

# THE POWER OF COPPER

## BLUE STAKE

FMBI BLUE STAKE 2023



FCX  
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ICMM  
Member

**FREEPORT**  
FOREMOST IN COPPER

fcx.com

## Course Expectations

Safety

Breaks/Restrooms/Smoking

Technology

Participation

# Safety Quote



- *“No job will be considered so important, and no schedule so urgent, that time cannot be taken to perform work in a safe manner. Working safely is a condition of employment.”*
- -Freeport-McMoRan Inc. Safety and Health Policy
- What does this mean to you?
- Stop The Job!
- This class only teaches Awareness

# Learning Objectives

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## Module 1: Definitions and Explanations

- Explain the purpose and process of hazard recognition
- Explain the purpose of the Blue Stake Policy

## Module 2: Permit Process

- Define the roles and responsibilities of all Blue Stake process participants
- Explain how to begin the request for a Blue Stake Permit

# Learning Objectives

## Module 3: Permit Specifics

- Describe the basics of excavation requirements as per the Blue Stake Policy
- Describe the basics of floor, roof, ceiling, and wall penetration requirements as per the Blue Stake Policy

## Module 4: Permit Exceptions

- Describe what a variance is and when to request one
- Describe what the exemptions are for using the Blue Stake process



# Module 1: Definitions and Explanations

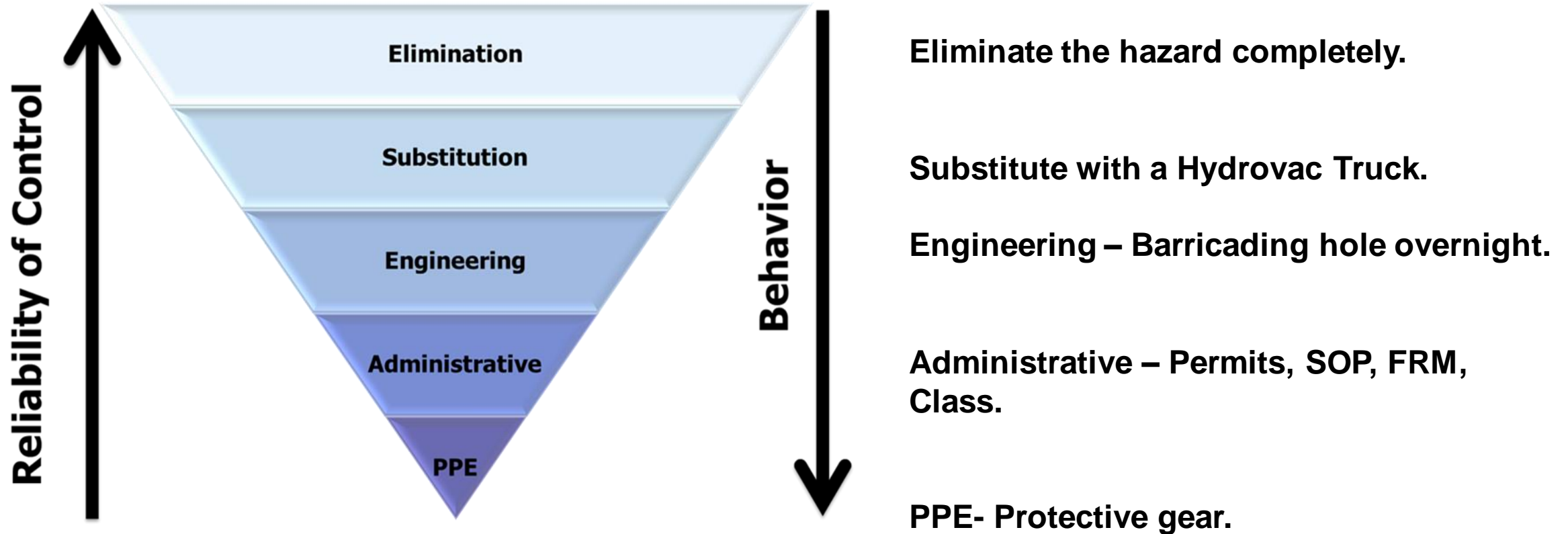




# FCX-13 Blue Stake Policy

- **1.0 Policy**
- **Purpose**
- Due to the high level of risk during excavations and penetrations of building surfaces, this policy has been developed to minimize risk for injuries, harm to the environment and production losses during such work.
- **Scope**
- All Freeport-McMoRan employees and contractors shall follow this policy.

# Hierarchy of Controls





## 2.0 Procedures

- **2.0 Procedures**
- **2.1 General**
- Blue Staking is the act of identifying and marking utilities such as electric, gas, water, telephone, fiber optic, etc., so that they do not pose a risk of injury to workers or a risk of being damaged during penetration, excavation, trenching, or digging activities in buildings, surface excavations and underground workings.

# Hazard Recognition

- **What is Job Hazard Recognition?**
  - Identifying all items and situations that can cause someone to receive an injury
- **When does this take place?**
  - Crews complete adequate hazard assessments at the work site, look for potential hazards while planning a job, implement proper controls, and not skip steps
- **What tools do we have to help us?**
  - FRM, WPE, JSA, Permits, Policies, SOP, SME's, Safety
- **What happens if we don't do a good inspection of our area and think through the job?**
  - Property damage, Injury, Fatality, Termination

# Blue Stake Process

- What if conditions change or what if you find a utility line or conduit that was not marked on the ground or was not included on the Permit?
- Tell the Representative if you discover something that was not identified initially in the Blue Stake investigation
- All employees have the right and the responsibility to stop work and clear the area if it becomes unsafe in any way
  - Immediately contact the area Supervisor, Project Manager, and Blue Stake Representative. Examples include rupture, break, or discovery of utility line during excavation

# What Utilities do you see

Always look during your JSA to ensure conduit or piping going into the ground are marked.

If no markings, then stop the job and contact Blue Stake Representative.





# Asbestos or Mold

- Contact Environmental Department representative, Industrial Hygienists and, as necessary, Safety Professional if situation includes;
  - A spill to the ground,
  - Appears asbestos is present,
  - Appears mold is present.
- If you are unsure of the presence of asbestos, contact your Supervisor or Environmental Representative
- The Representatives bring blueprints to further investigate the situation

# Be Asbestos Aware!

- **Many of our facilities may contain Asbestos**
- Training is required for all construction, alteration, repair, maintenance, custodial, or renovation that may lead to exposure.
- Asbestos Training | **US EPA1910.12b -OSHA Construction Work defined**
- **Before** such projects -**Call Environmental 928-830-8783**
- Contractors will need to provide Certifications or Attend Training: **Monthly every 3<sup>rd</sup> Wednesday 8:30 am @ Bozarth Comm. Campus**
- Site Personnel conducting these activities can attend this training in person or virtually here: Asbestos Awareness Training ([sharepoint.com](https://sharepoint.com))
- This task is often completed at Freeport-McMoRan sites through the Management of Change (MOC) process
- Verify your safety, Be **Safe** not **Sorry!**

# Digging Deeper

You are an equipment operator, and you have been told to dig a trench four feet (4') deep and six feet (6') long next to the Health and Safety building. Before transporting your equipment to the area, you decide to conduct a walk through.

- What are you looking for?
- Ground conditions, hazards, proper tools/equipment available, ground markings, Blue Stake Permit, Overhead Powerlines
- What tools are you going to use to find these hazards?
- FRM, hazard recognition, Workplace Exam, Permits, Maps
- What would keep you from doing this job?
- Wrong conditions or controls; missing or unclear ground markings; missing information on permit; not safe to move forward with job

# Digging Deeper

Jake oversees planning a job that will include digging a trench on the west side of the mill. Does he need to request a Blue Stake?

- Yes
- No

Explanation:

- It has the potential to penetrate  $> 1"/25.4$  mm



# Blue Stake Permit Purpose

>1" or 25.4 mm



# Blue Stake Policy

- **When is a Blue Stake Permit required?**
  - Required if excavation penetration is one inch or greater (>1")
  - Any concrete cutting tasks of any depth
  - Any demolition of buildings **Mine Site Only, Townsite is Exempt**
    - sawing into floors, walls or ceilings.
  - Exemptions are described in section 2.1 of corporate policy and section 2.2 issuing section.
- **Blue Stake Rep markings and what it will look like in the field**
  - Map example or photo or paint/flags on the ground? Drawings must be present at the job site.
  - A Blue Stake Rep will mark all traceable known utilities following the AZ 811 standard color coding.
  - Yes, all operators shall have a permit copy present at the job site.

# Floor, Roof, Ceiling, and Wall Penetration

## Sawing

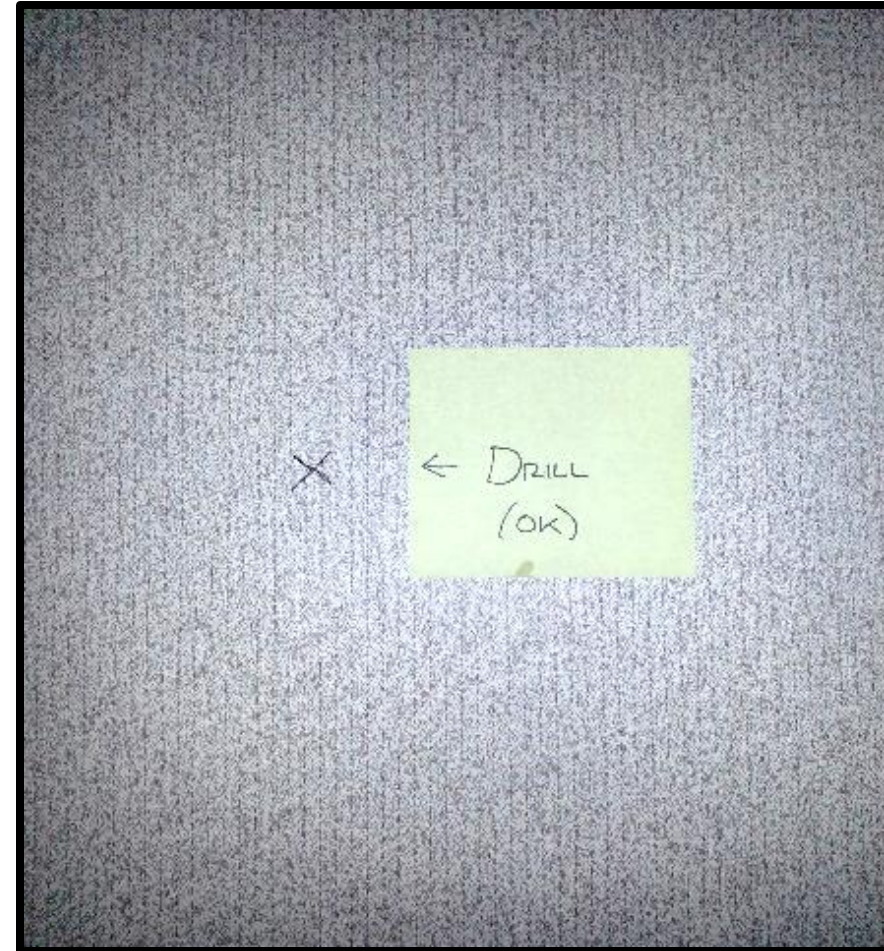
Always requires a permit

## Renovations and demolitions

May require coordination with site Environmental Department so they can test for airborne contaminants

## Markings

When doubt exists regarding utility location within structure, Representative uses drawings or prints. Markings should be prominent and visible.



# Learn from Others



- While performing demolition work on a drywall wall, a contractor sawed through a visible live 20 Amp, 277 Volt conduit which powered emergency lights.
- The wall was 80% demolished and the conduit was clearly visible from one side.
- A Blue Stake was performed but this conduit did not show on any of the reviewed drawings
- What went wrong?
  - *A Blue Stake was performed but this conduit did not show on any of the reviewed drawings.*
- What could have been done differently?
  - *If they were the Operators and if they were to find utility lines that had not been previously identified, they would need to stop work, clear the area, and contact the Blue Stake Representative.*



# Module 1 Quiz

1. Due to the high level of risk during excavations and penetrations of building surfaces, what was the Blue Stake Policy developed to minimize?
  - a. Risk for injuries
  - b. Harm to the environment
  - c. Production losses
  - d. All the above

# Module 1 Quiz

2. How deep does an impending penetration of the earth's surface need to be in order to warrant a Blue Stake request or survey?
- a. Greater than 1 inch
  - b. 1/2 inch or greater
  - c. It is always required no matter the depth

# Module 1 Quiz

- Match these items with the correct description.

A. Requestor	E	Administrative control
B. Blue Stake Representative	A	Person who puts in the request
C. Excavation Operator	D	Items used to mark buried or concealed utilities
D. Temporary or Permanent Markings	C	Person who digs into the earth
E. FMI Blue Stake Policy	B	Investigates what is concealed in the walls or beneath the earth



# Module 2: Permit Process





# Blue Stake Policy Mine Site 30 Day Permit





# Blue Stake Mine Site Policy Requirements

Mine Site

FCX policy for 30-day  
expiration for FMI property

30 days for mine site

Pot-hole digging within 24”  
of a known utility

What to do if you are  
digging and find unknown  
utilities.



## 2023 HOLIDAY SCHEDULE

Holiday	Date Observed	Status of Arizona 811 Center
New Year's Day 2023	Monday, January 2, 2023	Closed
MLK/Civil Rights Day	Monday, January 16, 2023	Courtesy day - not a valid business day
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- ☐ If the holiday falls on a Saturday, it is observed on Friday. If the holiday falls on a Sunday, it is observed on Monday.
  - ☐ Member facility owners/operators that observe any additional holiday closures are asked to provide special arrangements for EMERGENCY, UNKNOWN LINE and DAMAGED FACILITY notification to Arizona 811 Call Center Operations Manager Brad Simon at: [Brad.Simon@Arizona811.com](mailto:Brad.Simon@Arizona811.com) at least one week in advance. Please include company/agency name; pertinent contact information; and your receiving service area (Destination/SADA) code for the affected facility.
  - ☐ Anyone who is planning to excavate for any reason at work, at home for a special event or project should plan accordingly during weeks impacted by holidays and courtesy days, which are NOT counted as "working days" for the purpose of having utilities located.
- For additional questions or comments about 2023 Holidays and courtesy days, please contact Brad Simon at [Brad.Simon@Arizona811.com](mailto:Brad.Simon@Arizona811.com).

THANK YOU

# Blue Stake Mine Site Policy Requirements

1. Project manager plans excavation work.
2. Project manager performs job walk out with Area Supervisor, Blue Stake Representative and Operator(s) to discuss excavation scope of work and identify excavation boundaries.
3. Project manager requests permit from Blue Stake Department.
4. Blue stake rep is allowed at least 2 days for research, locate, and mark utilities when applicable.
5. Blue Stake Rep – Will put permit packet together. If, in the determination of the blue stake rep, the excavation area is near a gas line, the blue stake rep will notify the project manager that an AZ 811 locate ticket needs to be initiated.
6. **All employees performing work are required to be at the meeting to sign the Permit.**

# Blue Stake Mine Site QR Codes



## What & Why?

Blue Staking is the act of identifying and marking utilities in ground or walls, so that they do not pose a risk of injury to workers or a risk of being damaged during penetration, excavation, trenching, or digging activities in buildings, surface excavations and underground workings.

## When?

Anytime ANY surface is Penetrated  
Any Penetration of any surface greater than 1 inch  
Any time concrete is penetrated at any depth



## QR Code Resources

### SOP



### Blue Stake Permit



### Corporate Policy



**Mine Site  
Blue Stake Contact**  
**Tracy Maloy**  
**tmaloy@fmi.com**  
**+1-928-499-4590**

# Blue Stake Mine Site Policy Requirements

- **Mine site permit requests** must now be digitally requested.
- Review our most updated Permitting for Blue Stake SOP (**HSS-066**) before your next permit request:
- Clear imagery representation of the excavation site with marked boundaries must be attached to digital request and must specify a brief scope of work (i.e., concrete penetration, blading rd., earth work, etc.).
- If request lacks pictures and/or clear Google Earth image screen shots of location **with boundaries specified**, permits will likely be delayed.
  - Plan for permits to be issued 2 full business days after the day the request is initiated.
  - Blue Stake Rep will determine if your excavation project needs an AZ 811 ticket.
- **Blue Stake Permit MUST be printed out for the job site and must be on the job site.**



# Blue Stake Mine Site Policy Requirements



1. Either copy a picture from Google Earth or have Engineering department take a photo utilizing a drone.
2. Mark the photo with the boundaries and location of digging etc.
3. Make sure you put the exact coordinates on where the job will be conducted.

# Blue Stake Mine Site Policy Requirements

The areas on the map that are outlined require a Blue Stake.

If you are unsure reach out to BASTAKE Blue Stake Team for clarification.

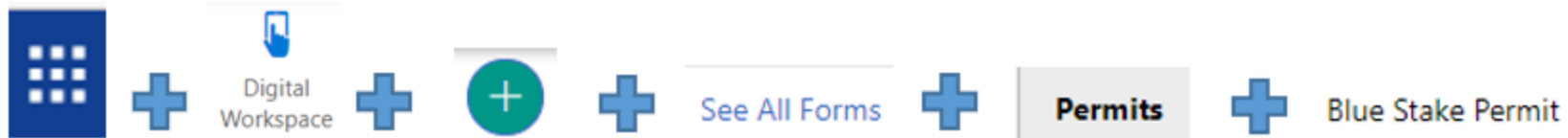


Blue Stake Map Reference only



# Digital Blue Stake Requests

- Digital Blue Stake Requests can be submitted now.





# Digital Blue Stake Requests




Blue Stake Permit

Start


Requestor

STEVE LOVE  


Production Date

12/15/2021 


Phone Number


Your Phone or Cell Number


Process

Training 


Site

Bagdad 

Area

Mill Training Building 

Shift

Day 

Location

Mill Training Building

Save

Next



# Digital Blue Stake Requests

Blue Stake Permit

**Note:** The Requestor is responsible for all properly completed permits needed to safely complete the job

Project Details

Project Description

Brief description of work being done

Detailed Scope of Work

Detailed description of Scope of Work to be done and must have attachments or it will not be approved.

CLEAR



# Digital Blue Stake Requests



**Click Assign to a Group (BASTAKE) so all Blue Stake Representatives get the requests.**

Persons Involved

7 members

Project Supervisor

Choose employee

Responsible Area Supervisor

Choose employee

Supervisor of Equipment Operator

Choose employee

Equipment Operator(s)

People Search

Equipment Operator

Contractor Representative

People Search

Contractor Representative

Other Employee

People Search

close

top

Permit Details - Blue Stake Representative

Cautions/Markings - Blue Stake Representative

Save

Back

Next

# Digital Blue Stake Requests



The screenshot shows a web application window titled 'Blue Stake Permit'. At the top, there is a blue header bar with the 'Fovis' logo on the left, the title 'Blue Stake Permit' in the center, and navigation icons (a magnifying glass, three dots, and a close 'X' button) on the right. Below the header is a green progress bar with three circular markers. The first two markers are empty, and the third is filled with a green checkmark and labeled 'Finish' in green text. Below the progress bar, a message icon (a circle with an 'i') is followed by the text 'There are no exception items indicated.' The main content area contains a paragraph of text: 'After submitting request and it has been approved you will receive an email from the group stating it has been approved.' Below this text is a yellow rectangular box with the text 'CONTRACTORS MUST HAVE PAPER COPY IN THE FIELD.' in bold, black, uppercase letters. At the bottom right of the form, there are three buttons: 'Save' (a white button with a blue border), 'Back' (a solid blue button), and 'Submit' (a solid blue button).

# Blue Stake Policy Mine Site



# Mine Site Extensions and Expirations

- **MINE SITE ONLY**

- 30 days; 1 year (long-term)
- Stop job until extension is in hand
- Requestor contacts Representative for 30-day extension
- Representative may resurvey area if Requestor asks for an extension
- Only designated Operator(s) can perform the excavation in accordance with the restrictions of the permit
- This documentation on the permit is necessary for renewal as well
- Operator(s) must have a copy of the current permit with them while they perform work
- Follow site shift change procedures
- Correctly flag, barricade, and tag unattended hazards



# Blue Stake Policy Mine Site 1 Year Agreement





# Blue Stake Policy Mine Site 1 Year Agreement



## Expectations for mine ops/mine tech- when a blue stake required for the mine?

- Annual permit for All Mine Pit Roads Maintenance
- Designated Operator(s) Must have the training and must be listed on the long-term permit at the time of initial request
- Per agreed on Long term permit but no longer than 1 year (Corporate policy Section 2.2 Long - Term Permit policy)
- Boundaries and gas lines cautioning PPT slides for operators put together in 2019
- Currently all excavations must request blue stake permitting, a representative will determine if any old or new dewatering lines are in conflict. If no conflict, rep will issue a no conflict permit as part of the active mining exemption principle
- Follow site shift change procedures
- Correctly flag, barricade, and tag unattended hazards

# Blue Stake Policy Mine Site 1 Year Agreement





# Blue Stake Policy Town Site





# Blue Stake for Townsite Contractors





# Townsite Policy Requirements


## Townsite

15-day expiration for Arizona 811 for townsite to comply with AZ 811

Excludes weekends, AZ and Federal Holidays

Pot-hole digging within 24" of a known utility

What to do if you are digging and find unknown utilities.



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☐ Anyone who is planning to excavate for any reason at work, at home for a special event or project should plan accordingly during weeks impacted by holidays and courtesy days, which are NOT counted as "working days" for the purpose of having utilities located.

For additional questions or comments about 2023 Holidays and courtesy days, please contact Brad Simon at [Brad.Simon@Arizona811.com](mailto:Brad.Simon@Arizona811.com).

THANK YOU

# Blue Stake Policy Townsite Contractors

1. Project manager plans excavation work and performs job walk out with operator to discuss excavation scope of work and identify excavation boundaries.
  2. **Contractors working for Freeport McMoRan Bagdad will submit and maintain their own AZ811 locate tickets.**
  3. Blue Stake Rep will contact the requestor of record via AZ811, to:
    - a. Explain the markings
    - b. Remind the requestor of any other underground utility operators, and their requirement to respond to the locate request.
    - c. Document the requestor contact and interaction.
  4. Upon request a map of the approved dig site will be provided.
  5. Should Town Utilities require the assistance of our Vac Truck contractor to positively locate one of our buried utilities, the requestor will be asked to add them to the AZ811 ticket. This will speed up the locate process and allow the Vac Truck to start the locating process sooner, instead of having to wait the additional 2 full working days, for a new ticket.
- **Contact AZ 811**



# Blue Stake Policy for Residents





# Blue Stake Policy for Residents

- **What is the process for requesting a blue stake permit? How many days before a project begin?**
  1. Resident completes Alteration/Modification Request.
  2. Town Site reviews Alteration/Modification Request.
  3. Once approved resident makes the 811 call.
  4. Blue Stake representative will receive 811 blue stake ticket number.
  5. Blue stake rep is allowed at least 2 days for research, locate, and mark utilities when applicable.
- **15-day expiration for Arizona 811 for townsite excluding weekends and state and federal holidays**



# Making the 811 Call

- Calling in a Blue Stake could be 3 full days after 811 is called.
- The day you call it in does not count as day 1.

**Call at least two full working days before you begin excavation**



**Dial 8-1-1 or 1-800-STAKE-IT (1-800-782-5348)**



**2 business days**

# So, you want to plant a tree



# Permits

- Permits are good for 15 working days after issue date in the Town Site.
- Excluding weekends, State and Federal Holidays.
- Follow site shift change procedures
- Correctly flag, barricade, and tag unattended hazards



# Digging Deeper



Following the Blue Stake Policy, when must a Blue Stake be requested?

1. When a penetration is to be made in the earth's surface of  $>1"$
2. When a penetration is to be made in a ceiling of  $>1"$
3. When a sawing penetration is to be made in a floor
4. All the above

*Explanation:*

*1 & 2 have the potential to penetrate  $>1"$  or 25.4 mm*

*3 sawing into a floor always requires a Blue Stake Per FCX-13*

# Blue Stake Underground Utilities





# Module 3: PERMIT SPECIFICS





# Marking Utilities

Paint Color	Utility Type
Red	Electrical Power
Yellow	Gas-Oil-Product, and Air Lines
Orange	Communication Cable
Blue	Water Systems
Green	Sanitary Sewer Systems, Drains, Slurry Pipelines
Purple	All Solvent Extraction, Electro-winning
Pink	Temporary Survey Points
White	Perimeter of Excavation/Boundary



# What Utilities do you see





# Tracers/Indicators

Tracer/Indicator	Utility Type
Tracer wire	All new underground utilities
Yellow tape	Gas-Oil-Product, and Air Lines
Orange tape	Communications Cable
<b>Red concrete/slurry</b> (mortar-based concrete with red dye powder spread on top)	Electric (sites and best practice)



# Installing or Rerouting Utilities

- When installing, rerouting or repairing an underground utility the work must comply with local and regional buried utility/new installation requirements.
  - CONSTRUCTION MATERIAL SPECIFICATIONS
  - DEPTH OF TRENCH
  - TRACER WIRE – color, minimum gauge
  - SHADING MATERIAL – type, depth
  - COVER DEPTH
  - CAUTION TAPE – color, utility
  - VISUAL MARKERS – color, location

# Tracers/Indicators #1

Tracer/tracer wire on electric conduit or gas lines.

Blue Stake Representative uses this signal wire to find perimeter of buried pipe.



## Tracers/Indicators #2

Tracer wire taped to conduit above the ground level. Blue Stake Representative uses this signal wire to find perimeter of buried pipe.

This is to let you know the Blue Stake Representative has marked the ground and there is a utility below and there is no excavation within 24" on either side.





# Tracers/Indicators #3

Orange tape =  
communications

This is to let you know the  
Blue Stake Representative  
has marked the ground and  
there is a utility below and  
there is no excavation  
within 24" on either side.



# Red concrete = Electric

## Tracers/Indicators #4

If I have 6 electrical lines running parallel underground, how many tracer wires do I need?

Just one. Down the middle if possible.  
But there needs to be a note added that there are six conduits.

Before the concrete is poured, please call Blue Stake Representative so they can collect this data in their Gia map.





# Trenching and Hand Digging

Hand digging/Pot holing

Must be done when within 24" utilities

Operators must use processes such as hand digging, vacuum extraction, or other impact minimizing techniques to prevent contacting and damaging underground utilities.

Below the gate always use red concrete.

Townsites will use red concrete when depth cannot be achieved.





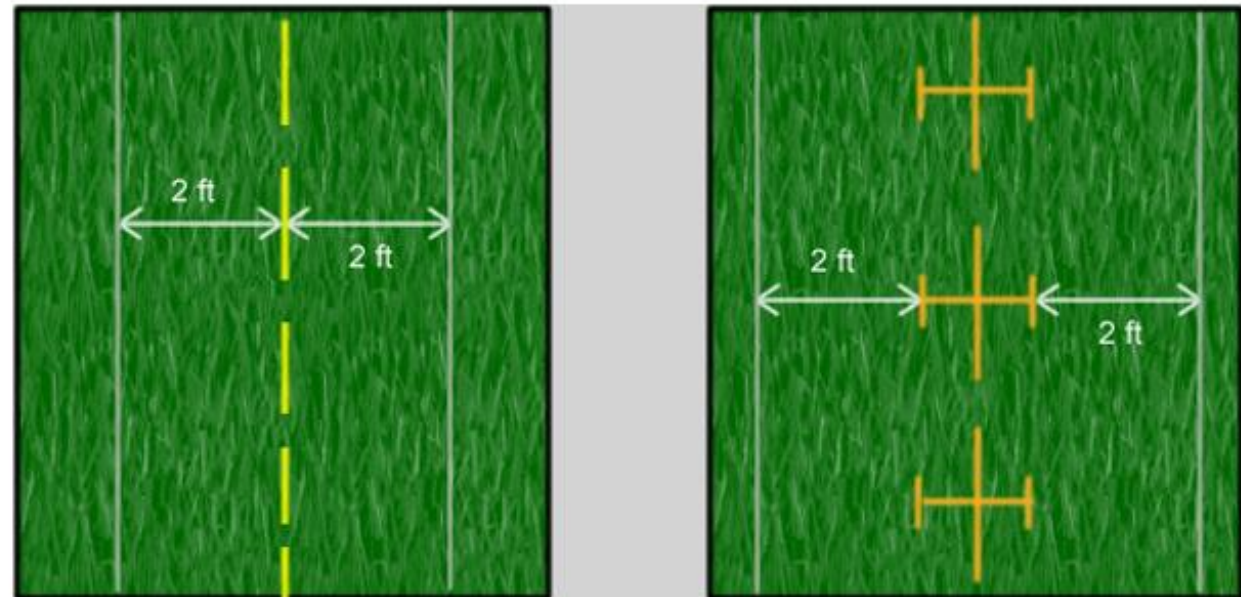
# Hand Digging and Pot Holing

## Hand digging/Pot holing

- Must be done when within 24" (60.96 cm, or .61 m) of known utilities
- Operators must use processes such as hand digging, vacuum extraction, or other impact minimizing techniques to prevent contacting and damaging underground utilities
- Careful and Prudent Manner while Hand Digging or Pot Holing.

**AZ 811**

## 2-FOOT TOLERANCE ZONE



# Vacuum Extraction



# Module 3 Quiz

1. As the Requestor, what color paint would you use to mark the boundary of the area you are planning to dig?
  - A. Red
  - B. Yellow
  - C. Blue
  - D. White



# Module 3 Quiz

---

2. How close to a known utility must you hand dig (pothole)?
- A. 12"
  - B. 24"
  - C. 6"
  - D. 36"

# Module 3 Quiz

3. If you are not finished with the job at the end of your shift, how do you prepare the work area to be left until you and your crew return the next workday?
- A. Leave it as so you know where to pick up from the following day.
  - B. Post a security guard to keep people out of the area.
  - C. Properly flag, barricade, and tag as needed.



# Module 4: PERMIT EXCEPTIONS





# Exemptions and Emergencies

- Exemptions – **Apply to Mine Sites Only**
  - Other non-mining sites may need to call for local utility location services AZ811.
  - Emergency procedures (IDLH)
    - If an excavation must begin due to a safety, environmental, or facility operation emergency, the area supervisor must visit the site and determine if the problem is an immediate hazard
    - If determined to be an emergency, the area supervisor must notify the Representative(s) or a manager
    - They, in turn, may authorize the area supervisor to proceed with the emergency excavation
    - If there is any doubt, the job must be stopped immediately
    - Calling in a Blue Stake requires proper planning.
    - Blue Stake works Monday thru Friday.

# Native Ground

- Native ground, top surface of active leach, waste stockpiles, and active mining areas
  - Native Ground – Top surface of active leach and waste stockpiles, and active mining areas where utilities have never been present
  - The Blue Stake team does not issue a permit in these instances
- Residential and commercial lessees of Freeport-McMoRan-owned town sites
  - No Freeport-McMoRan Blue Stake Permit will be issued
  - These individuals must contact the appropriate entities per the lease agreement and per local laws

# Variance

- Townsite
  - ***No variances for townsite. Must have emails, text messages, phone calls explaining no-conflicts***
- Mine Site
  - Freeport-McMoRan GSR Variance Process Policy (FCX-21)
  - Must be filed with Health and Safety when full compliance of FCX-13 is not met
  - Fill in with site-specific material that meets or exceeds FCX-13 and FCX-21
  - Approved and completed variance form must be kept on file with an SOP or other work procedure established for future action
  - An engineer or other qualified individual must review the work to be performed, provide justification for the exemption, and give alternate safety controls to minimize or eliminate the risks
  - Check with your site Health and Safety Department for further information



# Farm Video





# Conclusion





# Question 1

- Why is a Utility Location (Blue Stake) Process needed in our work areas?
  - A. It is a form of elimination because we are completely eliminating the chance of injury
  - B. So that we do not puncture a utility line and cause someone to get hurt or killed, damage to buildings or harm to the environment.
  - C. It is required by company policy as the first step in any job process
  - D. It is a requirement of the MOC (Management of Change) process



## Question 2

- What should you do once a hazard has been identified during a JSA?
  - A. Determine what steps might be taken to control the hazard and act on them.
  - B. Whenever you see any hazard, stop the job and notify training.
  - C. Stop the job and immediately report all hazards to your HR representative.
  - D. Call the FM Hazard Recognition Report Line immediately.

## Question 3

- Who creates the marks on the ground or walls when Utility Location (Blue Stake) is being conducted?
  - A. Utility Location (Blue Stake) Operator
  - B. Utility Location (Blue Stake) Supervisor
  - C. Utility Location (Blue Stake) Requestor
  - D. Utility Location (Blue Stake) Representative

## Question 4

- Under what circumstances would it be necessary to stop the job when doing excavation/work after a Utility Location (Blue Stake) has been performed? **Select all that apply.**
  - A. Hit an unknown/old utility line
  - B. When the operator needs to review the permit
  - C. The work is something different from the original plan
  - D. If it appears that asbestos may be present



## Question 5

- Where does the Utility Location (Blue Stake) permit need to be stored during the actual work?
  - A. With the supervisor of the crew doing the work
  - B. With the crew doing the work
  - C. With the project manager
  - D. With the Health & Safety representative at the site

## Question 6

- What color of paint/markings is used to indicate these utilities:

A. Water Systems: **Blue**

B. Sewer Systems: **Green**

C. Electrical Power: **Red**

D. Gas Lines: **Yellow**

## Question 7

- What area does require an FM Utility Location (Blue Stake) Process?
  - A. Emergency Procedure
  - B. Production Area
  - C. Active Mining Area
  - D. Native Ground



## Question 8

- What must happen if it is necessary to continue excavation beyond the Utility Location (Blue Stake) markings?
  - A. Stop and call the Health & Safety representative
  - B. Stop and call the Utility Location (Blue Stake) representative
  - C. Carefully assess the situation before proceeding
  - D. Extend the current Utility Location (Blue Stake) markings into the new excavation area

# Debrief

- What are some key concepts in each module?
  - Module 1: Definitions and Explanations
  - Module 2: Permit Process
  - Module 3: Permit Specifics
  - Module 4: Permit Exceptions
- Are there any additional questions, comments, or concerns?

# Bagdad Blue Stake Team



- **Locating the Hazards for Your Health and Safety**
- **Townsite**
  - AZ811
- **Mine Site**
  - Blue Stake Representatives
  - Comments or concerns email [BASTAKE@FCX365.onmicrosoft.com](mailto:BASTAKE@FCX365.onmicrosoft.com)



# AZ811 It's the Law

