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**Morenci Contractor Safety Meeting**

September 9, 2024

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Mute Your Microphone on Teams**



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- Safety Share
  - Equipment exam finding
- Environmental share
- Burks
- Safety Stats
- Safety Alerts
- SUNDT Safety Share
- ISN

# Safety Share Equipment Exams

**INSPECTION**

DATE 9/5/24

OPERATOR \_\_\_\_\_

EQUIPMENT NUMBER Ex 1

EQUIPMENT TYPE Excavator

START OF SHIFT MILES/HRS 1690.1

END OF SHIFT MILES/HRS \_\_\_\_\_

	OK	BO
Back-up Alarm*	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Brakes* (SEE BACK)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Brake Lights*	<input type="checkbox"/>	<input type="checkbox"/>
Fire Extinguisher*	<input type="checkbox"/>	<input type="checkbox"/>
Glass	<input type="checkbox"/>	<input type="checkbox"/>
Head Lights	<input type="checkbox"/>	<input type="checkbox"/>
Horn*	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Steering*	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Tail Lights	<input type="checkbox"/>	<input type="checkbox"/>
Tires	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Turn Signals	<input type="checkbox"/>	<input type="checkbox"/>
Windshield Wipers	<input type="checkbox"/>	<input type="checkbox"/>
Grab Irons & Steps	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Interior Cab Clean	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Mirrors	<input type="checkbox"/>	<input type="checkbox"/>
Bed Clean	<input type="checkbox"/>	<input type="checkbox"/>
Bins Clean Orderly	<input type="checkbox"/>	<input type="checkbox"/>
Seatbelts*	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Buggy Whip*	<input type="checkbox"/>	<input type="checkbox"/>
Parking Brake*	<input type="checkbox"/>	<input type="checkbox"/>
Engine Oil	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1st Aid Kits	<input type="checkbox"/>	<input type="checkbox"/>
Check All Fluids	<input checked="" type="checkbox"/>	<input type="checkbox"/>

\*Equipment cannot be operated if this is marked B. O.

Comments \_\_\_\_\_



## Backhoe - Generic Equipment Inspection Pitfalls?

There are specific safety features do not get checked for operability

- Shutdown interlocks
- Safety releases for buckets left in the air

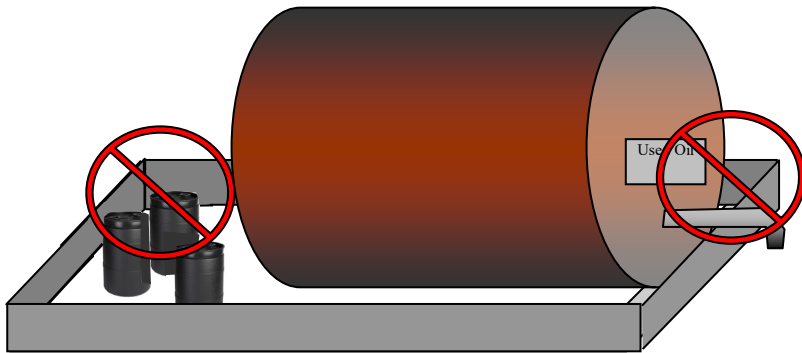
# Environmental Share

## Secondary Containment

September 2024

Purpose: An emergency storage system that:

- Is designed to contain releases from tanks and prevent them from entering the environment.
- Provides protection from spills caused by operational errors, such as overfilling.
- Allows for the detection of leaks.



### Things to watch out for:

- Ensure spigots/drain valves do **NOT** hang over the edge of the containment.
- Do **NOT** allow storage of materials or drums within the containment wall EXCEPT spill kits.
- Do **NOT** allow containments to fill-up with accumulated rainwater – it must be drained to maintain necessary capacity.
- Housekeeping – **NO** debris / trash inside the containment.

### Regular Maintenance & Daily Inspections:

- Ensure **drains/valves** are closed and operational & repair ASAP if leaking.
- Seal/reseal **cracks** in containment.
- Check for accumulated **rainwater**.
- Inspect surrounding area for **petroleum, contaminated soil** & clean spills.
- **Inspect tank/drum** for leaks, stains, corrosion, bulging/dents.
- Ensure all assigned **spill kits** are fully stocked and in place.

**All secondary containment systems must have sufficient capacity to contain 110% volume of the tank, drum or sump to prevent overflow of material.**



## 57.20008 Toilet facilities

- a) Toilet facilities shall be provided at locations that are compatible with the mine operations and that are readily accessible to mine personnel.
- (b) The facilities shall be kept clean and sanitary. Separate toilet facilities shall be provided for each sex except where toilet rooms will be occupied by no more than one person at a time and can be locked from the inside.

Burks Sanitation provides a critical service

Issue in field:

- –Ty-vek suits in porta johns.
- –Parking in service access
- –Picking up tipped over units

Impacts:

- Safety/time/cost
- Time/ skipped service
- Unsanitary units/ no notification

- You can help



Early models



LEL Confined Space



Deluxe Model

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## Safety Stats

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# Morenci TRIR

**FREEMPORT-McMoRAN**

## Total Recordable Incident Rate

Last Refresh:  
9/9/2024 1:30 PM

90

Near Miss

500

Property Damage

243

First Aid

28

Lost Time

14

Medical Treatment

73

Restricted Duty

0

Fatality

Date

9/1/2023 📅

8/31/2024 📅

2.88<sup>1</sup>

Goal: 2.65  
(+8.6%)

### Total Recordable Incident Rate

TRIR Goal 2024 - 2.65 Aug/Sep Estimated

● MTD TRIR ● 12 Month Rolling Total

Month	MTD TRIR	12 Month Rolling Total
September 2023	3	~4.5
October 2023	3	~4.2
November 2023	4	~3.8
December 2023	3	~3.5
January 2024	1	~3.2
February 2024	1	~3.1
March 2024	2	~3.0
April 2024	3	~3.0
May 2024	2	~2.9
June 2024	2	~2.8
July 2024	3	~2.7
August 2024	3	2.88

115

Total Recordables

### High Risk Incident Rate

➔ Click to Add Monitor 🔁 Reset

● Actionable ● Monitor ● 12 Month Actionable Rolling Total

Month	Actionable	Monitor	12 Month Actionable Rolling Total
September 2023	0	3	~0.15
October 2023	0	3	~0.12
November 2023	0	4	~0.18
December 2023	0.2	3.8	~0.25
January 2024	0	1.2	~0.15
February 2024	0.2	0.8	~0.12
March 2024	1.2	0.6	~0.25
April 2024	0.4	1.2	~0.28
May 2024	0	0.8	~0.22
June 2024	0.2	1.2	~0.18
July 2024	0.4	1.4	~0.25
August 2024	0	0.4	~0.22

1.23

High Risk Incident Rate

### Total High Risk

49

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



# Contractor TRIR

**FREEMPORT-McMoRAN**

## Morenci Contractor TRIR

Last Refresh:  
9/4/2024 4:51:41 PM

<b>3</b> Near Miss	<b>70</b> Property Damage	<b>69</b> First Aid	<b>3</b> Lost Time	<b>7</b> Medical Treatme...	<b>14</b> Restricted Duty	<b>0</b> Fatality
-----------------------	------------------------------	------------------------	-----------------------	--------------------------------	------------------------------	----------------------

Date  
9/1/2023 8/31/2024

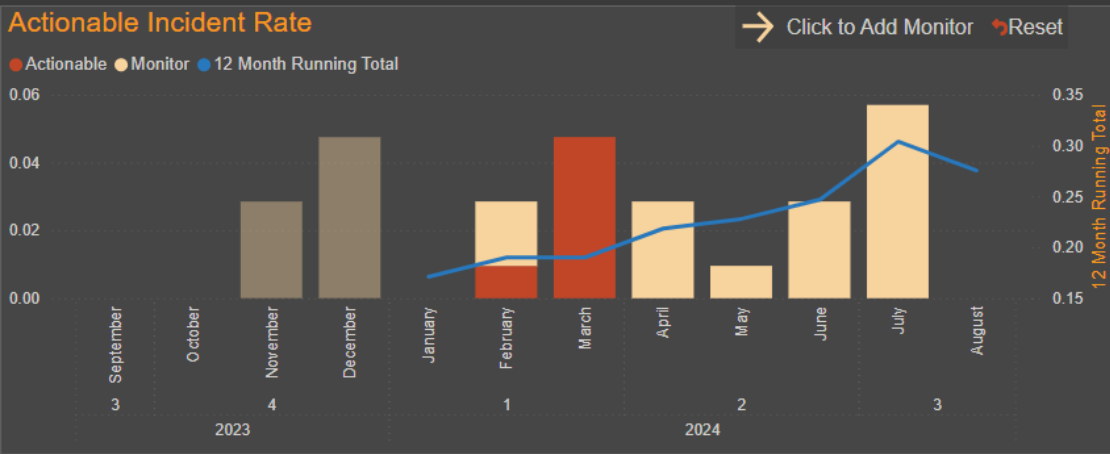
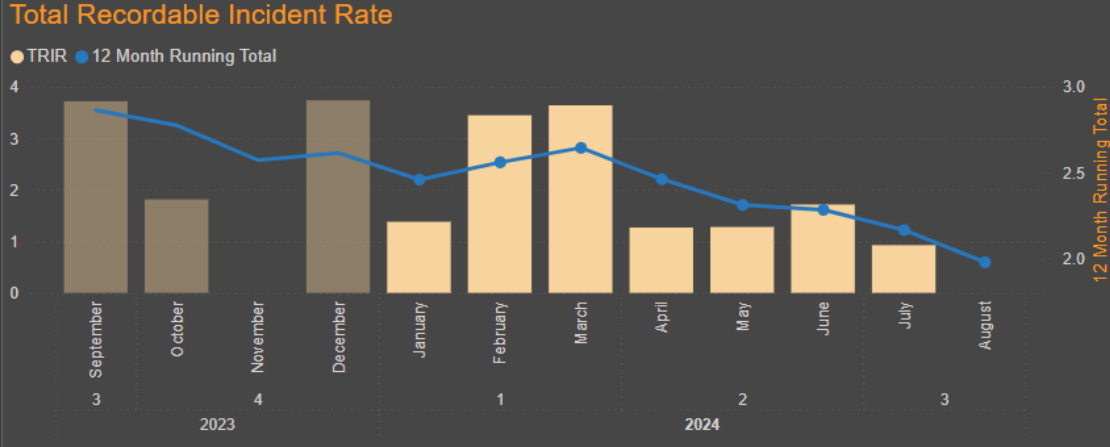
- Contractor Name**
- Select all
  - Ace Industries Inc
  - Advanced Lining Solutions ...
  - AECOM
  - American Power LLC
  - AMES CONSTRUCTIONS
  - Arizona Electrical Apparatus
  - B.J. Cecil Trucking Inc.
  - Barney Trucking
  - Boart Longyear
  - Bowman Consulting
  - Brahma Group
  - Brightview Landscaping
  - Burks Valley Sanitation LLC
  - Call & Nicholas Inc
  - Caltrol
  - Canary Systems
  - Carrier
  - CKC Construction & Materials
  - CnR Construction Services

**1.85**  
TRIR

**24**  
Total Recordables

**0.13**  
High Risk Incident Rate

**14**  
Total High Risk



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## Potential Fatal Events

August 2024

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# Potential Fatal Event: Excavator Hits Pickup Truck



## Preliminary Incident Details

<b>Operation</b>	Cerro Verde
<b>Date / Time</b>	August 16, 2024 / 11:21 p.m.
<b>Event Type</b>	Property Damage
<b>Summary</b>	<p>An excavator on the slope of a tailings dam abruptly became unresponsive. The operator lost control of the machine, which traveled approximately 250 meters (820 feet) down the slope of the dam, finally stopping after impacting a parked pickup truck.</p> <p>The operator of the pickup truck had observed the unusual movement of the excavator and was alerted of the movement by radio. When the excavator was approximately 60 meters (197 feet) from the pickup truck's position, the operator exited the truck and walked to a safe area.</p>
<b>Risk Category</b>	Actionable – Significant (3) Likely (3)
<b>Findings / Missing Controls</b>	<ul style="list-style-type: none"> <li>No controls have been found to be missing however, the equipment was sent to the supplier to investigate for potential equipment failure.</li> </ul>
<b>Applicable Policies / Procedures</b>	<ul style="list-style-type: none"> <li><a href="#">FCX-23 Interaction with Heavy Mobile Equipment- Surface.</a></li> <li>Cerro Verde procedure - Installation and removal of HDPE discharge lines at Tailings Dam.</li> </ul>
<b>Employee Condition</b>	<ul style="list-style-type: none"> <li>No injuries.</li> </ul>
<b>Contact</b>	<ul style="list-style-type: none"> <li>Helbert Galdos, Manager-Tailings and Water</li> </ul>

## Photos / Links



- Multiple angles of the excavator and pickup truck after impact.





Uncontrolled  
Release of Energy

# Potential Fatal Event: Conveyor Belt Coil

## Preliminary Incident Details

<b>Operation</b>	Bagdad
<b>Date / Time</b>	August 20, 2024 / 12:07 p.m.
<b>Event Type</b>	Near Miss – Property Damage
<b>Summary</b>	<p>A contractor crew was replacing a conveyor belt and had stitched the old belt to the new belt using metal clips. While winding the new belt onto the belt-line, the metal clips holding the belts together pulled apart causing the new belt to slide down the rollers uncontrolled.</p> <p>During this process, three contract employees were on the gantry, one at the head pulley, and one on each side walking with the belt. When the belt broke loose, the two individuals on the sides ran back toward the tail pulley. One successfully descended the stairs, the other crossed a handrail and climbed onto a peaked roof covering a drive motor.</p>
<b>Risk Category</b>	Actionable – Significant (3) Likely (3)
<b>Findings / Missing Controls</b>	<ul style="list-style-type: none"> <li>• Crew did not review standard operating procedure before work.</li> <li>• Employees were not positioned correctly to perform the task.</li> <li>• Housekeeping issues prevented sufficient exit routes.</li> </ul>
<b>Applicable Policies / Procedures</b>	<ul style="list-style-type: none"> <li>• <a href="#">Bagdad Operations – 5 Belt XCC Replacement Standard Operating Procedure</a></li> </ul>
<b>Employee Condition</b>	<ul style="list-style-type: none"> <li>• No employees were injured.</li> </ul>
<b>Contact</b>	<ul style="list-style-type: none"> <li>• Danielle Murphey, Senior Supervisor-Industrial Hygiene</li> <li>• Brian Bonnett, Superintendent-Technical</li> </ul>

## Photos / Links



*Coiled belt.*



- *The belt clips that pulled from the belt causing it to coil.*





# Potential Fatal Event: Dozer Hard Nose Falls During Maintenance

## Preliminary Incident Details

<b>Operation</b>	Chino
<b>Date / Time</b>	August 21, 2024 / 11 p.m.
<b>Event Type</b>	Injury – Lost Time
<b>Summary</b>	Two contractor employees were replacing a dozer engine in the maintenance bay. The hard nose was removed and resting on 4x4 cribbing. As the employees removed pieces of the radiator, the hard nose fell and briefly contacted one of the employees, who fell to the floor. A mayday was initiated, and the Emergency Response Team transported the employee to the hospital for further medical treatment.
<b>Risk Category</b>	Actionable – Significant (3) Likely (3)
<b>Findings / Missing Controls</b>	<ul style="list-style-type: none"> <li>• Extra parts on the floor created a tripping hazard.</li> <li>• Hard nose was not secure while employees were working on removing the radiator.</li> <li>• Task lacked a standard operating procedure.</li> <li>• Inadequate cribbing/blocking.</li> </ul>
<b>Applicable Policies / Procedures</b>	<ul style="list-style-type: none"> <li>• No applicable policy.</li> </ul>
<b>Employee Condition</b>	<ul style="list-style-type: none"> <li>• Employee sustained bruising and fractures to the hip.</li> </ul>
<b>Contact</b>	<ul style="list-style-type: none"> <li>• Jim Cook, Manager-Health and Safety</li> <li>• David Atwater, Manager-Mine Maintenance</li> </ul>

## Photos / Links



*Final resting location of the hard nose and location of employee after fall.*



*The 4X4 cribbing used to rest the hard nose on.*



Uncontrolled  
Release of Energy

# Potential Fatal Event: Cement Blow Pot Explosion

## Preliminary Incident Details

<b>Operation</b>	PTFI
<b>Date / Time</b>	August 23, 2024 / 8:40 p.m.
<b>Event Type</b>	Injury and Property Damage
<b>Summary</b>	When a telehandler operator was transferring cement into a silo with compressed air, the blow pot (cement transfer storage) exploded. The operator sustained multiple injuries, and the batch plant cement transfer facility was damaged.
<b>Risk Category</b>	<ul style="list-style-type: none"> <li>• Monitor – Significant (3) Likely (3)</li> </ul>
<b>Findings / Missing Controls</b>	<ul style="list-style-type: none"> <li>• Failure to identify excess pressure in the blow pot.</li> <li>• Failure to conduct a proper risk assessment and install safety devices during air compressor replacement.</li> </ul>
<b>Applicable Policies / Procedures</b>	PTFI site policy: <a href="#">Steam Boilers, Pressurized System, and Portable Gas Container</a>
<b>Employee Condition</b>	<ul style="list-style-type: none"> <li>• The employee sustained a head injury and multiple lacerations.</li> </ul>
<b>Contact</b>	<ul style="list-style-type: none"> <li>• Matt Sullivan, Senior VP-Underground Mine</li> </ul>

## Photos / Links



*Damage to the exterior structure.*



*Blow pot and cement transfer facilities damaged by explosion.*



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## Agency Shares

August 2024

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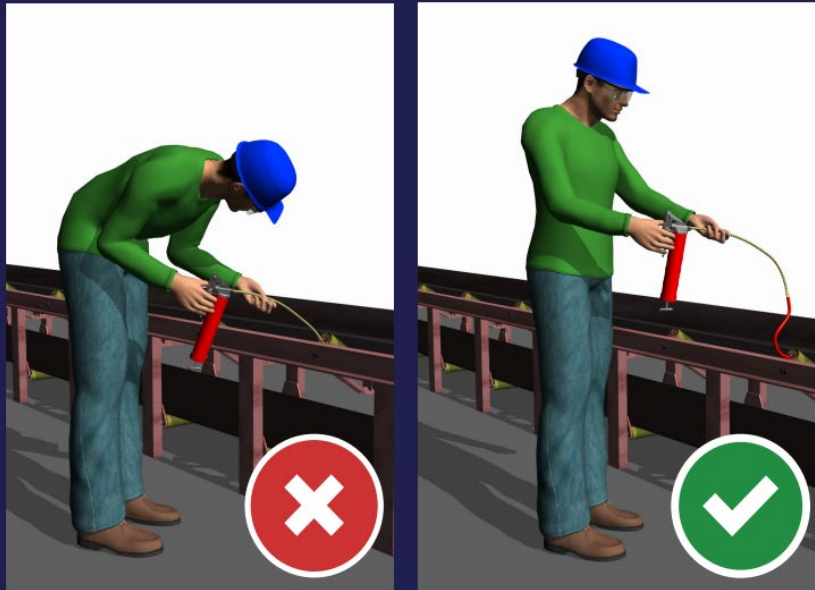
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# Safety Share – Ergonomics

## SIMPLE SOLUTIONS FOR SURFACE MINE WORKERS



## ERGONOMICS IMPROVEMENTS AT SURFACE MINES

One of the largest categories of injuries in mining is **musculoskeletal disorders** (MSDs), and a significant contributor to these MSDs and other mining injuries are slips, trips, and falls (STFs).

MSDs and STFs can be prevented by identifying risk factors and reducing exposure to these risk factors through ergonomics.

NIOSH designed an ergonomic improvement booklet to provide examples of the types of solutions and task design ideas that you can use to reduce exposure to risk factors for musculoskeletal disorders and slips, trips, and falls.

Click [here](#) to access the full resource with examples of ergonomic risks and solutions.



# MSHA Fatality Alert

**MINE FATALITY** – On July 25, 2024, a miner died when he was engulfed in material against the stacker belt conveyor's feed chute. The miner was kneeling and shoveling on the stacker belt conveyor when the belt conveyor unexpectedly rolled back



## Eliminate hazards and prevent injuries:

- Evaluate for possible stored energy and other hazards before beginning work.
- Use proper devices and tools to block machinery against hazardous motion before performing repairs or maintenance.
- Task train miners on safe work practices.

[PDF LINK](#)

# MSHA Fatality Alert

**MINE FATALITY** – On August 5, 2024, a miner was seriously injured when an air lifting bag he was using to rerail the conveyance that was carrying the longwall electrical power center suddenly dislodged. The miner died from his injuries on August 7, 2024.



## Eliminate hazards and prevent injuries:

- Block or secure equipment against hazardous motion.
- Provide miners with proper tools for rerailing track equipment.
- Train miners on safe work procedures and to identify hazards associated with their assigned tasks.

[PDF LINK](#)

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## Policy Updates

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# [PublicPortal.FMI.com/HSPolicies](https://PublicPortal.FMI.com/HSPolicies)

<u>Policy</u>	<u>Talking Points (As Available)</u>	<u>Last Revision Date</u>
<b>Dept. of Occupational H&amp;S Policy Administration</b>		<b>07/2024</b>
Aviation Safety Policy		08/2022
Bus Safety		12/2014
Confined Space		03/2018
Control of Hazardous Energy Sources (LOTOTO)		08/2019
<b>Crane and Rigging</b>	<b>Crane and Rigging Policy Changes</b>	<b>07/2024</b>
Electrical Safety		08/2019
EW ER		02/2017
Flagging and Barricading		01/2019
Hazardous Gas Monitoring Systems and Appurtenances		04/2021
HDPE Pipe Handling		01/2019
Heat Stress Guidelines - English   Spanish		03/2022
Hot Work - English   Spanish		03/2018
Industrial Railroad		06/2017
Interaction with Heavy Mobile Equipment - Surface Road Design, Light Vehicles, and Ground Personnel		02/2017
Material Handling Conveyance		10/2016
Metal Fume Control		04/2021
MSHA Training Requirements for Contractors and Visitors (SOP)		03/2011
Property Entry Guidelines - Surface Mines North America		03/2011
Round Stock Management Policy		01/2020
Standard Safety Requirements Policy		01/2019
<b>Sulfuric Acid Bulk Handling Policy</b>		<b>05/2024</b>
Surface Blasting		10/2021
Utility Location (Blue Stake)		12/2013
Working at Heights		03/2018
Working Hours & Fatigue Management Policy - English   Spanish		07/2022



# Crane & Rigging Policy Updates

- The FCX Crane and Rigging policy has been updated to meet OSHA standards: Requiring those operating mobile cranes rated for 2,000lbs/907kg and above to be certified by the National Commission for the Certification of Crane Operators (NCCCO).
- Mobile cranes include boom trucks, carry deck cranes, rough terrain, all terrain, truck mounted, articulated boom trucks, and crawler mounted cranes.
- Those currently operating under a different certification can continue until it expires. After that, an NCCCO certification will be required.
- Operators of service truck cranes used exclusively for maintenance/repair activities are not required to be NCCCO certified.
- Resources:
  - [PublicPortal.FMI.com/HSPolicies](https://PublicPortal.FMI.com/HSPolicies)
  - [NCCCO - OSHA's Crane Rule Resource Center](#)
  - [NCCCO - OSHA's Rule FAQs](#)

**Please fill out if you have any crane operators that will need to be NCCCO certified.**



<https://forms.office.com/r/E9YNC0nXXP>

# Morenci H&S Policy Review Schedule

- **PROCESS:** Policy Review – Work Audit / Gap Analysis – Knowledge Checks – Training – Action
- If policy applies to your company – please have site leadership attend these sessions. Invites will be sent out with links to resources.

Morenci Contractor Policy Review Process						
Month	Meetings	Policy	FRM Checklist	Digital Knowledge Check	Paper Knowledge Check	Knowledge Check Answers
September 2024	9/24/2024	<a href="#">Control of Hazardous Energy</a>	<a href="#">FRM- CoHE Checklist</a>	<a href="#">CoHE Knowledge Check (MS Form)</a>	<a href="#">CoHE Knowledge Check (Paper Form)</a>	<a href="#">CoHE Knowledge Check Answers</a>
October 2024	10/22/2024					
November 2024	11/19/2024	Working at Heights				
December 2024	12/17/2024					
January 2025	1/21/2025	Crane and Rigging				
February 2025	2/18/2025					
March 2025	3/18/2025	Hot Work				
April 2025	4/15/2025					
May 2025						
June 2025						
July 2025						
August 2025						

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## Plant Engineering – Safety Champions

FRM Audit Review

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# Work Performed and FRM





# Work Performed and FRM

- Dust Collector Filter Changeout.



**Falling Objects**



**Exposure to Hazardous Substances - Chronic**



**Vehicle Collision or Rollover**



**Fall from Heights**



**Confined Space**



**Vehicle Impact on Person**





# Commitment to Safety

## How We Put Safety First

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### All Employees

- Report fit for duty
- Take responsibility for my own and others' safety
- Assess risk and eliminate hazards using specified controls
- Follow all standard operating procedures
- Speak up and stop work if it's not safe or unclear
- Promptly act on unsafe conditions

### All Leaders

- Set clear safety and work expectations
- Ensure certifications/trainings are current for assigned work
- Support, demonstrate and teach safe work practices
- Coach to safety standards and confirm understanding
- Prioritize time in the field and engage in safety conversations
- Listen to employees and follow up on concerns
- Reinforce the expectation to stop work

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Date: 08-28-24 Shift: A

**FREEPORT-McMORAN Job Risk Assessment**

Identify & evaluate job risks, exposure, hazards & potential energy, then mitigate them through the hierarchy of control. Complete this form at the job site with all involved employees. If conditions change, STOP work & review with all involved.

Equipment #: \_\_\_\_\_ Work Area: Met-Carb

Job Description: Filter Change Over

WO #: \_\_\_\_\_

Routine  Non-Routine  Is there an SOP for the job? Yes  No  Was the SOP reviewed? Yes  No

**Fatal Risk Management** Circle those that apply

Blasting	Confined Space	Contact with Electricity	Drowning
Entanglement and Crushing	Hazardous Substance - Acute	Hazardous Substance - Chronic	Fall from Heights
Falling Objects	Fire	Ground Failure	Lifting Operations
Rail Collision	Rail Impact on Person	Uncontrolled release of Energy	Vehicle Collision or Rollover
Vehicle Impact on Persons			

**Additional Hazard Identification** Only mark those that apply

Work Environment	Energy Sources
Are there any elements or conditions in the work environment that could injure you or others? <input type="checkbox"/> Illumination / Visibility <input type="checkbox"/> Engulfment <input type="checkbox"/> Noise <input type="checkbox"/> Wildlife / Insects <input type="checkbox"/> Highwalls / Slopes <input type="checkbox"/> Weather <input type="checkbox"/> Water <input checked="" type="checkbox"/> Dust <input type="checkbox"/> Atmosphere (H <sub>2</sub> S, CO <sub>2</sub> , air, mist etc.) Other: _____	Have all potential energy sources that may injure you or others been identified? <input type="checkbox"/> Electricity <input type="checkbox"/> Radiation <input type="checkbox"/> Hydraulic <input type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Pneumatic / Air <input type="checkbox"/> Gravity <input type="checkbox"/> Thermal <input type="checkbox"/> Stored / Under Pressure <input type="checkbox"/> Chemical / Corrosive <input type="checkbox"/> Explosive Other: _____

Line of Fire	Personal / Behavior
Will any proximity to work, movement, release or change in condition cause you or others injury? <input type="checkbox"/> Overhead Work <input type="checkbox"/> Fly Metal <input type="checkbox"/> Power Lines / Cables <input type="checkbox"/> Arc Flash / Blast <input type="checkbox"/> Material Handling <input type="checkbox"/> Objects in Motion <input type="checkbox"/> Trenching / Excavating <input type="checkbox"/> Pipe Handling <input type="checkbox"/> Tooling Failure <input type="checkbox"/> Mobile Equipment <input type="checkbox"/> Constricted Work Area <input checked="" type="checkbox"/> Congestion / Traffic Other: _____	What personal conditions, actions or thoughts like complacency, could result in injury to you or others? <input checked="" type="checkbox"/> Slips / Trips / Falls <input checked="" type="checkbox"/> Housekeeping <input type="checkbox"/> Sprain / Strain <input type="checkbox"/> Training / Competence <input type="checkbox"/> Ascending / Descending <input type="checkbox"/> Communication <input type="checkbox"/> Pinch Points: Hand, Body <input type="checkbox"/> Equipment Interaction <input type="checkbox"/> Footing / Uneven Ground <input type="checkbox"/> Fatigue <input type="checkbox"/> Ergonomics <input type="checkbox"/> Hydration Other: _____

September 4, 2018    Printed documents are not controlled    Revision 1

**Hierarchy of Control**

Elimination	<input checked="" type="checkbox"/> LOTOTO	<input checked="" type="checkbox"/> Vehicle Safety Devices	<input checked="" type="checkbox"/> Rest / Breaks
Substitution	<input type="checkbox"/> Access Control / Barriers	<input type="checkbox"/> Process / SOP	<input type="checkbox"/> Spotter / Signal Person
Engineering	<input checked="" type="checkbox"/> Flagging / Signage	<input checked="" type="checkbox"/> Blocking / Isolation	<input type="checkbox"/> Fire Watch / Attendant
Administrative	<input type="checkbox"/> Equipment / Tooling	<input type="checkbox"/> Fire Suppression System	<input checked="" type="checkbox"/> Lights / Signals
Behavior	Other: _____		
PPE			

\*If a control causes more of a hazard, apply for a variance

**Permits / Forms** Proper execution of a permit is the control, not the paper

Hot Work     Critical Lifting     High Wall     Blasting  
 Blue Stake     Confined Space     Dump     HDPE

Other: None

**Behavior** Individual willingness & focus on safety

Inspect Equipment / Tools     Consequence Thinking     Pre/Post Job Housekeeping     Fit for Duty  
 Work Place Examination     Hand / Body Placement     3 Points of Contact     Communication

Other: \_\_\_\_\_

**PPE** Beyond minimum required

Fall Protection     Skin Protection: Bugs, Sun     Rubber Suits: Acid, Rain, Boots, etc.  
 Arc Flash Clothing     Face Shields / Goggles     Monitor: Gas, Chemical, Radiation, etc.  
 Welding Gear     Respirator / Supplied Air     Hearing Protection: Plugs, Double  
 Flotation Device     Clothing for Weather     Gloves Suitable for Job: Leather, Rubber, Kevlar etc.

Other: \_\_\_\_\_

**Fatal Risk Hazards** List the main fatal risks / hazards

Vehicle Impact On Person  
Falling From Heights  
Vehicle Collision Or Rollover

**Critical Controls** List the main control for the hazard

360 View / Traffic Control / Communication  
Respirator / Rest & Breaks  
Fall Protection  
Traffic Control / Speed Limit / Communication  
Lock Out Tag Out / Safety Emer.

**Main Lockout** Points / Station / Box

1. Simple Disconnect    In case of **Emergency** Phone: dial 865-6600  
 2. \_\_\_\_\_    Radio: press the **ORANGE** button or call out "May Day, May Day, May Day"  
 3. \_\_\_\_\_    Evacuation point: Caravan / Towers  
 4. \_\_\_\_\_     Fire extinguisher inspected & in area  
 5. \_\_\_\_\_     Shower / eye wash station in area    Spill Hotline: 865-SPILL (7745)

**Acknowledgement & Commitment to Safety** I am responsible for my safety & my coworkers safety. I am obligated to stop unsafe work & I will stop unsafe work.

Payroll #	(& Contractor Company)	Initials	Payroll #	(& Contractor Company)	Initials	Payroll #	(& Contractor Company)	Initials
<u>1</u>	<u>Danny Escobar EDC</u>	<u>DE</u>	<u>61010041</u>	<u>EDC</u>	<u>JR</u>			
<u>2</u>	<u>John Stanfield EDC</u>	<u>JS</u>	<u>61010119</u>	<u>FME</u>	<u>CR</u>			
<u>3</u>	<u>Jesús Gonzalez EDC</u>	<u>JG</u>	<u>61023142</u>	<u>FME</u>	<u>KSD</u>			
<u>4</u>	<u>Arash Ghazali EDC</u>	<u>AG</u>						
<u>5</u>	<u>Robert Stegall EDC</u>	<u>RS</u>						

Job Lead Name: Danny Escobar Payroll # \_\_\_\_\_ Date: 08-28-24 Time \_\_\_\_\_  
 Supervisor: James Reyes Contact Info: \_\_\_\_\_

September 4, 2018    Printed documents are not controlled    Revision 1



# Critical Controls

- Critical Controls
  - LOTOTO
  - Flagging and Segregation
  - Housekeeping
  - Positive Communication
  - Confined Space Permit
  - Spotters
  - Standard PPE
  - Respirator
  - Harness and Lanyard
  - Tyvex Suits

Workorder # \_\_\_\_\_ Rev. 002 January 6, 2020

**FREEMPORT-McMORAN** WORK PLACE EXAMINATION – Fixed Plant

COMPETENT PERSON: Danny Escobar DATE: 08-28-24 SHIFT: A

AREA(s) Examined: filter change out

Some Area Hazards To Look For – Also Consider Other Adverse Conditions		
Inadequate berms, road conditions	Exposed electrical conductors	Damaged/missing machine guarding
Unsafe travel ways	Obstructed electrical enclosures	Raveling or unstable high walls
Spills/muddy conditions in walkways	Inadequate lighting	Accumulation of combustibles
Damaged handrails or grating	Damaged e-stops, pull cords	Life rings/floatation vest unavailable
Damaged stairs, steps, ladders or platforms	Damaged chemical/electrical/warning labels or signs	Damaged/inaccessible Eyewash stations

DESCRIPTION OF EACH ADVERSE SAFETY CONDITION	WORK ORDER/AIT #	DATE CORRECTED
<u>Spill / Muddy Conditions in Walk way</u>		
<u>Spill from Walkway Submerge with Water</u>		

**Work areas to be examined:**  
Places work will be performed during shift; Areas employees travel during the shift

**Work Order Instructions:** Work Orders will be created in SAP for each adverse condition not promptly corrected. In order to tie the work order back to the WPE, please include the following: Short description: WPE (Description of Adverse Condition); Long description: name of Competent Person, Date and Shift; PmActType: SAF; Notfctn: WPE1 (under 80 Regulatory)

**AIT Instructions:** Action Items will be created in AIT for each adverse condition not promptly corrected prior to the end of shift in which the WPE was done. In order to tie the action item back to the WPE, please include the following: Summary: WPE (Description of Adverse Condition); Description: name of Competent Person, Date and Shift; Category: "Division Name"; Item Affected: Audit; Type: Work Place Examination

**Adverse Conditions:** Adverse conditions promptly repaired prior to employee exposure need to be noted on form. Adverse conditions not promptly corrected will be controlled with flagging, barricade or berms and tags/signs detailing adverse condition until corrected. Once corrected, this original WPE must have date of correction added.

**Communication:** Adverse conditions not promptly corrected must be communicated to employees prior to work beginning in the affected area. Example of required communication may include: tailgate safety meetings, radio notification, flagging & tagging, barricades with signs, etc.



# Notable Findings

## Safety Successes

- ✓ JRA and Workplace Exam were easily accessible
- ✓ Adequate housekeeping for work including cleaning out mud with vac truck and skidsteer.
- ✓ Work area/ drop zone was segregated adequately.

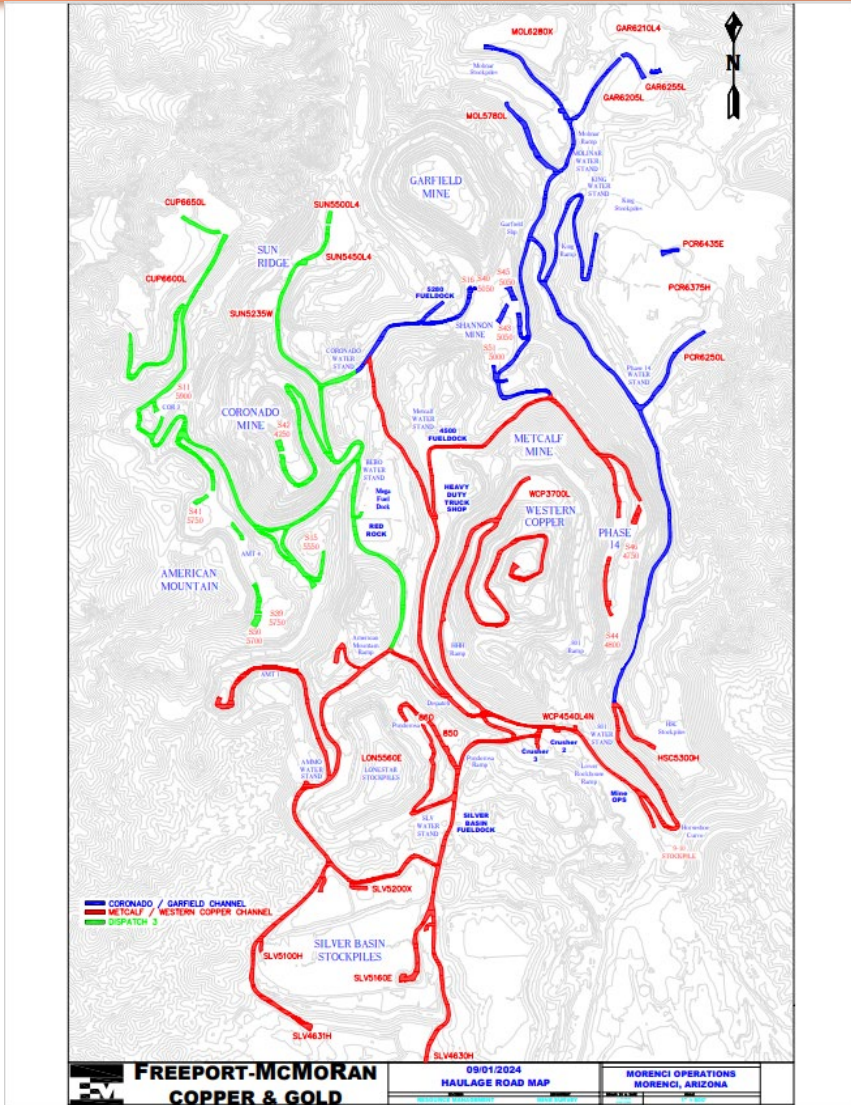
## Opportunities for Improvement

- ★ Reinforce the importance of respirators and their effect of Chronic Hazardous Substances
- ★ Ensure JRA sections match among one another.
- ★ Avoid blowing off dust with pressurized air. (Use vacuum or tyvex suits instead)

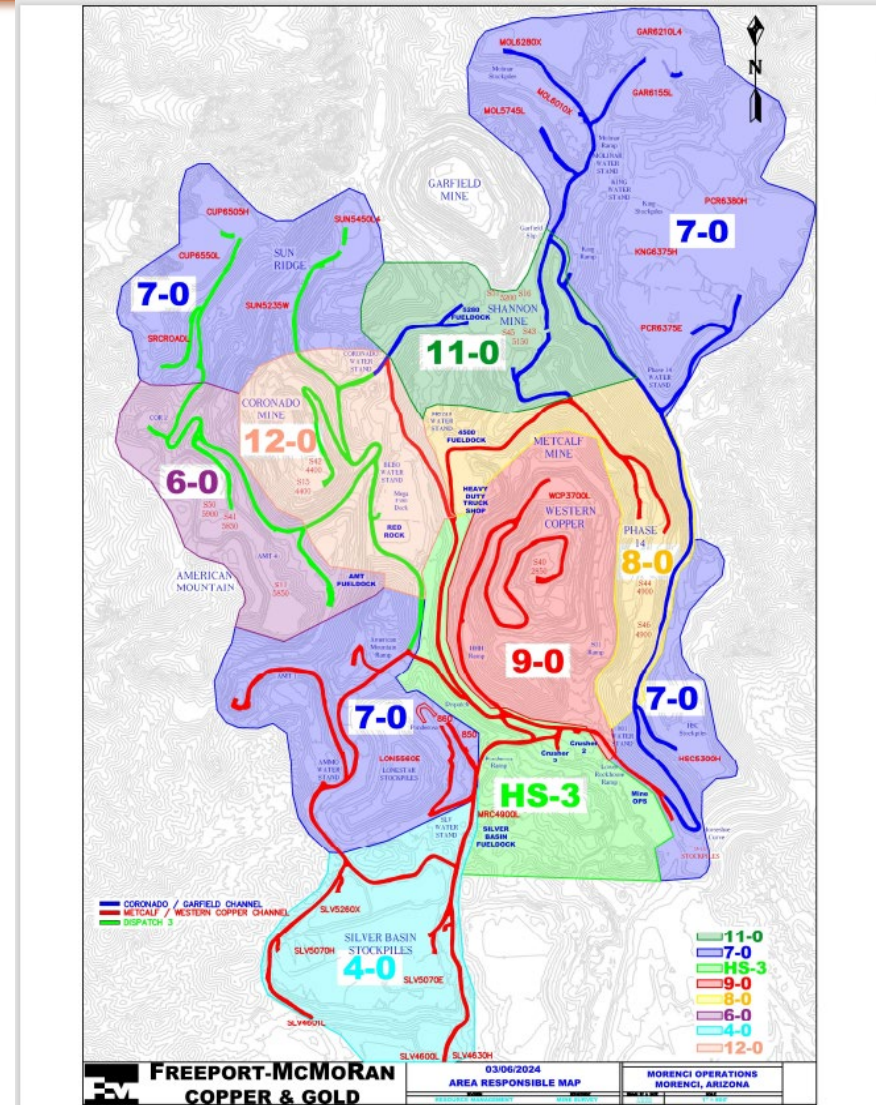


**SAFE**  
PRODUCTION  
MATTERS

# Radio Channel and Area responsible Map



Updated Radio Channel map



Area responsible Map



THE VALUE OF  
**COPPER**

**Guest Speaker - SUNDT**

September 2024

**FCX**  
LISTED  
NYSE



ICMM  
Member



*All Operating Sites*

**SAFE**  
PRODUCTION  
MATTERS

[fcx.com](http://fcx.com)

**FREEPORT**  
FOREMOST IN COPPER



**SUNDT**

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**Morenci Contractor Safety Meeting**

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Dale Gossett and CiCi  
Villalba





for yourself

for your family




SAFETY BY CHOICE

Stop the STCKY®

for your coworkers




  Hello there! I'm ChatSafetyAI, your virtual construction safety expert! I'm here to help you with all your construction safety-related concerns. Just ask me anything, and I'll do my best to provide you with clear and concise answers to keep you safe on the job site! 😊👤

 is zero accidents possible in construction?

 Zero accidents

 please continue

 Zero accidents in construction is an ambitious goal, but it may be challenging to achieve complete elimination of accidents. However, it is crucial to strive for continuous improvement in safety to minimize the number and severity of accidents. Here are some key points to consider:

1. **Safety Culture:** Establishing a strong safety culture within the construction industry is essential. This involves promoting safety as a core value, encouraging open communication, and fostering a proactive approach to identifying and addressing potential hazards.
2. **Risk Assessment:** Conducting thorough risk assessments before starting any construction project helps identify potential hazards and implement appropriate control measures to mitigate risks.
3. **Training and Education:** Providing comprehensive safety training to all workers, including hazard recognition, proper equipment usage, and emergency procedures, can significantly reduce accidents.
4. **Safety Equipment:** Ensuring the availability and proper use of personal protective equipment (PPE) is crucial. This includes hard hats, safety glasses, gloves, and fall protection gear, among others.
5. **Regular Inspections:** Conducting regular inspections of the job site helps identify potential hazards and take corrective actions promptly.
6. **Communication and Reporting:** Encouraging workers to report near misses, incidents, and potential hazards promotes a proactive safety culture and allows for timely corrective measures.

While achieving zero accidents may be challenging, implementing these measures can significantly reduce the risk of accidents and create a safer work environment. Remember, safety is a collective responsibility, and everyone on the job site plays a vital role in ensuring a safe working environment. ■

# Zero



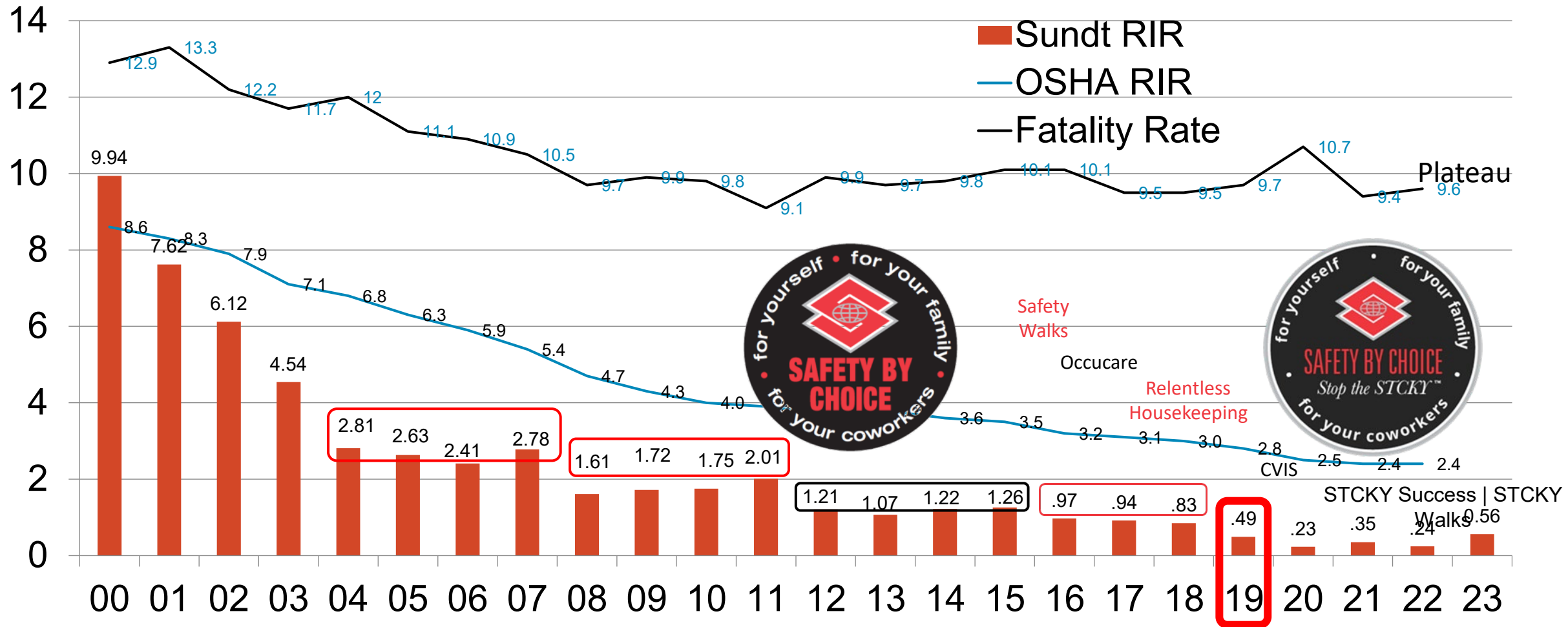
# *What is the Goal?*

- Zero Incidents
- Zero Injuries
- STCKY Zero
- 100% STCKY Success

# *Zero*



# OUR SAFETY JOURNEY





Sundt is enhancing our traditional rules-based compliance program by leveraging the principles of energy-based safety and human performance.



STOP The STCKY is designed to recognize and mitigate **high-energy hazards**, (STCKY - S#! That Can Kill You),

through the identification, implementation, and execution of **direct controls and safeguards**.

# Dashboard Homepage

SELECT AN ACTION TO NAVIGATE TO THE DASHBOARD

A

PLAN THE WORK  
WORK THE PLAN

UNDER CONSTRUCTION

ENGAGE OUR  
WORKFORCE

UNDER CONSTRUCTION

WALK OUR JOB SITES

COACH OUR TEAMS

OWN RELENTLESS  
HOUSEKEEPING

UNDER CONSTRUCTION

REPORT & MANAGE OUR  
INCIDENTS





# Engagement



- Off-The-Job



- On-The-Job



- Doing-The-Job







SUNDT

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High Energy Control Assessments

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STCKY Walks



# STOP THE STCKY®

*Our beliefs fuel our actions and our actions drive our results*



## Beliefs

### LEARNING

Learning is a deliberate improvement strategy. Ask "how" instead of "why." Accountability still in play.

### MISTAKES

To err is human. We will make mistakes.

### DEVIATIONS

How we work our plan is not always how we planned our work.

### CONTEXT

We choose what we do for a reason, and that reason makes sense to us in that moment.

### RESPONSE

Blame fixes nothing. Our response to unplanned events shapes how we learn.

### SHOW ME STCKY

Speak up | Listen up for STCKY

*Practice Radical Candor: Care Personally & Challenge Directly*

## Actions

PLAN THE WORK  
WORK THE PLAN

ENGAGE OUR  
WORK FORCE

WALK OUR  
JOB SITES

HAZARD RECOGNITION



PUSH VERSUS PULL

COACH OUR  
TEAMS

OWN RELENTLESS  
HOUSEKEEPING

REPORT AND MANAGE  
OUR INCIDENTS

## Results

**TIR**  
Total Incident Rate

STCKY Success

**STCKY**  
Luck

STCKY Injury

**STCKY WALKS**  
STCKY Success | STCKY Luck

**RIR**  
Recordable Injury Rate





# STCKY Walks



10:38 [Signal] [Wi-Fi] [Battery]

< Projects **Modules** [Refresh]

[Icon: Hard Hat] **HS&E**

[Icon: Gear] **Quality**

[Icon: Scales] **Compliance**

[Icon: Layers] **Projects** [Icon: Document] **To-Do List** [Icon: Bell] **Notifications** [Icon: Menu] **Menu**

10:38 [Signal] [Wi-Fi] [Battery]

< Modules **Categories** [Refresh]

HS&E [Icon: Hard Hat] **Forms**

[Icon: Hard Hat] **Stop the STCKY**

[Icon: Layers] **Projects** [Icon: Document] **To-Do List** [Icon: Bell] **Notifications** [Icon: Menu] **Menu**

Stop the S... **Forms** **Tasks** [Search] [Menu]

[Icon: Document] **S#!t That Lifts**

[Icon: Document] **S#!t That's Built at Heights**

[Icon: Document] **S#!t That's Built in Confined Spaces**

[Icon: Document] **S#!t That's Built Underground**

[Icon: Document] **S#!t That's Energized**

[Icon: Document] **S#!t That's Hazardous**

[Icon: Document] **S#!t That's Moves | Crushes**

[Icon: Document] **S#!t That's Stores Energy**

[Icon: Layers] **Projects** [Icon: Document] **To-Do List** [Icon: Bell] **Notifications** [Icon: Menu] **Menu**





# STCKY Walks



## STCKY CONTROLS

\* Utility strike prevention measures in place? [i](#)

- Yes
- No

\* Atmosphere within excavation verified as safe for work? [i](#)

- Yes
- No

\* Safe access to the work area? [i](#)

- Yes
- No
- Not Applicable

\* Cave-in protection in place? [i](#)

- Yes
- No
- Not Applicable

2:09



< Back

Details

### Cave in Protection in Place?

Cave Excavations 5 feet deep or greater have a protective system

Excavations greater than 20 feet in depth designed by professional engineer

Spoils, materials, and equipment set back at least 2 feet from the edge of the excavation

Loose rock or soil at excavation face sealed back

#### Sloping / Benching –

Sloping/Benching appropriate for soil classification

Type A Soil - 3/4 - 1 If 12' or less and open for less than 24 hrs.

Type B Soil - 1 - 1

Type C Soil - 1 1/2 – 1

#### Trench Box or Shield –

Tabulated Data on site

Box placed to prevent lateral movement

Box extends 18" above excavation

Box no more than 24" from bottom of excavation

#### Hydraulic Shoring –

Tabulated Data must be on site

## STCKY CONTROLS

\* Cave-in protection in place? [i](#)

- Yes
- No
- Not Applicable

\* Cave in Protection - Corrective Actions

- Install protective system for excavations 5' deep or greater
- Secure design document for excavations greater than 20'
- Set back spoils, materials, and equipment least 2' excavation edge
- Seal back loose rock or soil at excavation face
- Prevent accumulation of water
- Ensure sloping/benching appropriate for soil classification
- Type A Soil - ¾:1 If 12' or less and open for less than 24 hrs.
- Type B Soil – 1:1
- Type C Soil - 1 ½:1 (type C soil cannot be benched)
- Ensure tabulated data on site



# STCKY Walks



## STCKY CONTROLS

## STCKY CONTROLS

## STCKY CONTROLS

## STCKY CONTROLS

\* Reason for lack of Cave in Protection controls? [i](#)

- Cave in hazard(s) not recognized
- Cave in control(s) not identified
- Cave in control(s) not implemented
- Cave in control(s) not executed

\* What prevented the hazard from being recognized? Select all that apply.

- Lack of Knowledge [i](#)
- Inadequate training [i](#)
- Lack of awareness [i](#)
- Insufficient risk assessment [i](#)
- Rushed planning or inadequate preparation [i](#)
- Lack of communication [i](#)
- Inadequate hazard identification process [i](#)
- Unclear responsibilities [i](#)
- Assumptions and biases [i](#)

\* Reason for lack of Cave in Protection controls? [i](#)

- Cave in hazard(s) not recognized
- Cave in control(s) not identified
- Cave in control(s) not implemented
- Cave in control(s) not executed

\* What prevented a control from being identified? Select all that apply.

- Lack of familiarity with specific high energy hazards [i](#)
- Inadequate training on high energy controls [i](#)
- Insufficient risk assessment [i](#)
- Lack of available control options [i](#)
- Resource constraints [i](#)
- Time constraints [i](#)
- Risk Tolerance [i](#)
- Emphasis on production [i](#)
- Lack of communication and collaboration [i](#)

\* Reason for lack of Cave in Protection controls? [i](#)

- Cave in hazard(s) not recognized
- Cave in control(s) not identified
- Cave in control(s) not implemented
- Cave in control(s) not executed

\* What prevented the control from being implemented? Select all that apply.

- Cost considerations [i](#)
- Lack of understanding or awareness [i](#)
- Resistance to change [i](#)
- Inadequate planning [i](#)
- Resource constraints [i](#)
- Time constraints [i](#)
- Lack of leadership support [i](#)
- Perceived inconvenience [i](#)
- Risk Tolerance [i](#)

\* Reason for lack of Cave in Protection controls? [i](#)

- Cave in hazard(s) not recognized
- Cave in control(s) not identified
- Cave in control(s) not implemented
- Cave in control(s) not executed

\* What prevented the control from being executed? Select all that apply.

- Inadequate training [i](#)
- Lack of supervision [i](#)
- Risk Tolerance [i](#)
- Lack of accountability [i](#)
- Failure to maintain equipment [i](#)
- Miscommunication or misunderstandings [i](#)
- Production pressures [i](#)
- Resource constraints [i](#)
- Lack of awareness [i](#)





# STCKY Walks



## Complete Assessment

\* Location | Notes | Comments

250 characters remaining

Frontline supervisor(s) responsible for operation



STCKY Success - Description of Recognition

4000 characters remaining

Individuals receiving recognition (Select all that apply)

## Complete Assessment

\* Location | Notes | Comments

250 characters remaining

Frontline supervisor(s) responsible for operation



STCKY Luck - Description of Coaching

4000 characters remaining

Individuals receiving coaching (Select all that apply)



SUNDT

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High Energy Control Assessments

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STCKY Walks





# Engagement



## Red Boards

• Doing-The-

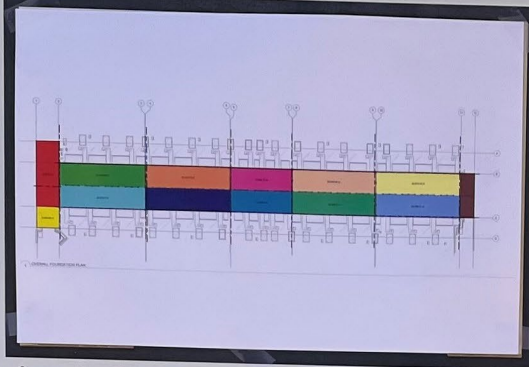




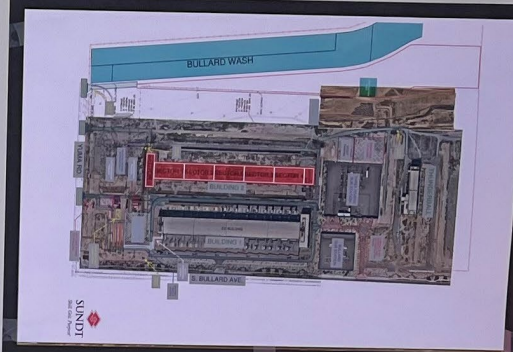
### WEEKLY PRODUCTION GRAPH



### SEQUENCE PLAN / SCHEDULE



### LOGISTICS MAP / STAGING PLAN



FOREMAN: EDUARDO FIBRERA - 602-748-7974

FOREMAN: TODD BUN - 602-339-7449

SUPERINTENDENT: GERARDO LOPEZ - 602-370-9307

PROJECT ENGINEER: WILLIAM HEATON - 503-318-7971

#### STCKY

- Impalements
- Struck By / Caught Inbetween
- Overhead Loads
- Electrical Shock
- Other trades in work area
- Cuts (Power tools)
- Dehydration

#### QUALITY

- Double check Layout & Elevation
- Trenches are in correct location
- Slip dowels are straight
- Forms are plumb & Aligned
- Turn buckles are snug & Half'n'Half
- Chamfer is straight
- Channels are secure: AC Pads
- Vapor barrier has 6" overlap
- Diamonds are set to correct elevation
- Expansion has 2" Kerf
- Proper spacing on ALL Dowels/Embedment
- Trim bar installed @ all corners

#### PRODUCTION

- Drill holes for slip dowels: SB
- Prep/Set Headers: Downway Sector 0
- Layout Equipment Pads: SB
- Set Panels/Form for Equip. Pads: SB
- Strip Equip. Pads: 2B/2A
- Lay down Vapor barrier: Sector 0
- Set up for Placement: Sector 0 Pads: 1B
- Install Richmond dowels
- Cut channels for AC Pads -> PREP
- Apply Blackhawk: Sector 3 & 4

#### INSPECTIONS

- 4/25: SPEEDIE - CYLINDERS @ 12AM
- 4/26: SPEEDIE - EPOXY @ 1230 PM
- 4/27: SPEEDIE - CYLINDERS @ 1AM

#### PLACEMENTS

- 4/25: Equip. Pads - 2B/2A @ 12AM  
120 cu yds w/ Pump truck
- 4/26: S.O.G. Sector 0 180 cu yds  
w/ Pump truck



#### HOT TOPICS & NOTES

- House Keeping (Relentless)
- Inspect all equipment prior to use
- Pinch Points
- Uneven terrain
- Wildlife
- Ergonomics
- Use a spotter (if needed)
- All material on dunnage
- Proper P.P.E. for task @ hand
- Drink Water
- Inspect all tools prior to use
- Hand/Body Position
- Pay attention to flagging/Signage

#### DATE

04/26/23 90° / Sunny

Occucare  
866-268-0884  
Shawn Werner  
602-920-8213





## RED BOARD ENGAGEMENT ASSESSMENT

- Was a systematic description of today's scope of work given to the crew?
  - Did we discuss sequencing of the scope or the flow of the schedule?
  - Did we reference the location of the scope of work and potential staging on an overall logistics plan?
- Has the STCKY exposure been addressed as it relates to today's activities?
  - Have we identified all applicable exposures compared to the STCKY energy wheel?
  - Was there interactive discussion during STCKY topics?
- Were the controls discussed to mitigate the STCKY exposure for today?
  - Were safe behaviors or action encouraged?
  - Were specific controls discussed for each STCKY hazard recognized?
- Have the necessary tools and equipment been identified and discussed?
  - Were the tools and equipment required by the crew to complete today's scope of work discussed?
  - Have we recently inspected these tools and equipment for safety and operational compliance?
- Did we discuss breaks, stop work authority, safety time-outs, reporting of all incidents, as well as looking out for each other?
  - Daily reinforcement of breaks, hydration, and safety incident reporting procedure encouraged?
  - Empower all employees to stop any unsafe conditions being performed by any workers or trades.
- Have we talked about quality expectations related to the final product?
  - Was it conveyed to the crew the quality requirements in the specifications?
  - What materials are we using to achieve the desired final product?
- Did the supervisor address productivity expectations with the crew?
  - How many units (linear feet, square feet...) does the crew have to install today?
  - What does success look like? In what time frame?
- Have we informed the crew of critical schedule items?
  - Areas and Times of inspections, today and later this week?
  - What day and time are we scheduled for concrete placement?
- Did we finish the meeting with any hot topics relevant to the entire team?
  - Hot topic examples: other trades working concurrently in the area, weather, project visitors, etc.
- Has the supervisor involved feedback from other participants throughout the meeting to encourage engagement?
  - Did the supervisor "pull" information from the crew involving today's plan?



## ASESORIA DEL COMPROMISO DE EL PIZARRON ROJO

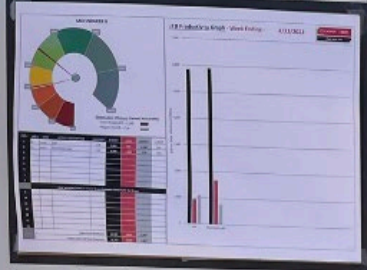
- ¿Se dio a el equipo una descripción sistemática del alcance del trabajo de el día?
  - ¿Discutimos la secuencia del alcance o el flujo de el Horario?
  - ¿Hicimos referencia a la ubicación del alcance del trabajo y la posible puesta en escena en un plan logístico general?
- ¿Se ha abordado la exposición a STCKY en relación con las actividades actuales?
  - ¿Hemos identificado todas las exposiciones aplicables en comparación con la rueda de energía STCKY?
  - ¿Hubo discusión interactiva durante los temas de STCKY?
- ¿Se discutieron los controles para mitigar la exposición a STCKY para hoy?
  - ¿Se alentaron comportamientos o acciones seguras?
  - ¿Se han examinado los controles específicos para cada peligro de STCKY?
- ¿Se han identificado y discutido las herramientas y el equipo necesarios?
  - ¿Se discutieron las herramientas y el equipo requeridos por el equipo para completar el alcance del trabajo de hoy?
  - ¿Hemos inspeccionado recientemente estas herramientas y equipos para garantizar la seguridad y el cumplimiento operativo?
- ¿Discutimos los descansos, la autoridad de detener el trabajo, los tiempos de espera de seguridad, el informe de todos los incidentes, así como cuidarnos unos a otros?
  - Se fomenta el refuerzo diario de los descansos, la hidratación y el procedimiento de notificación de incidentes de seguridad
  - Empoderar a todos los empleados para detener cualquier condición insegura que realicen los trabajadores u oficios.
- ¿Hemos hablado de expectativas de calidad relacionadas con el producto final?
  - ¿Se transmitió a el equipo los requisitos de calidad en las especificaciones?
  - ¿Qué materiales estamos utilizando para lograr el producto final deseado?
- ¿El supervisor hablo de las expectativas de productividad con la tripulación?
  - ¿Cuántas unidades (pies lineales, pies cuadrados...) tiene que instalar el equipo hoy?
  - ¿Cómo se ve el éxito? ¿En cuanto tiempo?
- ¿Hemos informado a el equipo de los elementos críticos de el horario?
  - ¿Áreas y tiempos de inspecciones, hoy y durante esta semana?
  - ¿Qué día y hora estamos programados para la colocación de concreto?
- ¿Terminamos la reunión con algún tema urgente relevante para todo el equipo?
  - Ejemplos de temas urgentes: otros oficios que trabajan simultáneamente en el área, clima, visitantes de proyectos, etc.
- ¿Ha participado el supervisor en la fomentación de otros participantes durante toda la reunión para fomentar el compromiso?
  - ¿El supervisor sacó información de el equipo que involucraba el plan de hoy?



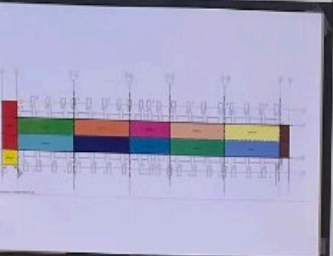


# RED BOARD ENGAGEMENT ASSESSMENT

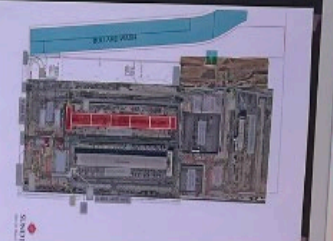
## WEEKLY PRODUCTION GRAPH



## SEQUENCE PLAN / SCHEDULE



## LOGISTICS MAP / STAGING PLAN



FIREMAN: EDUARDO FERRERON - 602-748-7474    FIREMAN: TROY BURN - 602-859-7194    SUPERINTENDENT: GERARDO Lopez - 302-370-8547    PROJECT ENGINEER: WILLIAM HEATON - 503-318-7471

### STCKY

- Impalements
- Struck By / Caught Inbetween
- Overhead Loads
- Electrical Shock
- Other trades in work area
- Cuts (Power tools)
- Dehydration

### QUALITY

- Double check Layout & Elevation
- Trenches are in correct location
- Slope levels are straight
- Fences are plumb & Aligned
- Turn buckles are snug & Half'n'Half
- Character is straight
- Channels are secure; AC Pads
- Vapor barrier has 6" overlap
- Dimensions are set to correct elevation
- Expansion has 2" kerf
- Proper spacing on ALL Drains/embalment
- Trim bar installed @ all corners

### PRODUCTION

- Drill holes for slip sheets: SB
- Prep/Get Headers; Darning; Suter D
- Layout Equipment Pads: SB
- Sit Pads/Form for Strip Pads: SB
- Strip Equip. Pads: SB/2A
- Lay down Vapor barrier: Suter D
- Set up for Placement: Suter D
- Install Rebar: Suter D
- Cut channels for AC Pads w/ Papp
- Apply Blackhead: Suter S + A

INSPECTIONS	PLACEMENTS
4/25: STRIPS @ 15MM	4/25: Equip. Pads - SB/2A @ 2MM
4/26: STRIPS - EXIST @ 15MM	150 AC vls w/ Pump truck
4/27: STRIPS - COLUMNS @ 15MM	4/28: S.O.G. Suter D 150 AC vls w/ Pump truck

### HOT TOPICS & NOTES

- Unseen terrain
- Drink Water
- Wildlife
- Ergonomics
- Use a spade (if needed)
- Hand/Body Position
- House Keeping (Relentless)
- Inspect all equipment prior to use
- All material on drawings
- Prep solution to lightning/Storms
- Fresh Prints
- Proper PPE for task & hand

DATE: 04/26/23    90° / Sunny

Occucare  
866-268-0884  
Shawn Werner  
602-920-8213



1. Was a systematic description of today's scope of work given to the crew?

- Did we discuss sequencing of the scope or the flow of the schedule?
- Did we reference the location of the scope of work and potential staging on an overall logistics plan?

2. Has the STCKY exposure been addressed as it relates to today's activities?

- Have we identified all applicable exposures compared to the STCKY energy wheel?
- Was there interactive discussion during STCKY topics?

3. Were the controls discussed to mitigate the STCKY exposure for today?

- Were safe behaviors or action encouraged?
- Were specific controls discussed for each STCKY hazard recognized?

4. Have the necessary tools and equipment been identified and discussed?

- Were the tools and equipment required by the crew to complete today's scope of work discussed?
- Have we recently inspected these tools and equipment for safety and operational compliance?

5. Did we discuss breaks, stop work authority, safety time-outs, reporting of all incidents, as well as looking out for each other?

- Daily reinforcement of breaks, hydration, and safety incident reporting procedure encouraged?
- Empower all employees to stop any unsafe conditions being performed by any workers or trades.

6. Have we talked about quality expectations related to the final product?

- Was it conveyed to the crew the quality requirements in the specifications?
- What materials are we using to achieve the desired final product?

7. Did the supervisor address productivity expectations with the crew?

- How many units (linear feet, square feet...) does the crew have to install today?
- What does success look like? In what time frame?

8. Have the times been given to the crew for inspections and/or concrete placements for today and/or later this week?

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9. Did we finish the meeting with any hot topics relevant to the entire team?

- Hot topic examples: other trades working concurrently in the area, weather, project visitors, etc.

10. Has the supervisor involved feedback from other participants throughout the meeting to encourage engagement?

- Did the supervisor "pull" information from the crew involving today's plan?







\* Safe handling, use, and storage of hazardous materials?



- Yes
- No
- Not Applicable



\* Proper Noise Management | Hearing Protection in place?



- Yes
- No
- Not Applicable



\* Proper Silica controls in place (in compliance with 1926.1153 Table 1)?



- Yes
- No
- Not Applicable



\* Heat illness prevention measures in place?



- Yes
- No
- Not Applicable



\* Relentless Housekeeping practices in place?



- Yes
- No







SUNDT

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Thank you / Questions

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