• Into or through non-concrete radiation shielding		
• Into concrete radiation shielding, with penetration exceeding 2 inches in diameter		
• Into concrete radiation shielding, with penetration exceeding 6 inches deep		
• Into concrete radiation shielding where penetration is not re-filled with a dense material (e.g. concrete or steel)		
• All the way through concrete radiation shielding		
Checklist completed by: _____ Date: _____		

Complete "Hazards and Required Controls" section.

Class 2 Penetration Checklist

Greater than 2 inches into solid material

	Yes	N/A
Reviewed historical records, engineering plans, and drawings?		X
Area responsible person/designee, customer/requester, or other personnel consulted?	X	
Visually inspected proposed location of penetration?	X	
Checked other side of walls, under floors, or through false ceilings for hazards?		X
De-energized and locked/tagged-out energy sources as required?		X
NDT used to determine if additional hazards exist? *If yes, list results under "Hazards."*		X
NDT used to determine wall reinforcement?		X
Electrical tools equipped with GFCI or double-insulated?	X	
GFCIs tested?		X
Appropriate PPE specified (see page 3) and obtained?	X	
PPE inspection(s) up to date?	X	
Short drill bits used or equipment marked to limit penetration depth?	X	
Penetration is within a radiologically controlled area or a radioactive material management area. *If yes, complete the "Radiological Safety" section of the form.*		X
Penetration is part of accelerator shielding (for example: the Accelerator Housing Structure, End Station A Hall, Klystron Gallery Floor)? *If yes, complete the "Radiological Safety" section of the form.*		X
A Radiation Safety Work Control Form (RSWCF) is required for all penetrations that meet any of the following conditions (contact the area safety officer for more information):		X
• Into or through non-concrete radiation shielding		
• Into concrete radiation shielding, with penetration exceeding 2 inches in diameter		
• Into concrete radiation shielding, with penetration exceeding 6 inches deep		
• Into concrete radiation shielding where penetration is not re-filled with a dense material (e.g. concrete or steel)		
• All the way through concrete radiation shielding		

Checklist completed by: Catherine LeCocq Date: 12/5/07

Complete "Hazards and Required Controls" section.

Hazards and Required Controls

May reference JHAM or AHA if hazards/controls are documented there

Hazards; *see AEG routine field JHAM: http://www-group.slac.stanford.edu/met/Align/Safety/JHAM_AEG_Field.pdf*

Type and size of energy sources present (including results from NDT, if used):

Hazards specific to the tools that will be used:

Work environment hazards (such as moisture, lead, asbestos, etc.):

Other hazards:

Controls; *see AEG routine field JHAM: http://www-group.slac.stanford.edu/met/Align/Safety/JHAM_AEG_Field.pdf*

Procedural requirements:

Types and classification of PPE:

Other controls:

Complete the "Radiological Safety" section if appropriate, and complete the Review, Approval, and Authorization section at the end of this form.

Radiological Safety (N/A)

Radiological Survey, RP Field Operations Group, Ext. 4299

This section to be completed by RP if the penetration will be within a radiologically controlled area, radioactive materials management area, or accelerator housing. Please allow two days.

☐ Pre-work survey required ☐ Radiological HEPA vacuum cleaner required

☐ Additional requirements for this penetration:

☐ Penetration does not need special requirements.

Checked by: _____ Date: _____

Review, Approval, and Authorization

Any deviation from the scope of work identified on this permit requires re-validation of this permit. This penetration permit expires 30 days after issuance.

Class 1 & 2 Authorizations

I have discussed the hazards and controls with the workers and verified that they are trained/qualified to perform the work.

Catherine LeCocq _____ DATE: 12/05/2007
Responsible line manager/designee signature

Additional Authorization for Class 2

Bob Law _____ DATE: 12/6/07
Area responsible person (e.g. area or building manager)

Radiological Safety (N/A)

Radiological Survey, RP Field Operations Group, Ext. 4299

This section to be completed by RP if the penetration will be within a radiologically controlled area, radioactive materials management area, or accelerator housing. Please allow two days.

☐ Pre-work survey required ☑ ~~Radiological HEPA vacuum cleaner required~~ NOT NECESSARY R. Russ 14 Dec 2007

☐ Additional requirements for this penetration:

☐ Penetration does not need special requirements. .

Checked by: Aaron Gooch Date: 12/14/07

Review, Approval, and Authorization

Any deviation from the scope of work identified on this permit requires re-validation of this permit. This penetration permit expires 30 days after issuance.

Class 1 & 2 Authorizations

I have discussed the hazards and controls with the workers and verified that they are trained/qualified to perform the work.

Catherine LeCocq LeCocq DATE: 12/05/2007
Responsible line manager/designee signature

Additional Authorization for Class 2

Bob Law DATE: 12/6/07
Area responsible person (e.g. area or building manager)