

Penetration Safety: Penetration Permit

Work Request # (if applicable): \_\_\_\_\_ Date Permit Submitted: 9/13/07

**General Information**

Area/location	Date(s) work will be performed	Job description (location of penetration, material to be penetrated, tools, etc)
linec Sector 25	9/13/07 9/14/07	drill 3 monuments 2 concrete walls 1x floor Hilti hammer drill
Responsible line manager or designee Name/Organization	Phone #	Other information (e.g., depth of penetration, etc)
Catherine LeCocq MET/REG	2335	2" or less

**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?	___	<u>x</u>
Verified stud locations?	___	<u>x</u>
Non-conductive tools to be used?	<u>x</u>	___
Masonry bits and hand tools to be used for initial penetration?	___	<u>x</u>
Drill bit stops or short drill bits (2 inches or less) to be used for solid material?	<u>x</u>	___
Electrical tools equipped with GFCIs or double insulated?	<u>x</u>	___
GFCIs tested?	<u>x</u>	___
Appropriate PPE specified (see page 3) and obtained?	<u>x</u>	___
PPE inspection(s) up to date?	<u>x</u>	___
Penetration is within a radiologically controlled area or a radioactive material management area? If yes, complete the "Radiation Safety" portion of the form.	<u>x</u>	___
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):	___	___
<ul style="list-style-type: none"> <li>• Into or through non-concrete radiation shielding</li> <li>• Into concrete radiation shielding, with penetration exceeding 2 inches in diameter</li> <li>• Into concrete radiation shielding, with penetration exceeding 6 inches deep</li> <li>• Into concrete radiation shielding where penetration is not re-filled with a dense material (e.g. concrete or steel)</li> <li>• All the way through concrete radiation shielding</li> </ul>	___	___
Checklist completed by: <u>Catherine LeCocq</u>	Date: <u>9/13/07</u>	

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?	_____	_____
Area responsible person/designee, customer/requester, or other personnel consulted?	_____	_____
Visually inspected proposed location of penetration?	_____	_____
Checked other side of walls, under floors, or through false ceilings for hazards?	_____	_____
De-energized and locked/tagged-out energy sources as required?	_____	_____
NDT used to determine if additional hazards exist? <i>If yes, list results under "Hazards."</i>	_____	_____
NDT used to determine wall reinforcement?	_____	_____
Electrical tools equipped with GFCI or double-insulated?	_____	_____
GFCIs tested?	_____	_____
Appropriate PPE specified (see page 3) and obtained?	_____	_____
PPE inspection(s) up to date?	_____	_____
Short drill bits used or equipment marked to limit penetration depth?	_____	_____
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>	_____	_____
Penetration is part of accelerator shielding (for example: the Accelerator Housing Structure, End Station A Hall, Dynatron Gallery Floor)? <i>If yes, complete the "Radiological Safety" section of the form.</i>	_____	_____
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):	_____	_____
<ul style="list-style-type: none"><li>• Into or through non-concrete radiation shielding</li><li>• Into concrete radiation shielding, with penetration exceeding 2 inches in diameter</li><li>• Into concrete radiation shielding, with penetration exceeding 6 inches deep</li><li>• Into concrete radiation shielding where penetration is not re-filled with a dense material (e.g. concrete or steel)</li><li>• All the way through concrete radiation shielding</li></ul>		
Checklist completed by: _____	Date: _____	

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):

N/A

Hazards specific to the tools that will be used:

noise, flying debris

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

possible reduction in concrete dust

Other hazards:

N/A

#### **Controls**

Procedural requirements: use indicator to control 2" depth

Types and classification of PPE: eye protection  
ear protection

Other controls:

use radian vac to clean dust/dust

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:

CALLED OHP OK'D

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.

  
\_\_\_\_\_  
Responsible line manager/designee signature

DATE: 9/13/07

**Additional Authorization for Class 2**

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

DATE: 9-13-07