

Penetration Safety: Penetration Permit

Work Request # (if applicable): _____ Date Permit Submitted: _____

General Information

Area/location	Date(s) work will be performed	Job description (location of penetration, material to be penetrated, tools, etc)
FFE (LCLS)	6-4-09 - 6-30-09	DRILL AND PLACE SURVEY MONUMENTS IN WALL
Responsible line manager or designee Name/Organization)	Phone #	Other information (e.g., depth of penetration, etc)
HAL TOMPKINS	3948	2 1/8" DEPTH

Class 1 Penetration Checklist

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?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Verified stud locations?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Non-conductive tools to be used?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Masonry bits and hand tools to be used for initial penetration?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Drill bit stops or short drill bits (2 inches or less) to be used for solid material?	<input type="checkbox"/>	<input type="checkbox"/>
Electrical tools equipped with GFCIs or double insulated?	<input type="checkbox"/>	<input type="checkbox"/>
GFCIs tested?	<input type="checkbox"/>	<input type="checkbox"/>
Appropriate PPE specified (see page 3) and obtained?	<input type="checkbox"/>	<input type="checkbox"/>
PPE inspection(s) up to date?	<input type="checkbox"/>	<input type="checkbox"/>
Penetration is within a radiologically controlled area or a radioactive material management area? <i>If yes, complete the "Radiation Safety" portion of the form.</i>	<input type="checkbox"/>	<input type="checkbox"/>
Penetration is part of accelerator shielding (for example: the Accelerator Housing Structure, End Station A Hall, Klystron Gallery Floor)? <i>If yes, complete the "Radiological Safety" section of the form.</i>	<input type="checkbox"/>	<input type="checkbox"/>
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):	<input type="checkbox"/>	<input type="checkbox"/>
<ul style="list-style-type: none"> • 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.

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Class 2 Penetration Checklist

Greater than 2 inches into solid material

	Yes	N/A
Reviewed historical records, engineering plans, and drawings?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Area responsible person/designee, customer/requester, or other personnel consulted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Visually inspected proposed location of penetration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Checked other side of walls, under floors, or through false ceilings for hazards?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
De-energized and locked/tagged-out energy sources as required?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
NDT used to determine if additional hazards exist? <i>If yes, list results under "Hazards."</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
NDT used to determine wall reinforcement?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Electrical tools equipped with GFCI or double-insulated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
GFCIs tested?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Appropriate PPE specified (see page 3) and obtained?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
PPE inspection(s) up to date?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Short drill bits used or equipment marked to limit penetration depth?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Penetration is within a radiologically controlled area or a radioactive material management area. <i>If yes, complete the "Radiological Safety" section of the form.</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Penetration is part of accelerator shielding (for example: the Accelerator Housing Structure, End Station A Hall, Klystron Gallery Floor)? <i>If yes, complete the "Radiological Safety" section of the form.</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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):	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<ul style="list-style-type: none"> • 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: <u>Michael Rogers</u> Date: <u>6-4-09</u>		

Complete "Hazards and Required Controls" section.

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Hazards and Required Controls

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

Hazards

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

110V

Hazards specific to the tools that will be used:

DRILL 2 1/8" HOLES IN WALL & FLOOR

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

NA

Other hazards:

Controls

Procedural requirements:

CHECK ALL EQUIPT. BEFORE USE

Types and classification of PPE:

HARD HAT, STEEL TOE BOOTS, SAFETY GLASSES, GLOVES, &
HEARING PROTECTION.

Other controls:

VACUUM

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

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Radiological Safety

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:

4 June 09

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.

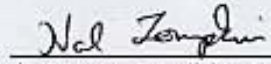
Class 1 & 2 Authorizations

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

Responsible line manager/designee signature

DATE: _____

Additional Authorization for Class 2


Area responsible person (e.g. area or building manager)

DATE: 6/4/09