

Penetration Safety: Penetration Permit

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:

~~Flying Debris,~~
Rotating Drill Bit

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

~~Asbestos~~ Flying Debris

Other hazards:

N/A

Controls

Procedural requirements:

Use depth gauge set to 2".

Types and classification of PPE:

Eye Protection, Gloves

Other controls:

N/A

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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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, Klystron 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">• 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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Work Request # (if applicable): N/A Date Permit Submitted: 12-11-08

General Information

Area/location	Date(s) work will be performed	Job description (location of penetration, material to be penetrated, tools, etc)
NEH Laser Room	12-11-08 to 12-15-08	Drill holes in concrete walls to set 1/2" x 13 anchors
Responsible line manager or designee Name/Organization)	Phone #	Other information (e.g., depth of penetration, etc)
Hans Infeld/AEG	x3472	≤ 2"

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 type="checkbox"/>	<input checked="" type="checkbox"/>
Verified stud locations?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Non-conductive tools to be used?	<input 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 checked="" type="checkbox"/>	<input type="checkbox"/>
Electrical tools equipped with GFCIs 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"/>
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 checked="" 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 checked="" 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"/>
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Checklist completed by: <u>Hans Infeld</u>	Date: <u>12-11-08</u>	

Complete "Hazards and Required Controls" section.