Penetration Safety: Penetration Permit	2 27 22
Work Request # (if applicable):	Date Permit Submitted: 2-27-09
General Information	

Area/location	Date(s) work will be performed	Job description (location of penetration, material to be penetrated, tools, etc)		
LINAC Sec 18,19,20	3-2-09	Set Hilt: anchors in walls and AEG Floor monuments		
Responsible line manager or designee Name/Organization)	Phone #	Other information (e.g., depth of penetration, etc)		
Hans Imfeld AEG/MET	3472	<2"		

Class 1 Penetration Checklist

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

eral ingermant with party of the control of the con	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.	V	_
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 diam 	otor	
 Into concrete radiation shielding, with penetration exceeding 6 inches deep 	etei	
 Into concrete radiation shielding where penetration is not re-filled with a dens- concrete or steel) 	e mate	rial (e.g.
All the way through concrete radiation shielding, ///		
Checklist completed by: Date: (7-27	7-09

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?	_	_
Area responsible person/designee, customer/requester, or other personnel consulted?	1	
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?		
If yes, list results under "Nazards."		
NDT used to determine wall reinforcement?		
Electrical tools equipped with GFCI or double-insulated?		
GFCIs tested?		- CX
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. If yes, complete the "Radiological Safety" section of the for	m	
Penetration is part of accelerator shielding (for example: the Accelerator Housi Structure, End Station A Hall, Klystron Gallery Floor)? If yes, complete the "Radiological Safety" section of the form.	ing	
A Radiation Safety Work Control Form (RSWCF) is required for all		
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 Into or through non-concrete radiation shielding Into concrete radiation shielding, with penetration exceeding 2 inches in di 	ameter	
 Into concrete radiation shielding, with penetration exceeding 6 inches deep 		
 Into concrete radiation shielding where penetration is not re-filled with a deconcrete or steel) 		erial (e.g.
All the way through concrete radiation shielding		
Checklist completed by:	9:\	
	1	

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):

None

Hazards specific to the tools that will be used: Flying Debris, Noise

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

Possible irradiated concrete

Other hazards:

Controls

Procedural requirements: Check GFCI, Use depth gause

Types and classification of PPE: Sacety glasses, Hearing Protection

Other controls: Use Rad 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 material management area, or accelerator housing. Please allow two days.
Pre-work survey required Radiological HEPA vacuum cleaner required
Additional requirements for this penetration: OK to work to Sector 20-4
See RWP For additional instructions past Sector 2
Penetration does not need special requirements
Checked by: Date: 2 March 05
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. DATE: 2-27-09
Responsible line manager/designee signature
Additional Authorization for Class 2
DATE:
Area responsible person (e.g. area or building manager)