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**Morenci Townsite Contractor
Safety Meeting**

June 19, 2024



**Please Silence Your Cell Phones
Mute Your Microphone on Teams**

Scan to Sign In



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All Operating Sites

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Agenda

- Safety share
- Environmental Share
- Townsite Audit Data
 - Individual Company Meetings
- Safety Stats and Monitor Events
- ISN Updates

June Environmental Share



IF A SNAKE IS PRESENT IN YOUR WORK AREA, CALL THE MAIN GATE @ 928-865-7931

The Main gate has a list of certified snake wranglers.

Rattlesnakes can be found anywhere from *hiking trails* to *city streets* from *early April* through the *end of October*. (news.Arizona.edu)



Environmental Department – Certified Snake Wranglers

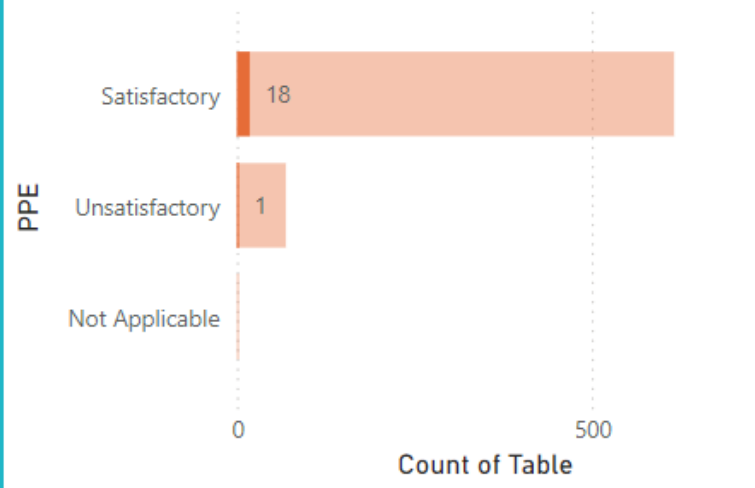
Isak Larsen	928-215-0769
Frank Serna	928-215-5090
Heather Lee	928-292-0357
Gilbert Gonzales	928-215-9328
Gerald Strenke	928-292-7855
Thomas Ashy	928-292-0496

Peak snake season is here! Beware of your surroundings.

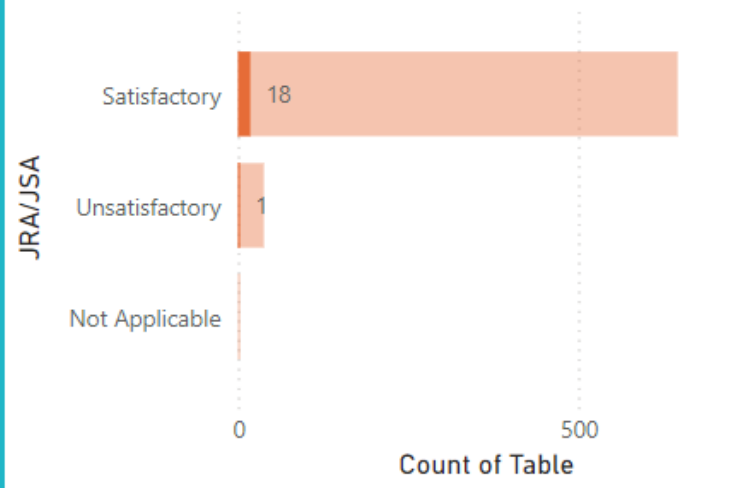
- If you encounter a snake:
 - **Leave the snake alone!**
 - Inform others of the snake's location (inside or outside)
 - Call the mine gate
 - **DO NOT KILL or HARASS THE SNAKE**

Data Analysis

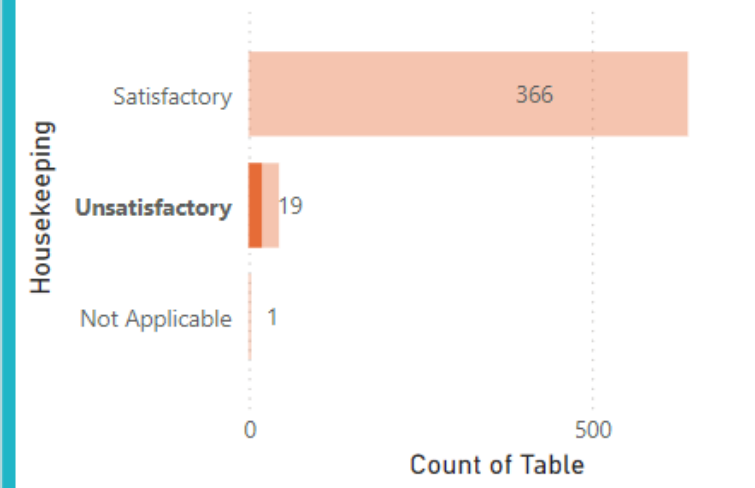
Count of Table by PPE



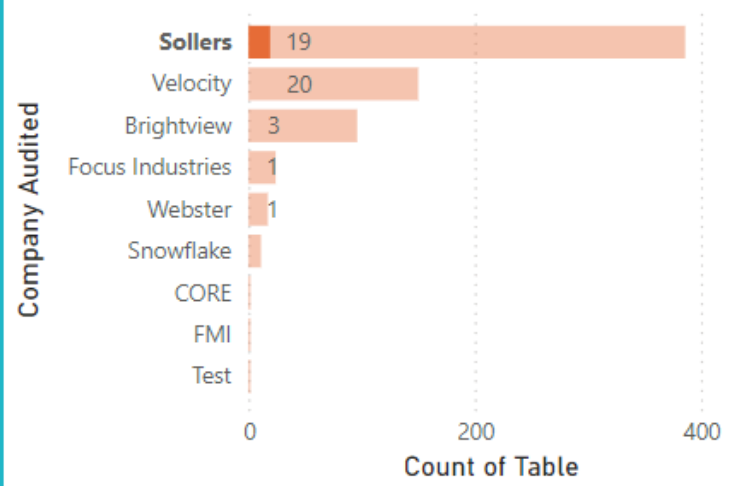
Count of Table by JRA/JSA



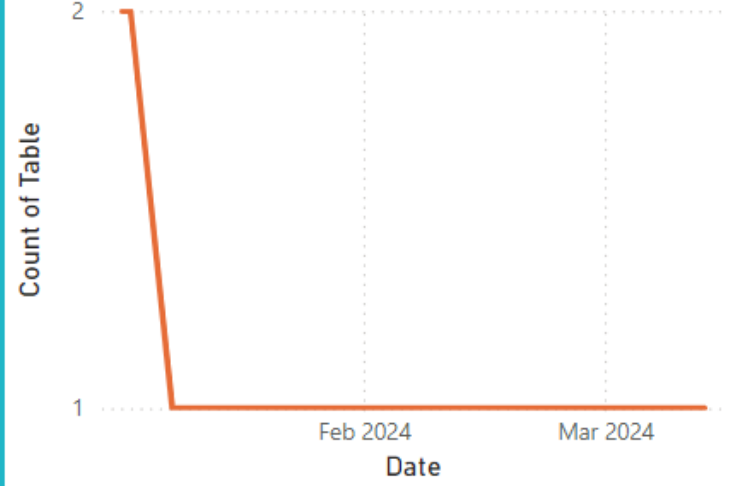
Count of Table by Housekeeping



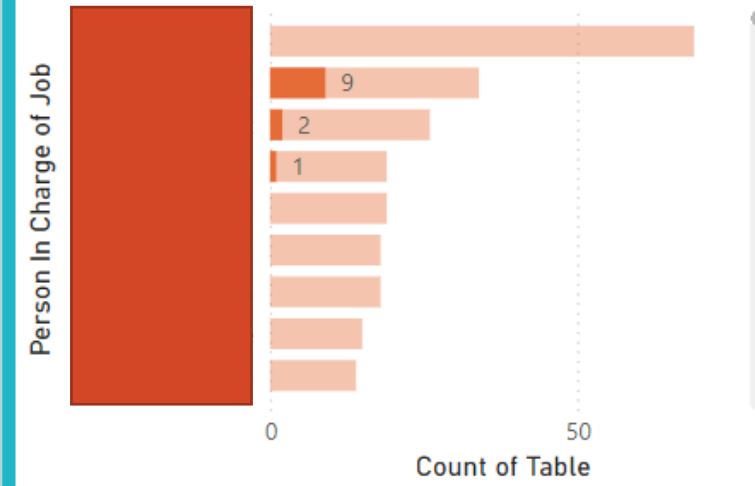
Count of Table by Company Audited



Count of Table by Date



Count of Table by Person In Charge of Job



Details

Travel Ways	Equipment & Tools	Ground Control (Hig	Employees Spoken T	Additional Comments
Satisfactory	Satisfactory	Not Applicable		
Not Applicable	Satisfactory	Not Applicable		
Not Applicable	Satisfactory	Not Applicable		
Satisfactory	Satisfactory	Satisfactory		Poca limpieza
Not Applicable	Satisfactory	Not Applicable		
Not Applicable	Satisfactory	Not Applicable		
Satisfactory	Satisfactory	Not Applicable		Make sure you drink plenty of water and take breaks
Satisfactory	Satisfactory	Not Applicable		Make sure we protect the people's cars
Satisfactory	Satisfactory	Not Applicable		No
Satisfactory	Satisfactory	Not Applicable		Scaffold inspection green card good
Satisfactory	Not Applicable	Satisfactory		Good work
Satisfactory	Satisfactory	Not Applicable		
Satisfactory	Satisfactory	Satisfactory		

Morenci TRIR

FREEPORT-McMORAN

Total Recordable Incident Rate

Last Refresh:
6/10/2024 3:01 PM

48
Near Miss

283
Property Damage

136
First Aid

15
Lost Time

12
Medical Treatment

54
Restricted Duty

0
Fatality

Date

6/1/2023 📅 5/31/2024 📅

Organization

- Select all
- Administration
- Accounting
- Administration
- Coffee Shop
- Community Center
- Environmental
- Global Supply
- Health & Safety
- Human Resources
- Library
- Mercantile Conoco
- Mercantile Lanes
- Mercantile Motel
- MIS
- Morenci Water & Electric
- Plant Engineering
- Security
- Townsite
- Training Department
- Mine
 - Fragmentation - Loading/ ...
 - Haulage
 - Mine Maintenance

3.26
Total Recordable Incident Rate

81
Total Recordables

1.25
High Risk Incident Rate

31
Total High Risk

Total Recordable Incident Rate

TRIR Goal 2024 - 2.65 May Estimated

● MTD TRIR ● 12 Month Rolling Total

Month	Year	MTD TRIR	12 Month Rolling Total
June	2023	2	~4.5
July	2023	2	~4.5
August	2023	3	~4.8
September	2023	3	~5.0
October	2023	2	~4.8
November	2023	1	~3.5
December	2023	1	~3.0
January	2024	1	~3.0
February	2024	1	~2.8
March	2024	1	~2.8
April	2024	2	~3.2
May	2024	2	~2.65 (Estimated)

High Risk Incident Rate

➔ Click to Add Monitor 🔴 Reset

● Actionable ● Monitor ● 12 Month Actionable Rolling Total

Month	Year	Actionable	Monitor	12 Month Actionable Rolling Total
June	2023	1	1	~0.15
July	2023	1	1	~0.15
August	2023	1	1	~0.15
September	2023	1	1	~0.15
October	2023	1	1	~0.15
November	2023	1	1	~0.15
December	2023	1	1	~0.15
January	2024	1	1	~0.15
February	2024	1	1	~0.15
March	2024	1	1	~0.25
April	2024	1	1	~0.25
May	2024	1	1	~0.25

Contractor TRIR

FREEPORT-McMoRAN

Morenci Contractor TRIR

Last Refresh:

6/10/2024 1:24:47 PM

1

Near Miss

36

Property Damage

32

First Aid

3

Lost Time

6

Medical Treatme...

8

Restricted Duty

0

Fatality

Date

6/1/2023

↔

5/31/2024

2.13

TRIR

Contractor Name

- Select all
- Accurate Homes LLC
- Ace Industries Inc
- Achen-Gardner
- Advanced Lining Solutions ...
- Advanced Turbine Support ...
- Advantage Inspecon Servi...
- AECOM
- Aldridge Electric LLC
- Allen Pump Company
- American Environmental Te...
- American Power LLC
- AMES CONSTRUCTIONS
- Anixter
- Archer Western
- Arizona Electrical Apparatus
- Arizona Ice King
- Atkinson Power
- Atlas Copco
- B.J. Cecil Trucking Inc.

17

Total Recordables

Actionable Incident Rate

→ Click to Add Monitor ↻ Reset

0.09

High Risk Incident Rate

Total High Risk

9

Total High Risk

Total Recordable Incident Rate

● TRIR ● 12 Month Running Total

Month	TRIR	12 Month Running Total
June 2023	2	~1.1
July 2023	1	~1.6
August 2023	3	~2.5
September 2023	4	~3.2
October 2023	2	~3.8
November 2023	0	~3.2
December 2023	4	~3.0
January 2024	1	~2.4
February 2024	3	~2.6
March 2024	4	~2.7
April 2024	1	~2.4
May 2024	1	~2.2

Actionable Incident Rate

● Actionable ● Monitor ● 12 Month Running Total

Month	Actionable	Monitor	12 Month Running Total
June 2023	0.01	0	~0.18
July 2023	0	0	~0.18
August 2023	0	0.03	~0.21
September 2023	0	0	~0.21
October 2023	0	0	~0.21
November 2023	0	0.03	~0.24
December 2023	0	0.05	~0.29
January 2024	0	0	~0.18
February 2024	0.01	0.02	~0.20
March 2024	0.04	0	~0.20
April 2024	0	0.03	~0.24
May 2024	0	0.01	~0.25

Townsite Maintenance & Utility TRIR

FREEMPORT-McMORAN

Total Recordable Incident Rate

Last Refresh:
6/19/2024 7:31 AM

1

Near Miss

3

Property Damage

0

First Aid

0

Lost Time

1

Medical Treatment

0

Restricted Duty

0

Fatality

Date

6/1/2023

5/31/2024

1.10

Total Recordable Incident Rate

1

Total Recordables

Total Recordable Incident Rate

TRIR Goal 2024 - 2.65 May Estimated

● MTD TRIR ● 12 Month Rolling Total

Month	Year	MTD TRIR	12 Month Rolling Total
June	2023	2	~4.5
July	2023	3	~4.5
August	2023	3	~6.5
September	2023	3	~8.5
October	2023	3	~7.5
November	2023	4	~7.5
December	2023	4	~11.5
January	2024	1	~11.5
February	2024	1	~11.5
March	2024	1	~11.5
April	2024	2	~11.5
May	2024	2	~13.5

High Risk Incident Rate

→ Click to Add Monitor → Reset

● Actionable ● Monitor ● 12 Month Actionable Rolling Total

Month	Year	Actionable	Monitor	12 Month Actionable Rolling Total
June	2023	2	0	~0.8
July	2023	3	0	~0.8
August	2023	3	0	~0.8
September	2023	3	0	~0.8
October	2023	3	0	~0.8
November	2023	4	0	~0.8
December	2023	4	0	~0.8
January	2024	1	0	~0.2
February	2024	1	0	~0.2
March	2024	1	0	~0.2
April	2024	2	0	~0.2
May	2024	2	0	~0.2

0.00

High Risk Incident Rate

0

Total High Risk

Organization

- Human Resources
- Library
- Mercantile Conoco
- Mercantile Lanes
- Mercantile Motel
- MIS
- Morenci Water & Electric
- Plant Engineering
- Security
- Townsite
- Training Department
- Mine
 - Fragmentation - Loading/ ...
 - Haulage
 - Mine Maintenance
 - Resource Management
- Processing
 - Crush & Convey
 - Hydromet
 - Leaching
 - Maintenance Services
 - Metcalf Concentrator
 - Morenci Concentrator
 - Process Automation

May Monitor Events

Driver neglected to put the vehicle in park before getting out and the van started moving. Another employee ran up to the van, got inside and brought it to a stop. In the process, a handheld radio got damaged by the moving van. Operator noted that the van was not placed in park and no wheel chocks were used.

Two mechanics were called to HT547 for transmission issues. The haul truck was already loaded and bermed. One mechanic went up and proceeded to dump out the bed so they could install the bed safety sling. The other mechanic was going to the parked service truck to grab the bed sling. They noticed the haul truck rolling forward through the berm with the park brake applied while they were dumping the haul truck out. The operator then turned the haul truck in an attempt to avoid the service truck and grabbed the emergency handle, but it had already made contact with the service truck. This resulted in damage to the front of the service truck. The Haul truck had moved roughly 20 feet from where it was originally parked. The mechanics stated that they parked in front of the haul truck because there was the high wall to the right of the haul truck and the 51 shovel to the left side of the haul truck.

While 36 dozer was cleaning up the floor at the MOL6280X, the HT514 began to pull forward to get lined up behind the haul truck that was dumping in front of them. At the same time, the 36 DZ started to back up and made contact with the #3 tire of the HT514. HT514 had noticed the dozer backing up and tried honking to get the dozer operator's attention because HT514 could not move forward so as to prevent colliding with the haul truck in front of them. The dozer operator stated that they did not see the HT514 pull up behind them while they were working

Leach Operator began to close up the FM019A Fusing Machine. In the process of closing the jaws the operator unintentionally set their left hand down onto the fuse machine. The employee quickly slapped the jaw to cause it to close. In doing so the employee smashed their left index finger and middle finger in between the jaws.

Employees working at the P5/P6, FMI employees working inside chute removing and replacing liners. Western employee working one level below beginning work on idler replacement. FMI employee dropped a liner out of the chute door, liner bounced into small stack of new liners a few feet away knocking one of the new liners down. Liner dropped approximately four feet and hit the back of the Western employee working below. Liner weighs approximately 35 pounds.

Shared Services mechanics were replacing liners in B3-4 transfer chute. While using a hand help chipping hammer to descale around liners, the air fitting on the hammer dislodged from the hammer, causing the hose to whip uncontrollably. The whip check used slipped off hammer. An employee was able to control hose by stepping on it until air was turned off.



Fire

Potential Fatal Event: Hydromet Tank Fire

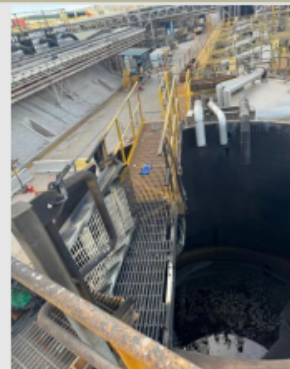
FREEMPORT-McMoRAN
 PFE # 2024-11
 Event ID # 20015578



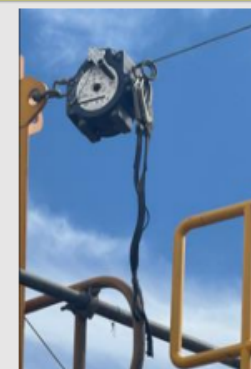
Preliminary Incident Details

Operation	El Abra
Date / Time	May 13, 2024 / 4:05 p.m.
Event Type	Injury – First Aid
Summary	<p>Three contractors were performing hot work on a platform at the tank farm. A failure in the undersized extension cord caused a fire at the welding machine, which subsequently spread to the fire blanket. One employee who was tied-off was unable to get free from the harness until the lanyard was completely burned through by the fire. The other employee attempted to suppress the fire with a portable fire extinguisher but was unsuccessful. The emergency response team was notified and quickly arrived on scene to extinguish the fire.</p>
Risk Category	Actionable – Significant (3) Likely (3)
Findings / Missing Controls	<ul style="list-style-type: none"> • Improper selection of appropriately rated extension cord. • Improper evaluation of fire risk and exposure to electrolyte backwash tank. • Improper use of fire blanket – the blanket was left in place for a week and was subsequently contaminated with organic. • Standard operating procedures was not developed for hot work around the tank farm.
Applicable Policies / Procedures	<ul style="list-style-type: none"> • FCX-HS06 Hot Work Policy • FCX-HS02 Working at Heights Policy • GAre0012 El Abra Hot Work Regulation
Employee Condition	<ul style="list-style-type: none"> • One employee sustained superficial burns to right ear.
Contact	<ul style="list-style-type: none"> • Mack Rojas, Manager-Safety, Health and Technical Training • José Guzman, Senior Manager-Engineering and Services

Photos / Links



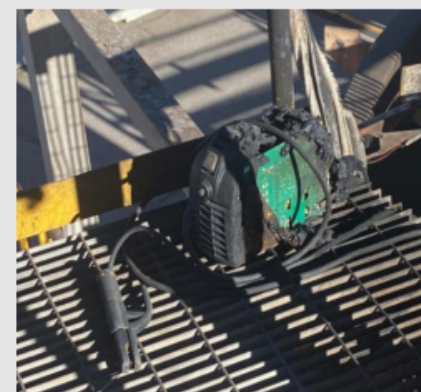
Platform where fire started.



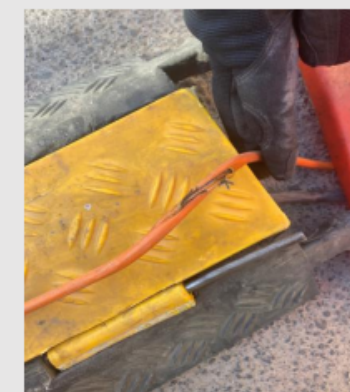
Reactor and burned lanyard.



Burned lanyard.

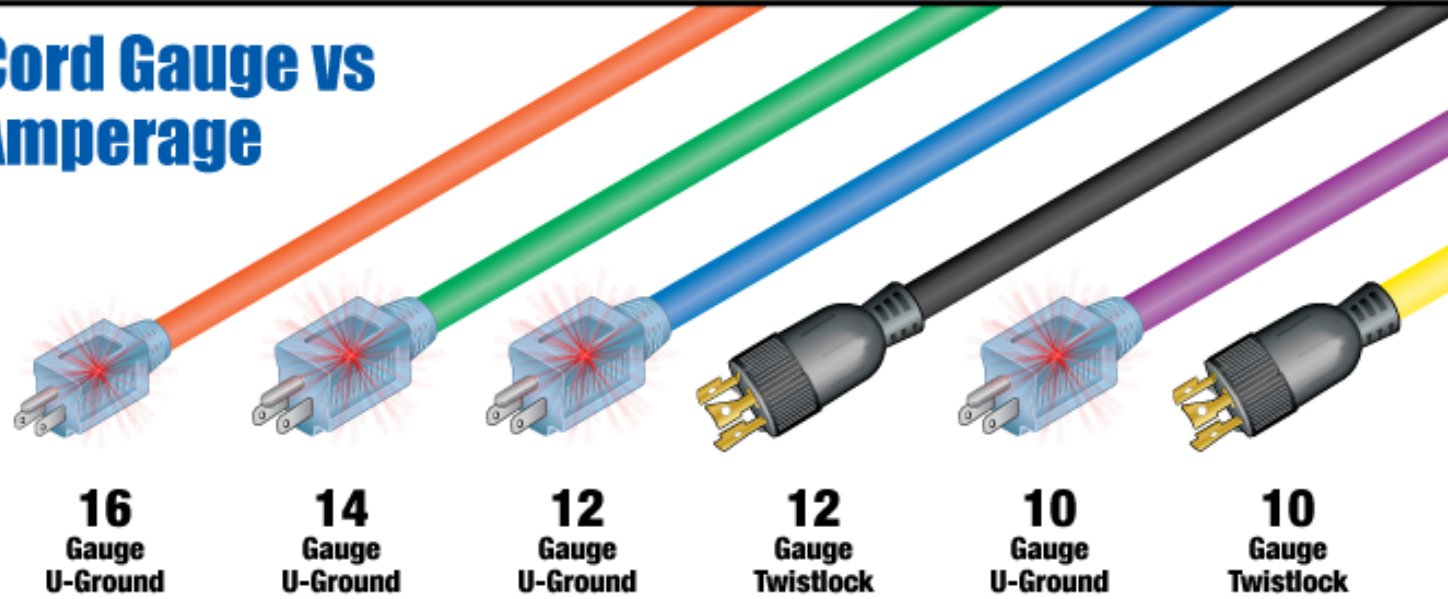


Burned welding machine.



Failed extension cord.

Cord Gauge vs Amperage



Usage Guide

MEDIUM DUTY	HEAVY DUTY	EXTRA HEAVY DUTY	EXTRA HEAVY DUTY	ULTRA HEAVY DUTY	ULTRA HEAVY DUTY
Fans	Drills	Impact Hammers	Circular Saws	Generators	Generators
Small Appliances	Belt Sanders	Chain Saws	Chain Saws	Recipro Saws	Chop Saws
Stereos	Routers	Recipro Saws	Table Saws	Rotary Hammers	Rotary Hammers
Household Tools	Hedge Trimmers	Grinders	Worm Drives	Compressors	Tile Saws

Amperage Chart

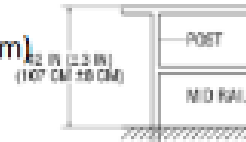
	16 GAUGE	14 GAUGE	12 GAUGE U-GROUND	12 GAUGE TWISTLOCK	10 GAUGE U-GROUND	10 GAUGE TWISTLOCK
25ft.	13 Amps	15 Amps	15 Amps	20 Amps	15 Amps	20 Amps
50ft.	13 Amps	15 Amps	15 Amps	20 Amps	15 Amps	20 Amps
100ft.	10 Amps	13 Amps	15 Amps	15 Amps	15 Amps	20 Amps

Townsite Event

- While a contractor was searching for a water leak on copper road, a trench had been excavated that was 6 to 8 feet deep in different places. .
- Deep The trench was 35 feet long by 3 feet across. The ground was type c soil- backfill from original construction. A trench box had been put in place and the company was planning to add another one when a crack began to form on one side of the trench noticed by crew members and the backhoe excavator.
- There were no people next to that area because of protocol and segregation, but a warning was given for everyone to stay away. An estimated 6 long by 3 foot wide section of material backfill sloughed off on the sidewalk of the trench, taking the asphalt with it.
- The trench in that area originally 8 feet deep, left the depth at 5'7" deep after the material sloughed. Western slopes and FMI safety were contacted and pictures and statements were taken.
- MWE, and safety and the contractor are regrouping to learnings and plan forward.
- The trench was backfilled for the evening to plan

GUARDRAIL REQUIREMENTS - temporary barriers must meet this criteria for fall prevention

- Install nets or other barriers to prevent falling objects when necessary, and able to withstand 150lbs (68 kg) of force
- 39-45in (99-115 cm) from the walking surface to the top of the rail; not deflect lower than 39in (99 cm)
- Able to withstand 200lbs (91 kg) of force in a downward/outward direction
- Midrail installed halfway between top rail and walking surface



Significant First Aid Event

Contractor was working on the 5011-overflow water line. He was feeding the hydroblaster line into the pipe to clean it out. Employee fed line approximately 10 feet into the pipe and asked pump operator for water without pressure. Employee then fed line approximately 5 feet more into the pipe and requested more pressure. Once line received pressure the line turned 180 degrees, making its way back toward employee and high pressure jet spray contacted employee's right shoulder/bicep area.

Because of spray pattern, employee did not see the line come out, they only saw water in the air. As soon as employee felt the pain in their right arm they released foot pedal which took away pressure from the line. Hydroblaster line was set at 5 thousand psi at the time of incident. Employee was taken to GHR and after evaluation employee was sent to Mount Graham for further testing and imaging.

- Employee Experience
- Routine Work/ No demand for vigilance
- Was wearing required PPE
- High level PPE (Bomb Suit) not required below 10K psi
- Considerations



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Workforce Engagement Team Contractor Training Requirements

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Compliance Training Requirements

- Contractors are required to use Freeport-McMoRan (FCX) Mine Training Institute (MTI) Compliance Training Material
- Contractors will have three (3) options to implement the compliance training requirements
 - (1) Have Qualified Trainers approved by FCX to provide the compliance training.
 - (2) Utilize a third party approved by FCX to provide the compliance training.
 - (3) Receive the compliance training directly from Site Training Departments.
- Contractor's will maintain training records in the ISNetwork System which will feed Success Factors/Learning Management System
- Contractor Employees will be required to have **both** FCX SAP Employee ID Numbers and **ISN ID Numbers**

Compliance Training Requirements

- Compliance Classes Identified
 - Contractor Orientation Course
 - Fatal Risk Management
 - Working at Heights
 - Working at Heights Refresher
 - Confined Space
 - Confined Space Refresher
 - Flagging and Barricading
 - Blue Stake
 - Hot Work
 - Hot Work Refresher
 - Workplace Examination
 - Control of Hazardous Energy
 - Control of Hazardous Energy Refresher

Train the Trainer Compliance Training Requirements

- Contractor Trainer receives an SAP Employee ID Number
- Contractor Trainer submits resume with instruction experience/workplace experience
- Contractor Trainer attends each course of instruction provided by FCX that is intended to be taught (i.e., to teach Working at Heights, the requirement is for the Contractor Trainer to attend the full Working at Heights Class)
- Contractor Instructor attends the Train the Trainer Class for each course of instruction that is intended to be taught (i.e., to teach Working at Heights, the requirement is for the Contractor Trainer to attend the Train the Trainer Class for Working at Heights)
 - Can be taught by the site training department or ETC Compliance Solutions
- Train the Trainer Classes completed will be recorded in the Learning Management System

Trainer Compliance Training Course Information

Course Number	Course Title	Class Time	ETC TTT	In-Person	Teams	Computer Based
	Contractor Orientation	5 Hrs	4 Hrs	X	X	
SFT FCX1021C	Fatal Risk Management	5 Hrs	4 Hrs	X	X	
SFT FCX1012C	Working at Heights	6 Hrs	4 Hrs	X		
SFT FCX3012E	Working at Heights Refresher	2 Hrs				X
SFT FCX1003C	Confined Space	6 Hrs	2 Hrs	X		
SFT FCX2003C	Confined Space Refresher	2 Hrs		X	X	X
SFT FCX1020C	Flagging and Barricading	2 Hrs	3 Hrs	X	X	
SFT FCX1019C	Blue Stake	2 Hrs	2 Hrs	X	X	X
SFT FCX1022C	Hot Work	3 Hrs	3 Hrs	X	X	
SFT FCX2022C/E	Hot Work Refresher	3 Hrs		X	X	X
SFT FCX1015C	Workplace Examination	4 Hrs	4 Hrs	X		
SFT FCX1025C	Control of Hazardous Energy	6 Hrs	4 Hrs	X	X	
In Development	Control of Hazardous Energy Refresher	4 Hrs				

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ISN Update

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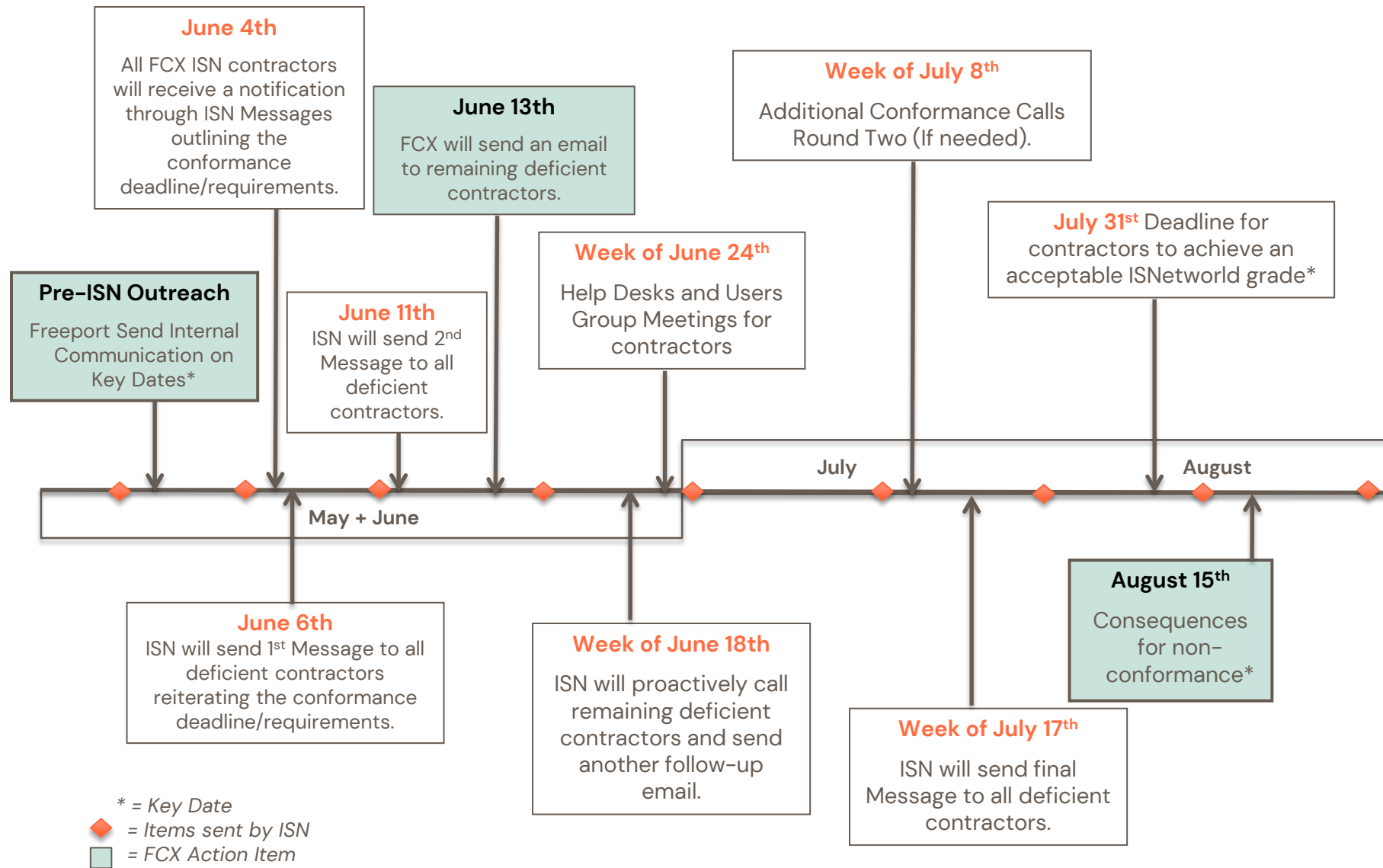
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ISNetworld Grade Conformance Timeline: June – August



ISN Resource Links

[Contractor Portal Link](#)

Onboarding	Risk Assessment Template Expectations HSEP (Health, Safety, Environmental Plan) Template PDF Word Version HSEP (Health, Safety, Environmental Plan) Addendum Template Material Request Approval Process (Chemical Approval / SDS) Kickoff Meeting Agenda Expectations Ready to Work Permit
Offboarding	Closeout Meeting Agenda Expectations Standard FCX Compliance Training Materials
Training	Hazard Recognition Video Contractor Orientation Training LMS Record Update Template (Training Records Upload)
Policies & Standards	Health and Safety Policies Contractor Health, Safety, & Environmental Manual Job Specific Forms & Permits Fatal Risk Management ESG Policies (Environmental, Social, & Governance)
Incident Reporting	Logbook Initial Incident Report
Regular Submittals	Quarterly/Monthly/Weekly Submittals Safety Man Hours (TRIR) Drug & Alcohol Compliance HSE Compliance Environmental Submittals Enableon (Incident Reporting) Equipment Inspection
Common Communications	PFE Alerts Monthly Safety Meeting Content (Incident Summaries)
Reference Guides	How To Documents Worker Profile Evaluation Panels ISNetworld Customer Support



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MSHA Updated Requirements

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Surface Mobile Equipment Safety Program

- MSHA will begin enforcing July 17, 2024
- All production operators and part 45 independent contractors must have a written safety program for surface mobile equipment at surface coal and metal non-metal mines.
- Surface Mobile Equipment Includes
 - Wheeled, skid-mounted, track-mounted, or rail-mounted equipment capable of moving or being moved, and any powered equipment that transports people, equipment, or materials.
 - The rule excludes belt conveyors and any manually powered tools such as wheelbarrows, hand carts, push carts, welding carts, cylinder carts, basic hand trucks, or dollies.

[MSHA PRESENTATION LINK - Click](#)

Written Safety Program Requirements

A written safety program includes actions taken to:

1. Identify and analyze hazards and reduce the risks related to the movement and operation of surface mobile equipment.
2. Develop and maintain procedures and schedules for routine maintenance and non-routine repairs for surface mobile equipment;
3. Identify currently available and newly emerging feasible technologies that can enhance safety at the mine and evaluate whether to adopt them; and
4. Train miners and other persons at the mine to identify and address or avoid hazards related to surface mobile equipment.

FMI is in the process of drafting our version of the documentation and will be shared when it becomes available.