## **Digging and Excavations Permit procedure**

Permits are required on JLAB property for any mechanized excavations or excavations using hand tools that penetrate the ground greater than 12 inches.

A permit does not guarantee that a utility is not present. All precautions need to be taken to safe guard individuals during the digging or excavation activity.

## **Policy:**

Excavation, digging, boring into soil or demolition at Jefferson Lab shall be performed only after utilities have been located and marked by a competent person except for the use of hand tools less than 12 inches into the ground.

#### **Instructions:**

- 1. Obtain and print a copy of the instructions and permit from the Facilities web page: http://www.jlab.org/fm under "Fillable Forms"
- 2. Filling out Page 1
  - a. At the top of the page enter the date the permit is required.
  - b. In section "I. Requester"
    - i. Fill in the Company or JLab group that is going to be performing the work
    - ii. The contact phone number for the Company or JLab group
    - iii. The location of the Dig
    - iv. Desired start date of work
    - v. Purpose of digging or excavation
    - vi. The supervisor of the dig or excavation work and a contact phone number
    - vii. If a work order was submitted, add the number in the appropriate box
    - viii. Provide a Project tile
    - ix. If applicable, provide an account code
    - x. How to Identify work:
      - Print a view from the Basic Site Plan PDF file (available from the Facilities
        Management "Handy Links" web page) that shows the area of excavation. Contact
        Facilities Management Drafting (or call 7400) if you are unable to download the
        drawing or don't understand use of the Utility Layers. Clearly indicate where the work
        is to occur.
      - 2. Attach the drawing to the back of the permit request

#### 3. Filling out Page 2

- a. Subject Matter Experts Approval- section II
  - i. System Matter Experts must review and sign off on the permit prior to having a locating company contacted to mark the utilities.
  - ii. If work is to be done within the Accelerator site a signature from Accelerator OPS is required. See page three of the permit request for authorized individuals
  - iii. If work is to be done within the Accelerator site or a surface that functions as a physical barrier to a radiologically-controlled area a signature from RADCON is required. See page three of the permit request for authorized individuals
  - iv. For all permit requests, authorized Facilities Subject Matter Experts signatures are required

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for Electrical, Chilled, Cooling, Low Conductivity Water, Potable Water, Sewer, Communications and Data lines, Stormwater, Fire Protection and Life Safety Systems and Natural Gas systems. See page three of the permit request for authorized individuals.

- v. For Building and Support structures an authorized Facilities Structural Expert signature is required. See page three of the permit request for authorized individuals.
- vi. If interruption or a potential of interruption to building operations, the appropriate Building Manager's signature is required.
- vii. A Building Manager's signature is required if building operations are impacted.

#### b. Locator - section III

- i. Fill out Company Name and Technician Name fields
- ii. Check appropriate box indicating consistency of field observation with Basic Site Plan sketch (also see paragraph "vi" below)
- iii. Enter equipment specifics as indicated
- iv. A sketch produced from the latest version of the <u>BASIC SITE PLAN</u> ("BSP") file will be provided to the locator and must be used to show verified locations found in the field.
- v. Enter date of field work
- vi. Check "Yes" in the "Additional Location or Verification Required" field if inconsistencies between observation and provided information were noted (also see paragraph "ii" above)
- c. TR, Project Mgr, Inspector or Subcontractor Information section IV
  - i. A JLab TR or contact name and phone number must be entered.
  - ii. After the locator has returned the annotated dig permit sketch to the TR the TR shall "Walk Down the Marks"
  - iii. If there are any inconsistencies found then the TR shall investigate and resolve the conflicts to the point that he/she feels that excavation may proceed safely and check the appropriate box on the Dig Permit Form.
  - iv. If no inconsistences are found and the TR is confident that the marks are fully consistent with the BSP then he/she shall check the appropriate box on the Dig Permit.
  - v. Facilities will notify the requester after the final approval signature is obtained.
- 4. Filling out Page 3 Final Approval section V.
  - i. Check page 3 to verify the Director of Facilities or designee has signed and dated the permit. Also read and communicate any comments added to the signature area.
  - ii. Do not use mechanized equipment within 2 feet of utility markings. Hand digging is required. If hand digging is not possible, see facilities TR for alternative methods.
  - b. If facilities assisted in the permit process, the TR, Project Manager, Inspector must field verify the utilities with the requester after the locating company has marked the utilities and prior to excavation.
  - c. After work is completed.

Return entire permit to Facilities Drafting (SSC Building, room 75) after completion of digging/excavating activities. If additional utilities are located or encountered (or marked utilities are not found in their expected locations) then the Requester shall provide an "as-built" sketch to Facilities Drafting precisely detailing the location(s) of all utilities that were found to not be in the location expected.

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# Jefferson Lab Facilities Management

Request Date:	
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# DIGGING AND EXCAVATING PERMIT REQUEST

Permits are required on JLab property for: any mechanized excavations or any excavation using hand tools that penetrate the ground greater than 12 inches.

Submit request to Facilities Management at least seven days before needed start date.

This permit is valid for 14 days from the approval date or for the duration of the project when the group performing the work has maintained continuous possession of the site, and the original location markings are intact and there have been no changes to the proposed excavation location; changes require a newpermit.

DO NOT start work until you have received a signed, approved copy of this document.

	I. Requester			
Company or JLab Group performing work:	Pho	ne nber:		
Location of dig	Desi start	red date:		
Purpose of digging				
Supervisor of dig:	Phone number			
Work Order Number	Project Title: Account Code:			
For exterior work undergr the aerial photo. Mark on	For exterior work underground, obtain a Basic Site Plan drawing from Facilities with known utilities overlaid on the aerial photo. Mark on this drawing or use project drawings to show area of excavation.			

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II. SME Approval

	II. SIVIE Approval		
System	Comment	Reviewed/Approved By	Date
Accelerator OPS	Required for any work within the accelerator fence		
RADCON	Required for any work within the accelerator fence and on any structure or surface that		
	functions as a physical barrier to a		
	radiological-controlled area		
Electrical	All Permits		
Chilled, Cooling, Low	All Permits		
Conductivity Water			
Potable Water	All Permits		
Sewer	All Permits		
Communications/Data	All Permits		
Stormwater	All Site		
Structural	Within structures		
Fire Protection/Life Safety	All Permits		
Systems			
Natural Gas	All Permits		
Other – Bldg Manager	If Applicable		
Comments:			
	III. Locator		

	III. Locator	
Name of locate service used:	Technician name:	
Technician (check 1):	☐ Field observation <i>are</i> consistent with provided sketch(initial) ☐ Field observation <i>are not</i> consistent with provided sketch; TR notified	(initial)
Locating equipment used:	Make/Model Serial Number: Cal	ibration Due Date:
Site or building drawing(s) used:		
Date utilities located & marked:	Additional location or verification required?	s • No
	IV. TR, Project Manager, Inspector or Subcontractor	
JLab TR/contact	Phone number:	
☐ The marks	on the marks" and (check 1): s are consistent with the Basic Site Plan(initial) or; ncies were noted and have been resolved as indicated on the sketch	(initial)
Comments/ Notes		
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	V. Facilities Management. Approval
	Date:
Comments:	
a marked utili at least 2 fee	echanized equipment within 2 feet of utility line markings. If you need to excavate near ty line, carefully expose the utility line by hand digging and keep mechanized equipmen at away from the line at all times. If this cannot be done, you must obtain TR approva

before deviating from this requirement.	
Non-Hand Dig Method:	
TR Approval:	Date:
A copy of the Signed Permit is to be provid Permit and As-Built Drawings (if any) Return	<b>3</b> ( <b>3</b> , , , , , , , , , , , , , , , , , , ,

By:\_\_\_\_\_\_Date: \_\_\_\_

# **Authorized SMEs**

System	SME Department	SMEs
Accelerator OPS	Accelerator OPS	Shawn Frierson/Chris
		Humphry
RADCON	Required for any work within the accelerator	Adam Stavola/Pavel
	fence and on any structure or surface that functions as a physical barrier to a radiologically-controlled area	Degtiarenko/David Hamlette
Electrical	Facilities - FME	Paul Powers/Jason
		Willoughby
Chilled, Cooling, Low	Facilities - FMM/FMO	Carroll Jones/Mike Sprouse
Conductivity Water		
Potable Water	Facilities - FMF/FMFS/FMO	Tony Risk/Mike Sprouse
Sewer	Facilities - FMF/FMO	Tony Risk/Mike Sprouse
Communications/Data	Facilities - FME	Jason Willoughby/Paul
		Powers
Stormwater	Facilities - FMF	Tony Risk/Joel Dolbeck
Structural	Facilities - FMF	Suresh Chandra/Tom Renzo
Fire Protection/LLS	Facilities - FMFS	Tim Minga/Robert Myles
Natural Gas	Facilities - FMM/FMO	Carroll Jones/Mike Sprouse

# **APWA Uniform Color Code**

WHITE	Proposed excavation
	Temporary survey marking
	Electric power cable or conduit
	Gas, oil, petroleum, gaseous materials

Telecommunications, data, alarm cables
Potable water
Irrigation water
Sewers & drains

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