



SUNDT

Morenci Contractor Safety Meeting

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. █

THE VALUE OF COPPER

FREEMPORT
FOREMOST IN COPPER

Zero



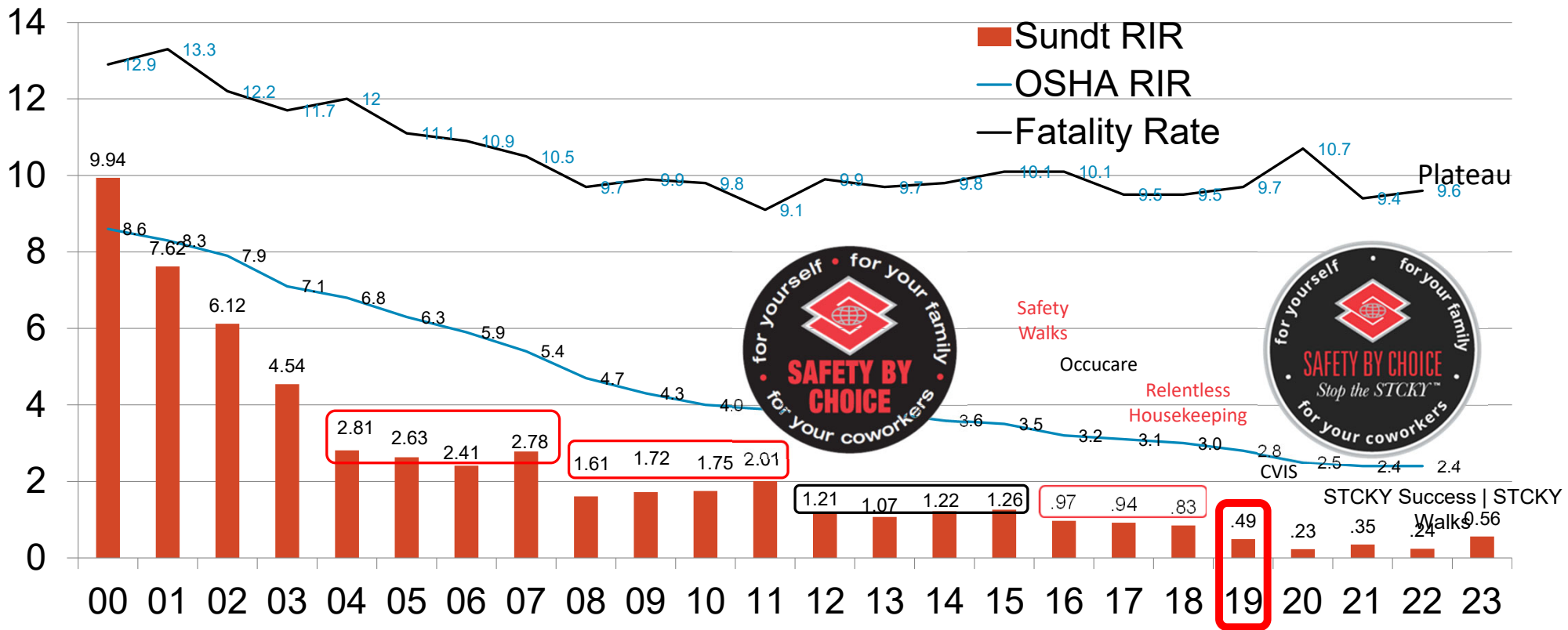
What is the Goal?

- 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

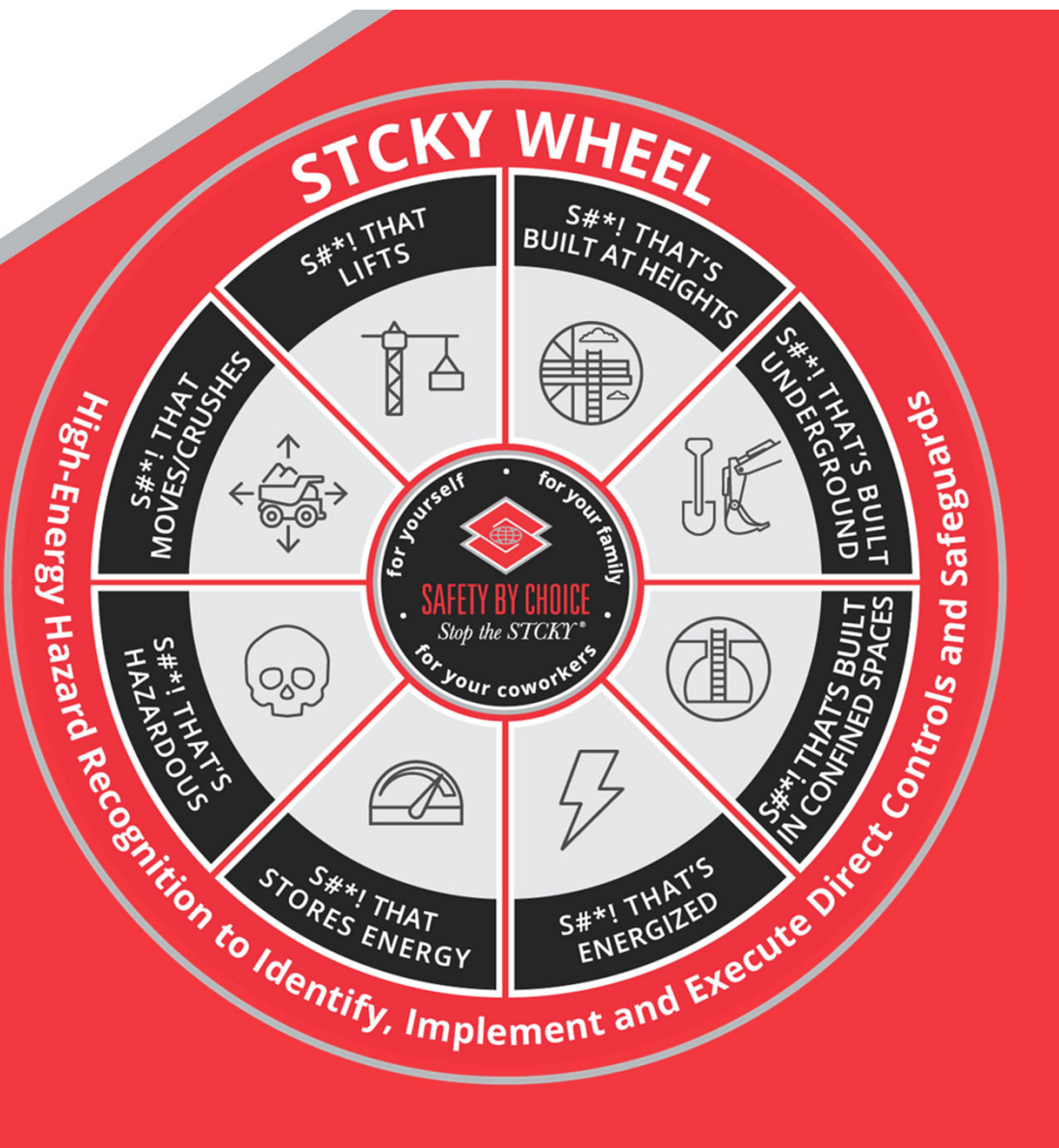




SUNDT

High Energy Control Assessments

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

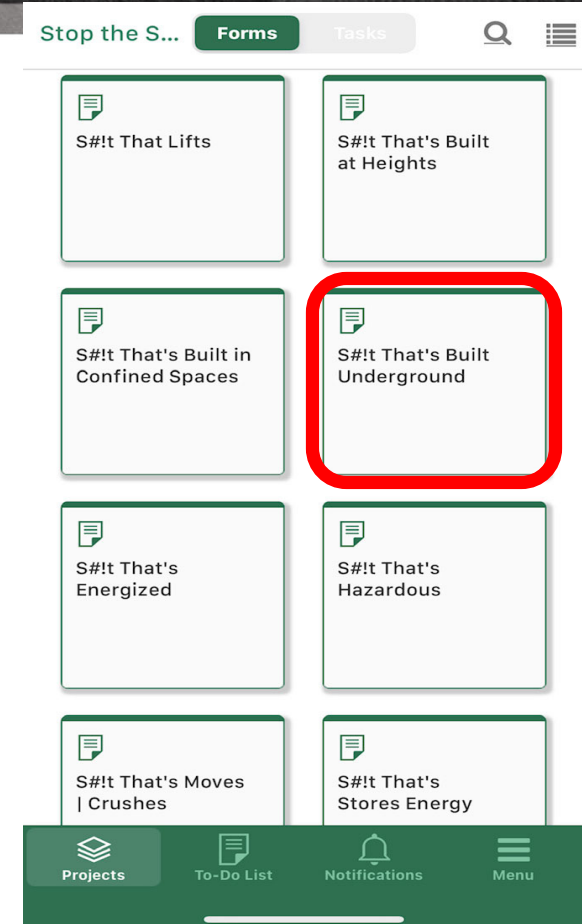
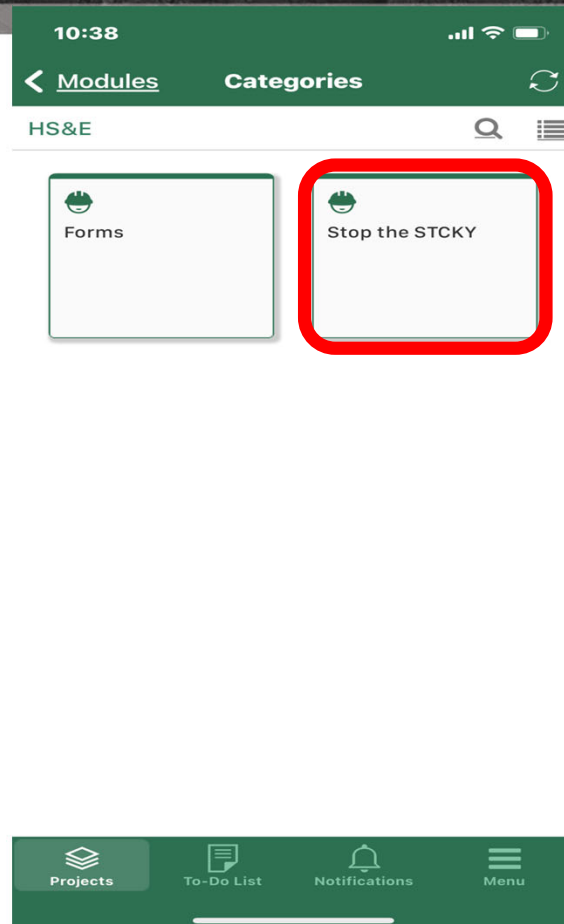
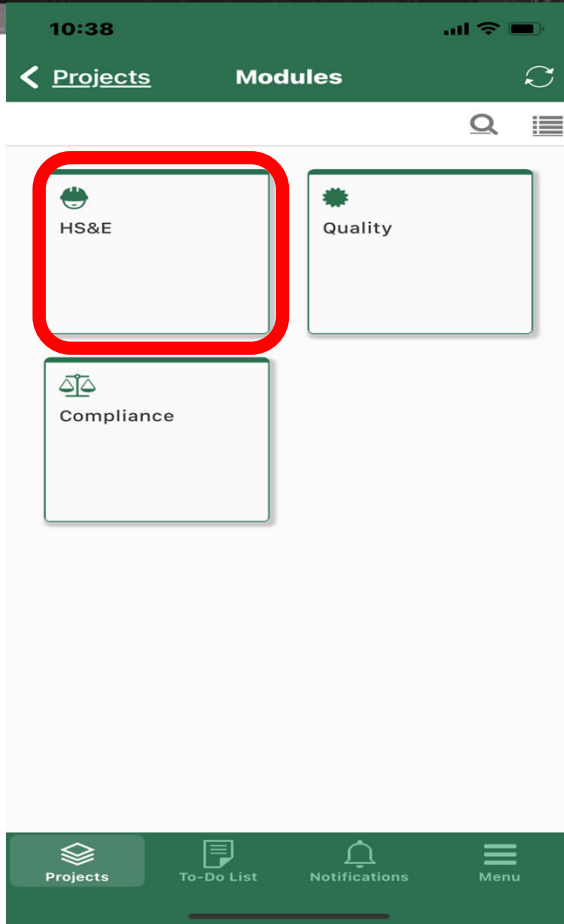
STCKY
Success
STCKY
Luck
STCKY
Injury

STCKY WALKS
STCKY
Success
STCKY
Luck

RIR
Recordable Injury Rate



STCKY Walks





STCKY Walks



STCKY CONTROLS

* Utility strike prevention measures in place? ⓘ

- Yes
- No

* Atmosphere within excavation verified as safe for work? ⓘ

- Yes
- No

* Safe access to the work area? ⓘ

- Yes
- No
- Not Applicable

* Cave-in protection in place? ⓘ

- 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? ⓘ

- 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 - 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 (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

High Energy Control Assessments

STCKY Walks

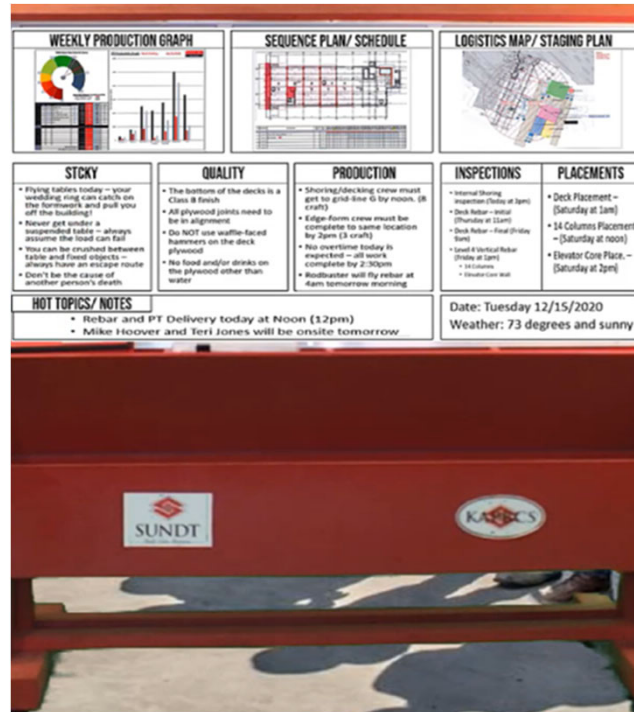


Engagement

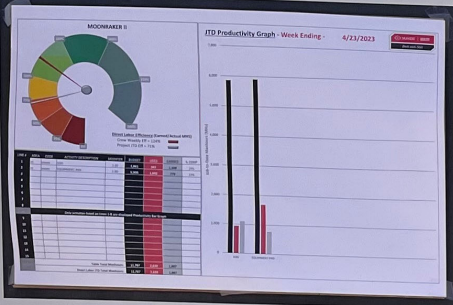


Red Boards

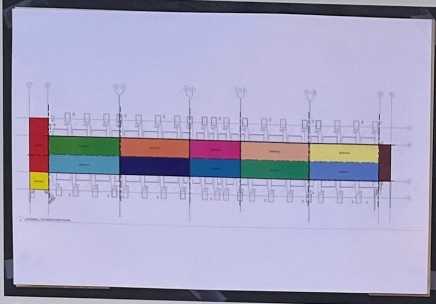
• Doing-The-



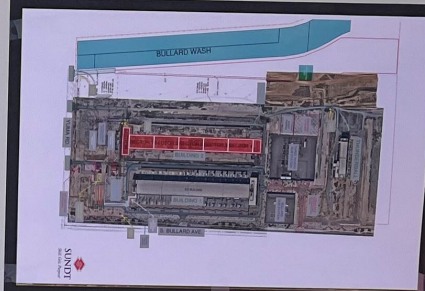
WEEKLY PRODUCTION GRAPH



SEQUENCE PLAN / SCHEDULE



LOGISTICS MAP / STAGING PLAN



Foreman: EDUARDO FERRERA - 602-748-7474

Fireman: Todd Bam - 602-339-7444

Superintendent: GERARDO LOPEZ - 602-370-9307

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
- Slip dowels are straight
- Firals are plumb & Aligned
- Turn buckles are snug & Half'n'Half
- Chomuter is straight
- Channels are secure: AC Pads
- Vapor barrier has 6" overlap
- Diamonds are set to correct elevation
- Expansion has 2" keep
- Proper spacing on ALL Dowels/Embedment
- Trim bar installed @ all corners

PRODUCTION

- Drill holes for slip dowels: SB
- Prep/Get Headers: Downway Sector D
- Layout Equipment Pads: SB
- Set Pumps/Form for Equip. Pads: SB
- Strip Equip. Pads: 26/2A
- Lay down Vapor barrier: Sector D
- Set up for Placement: Sector D
- Install Richmond dowels
- Cut channels for AC Pads → PREP
- Apply Blackhawk: Sector 3 & 4

INSPECTIONS

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

PLACEMENTS

- 4/25: Equip. Pads - 28/2A @ 12AM
120 cu yds w/ Pump truck
- 4/26: S.O.G. Sector D 180 cu yds
w/ Pump truck



HOT TOPICS & NOTES

- House Keeping (Relentless)
- Inspect all equipment prior to use
- Finish Points
- Uverin terrain
- Wildlife
- Ergonomics
- Use a spotter (if needed)
- All material on damage
- 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 40° / Sunny

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





RED BOARD ENGAGEMENT ASSESSMENT

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 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?
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?

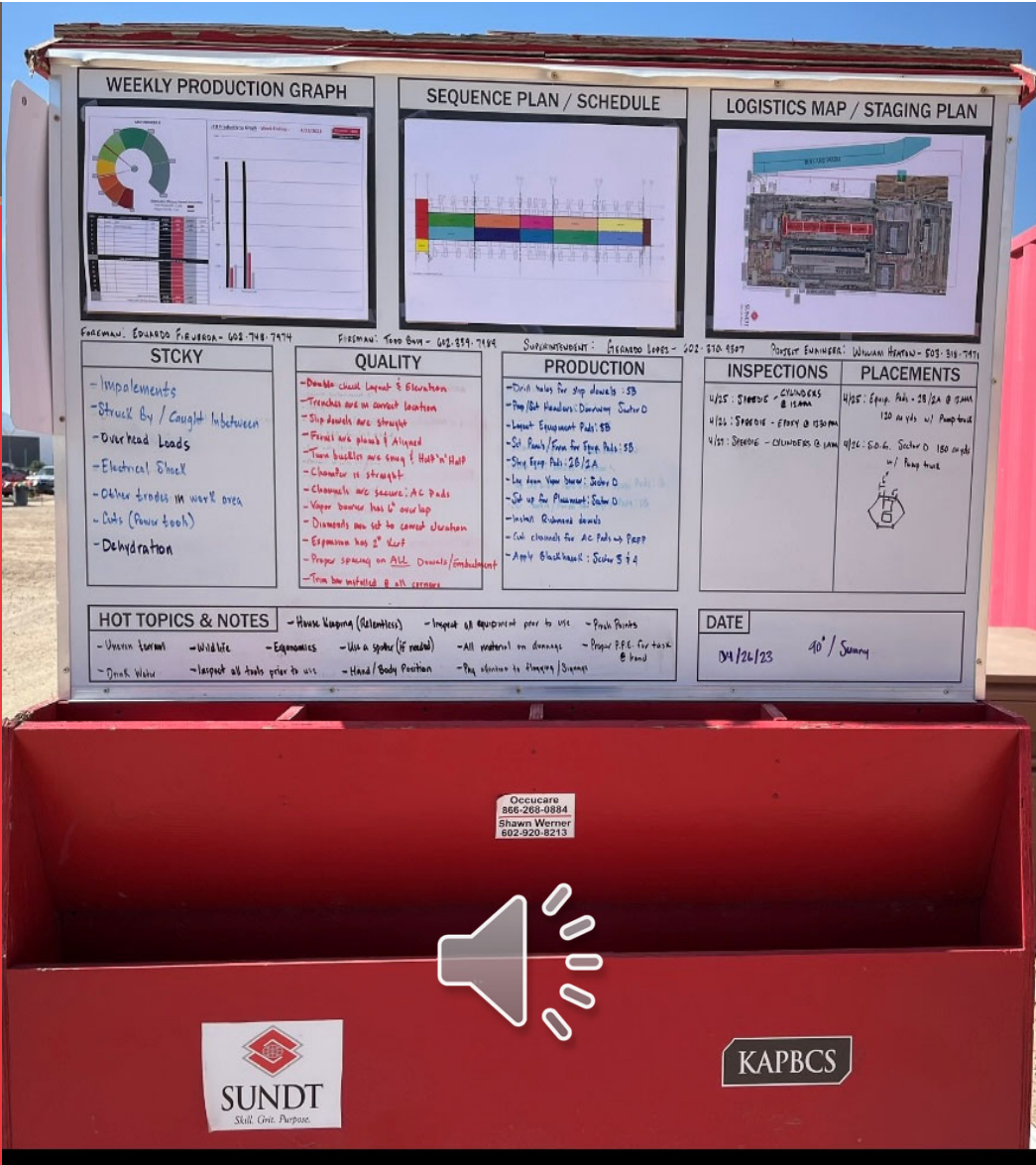


ASESORIA DEL COMPROMISO DE EL PIZARRON ROJO

1. ¿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?
2. ¿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?
3. ¿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?
4. ¿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?
5. ¿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.
6. ¿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?
7. ¿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?
8. ¿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?
9. ¿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.
10. ¿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 involucra el plan de hoy?



RED BOARD ENGAGEMENT ASSESSMENT



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 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?

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?

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?

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?

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?

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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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?

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.

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.

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?



SVIS Walk - CONTROLS

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

- Yes
- No
- Not Applicable

* Proper Noise Management | Hearing Protection in place? i

- Yes
- No
- Not Applicable

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

- Yes
- No
- Not Applicable

* Heat illness prevention measures in place? i

- Yes
- No
- Not Applicable

* Relentless Housekeeping practices in place? i

- Yes
- No





SUNDT

Thank you / Questions

*S*_{tuff} *T*_{hat} *C*_{an} *K*_{ill} *Y*_{ou}