



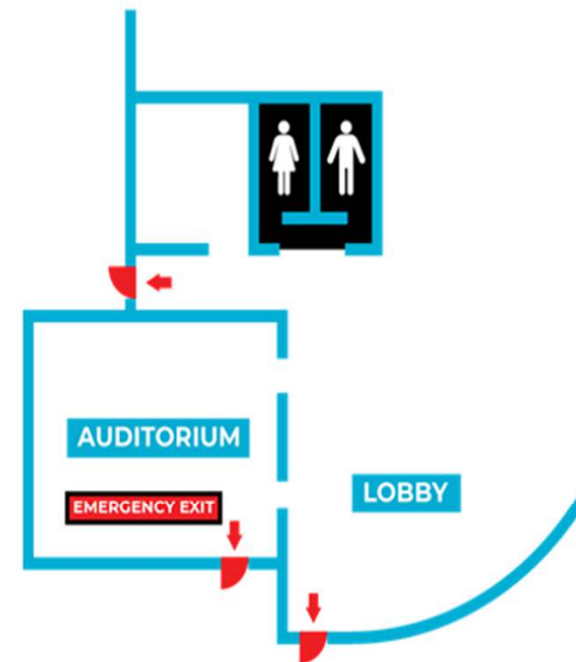
hasc


BEST PRACTICES SEMINAR

HBR provides a forum for owner and contractor collaboration to develop, share and leverage best practices.

Innovation Through Collaboration!

Emergency Exits and Restrooms



The image features a large American flag waving on a tall pole against a bright blue sky filled with fluffy white clouds. The flag is positioned on the left side of the frame, with its stars and stripes clearly visible. The text is overlaid on the right side of the image.

I pledge Allegiance to the flag
of the United States of America
and to the Republic for which it
stands, one nation under God,
indivisible, with Liberty and
Justice for all.

Honor the Texas flag; I pledge allegiance to
thee, Texas, one state under God, one and
indivisible.



OUR MISSION AND VISION



HBR Mission

To develop, share and promote **Best Practices** that improve industry performance in areas of safety, health, environment, workforce skills, work quality and cost.

HBR Vision

To be the premier association that adds value to our stakeholders through innovative solutions, continuous improvement, and sustainable efficiencies for industry.

HBR provides a forum for owner and contractor collaboration to develop, share and leverage best practices

Innovation Through Collaboration!

ANTI-TRUST GUIDELINES FOR CONDUCTING MEETINGS

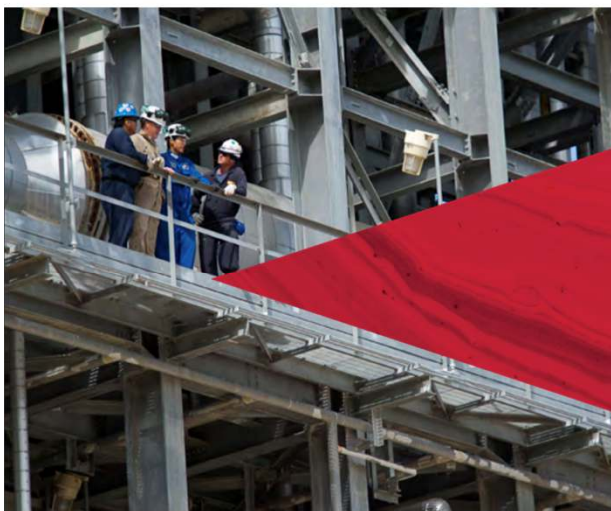


HBR appreciates your willingness to be an important part of this organization and the services provided to our industry.

The following guidelines shall be followed in conducting meetings of HBR. This is not an exhaustive list of every possible subject to be avoided; in the event you have doubts about the propriety of any matter to be discussed in a meeting, our legal counsel is available for consultation. Generally, the anti-trust laws proscribe unlawful combinations or agreements. Sometimes “agreements” may be inferred from conduct. HBR wants to avoid even the appearance of impropriety, and this is the spirit of these guidelines.

- ❖ Do not discuss the prices of goods or services of any particular company(s).
- ❖ Do not disparage the goods or services of any particular company(s)
- ❖ Do not recommend the selection of any particular company as a supplier or customer
- ❖ Do not urge or counsel that participating companies engage in any concerted activity to accomplish any unlawful purpose, i.e., boycotting any company or coercing a company to take some desired action.
- ❖ Do not discuss matters which may be trade secrets or confidential to any company, i.e., don’t engage in “off the record” comments or state matters “not to be repeated out of this room”.
- ❖ Do not propose secret or “rump” sessions after the official meeting is adjourned to discuss matters which cannot lawfully be discussed at the official meeting.
- ❖ Do not recommend or sponsor the gathering of statistical data, the publishing of standards, or doing joint research without advance written approval of the Operating Committee of HBR.
- ❖ Houston Business Roundtable’s purpose is to educate participating companies, so every company represented will be better informed and can make its own individual decisions. HBR members are not required to adopt the HBR recommendations or policies.

Thank you in advance for adhering to these guidelines.



Fernando Signorini

Vice President of U.S. Gulf Coast Operations,
Site Director of Texas Operations

June 16, 2002



How Do We Deliver a Sustainable Future?

AMBITION

To be the most innovative, customer-centric, inclusive and sustainable materials science company in the world.

PURPOSE

To deliver a sustainable future for the world through our materials science expertise and collaboration with our partners

GOAL

Value growth and best-in-class performance

VALUES



Integrity



Respect for People



Protecting Our Planet

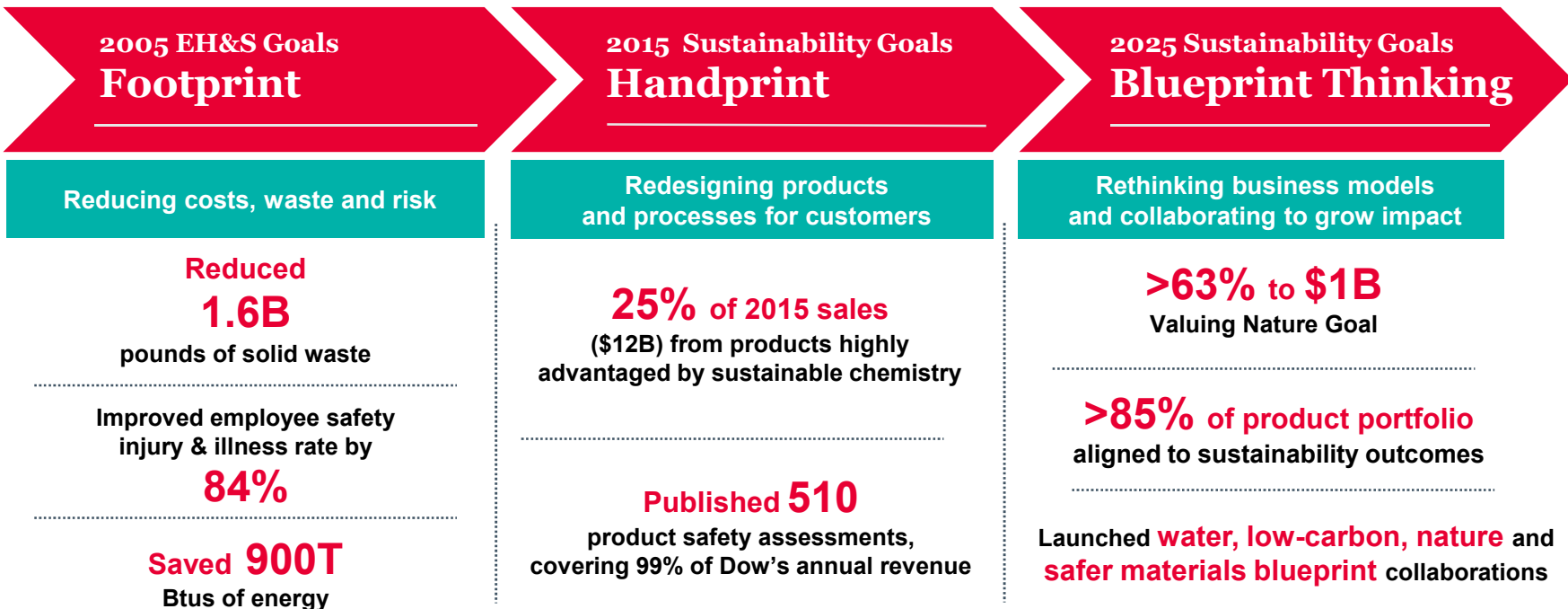
Safety Culture Journey (culture change is slow)

- 3 pronged approach



Dow's Sustainability Journey: 3rd Generation of 10-Year Goals

GROWING OUR COMMITMENT, MEETING OUR TARGETS AND INCREASING VALUE OVER TIME



All actions underpinned by focus on safety and drive to zero

2021 – A focus on continuous improvement delivers results

2021 Strategic Actions

- **Best-ever overall severe injury performance**, with 281 days severe injury-free in 2021
- **Zero severe motor vehicle accidents** occurred at a Dow site in 2021 – Dow's longest injury-free streak
- Achieved an index score of **74.5% on Total Worker Health® (TWH®)** index
- **Updated the COVID-19 Workplace Playbook** to shape guidelines in a more risk-based manner

OUR APPROACH

Identify, assess, eliminate or mitigate hazards



Prevent unsafe acts and conditions



Maintain and improve the health of personnel



Foster communication on health and safety issues



Innovative Solutions



World-Leading Operations Performance

Our Goal: to maintain world-leading operations performance in natural resource efficiency, environment, health and safety.

- The Innovation process
- Adding layers of protection
- Building health and resiliency
- Taking humans out of harms way
- Next generation behavior management

The background of the slide is a deep red color with a marbled texture. The marbling consists of numerous thin, wavy, and concentric lines in slightly darker and lighter shades of red, creating a sense of depth and movement. The overall effect is reminiscent of traditional marbled paper or a close-up of certain minerals.

Adding layers of Protection

Anti-Crush Technology for Aerial Lifts

Generation 2 Anti-Crush technology uses ultra-sonic sensors strategically placed to detect objects in the direction of travel.

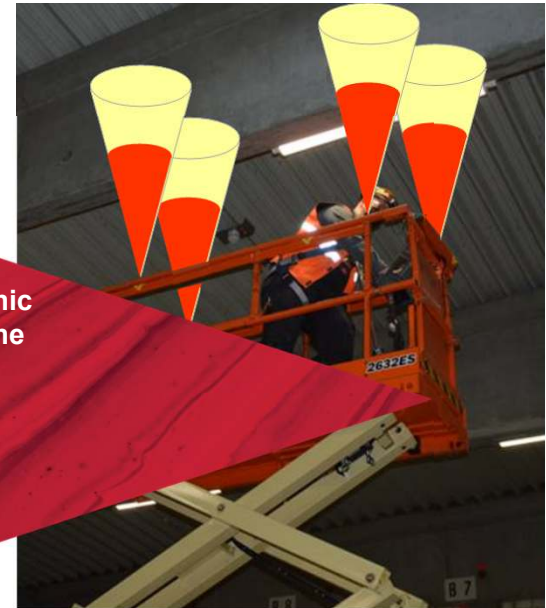
Avoids collisions

Protects all workers in the basket

2020 NSC Green Cross Award
winning project



Gen 1 Anti-Crush on a Boom Lift. Movement will stop if the Operator is pushed onto the yellow bar

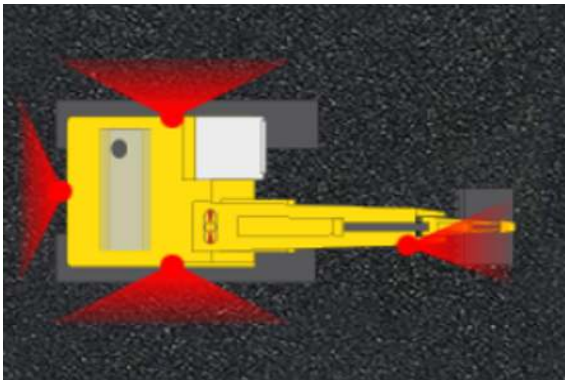


Gen 2 Anti-Crush on a Scissor Lift: Movement will slow or stop if an obstacle is detected. Boom Lifts also have sensors in the horizontal direction

Pedestrian Detection

Camera

- Helps Vehicle Operator to see in Blind-Spots



Indirect Detection

- Uses a microwave or RFID to detect a tag worn by workers in the area
- Alerts when a pedestrian is detected in proximity of a piece of heavy equipment.



Direct Detection

- Uses "smart camera" technology
- Alerts when a pedestrian is "seen" in proximity of a piece of heavy equipment





Taking Humans out of Harms Way

Taking Humans out of Harms Way



Using Robots to eliminate life critical work

- Robotic CSEs
- Non-destructive testing
- High-pressure cleaning
- Cutting and drilling
- Security/Surveillance
- Aerial Inspections / Damage Surveys
- Leak Detection via Thermal Imaging
- Emergency Response Assistance – Scene Visualization



Taking Humans out of Harms Way



Elevated Work Reduction through Rope Access

- Mechanical Integrity Inspections
- Non Destructive Testing
- Light Mechanical Work
- Painting and Coatings Work
- Welding
- Insulation Installations

Acoustic Camera Technology



Technology to help us
“see” noise



Noise source
identification

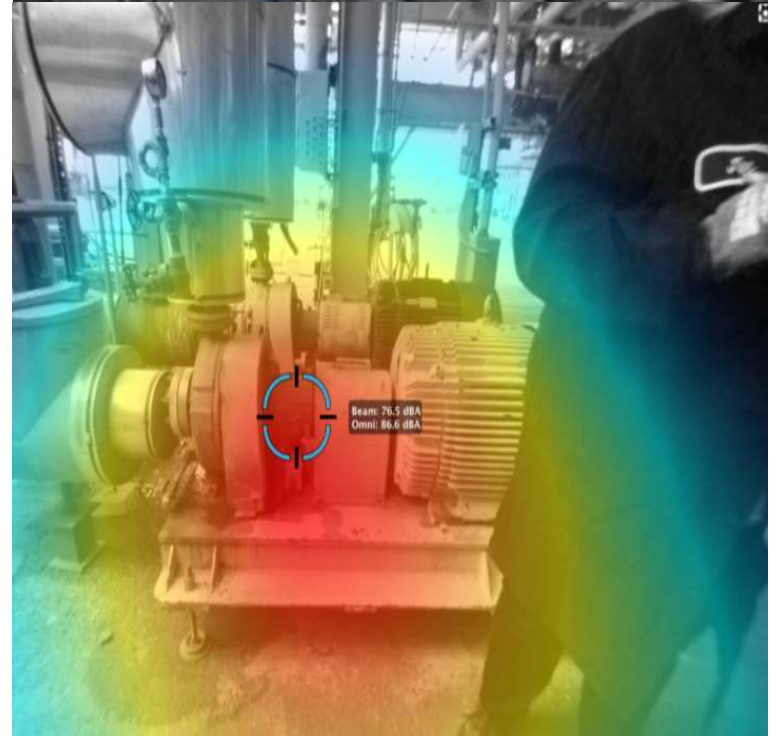
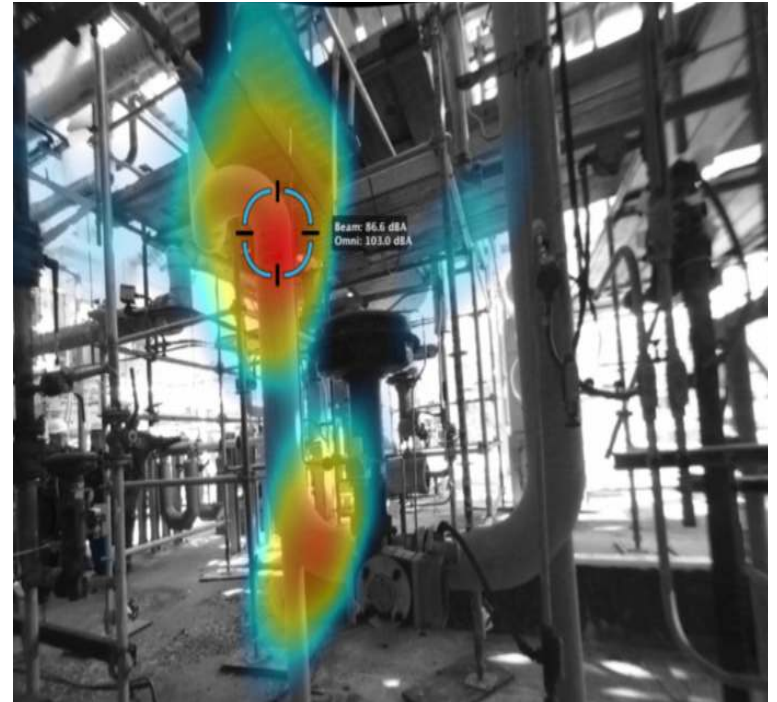


Targeted noise control
efforts



Communication tool

- Leadership
- Technical support
- “Seeing is believing”



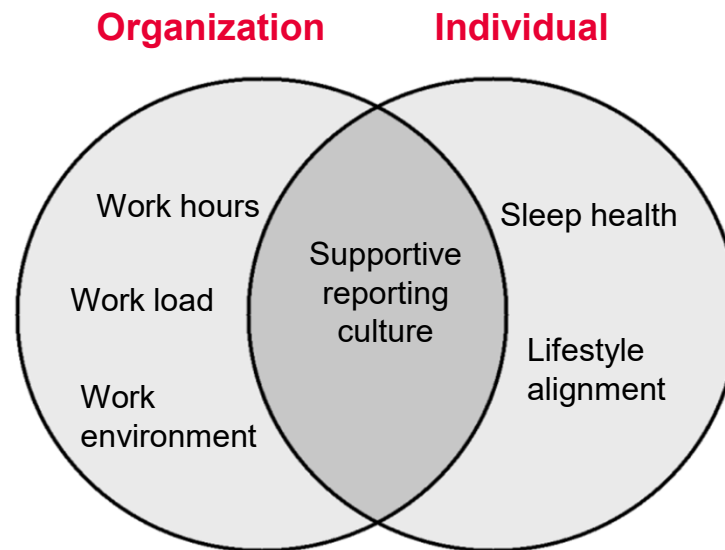


Next Generation Behavior Management

Fatigue Risk Management



- Fatigue is a safety risk
- Manage it like other risks



Shared responsibility model



Seek Together™





How a Robust Audit Program Can Improve Your Safety Performance

35th HSEA Best Practices Seminar

Mark R. Briggs, CSP

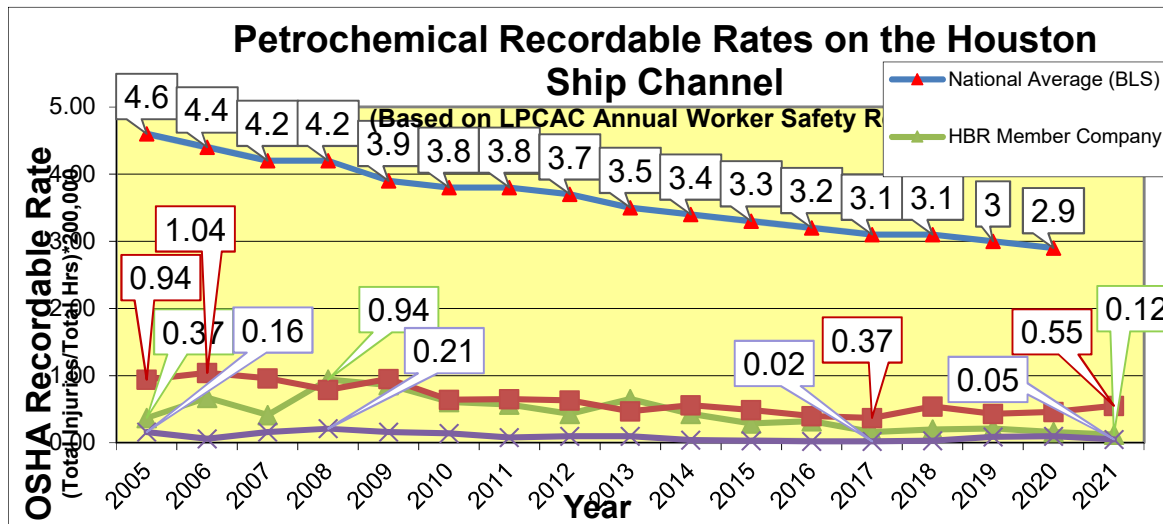
Area Director HSAO

June 16, 2022

PURPOSE OF AN AUDIT?

- To ensure expectations are being met through an objective evaluation.
- To challenge implementation of those objectives.
- To provide feedback on the implementation.
- To provide area of opportunity for improvement.

IMPROVEMENTS DRIVING CHANGE



Nominated Companies	2021
Total Nominations	157
Companies That Submitted Nominations	32
Companies That Were Nominated	104
Participating Contractors (Submitted for finalists)	58
Total Work Hours in the USA	175.8 Mil
Total Recordable Rate	0.15
Nominated Sites	36
Site Hours	39.6 Mil
Avg. Recordable Rate (51 Finalists)	0.05

Lessons

- The Houston Area is just better than other places!
- Focused and intentional audits bear results.
- Management and employees working together accomplishes greater results.
- Rigorous audits with thoughtful recommendations!
- Auditors need love too!



www.osha.gov

800-321-OSHA (6742)

AUDITOR AND MENTOR BAG



If you were an Auditor or Mentor, remember to pick up your goody bag at the HBR Office today before you leave.



TECHNICAL SUPPORT SMALL
BEST IN CLASS



TOLUNAY-WONG
E N G I N E E R S





TOLUNAY-WONG
ENGINEERS





TOLUNAY-WONG
ENGINEERS



Geotechnical Services
Geophysical Services
Construction Materials Testing
Environmental Field Services
Deep Foundation Services



GEOTECHNICAL
ENGINEERING



ENVIRONMENTAL
SERVICES



CONSTRUCTION
MATERIALS TESTING



DEEP FOUNDATIONS
TESTING



GEOPHYSICAL
SERVICES

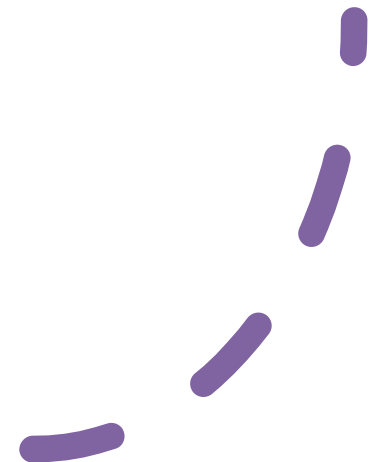


At Tolunay-Wong Engineers, we rely heavily on our field crews to safely and accurately collect field data to be brought back to our labs for analysis. The types of field efforts to collect these samples can differ substantially, including the methods in which they are collected. If the engineering OR project management group fails to accurately communicate with the field crew on the already complex task of sample collection, it can lead to unnecessary risks in safety and the successful execution of the entire project.

A large red shape on the left side of the slide, consisting of a vertical rectangle with a rounded right edge.

PRESO

PROJECT READINESS EXECUTION SIGN-OFF





PRESO

The PRESO form was
created out of the
need to bridge the gap
from Project Managers
to Field Crews.

• PROJECT READINESS / EXECUTION SIGN-OFF

• Geotechnical & Environmental Field Programs

- TWE Project No. _____ Client: _____
- Project Name: _____

TASK STEPS

- 1. Proposal / Work Plan / Method Statement
- 2. Site Reconnaissance / Identification of Locations
- 3. Job-Specific Health & Safety Plan / Emergency Contacts
- 4. One Call Notification
- 5. Field Crew/Equipment/Tooling Confirmations
- 6. Safety Training / Certification Requirements
- 7. Job-Specific Daily Toolbox / Job Safety Analysis Forms
- 8. Equipment Inspection Forms / Safety Data Sheets
- 9. Daily Field Report / Log Forms
- 10. Review / Audit / Verify / Discuss

Responsible Party Date

_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

AUTHORIZATION

- Project Management
- Field Services Management
- Corporate Safety
- Project Principal

Name Signature Date

_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

FIELD CREW ACCEPTANCE

- Safety Professional
- Technician
- Operator / Driller
- Assistant
- Assistant

Name Signature Date

_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Monitoring Well Installation Scope of Work

I. Purpose

The purposes of the geotechnical services will be to:

- 1) Explore soil and groundwater conditions at 3 locations at Targa brine pond 3;
- 2) Install 3 Stand up Monitor Wells at Targa brine pond 3.
- 3) Perform lab testing and present relevant soil properties and generalized subsurface soil profiles at the pond area;
- 4) Prepare one geotechnical data report & one Monitor Well installation report.

II. Field Exploration

The following sections describe field exploration.

- (1) Drilling 3 soil borings for a total of 90 linear feet of drilling as described below:
 - Drill three (3) soil borings to a depth of 30 feet, and install a 2-inch diameter, open standpipe, Monitor Well casing to a depth of 30 feet. The Monitor Well locations are shown in attached sheet.
 - Collecting samples of cohesive soils by hydraulically pushing a thin wall tube in accordance with ASTM D1587;
 - Collecting samples of granular soils by performing Standard Penetration Tests in accordance with ASTM D1586;
 - Collect geotechnical soil samples at 2-foot intervals to a depth of 20 feet and at 5-foot intervals thereafter to the termination depth of the borings;
 - Estimate cohesive soil shear strengths in the field using a pocket penetrometer and/or Torvane;
 - Estimate density of granular soils if encountered by recording SPT N-values;
 - Measuring depth-to-water in the open boreholes during drilling.
- (3) The Monitor Well will include a 2-foot riser, an aluminum 6" square locking protective casing, a 4-foot x 4-foot concrete slab and will be capped to meet TCEQ requirements. The open standpipe Monitor Wells will be registered with the state;

Contact Targa Resources LLC representatives immediately if unusual or unexpected conditions are encountered in the field. Upon completion of drilling activities, the collected soil samples shall be packaged and transported to the geotechnical laboratory for testing.



GEOTECHNICAL
ENGINEERING



ENVIRONMENTAL
SERVICES



CONSTRUCTION
MATERIALS TESTING



DEEP FOUNDATIONS
TESTING



GEOPHYSICAL
SERVICES

	Master Safety, Health, & Environmental Program Tolunay-Wong Engineers, Inc.	Issue Date: 05/10/2017	Rev.: 2
		Review/Revise Date: 07/23/2020	
JSA 2020 - Driving & Parking			Page #: 1 of 4

Property Owner:	Property Location:	Date:
TWE Client:	Client Rep:	Time:
Unit/Area:	Contractor:	
Job Number:	Contractor Rep:	

DEVELOPMENT TEAM	POSTION/TITLE	REVIEWD BY	POSTION/TITLE
Fadhel Peters	Branch Manager	Terry A. Robbins	Corp. Safety Dir.

Recommended PPE	
Hard Hat	Steel Toe Boots
Safety Glasses and or Goggles	Long Sleeve Shirt (tucked) and Pants
Cut Resistant/Impact Combo Gloves	
Ear Plugs and/or Ear Muffs	

JOB STEPS	POTENTIAL HAZARDS	MITIGATIONS
1. General	<ul style="list-style-type: none"> Personnel not qualified to drive vehicle 	<ul style="list-style-type: none"> All personnel will be required to show a valid driver's license for the class of vehicle they are operating.
Add'l Job Steps	Add'l Potential Hazards	Add'l Mitigations

Tolunay-Wong Engineers, Inc.

Project: _____

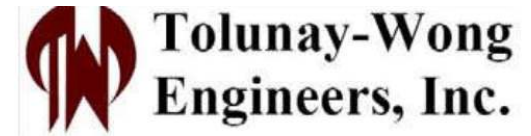
Project No: _____

Drilling Rig Inspection Checklist

Inspection Item	Approved	Action	Comments
Pull Down Chains: Check for kinks, stretched links, grease and excessive wear			
Pull Down Chain Sprockets: Check for missing teeth, alignment, excessive wear and lubrication			
Pulleys: Should operate smoothly and freely without resistance			
Protections/Guards for Rotating Equipment: Check that adequate protections are in place to prevent fingers, hands, clothing, ect. from getting entangled in rotating equipment including chains and sprockets, belts, gears, pulleys, drive strings ect.			
Drill String: Should not be bent or have cracks/fractures. Connections should not be excessively worn (check male and female)			
Mast: Inspect for cracks or broken sections, free from bends, all mounting hardware (pins, bolts, ect...) should be in place			
Hammer System: Check to ensure hammer connections are secure. Hammer should be free of cracks, fatigue or show signs of wear			
Rope for Hammer System: Inspect rope (safety-hammer) for wear, fraying, moisture			
Controls: Check for loose wires and connections, proper operation of gauges, levers and toggles. Check			



Daily Time Summary



PROJECT: _____

PROJECT NUMBER: _____

NAME: _____ DATE: _____

START TIME: _____ LUNCH DEDUCTION: _____

END TIME: _____ TOTAL HOURS: _____

TEAM LEADER: _____

TEAM MEMBERS: _____

EQUIPMENT USED: _____

Arrival at Job Site: _____

Activity Notes:

5:00-6:00: _____

6:00-7:00: _____



GEOTECHNICAL
ENGINEERING



ENVIRONMENTAL
SERVICES



CONSTRUCTION
MATERIALS TESTING



DEEP FOUNDATIONS
TESTING



GEOPHYSICAL
SERVICES

DAILY TOOLBOX MEETING RECORD


**Tolunay-Wong
Engineers, Inc.**

Project Number: _____

Job(s) Location(s) _____

Date: _____

Name of AA or project oversight: _____

Simultaneous Contractor Operations? Yes No If yes, describe _____

Has the simultaneous operations work plan been communicated to all workforce?	Yes	No
---	-----	----

Name of SIMOPS PIC: _____ Company: _____

Does the work activity require an MoC? Yes No

If yes, has it been authorized by management for start-up? Yes No (If no, Stop Work and consult Job Rep)

Does a valid risk-assessed SOP for this job exist? Yes No

If yes, have person(s) performing work been trained in that procedure? Yes No (If no, conduct TSEA/JSA)

List any safety discussion topics covered: _____

List all jobs to be performed today: _____

Identify if there are any permitted activities and document the permit number: _____

Does each job and task have a valid, associated risk assessment assigned to each listed job above? Yes No

Have job and task risk assessments been validated on site? Yes No

Have newly identified risks been documented in the TSEA (Task Safety Environmental Analysis)/JSA? Yes No

Has a member of the workforce conducting each task participated in the Risk Assessment for that task? Yes No

Have all members of the workforce confirmed understanding of the work scope, hazards, risk controls and mitigation? Yes No

Was a competent person involved in this or any other risk assessment pertaining to these tasks? Yes No

Has everyone reviewed the current Emergency Response Plan? Yes No

Have equipment checks been completed, documented and reviewed by the Performing Authority (PA)? Yes No

(Do not proceed unless the answer to all the above questions is Yes or N/A)

Will any conditions change the muster points for today? Yes No If yes, describe and discuss with crew: _____

Post Daily Review:

Best practice / activity(s) observed: Yes No (If yes, describe them) _____

Were there any Incidents or First Aid Reports for the day? Yes No (If yes, name them) _____


TOLUNAY-WONG
ENGINEERS

 GEOTECHNICAL
ENGINEERING

 ENVIRONMENTAL
SERVICES

 CONSTRUCTION
MATERIALS TESTING

 DEEP FOUNDATIONS
TESTING

 GEOPHYSICAL
SERVICES

Tolunay-Wong Engineers, Inc.

PROJECT READINESS / EXECUTION SIGN-OFF

Geotechnical & Environmental Field Programs

TWE Project No. 21.15.165 Client: Brown & CaldwellProject Name: DR Horton Phase II Weatherford, TX

TASK STEPS

	Responsible Party	Date
1. Proposal / Work Plan / Method Statement	<u>JP</u>	<u>11/11</u>
2. Site Reconnaissance / Identification of Locations	<u>JP</u>	<u>11/30</u>
3. Job-Specific Health & Safety Plan / Emergency Contacts	<u>JP</u>	<u>11/30</u>
4. One Call Notification	<u>FB</u>	<u>11/30</u>
5. Field Crew/Equipment/Tooling Confirmations	<u>JP</u>	<u>11/30</u>
6. Safety Training / Certification Requirements	<u>N/A</u>	<u> </u>
7. Job-Specific Daily Toolbox / Job Safety Analysis Forms	<u>FB</u>	<u>11/30</u>
8. Equipment Inspection Forms / Safety Data Sheets	<u>FB</u>	<u>11/30</u>
9. Daily Field Report / Log Forms	<u>FB</u>	<u>11/30</u>
10. Review / Audit / Verify / Discuss	<u>FB</u>	<u>11/30</u>

AUTHORIZATION

	Name	Signature	Date
Project Management	<u>Fadhel Peters</u>	<u>[Signature]</u>	<u>11/30</u>
Field Services Management	<u>Jan Carl</u>	<u>[Signature]</u>	<u>11/30</u>
Corporate Safety	<u>Jan Michael Pernera</u>	<u>[Signature]</u>	<u>11/30-21</u>
Project Principal	<u> </u>	<u> </u>	<u> </u>

FIELD CREW ACCEPTANCE

	Name	Signature	Date
Safety Professional	<u>Talares Limbrick</u>	<u>[Signature]</u>	<u>11/30</u>
Technician	<u>Wade Stainfield</u>	<u>[Signature]</u>	<u>11/30</u>
Operator / Driller	<u>Hector Oviedo</u>	<u>[Signature]</u>	<u>11/30</u>
Assistant	<u>Michael Mouton</u>	<u>[Signature]</u>	<u>11/30</u>
Assistant	<u>Jake Lawson</u>	<u>[Signature]</u>	<u>11/30</u>



NOW THE
PROJECT IS SET
UP FOR SAFE
WORK & FOR
SUCCESS!

QUESTIONS?



GEOTECHNICAL
ENGINEERING



ENVIRONMENTAL
SERVICES



CONSTRUCTION
MATERIALS TESTING



DEEP FOUNDATIONS
TESTING



GEOPHYSICAL
SERVICES

TECHNICAL SUPPORT MEDIUM
BEST IN CLASS



CTEH[®]
THE SCIENCE OF READYSM



Houston Business Roundtable CTEH – Best Practices in Safety June 16, 2022

Today's Presentation

- CTEH
 - Mission and the relationship to Safety
 - Company Overview
 - Acquisition during a Pandemic
- Best Practices Overview
- Infectious Disease Control Team
- Safety Excellence
 - Injury and Illness prevention
 - Readiness



MISSION

CTEH empowers extraordinary teams of experts to help companies, government, and communities prepare for, respond to, and recover from threats to their environment and people. We apply the brightest minds, state-of-the-art science and technology, and conclusive data to resolve complex health, safety, environmental, toxicological, and management challenges. Our experience enables us to manage complex situations better than anyone else.

Company Overview

OUR SERVICES INCLUDE

- Crisis Management
- Emergency Response
- Environmental Response
- Expert Services
- Industrial Hygiene
- Occupational Health
- Pandemic Support
- Risk Assessment
- Safety
- Technology
- Toxicology

OUR MARKETS INCLUDE

- Chemicals
- Entertainment/Technology
- Governments & Public
- Manufacturing
- Maritime
- Petroleum
- Pipeline
- Power & Utilities
- Transportation



2,000+
Employees

75+ offices
across the
US, Canada &
Australia

Headquarters:
Little Rock,
AR, USA

The Future of Environmental Solutions



MONTROSE
ENVIRONMENTAL

Montrose was one of the first to see environmental responsibility as not just an imperative but as a strategic asset. And we're well ahead of the curve in applying the latest technologies in practical ways to solve difficult environmental challenges.

Best Practices Overview

- Readiness
 - Qualified
 - Safety Reporting
- Infectious Disease Control Team

Safety Excellence - Readiness



Safety Excellence – Infectious Disease Control Team

- **March 2, 2020 - Infectious Disease Control Team (IDCT) formed and COVID-19/Pandemic Plans created/updated:**
 - **Employee Illness Prevention**
 - **Maintain readiness for client needs**
- **Within a week, our first COVID-19 consulting project came in:**



Safety Excellence – Infectious Disease Control Team

- **Within the first 2 weeks of COVID-19, our IDCT:**
 - **Meeting 7 days/week, utilized SharePoint for document storage**
 - **Included 1 MD, 1 PhD Epidemiologist, 2 Occ. Health Nurses, 8 PhD Toxicologists, 5 CIHs, 3 CSPs and several other support staff**
 - **COVID-19 Training developed and delivered to employees and clients**
 - **COVID-19 Communication**
 - **Employee updates and Town Halls (via Zoom) including guidance from our Doctor and Nurses as well as for our parent company and clients**
 - **COVID-19 question submittal and answer**

Safety Excellence – Infectious Disease Control Team

- **Within the first 4 weeks of COVID-19, our IDCT:**
 - **Developed a Facility Health Screening paper form**
 - **A week later the “Daily Wellness Report” is available in our Carbon system and becomes mandatory for all employees**
 - **Our 24/7 COVID-19 Hotline is established to help employees work through symptoms and testing and return to work status**
 - **Client COVID-19 projects begin rolling in quickly**
 - **Offshore oil platforms, onshore oil production, health spa services, decontamination project support, etc**

Safety Excellence – Infectious Disease Control Team

17:16 5G

AA apps.carboncm.com

New Wellness Report

SAVE REFRESH CANCEL

Employee or Visitor?

☒ Employee
☐ Visitor

Working Days or Nights?

--None--

Please select employee from the list, answer questionnaire, then click SUBMIT.

Select Employee

Guidance

If you answer yes to any of the survey questions, call the CTEH Nurse Hotline at:

(800) 699-3083

Please notify operations@cteh.com in advance of all out of state, work-related travel plans so a review of travel restrictions can be completed.

Ask yourself...

Observed At

3/1/2022 5:16 PM



Safety Excellence – Infectious Disease Control Team

- **Month 2 of the pandemic:**
 - **Established travel and quarantine protocols for employees returning from Japan, travelling domestically and internationally**
 - **Began tracking employee medical holds and staff availability due to COVID-19:**
 - **Over 800 CTEH medical holds tracked since March 2020**
 - **Continuously updated isolation and quarantine protocols**
 - **This evolved into a service for clients in oil and gas and movie/TV show production worldwide**

Safety Excellence – Infectious Disease Control Team

- **What initially began as an effort to take good care of our employee's health and our client's needs quickly evolved:**
 - **A significant amount of consulting work occurred at a time when normal lines of business were slow or shut down completely**
 - **Live event COVID-19 support and vaccine verification services continue today, along with COVID-19 compliance program development and onsite support for some of your favorite movies and TV shows!**

Today's Presentation

- CTEH
 - Mission and the relationship to Safety
 - Company Overview
 - Acquisition during a Pandemic
- Best Practices Overview
- Infectious Disease Control Team
- Safety Excellence
 - Injury and Illness prevention
 - Readiness



THE SCIENCE OF READYSM

CTEH, LLC
Paul Hart, M.S., CSP, CIH
2000 Anders Lane
Kemah, Texas 77565

**TECHNICAL SUPPORT LARGE
BEST IN CLASS**





HBR Best Practices Seminar & Expo 2022

Total Safety's "Management Observation Program"

Health, Safety and Environmental

Total Safety Best Practice

Total Safety strives to implement safety policies and programs that served to improve not only the safety of our employees, but also to positively contribute to the safety performance of the customer/client sites in which we operate.

Our sustaining efforts “...**to ensure the safe Wellbeing of Workers Worldwide**,” or **W³**, are championed by the “Best Practice” featured in this presentation.

W³ ...to ensure the safe
Wellbeing of Workers Worldwide.SM


Management Observation Program

Total Safety maintains a Management Observation Program which establishes the roles and responsibilities for managers to perform “boots on the ground” interactions with employees.

This is one of the elements of our Behavioral Based Safety program.

- Quality observations are emphasized (versus quantity), but a general goal is two observations per month/per site
- Any level of management/supervisor can conduct the observation

The primary tool used to document these interactions is the **Management Observation Card**.

 TOTAL SAFETY		Management Observation Program	
DOCUMENT NUMBER: HSE-207	ORIGINAL DATE: 11-1-2016	REV: 1	REVISION DATE: 1/13/19
AUTHOR: JAMES TAYLOR		APPROVED BY: STEVE LONG	PAGE 1 OF 3

1.0 PURPOSE

1.1 The purpose of this program is to provide management with a tool and structure for observing employee's daily tasks. The process includes the identification of employee hazard exposures and the actions employees are taking to minimize risks. Identification of hazards will come through a systemic and structured management/employee interface that involves direct observation and two-way feedback. Observations will be conducted to ensure at a minimum:

- Procedures are followed (Job Safety Analyses (JSAs), JSA cards, Work Instructions, HEROES Cards, etc.)
- Correct PPE is worn per the procedure or site rules
- The right tools are used for the job
- Proper housekeeping is in place
- Hazards are identified, reviewed, evaluated and abated by the employee during the JSA process

2.0 SCOPE

- 2.1** Applies to all of Total Safety and its subsidiaries employees and locations.
- 2.2** When work is performed on a non-owned or operated site, the client's program shall take precedence when required.

3.0 RESPONSIBILITIES

3.1 Author

- 3.1.1** Ensures the document demonstrates compliance with Health, Safety and Environmental (HSE) standards, regulatory and legal requirements.
- 3.1.2** Review industry best practices, client specific requirements, Total Safety policy changes, and regulatory changes for impact to this HSE program.
- 3.1.3** In consultation with the HSE Director provide interpretation of document to impacted Regions, Districts, Departments, work groups and employees.

3.2 Management:


- 3.2.1** Implement this program at assigned locations
- 3.2.2** Review sub tier management observation submittals on a regular basis and implement corrective actions, if necessary.
- 3.2.3** Document hazard reports on the local hazard tracking log.
- 3.2.4** Ensure that two management observations are completed per month per site. See Section 8.0 for exceptions. **Note:** These can be completed by any level of management.

1 of 3

This document is for internal use only. This document may be accessed electronically at: SAFETY/ENR/HR/DOCS/MS/MS/MS. Employees must ensure they are using the latest revision. Printed copies of this document are considered uncontrolled.

Management Observation Card

- The Card provides guidance and prompts on an effective interaction
- Positive interaction tool between management and employees
- Purpose
 - Identify previously unidentified “risks” and hazards with employee job tasks
 - Allow for positive feedback exchange in order to encourage reinforce desired safe behavior
 - Verify procedures are being followed, proper PPE worn, right tools being utilized for the job, etc.
- Expectation
 - Quality observations are emphasized (versus quantity), but a general goal is two observations per month/per site
 - Any level of management/supervisor can conduct the observation

 TOTAL SAFETY®

MANAGEMENT OBSERVATION CARD

Print Name: _____

Sign Name: _____

Job Title: _____

Date: _____ Time: _____ A.M./P.M.

Job Location: _____

Job Task: _____

Employee(s) Observed: _____


HOW TO CONDUCT AN EMPLOYEE OBSERVATION

1. Identify an employee or group of employees that will be performing a specific hazardous task.
2. Read the observation checklist prior to performing the observation.
3. Visit the work area and talk with employee(s) without the observation card in hand.
4. After the observation, complete the checklist.
5. Review observations with employee(s)

TS-HSE-C009

Management Observation Card

Front side:



TOTAL SAFETY

MANAGEMENT OBSERVATION CARD

Print Name: _____

Sign Name: _____

Job Title: _____

Date: _____ Time: _____ A.M./P.M.

Job Location: _____

Job Task: _____

Employee(s) Observed: _____

HOW TO CONDUCT AN EMPLOYEE OBSERVATION

1. Identify an employee or group of employees that will be performing a specific hazardous task.
2. Read the observation checklist prior to performing the observation.
3. Visit the work area and talk with employee(s) without the observation card in hand.
4. After the observation, complete the checklist.
5. Review observations with employee(s)

TS-HSE-C009

WHAT TO LOOK FOR DURING OBSERVATION

1. Are procedures being followed (JSAs, JSA card, Work Instruction, etc.)?
2. Is the correct PPE being worn per the procedure or site rules?
3. Are the right tools being used for the job?
4. Is proper housekeeping in place?
5. What position are employees in? In the line of fire? Exposed to trip hazards, etc.?
6. How did the employee(s) react when approached? Did they reach/look for the JSA? Did they adjust PPE, change position?

PRE JOB QUESTIONS TO ASK EMPLOYEES

If an unsafe condition exists or an unsafe act is occurring then Stop Work Authority must be implemented

PROCEDURES			
	Y	N	NA
Is the employee(s) referencing and have they signed the JSA?			
If applicable, has the employee(s) completed a JSA card?			
Does the JSA or JSA card address all of the job steps, hazards and controls?			
Do the employee(s) understand the hazards of the task?			

PERSONAL PROTECTIVE EQUIPMENT			
Are employees wearing the correct PPE as identified in the procedure?			
Are employees using the PPE properly? If not, why not? Put comments in notes section.			

TOOLS AND EQUIPMENT			
Are the proper tools being used for the task?			
Are they in good condition?			
If required, have the tools been inspected as required by policy? (e.g. forklift, power tools)			
Are the tools being used correctly?			

Management Observation Card

Back side:

HOUSEKEEPING			
	Y	N	NA
Is the work area clean and free of hazards? If no, identify hazards in discrepancies section.			
If applicable, is the company vehicle clean and inspected according to policy?			

BODY POSITION			
Are the employee(s):	Y	N	NA
Excessively reaching, pushing or pulling?			
In the line of fire?			
Exposed to struck by or struck against hazards?			
Performing repetitive motions?			
Standing or kneeling for long periods of time			

EMPLOYEE BEHAVIOR			
Did employee(s):	Y	N	NA
Change behavior when approached (i.e. look for JSA, put on/adjust PPE)?			
Remain focused on the task?			
Rush to complete the task?			
Display good communication?			
Exhibit behavior that confirmed they are adequately trained for the task?			

DISCREPANCIES

1. _____

2. _____

3. _____

4. _____

5. _____

COMMENTS

OBSERVATION SUMMARY


Remember to keep it positive and focus on safe behaviors and actions!

1. Discuss with employees:

- a. Risks of the task
- b. Discrepancies noted
- c. Unsafe behavior observed
- d. Safe behavior observed
- e. Improvement opportunities
- f. Encourage employees to implement their stop work authority, when necessary.

2. Discrepancies should be corrected on the spot with the employee(s) or transferred to the local hazard tracking log.


If an unsafe condition exists or an unsafe act is occurring then Stop Work Authority must be implemented



Management Observation Card – Digital Application

Total Safety's ongoing efforts for continual improvement include the development of the Management Observation Card as an internal application to be used by TS employees on digital devices.

This product is expected to be launched in Q3 2022.

 **TOTAL SAFETY**

Management Observation

Observer Name:

Observer Title:

Date:

Job Task:

Job Location:

Employee(s) Observed:

How to Conduct an Employee Observation

1. Identify an employee or group of employees that will be performing a specific hazardous task.
2. Read the observation checklist prior to performing the observation.
3. Visit the work area and talk with employee(s) without the observation card in hand.
4. After the observation, complete the checklist.
5. Review observations with employee(s).

Next

5 MINUTE BREAK



If you were an Auditor or Mentor, remember to pick up your goody bag at the HBR Office today before you leave.



**ENVIRONMENTAL SMALL
BEST IN CLASS**





Best in Category – Environmental Small

CONCO SERVICES LLC



Safer. Faster. Cleaner.
GREENER.



SAFER

BEST PRACTICES

- **Drive participation in BBS program**
 - **Reward**
 - **Accountability**
- **Extensive Safety Training**
- **Low Pressure Mechanical Tube Cleaning**

The National Safety Council Awards



Perfect Record

- **2019**
- **2020**
- **2021**

One Million Manhours

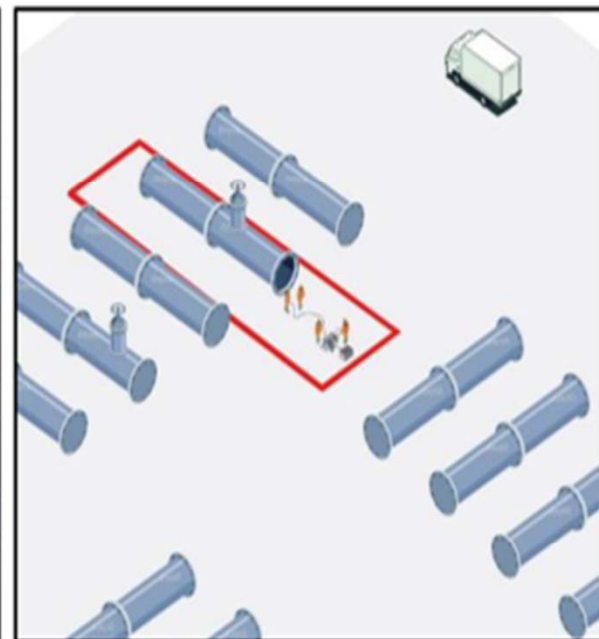
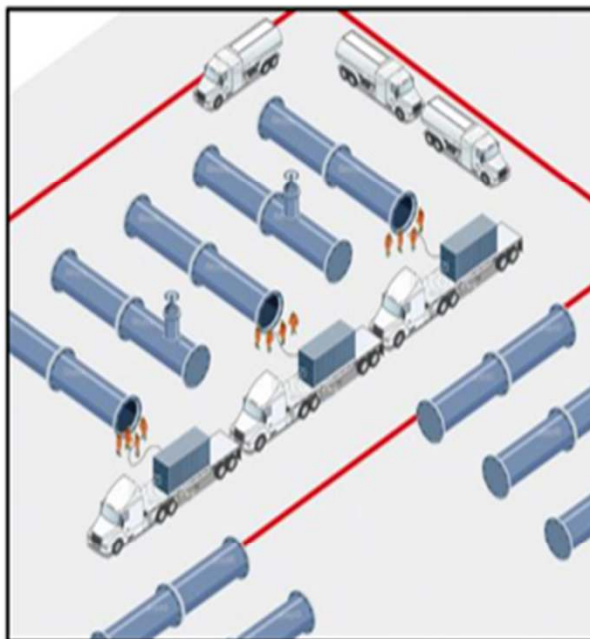


FASTER & SMALLER FOOTPRINT

Traditional Methods

Conco TruFit™

- **10-20 ft/s**
- **Duration reduced by 75%**
- **Cross-trained crews**
- **80% smaller space required**
- **Adjacent work continues**

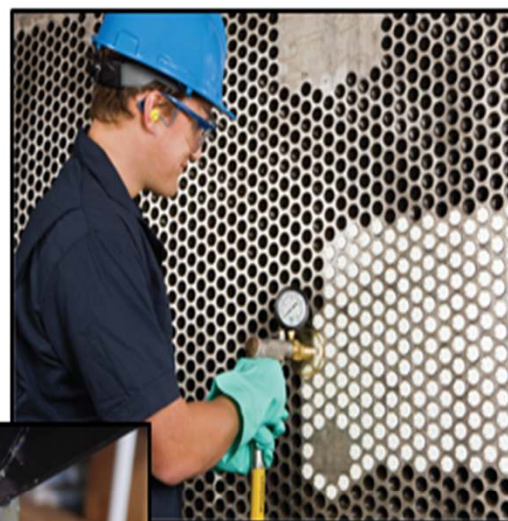




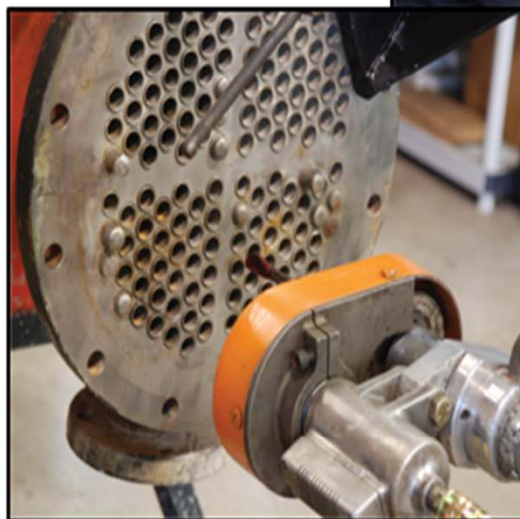
CLEANER

Clean completely blocked tubes

- **DRILL** the blockage
- **SHOOT** to remove wall scale
- **BRUSH** to finish for IRIS
- **ZERO** damage to tubes

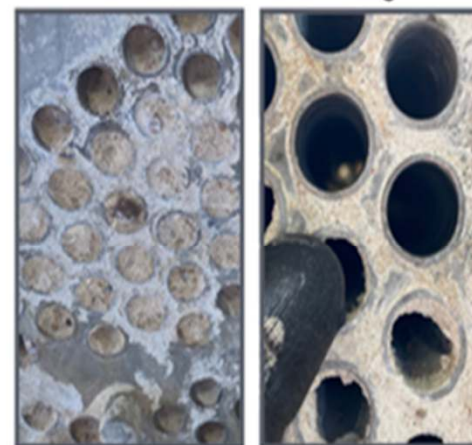


TruFit®



HydroDrill™

Excaliber™ Cleaning



Before

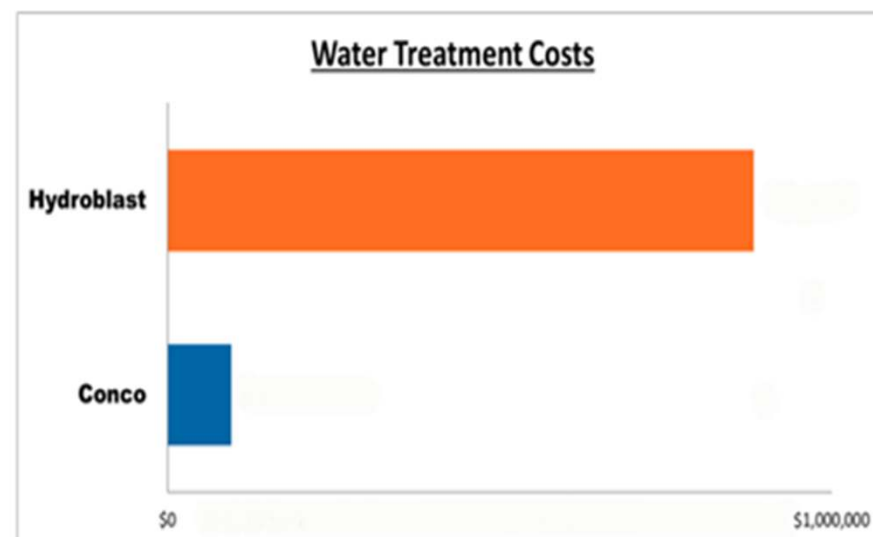
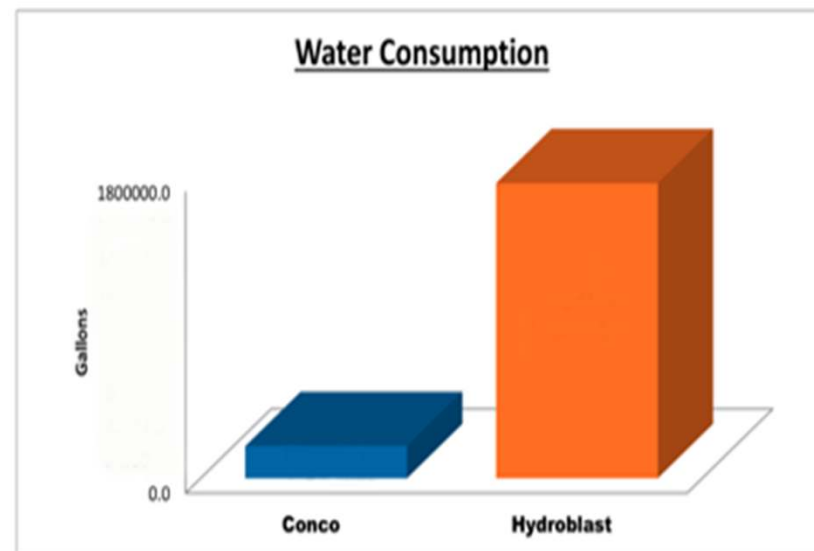
After



GREENER | SUSTAINABILITY

Conco's ProSeries™ Tube Cleaning System

- **Uses 80 - 90% LESS water**
- **Low-pressure water only - No chemicals**
- **Short bursts of water**
- **Waste is easily captured**
- **Less wastewater = lower treatment costs**





QUESTIONS?



Tim Meyer
V.P. & G.M.
Industrial Markets
TMeyer@conco.net



Tyler Traweek
ASP, CAPM
HSE Manager
TTraweek@conco.net



Edward Saxon, Jr.
V.P.
Field Services
ESaxon2@conco.net

ENVIRONMENTAL LARGE
BEST IN CLASS



Evergreen North America

INDUSTRIAL SERVICES

“Quality Service Is Our Obsession”



HBR Safety Excellence Award Best Practice

35th HOUSTON
SAFETY
EXCELLENCE
AWARDS






Evergreen North America
INDUSTRIAL SERVICES

Confidential & Proprietary | 1

GEM
AN EVERGREEN NORTH AMERICA COMPANY

Lessons Learned E Forms- Safety Alert with QR Code

	SAFETY ALERT		
	S.A. #: 2022-02	Date: March 11, 2022	
	From: Lloyd Pete, Safety Manager Tank Division		
	Subject: Protecting our Joints		



When we become complacent with simple tasks, injuries can happen.

On March 1, 2022, an employee stepped down from the rear of a flatbed pickup truck, like the flatbed truck pictured. The employee stepped down, placing his left foot on the rear bumper of the truck. He then heard a strange sound come from his left knee area and felt some discomfort from the same knee.


After reporting the discomfort to his supervisor and his safety manager, he was taken to medical for further assessment. The prognosis from the medical professional was a sprained knee. The employee was released back to work without restrictions.

Sprains and injuries from simple tasks can be avoided with proper planning and precautions.

There are a few approaches that can be taken to minimize the potential of injuries while performing this common task of mounting and dismounting the bed of a truck.

1. A stepladder can be utilized to assist ascending and descending the rear of the trucks.
2. The employee could avoid applying too much pressure on the knee by first sitting down on the bed of the truck's edge, with his/her hands flat on the bed, then slowly proceeding to exit from the seated position. The employee should always have a point of contact touching the truck bed until both feet are securely on the ground.

Protecting your joints and reducing high impact to them is essential in all tasks we perform.



- Microsoft Forms
- Using QR Code Technology on our Safety Alerts, allows the viewer to be redirected to a quiz that covers the Safety Alert.
- Immediately following our safety meeting where this Safety Alert is discussed, employees are able to scan and take the Safety Alert quiz from their Smart Phones/Tablets.

Lessons Learned E Forms- Safety Alert Quiz

Questions	Responses 840
1. Your Last Name *	
<input type="text" value="Enter your answer"/>	
2. Your First Name *	
<input type="text" value="Enter your answer"/>	
3. Last 4 of SSN *	
<input type="text" value="Enter your answer"/>	
4. What is your home branch? *	
<input type="text" value="Select your answer"/>	

- We collect data from the quiz taker including name, date, branch and quiz answers.



Lessons Learned E Forms- Safety Alert Quiz

Questions	Responses 840
<p>5. What body part was injured? *</p> <p><input type="radio"/> Finger</p> <p><input checked="" type="radio"/> Knee ✓</p> <p><input type="radio"/> Ankle</p>	
<p>6. What was the employee doing at the time of the incident? *</p> <p><input type="radio"/> Hydroblasting</p> <p><input checked="" type="radio"/> Descending from truckbed ✓</p> <p><input type="radio"/> Climbing a scaffold</p>	
<p>7. What is one of the ways you can exit truck beds or flat beds? *</p> <p><input checked="" type="radio"/> Using a stepladder ✓</p> <p><input type="radio"/> Using bungee cords</p> <p><input type="radio"/> Jumping down</p>	
<p>+ Add new</p>	

- This allows us to assess the retention of the information covered, the geographical location the information was covered and when the alert was reviewed. This allows us to track and measure how quickly these alerts are covered with all employees throughout the organization.



Lessons Learned E Forms- Safety Alert Quiz Results

Able to determine how long it took them to complete

Demographics is gathered and can be sorted as needed

A	C	H	K	N	T	W	Z		
ID	Start time	Completion time	Your Last Name	Your First Name	Last 4 of SSN	What is your home branch	What body part was injured	What was the employee doing	What is one of the causes
1	3/25/22 11:07:13	3/25/22 11:07:40	Rauenzahn	Janice	0523	Ballston Spa	Knee	Descending from truckbed	Using a stepladder
2	3/25/22 11:07:21	3/25/22 11:07:41	compton	Amanda	3324	Corporate	Knee	Descending from truckbed	Using a stepladder
3	3/25/22 11:07:20	3/25/22 11:07:57	Mckoy	Damien	4728	GEM West	Knee	Descending from truckbed	Using a stepladder
4	3/25/22 11:06:44	3/25/22 11:08:03	Burrell	Kerissa	7791	Tank Cleaning	Knee	Descending from truckbed	Using a stepladder
5	3/25/22 11:07:04	3/25/22 11:08:07	Galvan	Ashley	2430	Corporate	Knee	Descending from truckbed	Using a stepladder
6	3/25/22 11:06:44	3/25/22 11:08:10	Nicholas	Colona	8859	Wood River	Knee	Descending from truckbed	Using a stepladder
7	3/25/22 11:07:45	3/25/22 11:08:15	Moore	Christopher	0077	Texas City	Knee	Descending from truckbed	Using a stepladder
8	3/25/22 11:08:08	3/25/22 11:08:34	Guerrero	Kelly	6064	La Porte	Knee	Descending from truckbed	Using a stepladder
9	3/25/22 11:06:49	3/25/22 11:09:01	Crane	Amy	4561	Carlin	Knee	Descending from truckbed	Using a stepladder
10	3/25/22 11:08:10	3/25/22 11:09:02	Cedillo	Jimmy	4189	Corpus Christi	Knee	Descending from truckbed	Using a stepladder

Answers to the questions on the quiz can be viewed so you can determine retention of the safety alert and who needs further coaching on this incident



Lessons Learned E Forms- Conclusion

- We can compare the completed list against rosters from our branches to determine who has not yet reviewed the Safety Alert and taken the quiz.
- We prepopulated the branch list to avoid multiple listings for a branch based on how it was spelled.
- We are planning to use the QR code technology for other topics as well. In 2021 we used it to send out our Covid Safe Work Practices document and we were able to ensure compliance from each of our branches.



**CRANE & RIGGING SUPPORT
BEST IN CLASS**





BEST PRACTICE

Master Safety Plan – Our Foundation

Houston Business Roundtable – June 17, 2022



OUR ROADMAP TO SAFETY

SAFE WORK
MINDSET

PEOPLE

CULTURE

EMPLOYEE PARTICIPATION

MASTER SAFETY PLAN

SAFE PERFORMANCE

COMMITMENT

TEAMWORK

KNOWLEDGE

COMMUNICATION
SAFETY

PROCEDURES

“ Our highest priority is to make sure our people, our clients, and our working partners return home unharmed each day to their families and communities, and to accomplish this, we use our master safety plan as our road map. We believe that this master safety plan is our most direct and reliable roadmap to continued safety excellence.

DEEP SOUTH CRANE & RIGGING - MASTER SAFETY PLAN

	SAFETY STANDARDS	TRAINING	SAFETY MEETINGS	ISA	EQUIPMENT INTEGRITY	SAFETY AUDITS	INCIDENT MANAGEMENT	SAFETY SHARES
PROCEDURAL REQUIREMENT	Staffing, procedures, and template exist for identifying, developing and updating needed standards.	Procedures exist for identifying, developing & delivering effective training.	A method exists for identifying relevant topics and effectively delivering those topics.	The method of reviewing jobs, identifying hazards, and addressing hazards is documented.	Procedures exist to ensure that equipment is maintained in excellent operating condition.	Procedure exists to assure regular safety audits of employees and the workplace.	A report is developed for each incident. Investigation and follow-up are performed on a timely basis.	Procedure exists to assure appropriate sharing of lessons learned.
DOCUMENTATION	Written safety standards are developed for work processes and available to employees.	Plans, course materials, and training records are documented.	Session date, attendance, leadership, employee feedback and quiz results are documented.	Written ISAs are developed for all work, kept on jobsite till job completion, and then reviewed and filed.	A safety standard exists that documents DSCR equipment maintenance requirements and procedures.	Safety audits are documented, results are entered into a database, and follow-up actions are generated.	Known incidents and associated follow-up plans are documented and tracked to closure.	Documents are generated to share lessons learned across the organization.
MANAGEMENT SUPPORT	Management provides resourcing and other leadership activities and participates in the process.	Management provides the vision, strategy, resourcing and participates in the process.	Management provides a quality learning environment and participates.	Management supports the ISA process and participates in reviews to identify and manage risk in jobs.	Management supports the preventive maintenance program by providing maintenance personnel, facilities, and other resources.	Management participates in safety audits, sets examples, and demonstrates support and commitment.	Management creates the climate necessary for open and accurate reporting of incidents and supports follow-up efforts.	Management supports efforts to identify lessons that need to be shared.
KNOWLEDGE, SKILL, AND COMMITMENT	Process participants have the required knowledge, skills and commitment.	Training process participants are competent and committed.	Employees contribute and participate in safety meetings.	Those who develop ISAs are trained, understand and use the ISA process effectively.	Those personnel who perform equipment inspections and maintenance/servicing functions are trained and qualified to do so.	Participants in the safety audits have been trained in the methods to interact with employees and to make all interactions positive.	All employees have been trained in the reporting requirements.	Participants are trained, encouraged, and supported in their efforts to share key lessons learned.
EMPLOYEE PARTICIPATION	Employee participation and contributions are sought and encouraged in all aspects of the safety standards process.	Employees actively participate in training modules they attend and are responsible for various training functions.	Employees provide topic suggestions, share personal testimonies, and share ideas for improvement.	Employees participate in ISA creation, review, and sign a ISA before they begin each job every day.	Operations employees participate in the inspection process. Mechanical employees are part of the maintenance team.	Employees participate in safety audits as active members of an audit team.	Employees report all incidents they are involved in or observe. They participate in the investigation process.	Employees are involved in generation of safety shares as information contributors. Employees receive and understand the lessons shared.
RECOGNITION	Participation in the safety standards process is recognized.	Improvement contributions and participation in the training process are recognized.	Employee contributions and process improvements are recognized.	Contributions to developing and improving ISAs are recognized.	Participants are recognized for their contributions to the process.	Participation in the process, identifying key issues, and addressing findings are recognized.	Participation in the process and contributions to improving the process are recognized.	Participants in this process are recognized.
EFFECTIVENESS	The safety standards process creates the standards necessary for safe work.	Employees have the knowledge, skills, and commitment to meet and exceed job and regulatory requirements.	Quantity and quality of safety meetings meet expectations.	A standing ISA exists for each recurring job and non-routine jobs have a comprehensive ISA developed before work begins.	Equipment is maintained in excellent operating condition.	Hazardous situations are identified and eliminated. Solutions are found and implemented for recurring problems.	Incident trends decline through the continuous improvement process.	Needed information is communicated, received, and responded to.

DEEPSOUTH



Safety
Standards

Safety
Training

Safety
Meetings

Job Safety
Analyses

People are our most valuable
asset, and their **safety** takes
precedence over everything.

OUR ROADMAP TO SAFETY - ELEMENTS

Safety
Shares

Incident
Management

Safety
Audits

Equipment
Integrity

DEEPSOUTH

OUR ROADMAP TO SAFETY – CRITICAL SUCCESS FACTORS

- Procedural Requirements
- Documentation
- Management Support
- Knowledge, Skill, Commitment
- Employee Participation
- Recognition
- Effectiveness



IMPORTANCE OF COMMUNICATION

❖ Internal Communication with Employees

- Safety meetings
- Newsletter
- Interpersonal relationships
- Deep South workspace

workspace.deepsouthcrane.com

Home 🔔

Who or what are you searching for?

DEEPSOUTH WORKSPACE

MY RESOURCES ▾ I'D LIKE TO... ▾ OUR COMPANY ▾ OUR DEPARTMENTS ▾

POLICIES & PROCEDURES

SAFETY TRAINING

SAFETY DATA SHEETS

DON'T MISS IT | CLICK TO LEARN MORE

SAFETY SHARE NEAR MISS

- Never enter any travel path of running equipment without visual confirmation from the operator of the equipment.
- Use spotters/ladders when available to monitor foot traffic around moving equipment.
- When moving equipment, wait 5 seconds after honking the horn to allow people in the area to move to a safer location before moving the equipment.
- After any near miss or incident, immediately stop all activity and report the near miss or incident to your supervisor.

NEW SAFETY SHARE

The light gray area in this sketch shows the blind spots around an IS-wheeler from the driver's seat of the tractor truck.

FORMS

SAFETY SHARES

RECENT ACTIVITY

Latest Discussed Liked

Fort Dodge-IA_Unity Point Health Trinity_Referral Form (03.05.22)
by Chelsea Diaz
12 days ago

Fort Dodge-IA_Unity Point Health Trinity_Information (03.05.22)
by Chelsea Diaz
12 days ago

SS 2022 - Pipe Roller Failure
by Jeff Stonebreaker
13 days ago

End-OK_Integrin Class Occ Med_Referral Form (02.23.22)
by Chelsea Diaz

COMPANY NEWS

TRANSPORTERS AND CRANES FACILITATE PROCESSING PLANT...
The movement and replacement of process plant components are a familiar sight...
by Amy Savoca

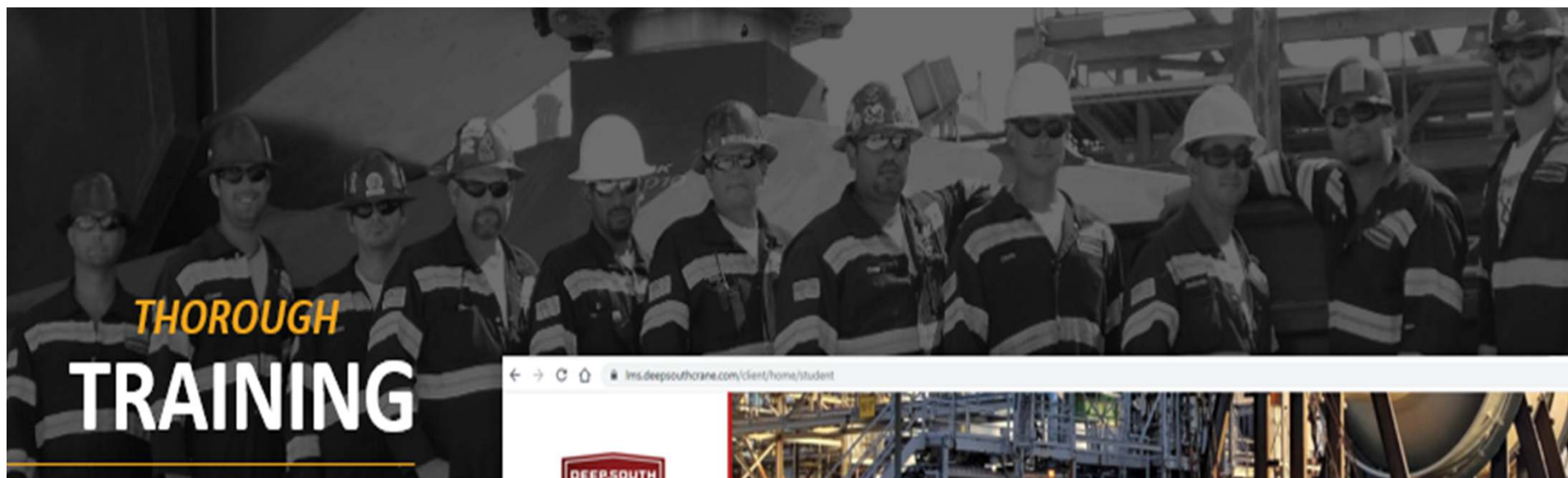
CREATIVE THINKING KEEPS TRANSPORT COSTS LOW AND...
As part of a natural gas fractionation project, an EPC contractor needed to...
by Amy Savoca

COVID-19 | UPDATE 9 | IMPORTANT EMPLOYEE...

VISION & VALUES

REACH

SAFETY MATTERS
EVERY DAY, EVERY JOB.



- We use a variety of methods for training and assessment of Deep South Crane & Rigging employees; these methods include:
 - ✓ Instructor-Led/ group training sessions,
 - ✓ Computer-based training delivered through our online Learning Management System (LMS),
 - ✓ Web-based training through third party providers, and
 - ✓ Third-party certification through accredited agencies.
- Our LMS can be accessed from the Deep South workspace.

lms.deepsouthcrane.com/client/home/student

DEEPSOUTH

Welcome
AARON M. LIRETTE

HOME

CHANGE PASSWORD

LOGOUT

Home

Assignments Optional Courses **Completions**

Course	Completion Date
WSM220530 HURRICANE PREPAREDNESS	05/31/2022
WSM220523 HEAT STRESS PREVENTION	05/24/2022
WSM220516 CONTROL OF HAZARDOUS ENERGY - LOTO	05/17/2022
WSM220509 FALL PROTECTION REFRESHER PT 2	05/10/2022
WSM220502 FALL PROTECTION REFRESHER PT 1	05/03/2022
WSM220425 ELECTRICAL SAFETY	04/26/2022
WSM220418 HAND PWR TOOL PT 2: PWR TOOLS	04/19/2022
WSM220411 HAND PWR TOOL PT 1: HAND TOOLS	04/12/2022
WSM220404 DISTRACTO DRIV & DRIV DEFNSVLY	04/05/2022

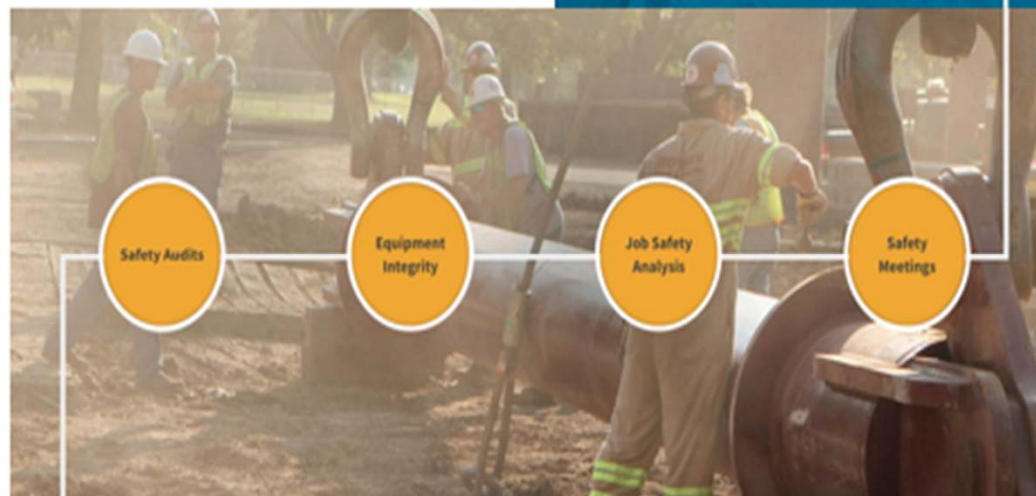




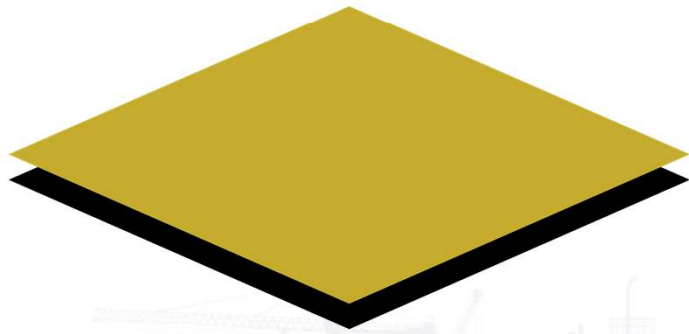
In Summary

Deep South combines some of the hardest working people with the most innovative solutions available to solve heavy lift and heavy transport challenges. We combine the right tools with the right talent to offer a range of services, from bare crane rentals to turnkey heavy lift and heavy transport solutions.

At the foundation, though, is our Master Safety Plan.

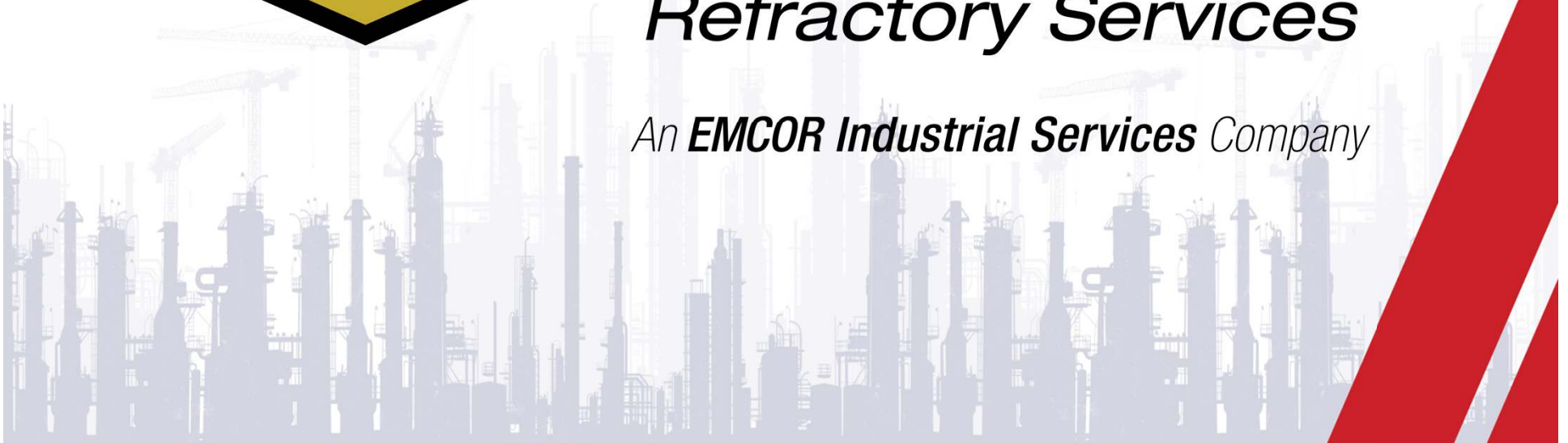


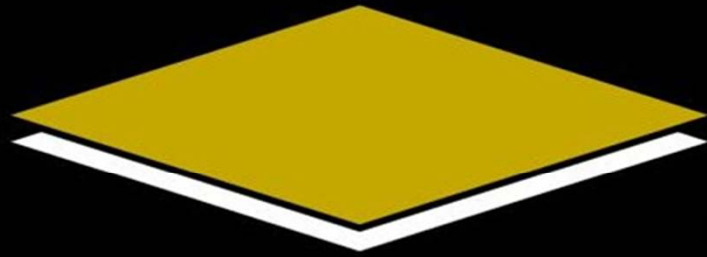
SOFT CRAFTS SMALL
BEST IN CLASS



Diamond ***Refractory Services***

An EMCOR Industrial Services Company





Diamond
Refractory Services

An EMCOR Industrial Services Company

Best Practices

Mission Statement

Our mission at ***Diamond Refractory Services*** is to be the ***premier*** provider of turnaround and maintenance services to the process industry. To accomplish this, our efforts are ***focused*** on our commitments to our ***customers*** and to our ***employees***.

Our commitment to our customers is to provide the best personnel, utilizing the best equipment and methodologies to facilitate ***quality*** services in the ***safest*** possible manner at the lowest possible cost.

Our commitment to our employees is to conduct our business through a ***“person-centered”*** approach that exhibits respect for the individual and recognizes the initiative and unique talents of each person.

“Mission First- People Always”

Diamond Refractory Services - Best Practices

The following practices are implemented throughout our organization and although the purpose of use and method of application vary, we take pride in them and believe that each one of our **Best Practices** is crucial in ensuring a **Safe & Successful** completion in each and everyone of our projects.

Best practices : **Safety Culture**

- ❖ **H.E.L.P Card Program**
- ❖ **Daily Pre-shift Exercise Program**
- ❖ **Task pre-start up Checklists**

Best Practices: **Field Ops execution**

- ❖ **Ventilation Equipment for crystalline Silica dust control**
- ❖ **Electric/ Mixing equipment**
- ❖ **Specialized PAPR type Respiratory Protection Equipment**


H.E.L.P Card Program – Safety culture Best Practices

The Help card program has been implemented across all projects and serves as a means of Communication, BBS observations, Employee feedback on company processes, procedures and most importantly a **peer-to-peer recognition** tool, employees are encouraged to observe each other and recognize those co-workers and crew leaders that go above and beyond to ensure that Diamond Refractory's safety culture is constantly evolving and improving leading to the overall success of the Diamond family.

Name: Brandon Christian

Date: 3/11/22

Client: Marathon

 **Diamond**
Refractory Services
An EMCOR Industrial Services Company

H.E.L.P. CARD
(Helping Everyone Learn & Participate)

OBSERVATION	Safe	At Risk	Corrective Actions / Comments
Personnel Protective Equipment	✓		N/A
Housekeeping	✓		N/A
Working in Excavation	✓		N/A
Working with Hot Surfaces	✓		N/A
Working with Heavy Equipment	✓		N/A
Working with High Voltage	✓		N/A

Safety Improvement & Observation (SIOP)

Your Safety Time To Shine!

Process: _____

Recommended Change: _____

Employee Recognition Program

Employees who have the courage to help eliminate or prevent unsafe acts/conditions deserve recognition. Who went above and beyond company expectations?

I believe Bobby
(Person's Name)
should be recognized for the following action:
I have to paint alot.
He always has the paint
ready for me And JTS
always used WELLS
Coat Mixer

Those employees that receive acknowledgement are praised and recognized by both corporate and on-site project supervision in addition to receiving appreciation awards during companywide site safety meetings. This encourages others to strive to perform their best and find ways to go above and beyond when it comes to performance and safety.

Daily Pre-Shift Exercise Program – Safety Culture Best Practices


Stretching exercise sessions performed daily as part of the pre-shift safety meeting led by supervisors, safety department, and field personnel. Allowing for a quick warm-up in preparation for the tasks ahead helping to prevent muscle sprains/strains while performing daily tasks. Each day a different employee including supervision is encouraged to perform the exercise routine, those employees that choose to participate are given praise and receive a safety recognition award.



This manner of implementing the exercise program helps to promote initiative amongst employees and encourages others to participate, re-enforcing a safety culture in which employees take the initiative in participating in all company and client driven programs.

Task Pre-Start Up Checklists – Best Practices Safety Culture

Task Pre-Start up checklists are utilized in field operations to ensure that the work that is going to be performed is done in the safest manner possible by having crew supervisors along with crew members inspect the Job area, task related documentation (Ex. Permits, permit related documentation, JSA's), PPE required for task, equipment and tools. It re-enforces a safety culture in which employees ensure that all hazards have been recognized, communicated amongst all crew members and mitigated prior to performing work.



Diamond Refractory Services
An EMCOR Industrial Services Company

WORK LOCATION: _____ JOB: _____ YEAR: _____ WEEK: _____


Supervisor Name: _____ Signature: _____

MIXING STATION INSPECTION CHECKLIST

To be completed by crew supervisor/foreman prior to beginning work in designated mixing station.
Documentation to be verified by OHS H&M Department Daily.

✓ ok X Problem identified (Add comment) N/A

Items to Inspect	M	T	W	T	F	S	S
1. MIXING STATION CONTAMINATED? (For tests involving extremely active agents, leaks, contamination)							
2. PROPER VENTILATION IN PLACE? (Before any personnel enter, ensure proper exhaust fan ventilation for same without wind flow) (When using any material a negative air pressure is used with a hood)							
3. MIXING EQUIPMENT INSPECTED AND TESTED? (Before each shift and after each shift)							
4. FUEL SYSTEMS IN PLACE AND IN GOOD WORKING CONDITION							
5. WORKING AREA AND PROTECTIVE BARRIERS? (If not, correct barrier signs? Protective materials used?)							
6. EMPLOYED PERSONNEL PROPER PPE FOR TASK? (If not, correct barrier signs? Protective materials used?)							
7. PROPER TYPING APPROVED MIXING AREA? (If not, correct barrier signs? Protective materials used?)							
8. PROTECTIVE BARRIERS, FENCING AND STORAGE AREAS AND MIXING AREA							
9. PROPER LIGHTING SET UP AT MIXING STATION? (If not, correct barrier signs? Protective materials used?)							
10. PROPER DISPOSAL OF UNUSED MATERIALS							
11. DEBRIS REMOVED FROM WORK AREA							



Diamond Refractory Services
An EMCOR Industrial Services Company

Pre-start up task checklist

Name: _____ Client: _____

Date: _____ Unit/Area: _____

	YES	NO	N/A
Has the permit been issued and signed by the client?			
Has the job and proper documentation for each task been filled out and review by all workers?			
Has the safety tool box meeting been held (discussing the topic of the day)?			
Has the air compressor been checked for fuel/oil levels?			
Has the motor paddle mixer been inspected prior to start of work day?			
Has the motor been inspected prior to start of work day?			
Has the sand not been inspected prior to start of work day?			
Has the motor been inspected for all level and proper gaskets to be in good condition prior to start of work day?			
Is the Gravity Duty Equipment been inspected for proper functioning?			
Are hoses connected and secured with safety pins and whip checks?			
Are ball hoses connected and secured with safety pins and whip checks and in good condition?			
Are all hoses set up in work areas not creating tripping hazards and off their heads?			
Is all PPE been worn properly by the worker to perform his/her task safely?			
Has the job been inspected before start of work day?			
Is the job done properly with the appropriate attachment, correct on place?			
Is personnel qualified and trained to perform the job in safe manner?			
Is material staged properly inside of the mixing station and pot station?			
Has your PPE been inspected for any damage and that it will do its duty properly?			
Has the scaffold been checked for the job location?			
Has the ladders been inspected with proper tags up to date and posted signed?			
Are all operators wearing their harness attached to DODV and have DODV between shoulder blades?			
Do you have drinking water on job area for workers to hydrate?			
Has your PPE been inspected for any damage and that it will do its duty properly?			
Are all operators wearing their harness attached to DODV and have DODV between shoulder blades?			
Do you have drinking water on job area for workers to hydrate?			

This document must be completed and turned in daily at end of shift.
By signing this document, I acknowledge that I have completed the inspection required before starting task.

Signature: _____

Crystalline Silica Dust control Equipment – Field Ops Best Practices

1. Ventilation equipment for the control of Crystalline Silica Dust



- 6,000+ CFM Air Flow Rating
- High efficiency HEPA canister type filters
- Weatherproof controls/ connections for outdoor staging
- Skid mounted/lift hook equipped for ease of transportation/movement
- Automatic Self-Cleaning via control panel
- Utilized in confined space work applications

Crystalline Silica Dust Control Equipment – Filed Ops best Practices

1.1 Ventilation equipment for the control of Crystalline Silica Dust

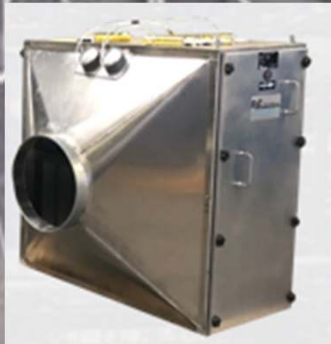


1.1.A- Vent hood

DRS has built a custom Dust Control Air Hood that attaches to our Allentown Gunite rigs and paddle mixers. This hood allows us to connect 16" ventilation ducting to decrease the amount of silica exposure to our employees. It is one of additional measures we have taken to go above and beyond industry standards to protect our employees.

Crystalline Silica Dust Control Equipment- Field ops Best Practices

1.2 Ventilation equipment for the control of Crystalline Silica Dust (Localized)



Ventilation System – localized

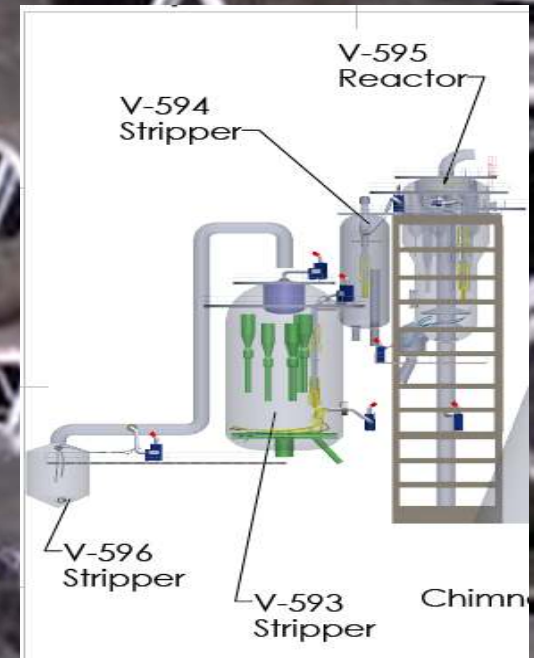
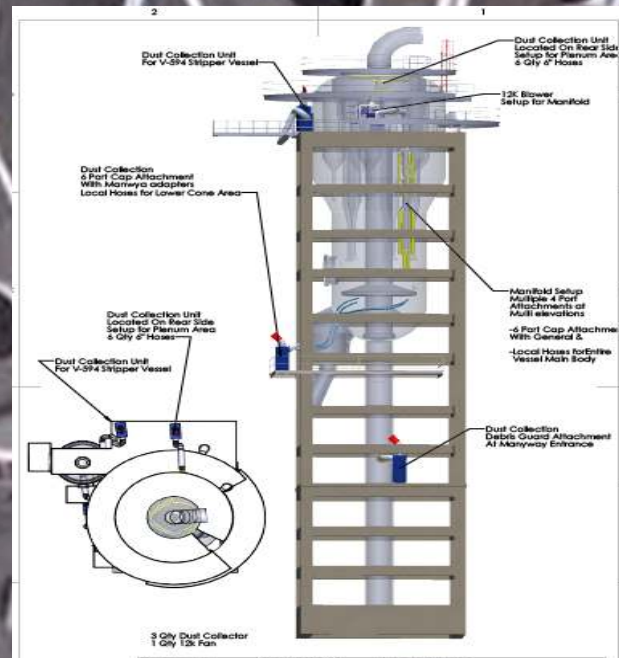
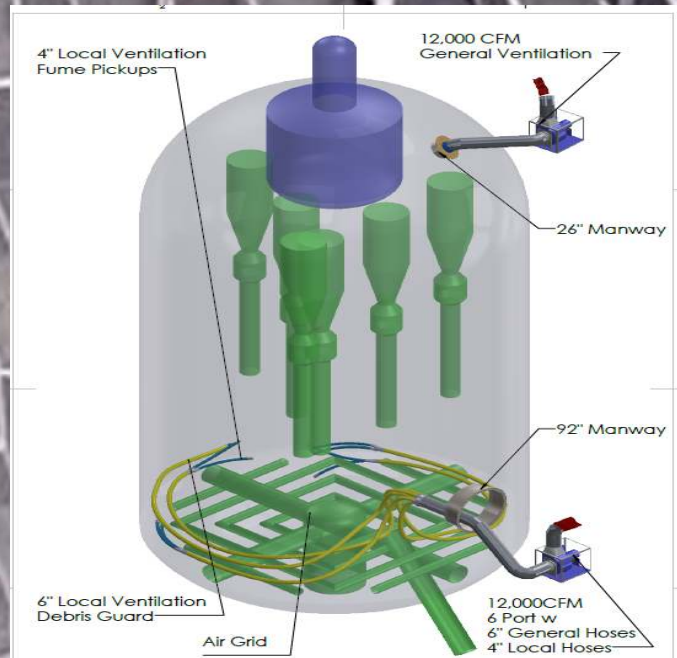
DRS reviews scope of work with our clients to determine the proper ventilation system for the scope of work

Local Ventilation-

1. Negative air machines with inline filters. An in-line filter will have a HEPA filter and pre-filter inside of it, such filters are changed out on a scheduled basis to ensure maximum efficiency
2. Negative Air flow ducting located at the source of dust creation. i.e., Refractory mixer and demo equipment to minimize airborne particles within a workspace

Crystalline Silica Dust Control Equipment - Field Ops best Practices

1.3 Ventilation equipment for the control of Crystalline Silica Dust (General)



1.3A- Ventilation System- General Ventilation

I. Creating general ventilation plans that Typically include engineered drawings with specific equipment locations, CFM ratings and depictions of air flow movements trough and out of the workspace to ensure a safe job execution.

Electric Powered Mixing equipment – Field ops Best Practices

2. Electric Powered Mixing Equipment



Electrical Mixing Equipment – Paddle Mixers

Use of fully electric mixing equipment to eliminate exhaust fumes (CO) inside mixing containment units and pollutants emitted by fuel powered equipment, Providing a safer and environmentally friendly working environment

- Loads below waist level and dumps high with adjustable heights to optimize ergonomic operation
- Hydraulic dump and drive
- Loads below waist level and dumps high with adjustable heights to optimize ergonomic operation
- Manual recoil and electric start/Stop

Electric powered Equipment – Field Ops Best Practices

2.1 Electrically Powered Equipment



2.1 A- Electrically powered equipment – crusher/Recycler

Utilized to reduce the size of large pieces of debris to facilitate in clean up, Transport, and waste disposal of spent refractory materials.

Utilized for the continued effort to drastically reduce labor fatigue and minimizing the possibility of sprains and strains that typically occur in the industry due to lifting/loading heavy objects.

Specialized HEPA PAPR Type Respiratory PPE- Field Ops Best Practice

3. Specialized HEPA PAPR Respiratory protection Equipment

(Battery Powered Portable Air Purifying Respirator)

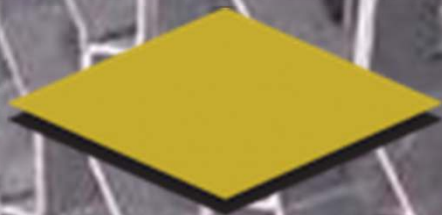


- | | |
|---|---|
| <ul style="list-style-type: none"> • 3M 6000 Series Full Face Respirator | <ul style="list-style-type: none"> • NIOSH SP3 particulate filter |
| <ul style="list-style-type: none"> • Power flow Powered Air Purifying Respirator (PAPR) System | <ul style="list-style-type: none"> • 3M Battery Pack, Intrinsically Safe |

3.1A- PAPR- Power flow High Efficiency SP3 Particulate Filter System

During demolition and installation activities silica levels increase. As a result, we utilize Powered Air Purifying Respirator (PAPR) Protection. The 3M Motor Blower Unit draws contaminated air through the 3M High Efficiency Particulate Filter. The filtered air then enters the front of the full-face respirator through the nose cup in the breathing zone. Air exits through the exhalation valve. Through silica monitoring we have confirmed this to be the best work practice for protecting our craftsman.

Thank You for your time



Diamond
Refractory Services

An EMCOR Industrial Services Company



EMCOR

Build. Power. Service. Protect.

8412 Mosley
Houston, TX 77075
Ph 713.378.9200 Fx 713.378.9103
www.diamondrefractory.com



**SOFT CRAFTS LARGE
BEST IN CLASS**



corrpro[®]

an AEGION[™] company



YOY Improvement

Best Practice



AEGION

Stronger. Safer. Infrastructure.

corrpro

Corrpro 2019 Safety, 2020 Management Meeting



HARD HAT DISPLAY



Red = LTI



Orange = recordables



Yellow = Vehicle Incidents

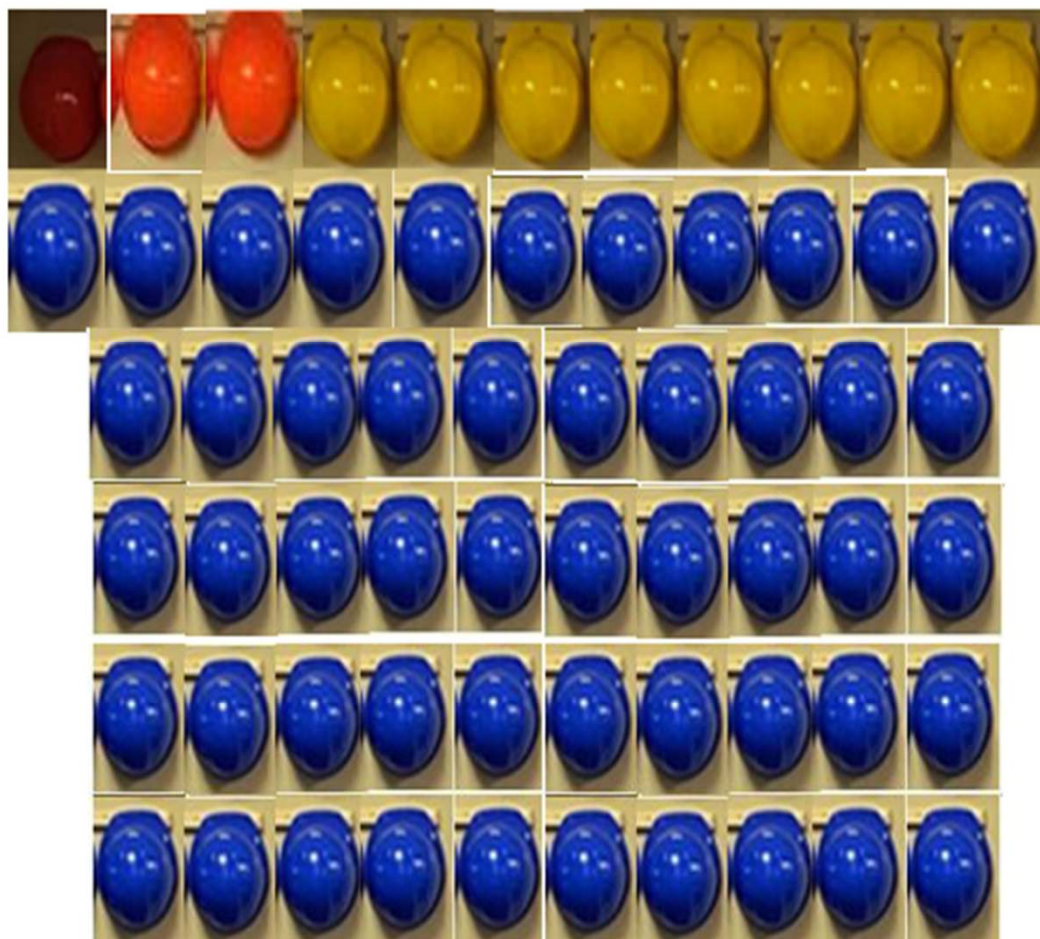


Blue = Lost and Restricted Work Days

\$300,000 in losses

\$6M needed in additional sales to cover losses

Corrpro 2020 Safety, 2021 Management Meeting



Red = LTI

Orange = recordables

Yellow = Vehicle Incidents

Blue = Lost and Restricted/Work Days

Corrpro 2021 Safety, 2022 Management Meeting



Houston Training Room

Zero LTI's
Recordables
Lost Work Days
Restricted Days



Yellow = Vehicle Incidents

\$5,600 in losses

\$28,000 needed in additional
sales to cover losses

Journey to ZERO



ZERO INCIDENTS ARE POSSIBLE.

Ensuring the safety of each employee is our top priority. Every Aegion employee is empowered to deliver best-in-class safety performance at all times.

Nominated Site
35 years recordable-free
10 years injury-free

Corrpro Companies
One year recordable-free
1,000,000 man hours



Pursuits



Voluntary Protection Programs

Pursuit of a STAR

ISO 45001 CERTIFICATION

Manage occupational health and safety (OH&S) risks to ensure stable operations

Pursuit of an integrated Management System

President's Personal Truth's of Safety Leadership

Personal message to the leaders of Corrpro from Wes Johnson, President

#1 Leadership starts with Ownership...

#2 Managing Awareness...

#3 Performance is Predictable

#4 Focus on the Right Indicators

#5 No One gets a Pass...

#6 "I have never seen Production or Quality decrease with an ENGAGED & ENERGIZED safety program...."

#7 "A solid Safety culture is driven by actions not philosophical debates"

#8 "If it isn't important to you, it won't be to them! – So, make it IMPORTANT."

#9 Tempo Matters... "You affect your team's safety by your expectations..."

#10 "Head on a Swivel" – Effectively managing crisis in a new age. Ex... Hurricane, Ice Storms, Covid...



Best Practices – COVID-19 Protocols

Administrative

Development & execution of the Aegion Pandemic Plan

❑ Communicated to over 100+ clients

- COVID-19 specific WI's developed & trained
- Disinfection protocols developed & executed

EHS led creation of Essential Worker documents

Personal Protection / Education

- VAX incentives up to \$5,000 give away
 - Paid time off for VAX related illness
- Medical hotlines set up through Health Advocate and WorkCare
- Numerous education, flash reports and toolboxes developed and communicated

Supplies

- Creation of an online COVID-19 Safety Supply Order process developed
 - 600+ orders fulfilled
- Foggers at each office
- Vehicle emergency kits
- Employee supplied rapid tests

Federal/State/Provincial Audits

California, USA
Missouri, USA
Alberta, Canada
Wellingborough, UK
Al-Khobar, KSA

Statement from UK Health Enforcement Officer
"Some of the best practices I have audited, congratulations and thank you"



Best Practices – International SOS employee assistance

Global provider to assist us with health, safety and security.

The partnership provides us with:

- 27 Assistance Centers - You can contact us any time, any day and in 100 different languages.
- 5,200 Health Professionals - With extensive experience in all fields of medicine, and a thorough knowledge of the local environment and healthcare system.
- Access to 3,200 Security Specialists - Providing analysis, expert advice and location monitoring across the world.
- 64 Clinics and 650 Remote and Workplace Sites - All accredited to international standards. In developed and emerging countries, offshore and remote locations.
- 91,800 Accredited Providers - In healthcare, aviation and security.
- Emergency Evacuation services



Alerts delivered to your workforce

January, 2021 - December, 2021

Country

Worldwide

42,171

Alert Emails Delivered

Alert Emails Delivered



Special Advisories delivered to your workforce

January, 2021 - December, 2021

Country

All

Category

All

Filter by Headline

Search

72

Special Advisories Issued

277

Special Advisory Emails Delivered



Assistance Activity - Global Overview

January 2021 - December 2021

10

Total Cases

0%

Serious Cases

1
Medical Assistance

9
Security Assistance

0
Travel Assistance

0
Cases via App

0
Emotional Support

0
Teleconsultations



10
Information and Advice

0
Out-Patient

0
In-Patient

0
Evacuation / Repat, & RMR

Best Practice – WorkHub – Employee Page

The screenshot displays the Aegion WorkHub Employee Page. At the top, the Aegion logo and 'Stronger. Safer. Infrastructure.' tagline are on the left, and the 'corrpro' logo is on the right. A navigation bar includes links for 'Hi, Todd', 'Admin Dash', 'WorkerID', 'Accounts', and 'Signout'. The main content area is titled 'MY WORKER DASHBOARD' and features a profile for Todd Brabson, VP - CHSE, Medina Safety. A 'MY DIRECT REPORTS' section shows a 'Compliance: 54%' progress bar. The 'RESPONSIBILITIES' section, marked '100% COMPLIANCE', includes 'Online Training' (All 25 Done), 'Certificates' (46 Optional), 'Policies' (All 9 Done), 'Procedures' (31 Optional), 'Bulletins' (All 4 Done), and 'Orientations' (1 Optional). The 'ONGOING TASKS' section includes 'Safety Meetings' and 'Other Forms'. The 'REFERENCES' section includes 'Materials', 'Legislation', and 'Credentials'. A 'JOKE OF THE WEEK' section is also present. A 'SUPPORT' section at the bottom includes 'Contact Workhub' and 'Help Articles'.

Aegion recognizes the importance to have accessibility to our Health and Safety Program. This has been met and achieved for our workers by providing them with access to their training data via their computers, smart devices and via QR code access.

We understand the importance this visibility provides to our workers.

- They can review new programs as they are developed and assigned.
- Review and acknowledge new and updated corporate documents.
- Submit completed documents for compliance to legislation requirements.

Workhub has provided a means for workers to review their current compliance at a glance, be notified of updates due.

With a dynamic work environment information is updated in a centralized easy to use portal.

Best Practice – WorkHub –Control Center Page

The screenshot displays the Aegion WorkHub Control Center dashboard. At the top, the Aegion logo and 'corrpro' branding are visible, along with user information 'Hi, TODD' and navigation links for 'Worker Dash', 'Accounts', and 'Signout'. The dashboard is organized into several sections: 'ORGANIZATION' with icons for Account, Workers, Positions, Locations, Assets, and Rewards; 'RESPONSIBILITIES' featuring a progress bar at 79% Organization Compliance and icons for Online Training, Certificates, Policies, Procedures, Bulletins, Competencies, and Orientations; 'ONGOING TASKS' with icons for Action Items, Surveys, Hazards & Incidents, Behavior Observations, Inspections, Suggestions, Safety Meetings, and Polls; and 'REFERENCES' with icons for Materials, Legislation, Credentials, and Audit Standards. A 'WORKHUB RESOURCES' sidebar on the right lists links for What's New, Release Notes, Product Roadmap, Help Articles, and Contact us.

Aegion has partnered with Workhub to provide access to our complete health and safety program. This allows for easy management of training, certificate tracking, procedures, policies, inspections all centralized in one easy-to-use portal.

Compliance to Legislative, Company and Client Training through: Online Training – the accessibility to provide training to workers in the office and remote working locations

Aegion has a combination of 225 programs developed and provided through Workhub as well as our own in-house developed programs fit for purpose and specific to our business

- with custom quizzes, adjustable pass rates and compliance tracking across your organization.
- Certificate Tracking – Aegion has over 138 recognized certificate training programs. These are assigned to workers that require the specific training and tracking of expiry dates with notifications being sent when training is about to expire and is due to renew
- Document library – allows for up-to-date publication and reviews
 - Aegion has currently over 175 Policies, Procedures and JHAs are made available on the computer and through our workers smart phones, again allowing for easy of use and visibility to their information as well as compliance tracking.

Best Practices – Frontline Leadership Development

The PEC Safe Supervisor course is designed to educate and lead a supervisors down a path of successful management. This course can be taken by existing Supervisors as well as workers that are getting ready for promotion into a supervisory role. This course focuses on the basic fundamentals of being a good leader, understanding your crew, handling difficult situations, and other common supervisor challenges.

The course includes several assessments, a facilitator and student binder and the following interactive components:

6-8 hour instructor-led course

5 interactive videos:

Setting an Example

Attitude

Communication

A Supervisors Responsibility to their Crew

Six Steps of Proper Feedback



Corrpro has:

- Four certified trainers
- 70+ certified supervisors/managers
- Published 24+ Frontline Leadership continuing education publications

Best Practices – Frontline Leadership Development



CERTIFICATE
Leadership for Safety Excellence

Filters Applied: Compliance Required Compliant: Yes + 1

Overall Compliance: 68%

NAME	POSITION	LOCATION	SCHEDULED	PROVIDER	ISSUED	EXPIRY	COMPLIANCE	COMPLIANT / APPROVAL
Aidan Anastacio	Engineer (Field)	Edmonton - Engineering	-	-	Jun 8, 2021	-	Required	Yes / Approved
Matthew Asfour	Engineer (Field)	Montreal	-	-	-	-	Required	No
Arash Baladi	Engineer/PC/PM	Vancouver	-	-	-	-	Required	No
Joseph Bamgbose	Engineer (Field) + Shell	Edmonton - Engineering	-	Alberta Construction Safety Association	Feb 23, 2021	-	Required	Yes / Approved
Brennan Berryman	Engineer (Field)	Saskatchewan	-	-	-	-	Required	No
Graham Besse	Engineer (Field) + Respiratory Protection	Edmonton - Engineering	-	-	Jun 1, 2021	-	Required	Yes / Approved
Joe Beutler	Site Admin/Toronto	Toronto	-	Infrastructure Health & Safety Association	Feb 22, 2013	-	Required	Yes / Approved
Mark Bissett	Engineer (Field)	Fort St. John	-	-	-	-	Required	No
Levi Blumhagen	Regional Operations Manager	Calgary	-	-	-	-	Required	No
Taylor Bradshaw	Engineer (Field) + CV	Edmonton - Engineering	-	-	Mar 30, 2021	-	Required	Yes / Approved
Matthew Burbridge	Engineer/PC/PM	Calgary	-	Alberta Construction Safety Association	Apr 19, 2013	-	Required	Yes / Approved
Jeff Burton	Engineer/PC/PM	Calgary	-	Alberta Construction Safety Association	Jul 20, 2018	-	Required	Yes / Approved
Benjamin Cloutier	Engineer (Field)	Edmonton - Engineering	-	Alberta Construction Safety Association	Apr 20, 2021	-	Required	Yes / Approved
Bryan Cole	Engineer (Field)	Edmonton - Engineering	-	Alberta Construction Safety Association	Mar 12, 2021	-	Required	Yes / Approved
Opeyemi Dare	Engineer (Field) + Shell	Edmonton - Engineering	-	-	Feb 23, 2021	-	Required	Yes / Approved
Hashim Daud Shah	Engineer/PC/PM	Fort St. John	-	-	Jan 11, 2022	-	Required	Yes / Approved
Jeff Delorme	Engineer/PC/PM	Calgary	-	ACSA	Feb 26, 2021	-	Required	Yes / Approved
Stephen Dueck	Engineer (Field) + CV	Calgary	-	IHSA	Jan 24, 2020	-	Required	Yes / Approved
Elie Estephan	Corprover + Supervisor	Edmonton - Corprover	-	ACSA	Sep 19, 2007	-	Required	Yes / Approved

Leadership for Safety Excellence

- Canada focused and driven 56 leaders trained and maintained in this certification course.

Best Practices – Excavation Practices



GOLD SHOVEL STANDARD

- 12 months incident-free
- Last two incidents
 - Unmarked cathodic protection cables on a natural gas pipeline
 - Unmarked farmers waterline
- 400,000 hours incident-free
- No hazardous spills in the last 10+ years



Life Saving Rule

Work Hours per Month



Excavation Committed

25+ Competent Persons

50+ OQ certified operators

5 certified instructors



corrpro

Best Practices – Leadership Audits

Management commitment and hazard identification/abatement are two of the pillars of the Corrpro Safety Management System. In 2021, in the middle of a pandemic, our leaders conducted 1,037 audits in North America.

This was made up of the following:

- 715 field audits
- 143 office audits
- 179 plant audits

This has allowed us to identify and abate numerous hazards. Plus identify training activities in real time to the hazards our teams are confronting.

Corrpro's SMS Pillars

- Management Commitment
- Employee Involvement
- Hazard Assessment/Abatement
- Training



Best Practice – LSR / Focus Four Training

Reinforcement of our Life Saving Rules and annual Focus Four

- In-house development training videos
- Employee involved story sharing
- Reinforcement of LSR/FF and trends
- Tied to incentive programs
- Loaded to WorkHub / tracked

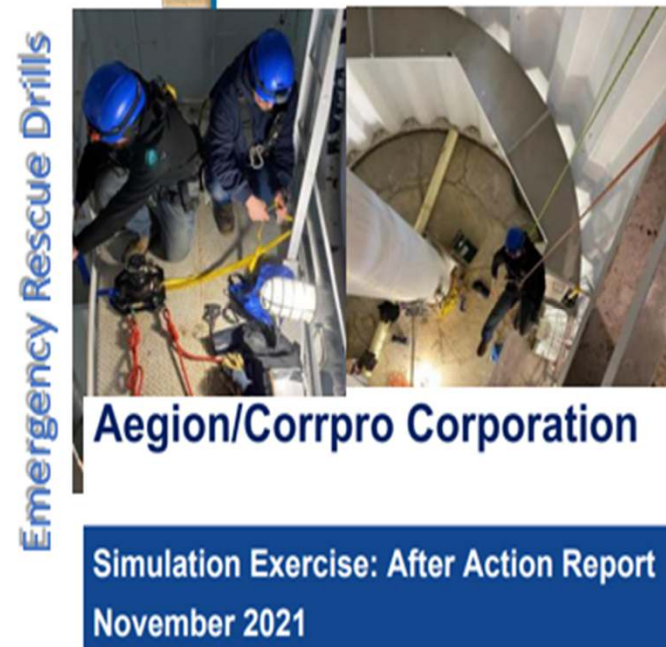


2021 Monthly LSR & Focus Four Training Plan

- Goal:** To deliver an impactful monthly training module concentrated around our Life Saving Rules and Focus Four.
- Objective:** To utilize cross-functional teams bringing a wide variety of knowledge and experience together.
- Tactics:** Use our camera's (3), computer software (2), camera lights (3), green screens (1), drones (1) to develop presentations focused around all business units globally.
- Set up team meetings, early, so planning can take place amongst the team. Ensure all the tools are readily available.
- Deadlines:** Critical that they are met. DO NOT WAIT, start building as soon as your team can meet.
- Measurement:** I want each of you to build this into you 2021 goals.

Delivery	TOPIC	Data collector / producer	Video editor	Video / interviewer collections	DUE DATE
January					
February	Focus Four Hand/Laceration Prevention	Paul Bladen	Brad Sumner Montgomerie	Vicky Yilalis	3-Feb-21
March	LSR Equipment Operation	Billy Cable	John Gage	Chuck Berdine	3-Mar
April	LSR Electrical	Chuck Strickfaden	Ryan Billmeyer	Wendy Stapleton	3-Apr-21
May	Focus Four Leadership - Heat Stress	Julian Arevalo	Sara Kopff	Scott Keil	3-May-21
June	LSR Confined Space	Jason Stegall	Rodney Provost	Esmeralda Herrejon	3-Jun-21
July	LSR Excavation	Matt Beaver	Alicia Hole	Steven Dowhanuik	1-Jul-21
August	Focus Four Distracted Driving	Jen Hudgens	Brent Clark	Jeovani Pudadera	3-Aug-21
September	Focus Four Leadership/ Accountability	John Gage	Daniel Kolotyluk	Ben Olivier	3-Sep-21
October	LSR Fall Protection	Dawn Kitchen	JF Demers	Vicky Yilalis	3-Oct-21
November	LSR Elevated Loads	Rodney Provost	Jen Hudgens	Gil Cuzdey	3-Nov-21
December	Focus Four Body Mechanics	Steven Pease	Billy Cable	Sara Kopff	3-Dec-21

Best Practice – Emergency Preparedness



Best Practice – Emergency Preparedness

GLOBAL HAZARD ASSESSMENT



Mapping risk across the globe

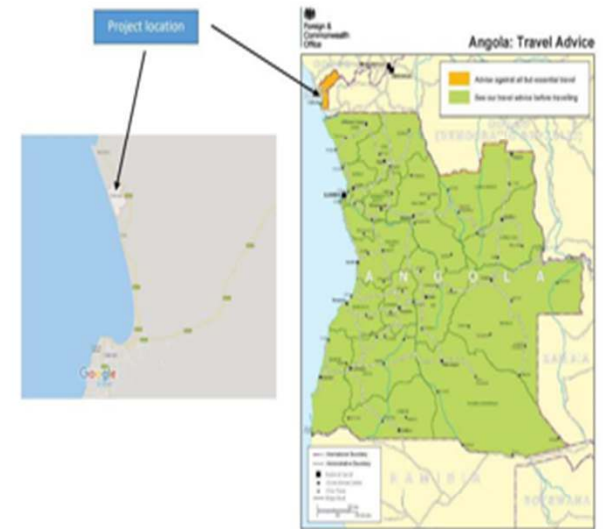


Assessment of increased US-Iran tensions

OVERVIEW:

Corpro UK has a draft agreement place for a site visit at the Malongo Terminal in Cabinda, Angola with Chevron Angola for approximately £25,000. This will require one person to be in the country for ten days. Chevron is providing full time assistance during the project. Chevron will provide local support including "Meet and greet" at Cabinda airport, camp, local transport, accommodation and food within their camp. The work to be completed is to take place in the "ORANGE" portion of the country.

Aegion, Corrosion Protection Platform
Angola Security Assessment
Corpro UK, Chevron Angola, Cabinda, Malongo Terminal



Project/Country Specific Hazard Report



y Security Report



Best Practice – Emergency Preparedness – Employee Level

Worker Emergency ID

To assist in an emergency and without violating privacy regulations we introduced this tool to our workforce to assist paramedics and first attenders in an event of an emergency.

This is a little hardhat sticker/case with a notepad that the employee fills out with his/her pertinent health information. It seals back into the case until things change or it needed.

Keys for success:

- Ensuring everyone gets one and updates it accordingly with emergency medical, allergy & contact details using a fine tip permanent pen or marker.
- Ensuring we are constantly looking and reinforcing the utilization of the tool.
- Ensuring these are passed out to new hires / temporary employees.

The tool itself is simple, with great directions.



Best Practice – Mental Health – People Focused

- **Global Internal and External Training**
 - Seminars
 - Toolbox trainings (English, Spanish & French)
 - Partnerships with expert agencies
- **Awareness (English, Spanish & French)**
 - Posters
 - Hand-outs
 - Wallet cards
 - Hard hat stickers
 - Mental health and veterans
- **Awareness Walks**
 - Participated in eight walks in North America
- **Charity Football Game**
- **Partnered with ATK Motorsports for their car raffle**
- **Employees trained in Mental First Aid**



Best Practice – Confined Space Trailer / Trainer

Corrpro shares a Confined Space Trailer from a sister Company.

- Provides real life / hands-on training
- Allows for skill assessments
- Set up in the parking lot for your review



LIFE SAVING RULE

CONFINED SPACE
COMMITTED
100+ Certified
Competent Persons

5 Certified Instructors



corrpro

Best Practice – Operator Qualification 49 CFR Part 192, Subpart N and 49 CFR Part 195, Subpart G



U.S. Department of Transportation
**Pipeline and Hazardous Materials
Safety Administration**

- Corrpro is a recognized NCCER training location
- Corrpro has 28 NCCER, Veriforce, MEA and ITS Instructors, including one certified NCCER Remote Instructor
 - This is equivalent of one instructor to every eleven employees (1:11)
- In 2021 over 2,000 OQ's were conducted
- We are providing Subject Matter Experts to help develop NCCER's new OQ program
- Corrpro sits on NCCER's Pipeline User Council
 - One of two Companies to hold this position as a non-operator
- Corrpro sits on Veriforce Industry Advisory Board



Best Practice – FLEET SAFETY

TRAINING

- Aegion Aware Driving Classroom & Behind the Wheel
- Online remedial training through ESIS
- 2021 started partnership with National Safety Council for additional specific training
- Situational toolbox training

COACHING

- Samsara harsh event monitoring – immediate coaching opportunities
- Camera installation in 2021
- Lowest CPMM since 2016



DOT COMPLIANCE

- Record low CSA scores
- No OOS violations in 2021
- No driver violations in 2021
- Three Equipment violations, record low

CPP	Threshold %	Corpro
Unsafe	65	0
Hours of Service	65	0
Driver Fitness	80	0
Vehicle Maintenance	80	28 ↑
Crash	65	↓ 48
Controlled Substance & Alcohol	80	0
Hazardous Material Compliance	80	0

	Total # of Driver Files	Total # of files 100% Compliant	Total % Compliant
Platform			
CPP	55	55	100%

Best Practices – Technical Advances – Dashboarding

AEGION SAFETY

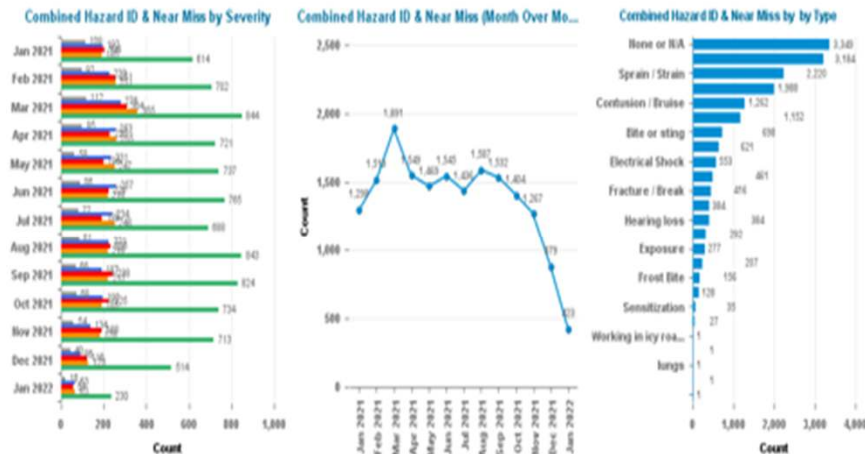
DASHBOARD

Date Range: January 01, 2021 thru January 19, 2022

LEADING INDICATORS

Selected Leading Indicator to Display: Hazard Identification Near Miss ALL

SmartSheet: Hazard ID or Near Miss
SmartSheet: Identificación de peligros, Casi Accidente



Blank	Category 1	Category 2	Category 3	Category 4
	(Potential for significant injuries / Damages)	(Potential for injury/ insurance reportable incident)	(Potential for a minor striking of an object or first aid)	(Potential but risk is very minor)

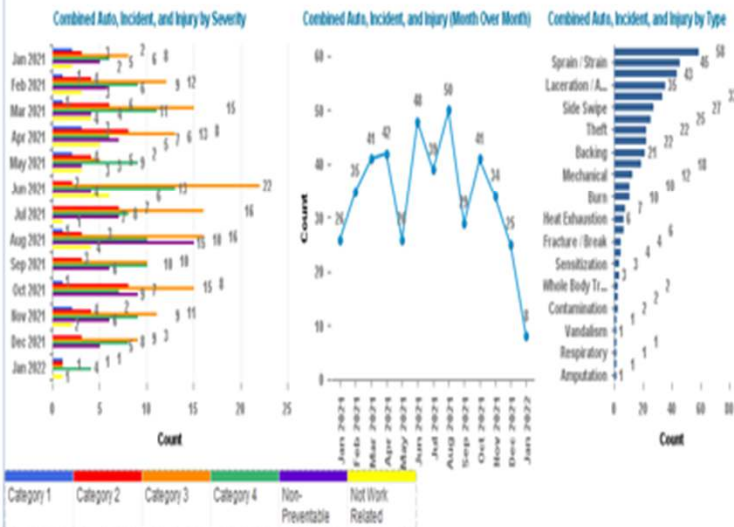
Leading Indicator Board

- Instant snapshot, 24-hour communications
- Drill down ability to crews
- Use to predict areas of attention

LAGGING INDICATORS

Selected Lagging Indicator to Display: Auto Incident Injury

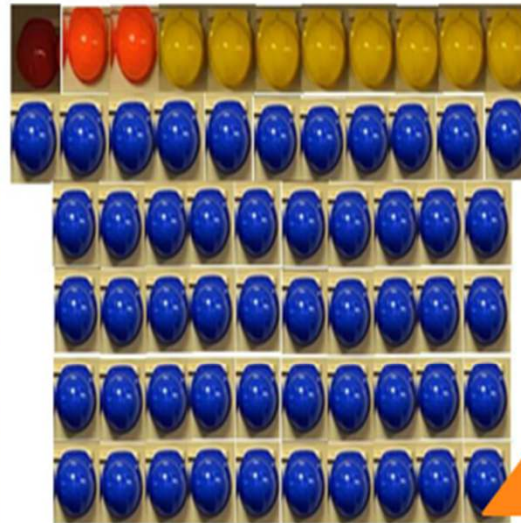
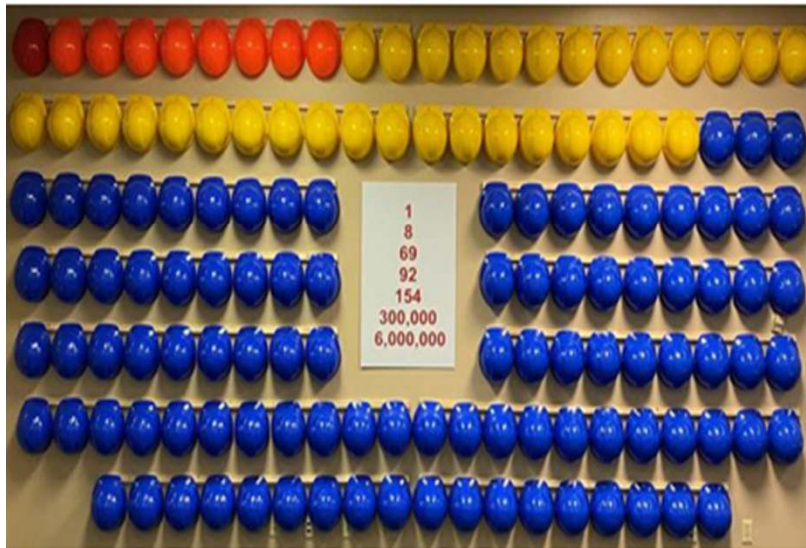
SmartSheet: CFP_ISP_Auto_Incident
SmartSheet: CFP_ISP_Incident File
SmartSheet: CFP_ISP_Injury_Log



Lagging Indicator Board

- Instant communication to all leaders
- Drill down to the Supervisor level
- Trending analysis
- Training opportunities identified

BEST OF THE BEST JOURNEY



Corrpro Companies
One year recordable-free
1,000,000 man hours

2019

2020

2021

Nominated Site
35 years recordable-free
10 years injury-free

**HARD CRAFTS SMALL
BEST IN CLASS**



HUNTER
SITE SERVICES



HBR Best Practices Presentation



Quarterly Safety Days



Once a quarter
production stops, we pull
all our crews off
customer job sites and
conduct a Safety Day



Scheduling Safety Day



Safety Days Consist of:

- Compliance Training / Policy review
- Guest Speakers/Topic Experts
- Equipment Training / Certifying
- Hands on Training
- Team Building
- Wellness
- Birthdays
- Employee Appreciation/Recognition
- Safety Survey



Safety Day Training



Compliance Training



Equipment Training



Hands On Training

Team Building

Our team building consists of different games / activities



Appreciation & Recognition



35th HOUSTON
SAFETY
EXCELLENCE
AWARDS



hasc

Wellness & Birthdays





HUNTER

Thank You
for listening!

5 MINUTE BREAK



If you were an Auditor or Mentor, remember to pick up your goody bag at the HBR Office today before you leave.



**HARD CRAFTS LARGE
BEST IN CLASS**



WYATT



35th HOUSTON
SAFETY
EXCELLENCE
AWARDS



WYAT

Houston Safety Excellence Awards

Best in Class



Best Practices

2019



2020



2021



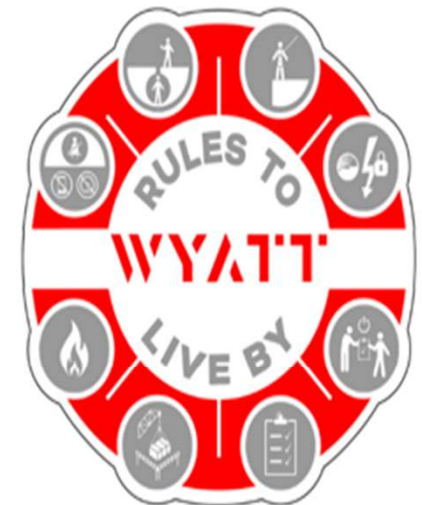
Corporate-wide development and adoption of WYATT'S Rules to LIVE By

8 vital rules inspired from best practices in our industries and that of our clients.

Raise company and individual risk awareness and that of our colleagues.

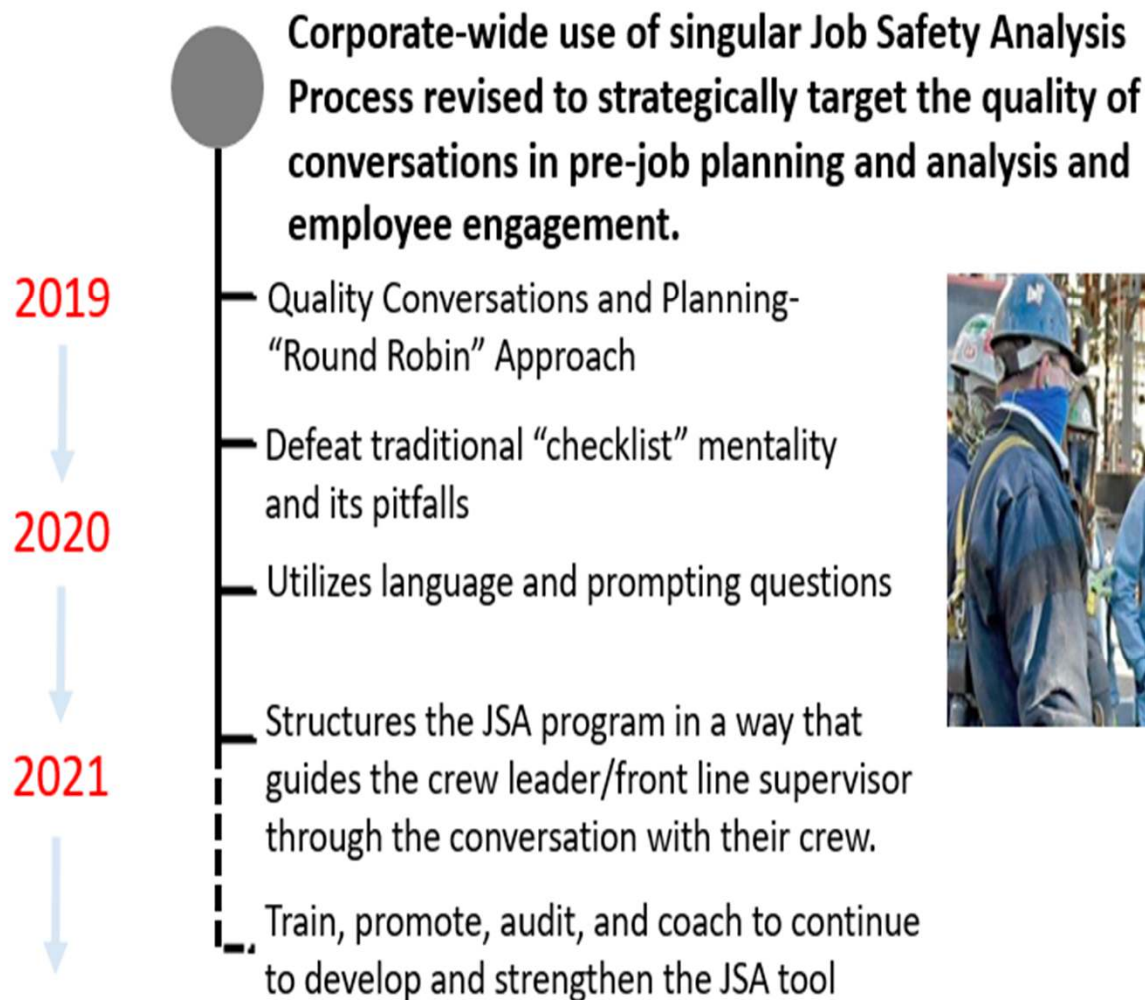
Rules to LIVE By integrates with every aspect of the Wyatt Safety System. Rules are utilized in pre-job planning, job safety analysis, training and new to Wyatt employee program, incident investigation and corrective action plans and lessons learned.

Continue campaign of awareness, education, and buy-in. Leverage to aid in culture shift.





Best Practices





BEST PRACTICES

New JSA and Critical JSA Discussion Items Interface

- Quality Conversations and Planning- “Round Robin” Approach
- Defeat traditional “checklist” mentality and its pitfalls
- Utilizes language and prompting questions
- Structures the JSA program in a way that guides the crew leader/front line supervisor through the conversation with their crew.
- Critical items list helps focus on the company’s key injuries and prevents recurrence.



CRITICAL JSA DISCUSSION POINTS

All items on this list have contributed to an incident/injury in Wyatt's work history. At least one of these items will always pertain to the work you will perform. You are required to identify the item(s) which pertain to the task at hand and include them in your JSA discussion. Please identify which items were discussed by documenting the respective number on your JSA.

TOOL USE

1. **DE-ENERGIZE POWERTOOLS:** Always unplug/disconnect power source before changing parts.
2. **SLEDGEHAMMERS:** Always understand where the hammer could go when it is swung, assume it could glance off or rebound. Always position yourself and coworkers accordingly.
3. **GRINDERS/POWERGRINDERS:** Always position your body in a way that if the wheel binds up, the grinder will not jump back and contact you. Never put the grinder in a position where it may bind and jump. Never lay the tool down before the wheel has stopped spinning.
4. **WRENCHES:** Always assess line of fire when using wrenches. Never pull a wrench toward your face. If line of fire can not be avoided, you must wear a face shield while using a wrench.
5. **"METABOLIC" CUTTING WHEELS:** Always get express approval from the superintendent before checking this tool out of the toolroom. Never use this tool without proper training.
6. **BANANA WEDGES:** Always try to avoid use of banana wedges when possible. When not possible, you must receive Wyatt training before use.
7. **TROLLEYS:** Always follow Wyatt's trolley inspection checklist before use.

HEAVY EQUIPMENT

8. **EQUIPMENT/PERSONNEL INTERFACE:** Always plan work with material placement and work zones to prevent personnel encountering equipment. If equipment must enter work zones, always stop all work and have a designated flagger to keep all personnel clear.
9. **CARRY DECK CRANES:** Always ensure outriggers are already lowered before allowing personnel around the equipment.

WORK PRACTICES

10. **PINCH POINTS/LINE OF FIRE:** Always assess and discuss hand and body positioning of all crew members during work activities- especially during rigging activities and use of tools.
11. **AIR HOSE CONNECTIONS:** Always make sure hose connections have whip checks/pins or check valves installed to prevent potential injuries in the event of a disconnect.
12. **WEAR FALL PROTECTION PROPERLY:** Always make sure that your harness is fit-up and worn properly with lanyards secured tight to the body. Use caution with ladder cages and objects which could potentially snag your harness/lanyard.
13. **POSITIVE LIFTING CONNECTIONS:** Always verify that a positive connection has been made to ensure that material will not slip or fall before it is lifted- this includes lifting tool bags. Never assume the connection is correct, verify first.
14. **NO ONE WORKS ALONE:** Never allow a co-worker to work alone. Never take chances or take shortcuts- ask for help.
15. **HEAT EXHAUSTION:** Always assess working conditions. Any jobs where temperatures are above 90°F or 80°F with special protective clothing, Wyatt's Heat Stress Program must be followed.

JOB SPECIFIC

16. **FLARE LINE BREAKS:** Always read and follow flare line breaking procedures.
17. **CONFINED SPACE HOTWORK:** Always have a water supply available at entry point. Only pressurized water extinguishers may be used.
18. **MAN BASKET WORK:** Always check weather prior to working out of a basket and have a plan in case of inclement weather. Always keep hands and body inside of the basket.
19. **OFFLOADING TRAILERS:** When offloading material from trailers Always get off trailer before proceeding with lift. If lift MUST be done on trailer- management approval is required.

BEST PRACTICES

Wyatt Safe Rigging & Lifting Practices Handbook

- Pairs down a 7" company manual to the core necessary components for a field employee rigger
- Developed by Wyatt HSE and Rigging Engineering Department
- Provides concise information on:
 - Expectations, policies, and procedures
 - Inspecting rigging and equipment
 - Load tables and configurations
 - Lift plan requirements



Best Practices



Revitalizing our original safety culture implementation through the Wyatt Incident & Injury Prevention Program



2019



2020



2021



- Developed by Supervisors and drives home that every member of Supervision and Leadership is our Safety Leadership and establishes accountability.
- Tracks and holds accountable how each Supervisor audits, coaches, and most importantly, leads our employees.
- Ensures that every employee is appropriately trained for the work that they perform and that our Supervisors are also trained and empowered as leaders
- Forms the core of the Wyatt Safety System and ensures identical execution of programs and expectations on each project across the corporation.
- Program Assessments
 - Virtual assessments completed in 2020/2021
 - In person assessments scheduled for 2022

**GENERAL CONTRACTOR SMALL
BEST IN CLASS**



H+M

INDUSTRIAL EPC





H+M Industrial EPC

Best Practice Presentation
Presented by Jeff Chandler, HSE Supervisor



H+M Industrial EPC

Making Safety a Lifestyle since 1988



Hand and Power Tool Hazard Assessment Pocket Guide

The pocket guide establishes a system to assess the risks associated with the various hand & power tools to be used.

Employees can utilize this booklet to help them develop JSAs, and identify the hazards, and risk mitigation controls to minimize or eliminate those hazards.

This pocket guide provides:

- Overall risk category
- List of hazards
- Required PPE
- Required safeguards
- Special details concerning each tool



What's in the book?

The book lists 21 tools that H+M routinely uses. In addition, it includes inspection guidelines, a risk assessment, required PPE and safeguards

Impact		Probability			
Hazard Severity	Injury Type	A - Very Unlikely A sporadic combination of factors required for an incident to result	B - Unlikely A rare combination of factors would be required for an incident to result	C - Possible Could happen when additional factors are present but otherwise unlikely to occur	D - Likely Not certain to happen but an additional factor may result in an accident
1. Slight	Slight health effect/injury (First Aid)	A1	B1	C1	D1
2. Minor	Minor health effect/injury (RW or MT)	A2	B2	C2	D2
3. Major	Major health effect/injury (LT)	A3	B3	C3	D3
4. Severe	Permanent Total Disability or single fatality	A4	B4	C4	D4
5. Disastrous	Multiple serious injuries or fatalities	A5	B5	C5	D5
Green (Low)		Blue (Medium)		Orange (High)	

Personal Protective Equipment required (PPE): Icon Glossary



Foot Protection



Head Protection



Face Protection



Body Protection



Cut Resistant Gloves



Safety Glasses



Hearing Protection



Respiratory Protection

Classification	Risk Reduction Techniques
Low	Manage for continuous improvement. May be acceptable; however, review tool use to see if the risk can be reduced further.
Medium	The task should be evaluated to take the hazards involved into consideration. Risks should be reduced as low as reasonably as possible prior to tool use (i.e. substitute tool with a lower risk tool where possible (Angle Grinder vs Bench Grinder), inspect the tool before use, wear appropriate PPE, etc.)
High	Supervisor approval required. Tool use should only proceed with appropriate management authorization after consultation with the HSE Department.

What's in the book?

Angle Grinder

H+M
INDUSTRIAL EPC

Risk: Medium (C3)	
	Hazards <ul style="list-style-type: none"> • Kickbacks causing severe cuts • Loud noises • Flying particles and debris from a shattering disc • Electrical shock • Dust • Rotating blade
Required PPE	
<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  Standard PPE </div> <div style="text-align: center;">  Hearing Protection </div> <div style="text-align: center;">  Fitted Clothing (i.e. short tucked in) </div> <div style="text-align: center;">  Face Shield </div> </div>	
Required Safeguards <ul style="list-style-type: none"> • Tool must not have lock-on switch • Handle and Guard must be installed • Tool must be protected with GFCI • Grinding disc must meet RPM or exceed grinders RPM • Select the right wheel for the job • Do not wear loose or dangling garments or jewelry 	



Pneumatic Impact Wrench

H+M
INDUSTRIAL EPC

Risk: Medium (C3)	
	Hazards <ul style="list-style-type: none"> • Rotating equipment • Loud noises • Socket/Attachment breakage • Flying objects • Unsecured air hose • Improper body position
Required PPE	
<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  Standard PPE </div> <div style="text-align: center;">  Hearing Protection </div> <div style="text-align: center;">  Face Shield </div> </div>	
Required Safeguards <ul style="list-style-type: none"> • Whip Checks and/or Pins must be in place at each air hose connection • Retainer Ring must be used to properly secure the socket to the impact • Do not wear loose or dangling garments or jewelry 	

Pipe Stand (3 or 4 Leg)

H+M
INDUSTRIAL EPC

Risk: Medium (D2)																						
	Hazards <ul style="list-style-type: none"> • Damaged stand • Stability issues • Roll offs • Pinch points • Crushing • Impact 	Required PPE <div style="text-align: center;">  Standard PPE </div>																				
Required Safeguards <ul style="list-style-type: none"> • Legs must be set up on level and stable ground round (i.e. concrete, plywood) • Locking ring must be installed • Set screw shall be installed and in good shape • Inspect rollers to ensure in good shape and rolling freely • Verify safe working weight limits • Ensure load is distributed evenly and accounts for weight during all stages of work • Material must extend 6" of each side • Do not place a jack stand in the bend or throat of a pipe. • Choose the correct jack stand for the pipe size (see below chart) 																						
Pipe Transition	<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th></th> <th>1" x 1" x 1/2"</th> <th>1" x 1" x 1"</th> <th>1" x 1" x 3/4"</th> <th>1" x 1" x 1/2"</th> </tr> </thead> <tbody> <tr> <td>1" x 1" x 1/2"</td> <td>Yes</td> <td>Yes</td> <td>Yes</td> <td>Yes</td> </tr> <tr> <td>1" x 1" x 1"</td> <td>No</td> <td>Yes</td> <td>Yes</td> <td>Yes</td> </tr> <tr> <td>1" x 1" x 3/4"</td> <td>No</td> <td>No</td> <td>No</td> <td>Yes</td> </tr> </tbody> </table> <p style="font-size: small; margin-top: 5px;">Note: Pipe is 1/2" or greater in diameter. A 4-legged jack stand with rollers must be used unless the pipe length in configuration prohibits using the tool (i.e., creating a "V" or "U" shape).</p>			1" x 1" x 1/2"	1" x 1" x 1"	1" x 1" x 3/4"	1" x 1" x 1/2"	1" x 1" x 1/2"	Yes	Yes	Yes	Yes	1" x 1" x 1"	No	Yes	Yes	Yes	1" x 1" x 3/4"	No	No	No	Yes
	1" x 1" x 1/2"	1" x 1" x 1"	1" x 1" x 3/4"	1" x 1" x 1/2"																		
1" x 1" x 1/2"	Yes	Yes	Yes	Yes																		
1" x 1" x 1"	No	Yes	Yes	Yes																		
1" x 1" x 3/4"	No	No	No	Yes																		

Large Sized Books at the Jobsite



Questions?

**GENERAL CONTRACTOR MEDIUM
BEST IN CLASS**



wood.





Wood Safety Shield

Wood Operations Americas, US South
Best In Class-General Contractor, Medium

Presented by
Abe Wilkerson, HSES Manager, Wood OA US South

woodplc.com



Welcome to the Wood Safety Shield



wood.
Safety Shield
Prepare. Engage. Intervene.



What is The Wood Safety Shield?



wood.

Safety Shield

Prepare. Engage. Intervene.

- Metaphor for protection
- Wood's Identity for Safety
- 3-sided shield, 3 key elements:
 - **Prepare**
 - **Engage**
 - **Intervene**
- Simplified Safety Message

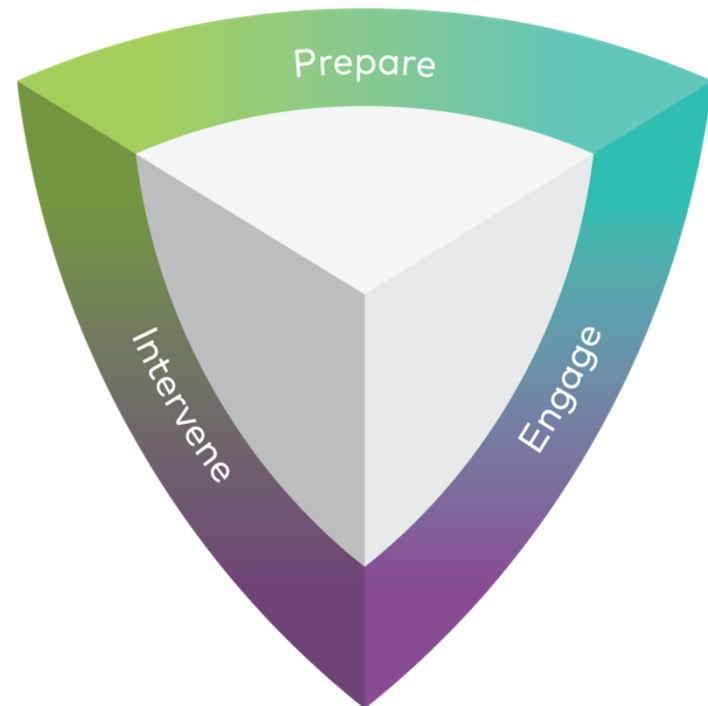


The Safety Shield aligns with Wood Values

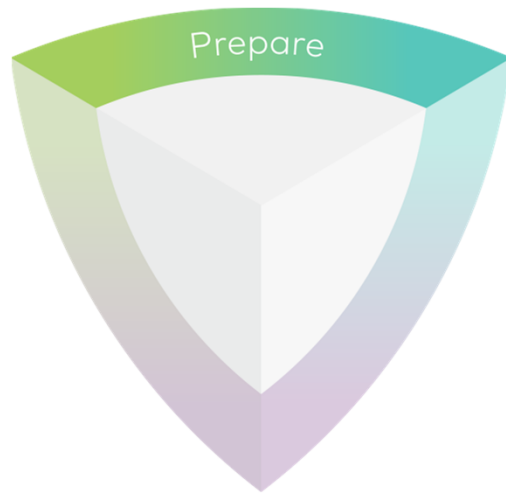
Built on Wood Values and Behaviours:

- **Commitment to Prepare**
- **Care to Engage**
- **Courage to Intervene**

EVERYONE is responsible for raising the Shield for Themselves and Everyone Around Them



What does Prepare mean?



Committing to job readiness **before** we go to work

- Trained and competent
- Assessed the risks
- Planned a safe method of work
- Appropriate procedures and established controls
- Appropriate tools
- Appropriate PPE
- Right level of supervision

It takes commitment to prepare.



What does Engage mean?

Taking care to follow safety requirements **at** the job site



- Understand safety tools
- Know the hazards and the risks
- Understand the controls
- Follow the rules
- Follow the plan
- Stop the job if things change
- Look out for one another
- Be accountable and make safe choices

It takes care to engage.



What does Intervene mean?



Monitoring job safety progress **during** the work and having courage to address issues **immediately**

- Observe and coach
- Measure and monitor performance
- Stop Work Authority
- Report all incidents and near misses
- Recognise great performance

It takes courage to intervene.



Wood Life Saving Rules (9 LSRs)

The Wood Life Saving Rules are an important part of the Wood Safety Shield, and it is up to everyone in Wood to know them, understand them and above all follow them.

There are Nine Life Saving Rules:

- **Bypassing Safety Controls**
- **Confined Space**
- **Driving**
- **Energy Isolation**
- **Hot Work**
- **Line of Fire**
- **Safe Mechanical Lifting**
- **Work Authorization**
- **Working at Height**



Life Saving Rule Structure

The Life Saving Rules are an integral part of our Safety Shield and are supported by a set of Safety Standards and behaviour-based Safety Essentials.

The Essentials apply to all Nine Life Saving Rules but also to our everyday activity. Prior to commencing and during any task, these six Safety Essentials must be adhered to at all times.

Every Life Saving Rule has six common Safety Essential requirements:



Wood Safety Shield Pocket Card

Prepare

Committing to job readiness before we go to work

- Trained and competent
- Assessed the risks
- Planned a safe method of work
- Appropriate procedures and established controls
- Appropriate tools
- Appropriate PPE
- Right level of supervision

It takes commitment to prepare.

Engage

Taking care to follow safety requirements at the job site

- Understand safety tools
- Know the hazards and the risks
- Understand the controls
- Follow the rules
- Stop the job if things change
- Look out for one another
- Be accountable and make safe choices

It takes care to engage.

Intervene

Monitoring job safety progress during the work and having courage to address issues immediately

- Observe and coach
- Measure and monitor performance
- Stop Work Authority
- Report all incidents and near misses
- Recognise great performance

It takes courage to intervene.

Is it safe for you and your colleagues?

Yes → Safe job → OK

No → Unsafe job → STOP

Stop work authority

You have my authority to intervene and to stop any job if you think it is unsafe.

Robin Watson
Chief Executive, Wood

I will intervene and stop any job that I think is unsafe.

Signed: _____

Wood Safety Essentials

The Safety Essentials describe a set of behaviours which we need everyone to support and comply with.

- Observe, think and always put safety first. Nothing we do is so important that we cannot take the time to do it safely.
- Safety procedures are designed to stop you getting hurt. Ignoring them is unacceptable. If a procedure is unclear or unworkable, then you must inform your supervisor.
- Before starting work, a risk assessment identifying potential hazards and selecting control measures must be in place and checked regularly.
- If you believe your safety, or the safety of others, is being compromised, intervene the right to intervene and stop the work.
- If there is a change or deviation to the planned activity you must stop the job and re-evaluate the risk assessment and the procedures taken.
- You must ensure that when you undertake any work you wear the full personal protective equipment (PPE) correctly as identified in the risk assessment for that specific task.

wood.
Safety Shield

Prepare. Engage. Intervene.

The Wood Safety Shield is designed to represent a metaphor for protection and will support health, safety, security and the environment.

- Commitment to **prepare**
- Care to **engage**
- Courage to **intervene**

Everyone is responsible for raising the shield.

For more information visit: www.woodplc.com/who-we-are/safety-shield

Scan me

Hazard and risk prompts

Refer to and comply with the Life Saving Rules

- LIFTING OPERATIONS:**
 - Are banners and signs in place to stop people walking under the load?
 - Has the lifting equipment been examined?
 - Is there a hazard of collapse or impact?
- WORKING AT HEIGHT:**
 - Are there any potential dropped objects?
 - Is full protection assumed?
 - Is there a rescue plan in place?
 - Has the danger zone been identified and barriers/signs erected?
- MACHINERY:**
 - Has the area around moving parts that can cause injury?
 - Are there any sharp or rotating objects?
 - Is movement of machinery planned and safe?
- HAND INJURIES:**
 - Could hands/fingers be pinched/cut/hit?
 - Have you got the right tools and gloves for the job?
- PRESSURISED EQUIPMENT:**
 - Has the system been depressurised?
 - Is there any stored mechanical energy?
 - Are controls suitable for breaking containment?
 - Are all systems in place and worked?

Make sure you have the correct controls in place!

Refer to and comply with the Life Saving Rules

- EXCAVATIONS:**
 - Has the area been checked for underground services?
 - Has the excavation been inspected by a competent person?
- ELECTRICITY:**
 - Can you come into contact with live electrical equipment?
 - Are electrical isolations in place and well-tagged?
 - Could there be any stored (inducted) and electrical energy?
- EYE INJURIES:**
 - Could you get something in your eyes?
 - Have you got the right eye protection for the job?
 - Is visibility suitable?
- IGNITION SOURCES:**
 - Are there any sources of ignition?
 - Have you got the right eye protection for the job?
 - Are there any flammable materials present?
 - Could there be any reactions?
- HEALTH HAZARDS:**
 - Is there the potential for hazardous materials or substances to be present? (chemicals, biological, radiation, dust, fume, vapour etc)
 - Do they pose a risk to health? (skin contact, inhaled or swallowed)
 - Is there the potential for noise or thermal risk?

Life Saving Rules

Refer to and comply with the Life Saving Rules

- WATER: (WORKING OVER OR CLOSE TO):**
 - Does the job require a life jacket?
 - Is there a rescue plan in place?
 - Is the weather suitable?
- MANUAL HANDLING:**
 - Is the load too heavy or awkward to move?
 - Does the task avoid awkward obstacles?
 - Could mechanical aids be used?
- SLIPS, TRIPS & FALLS:**
 - Is the work area free of trips and debris?
 - Are you wearing the correct footwear?
- ENVIRONMENT:**
 - Is the environment becoming a spill or release?
 - Are you wearing the correct footwear?
- HUMAN FACTORS:**
 - Are you tired or overworked in the task/activity?
 - Is everyone fit and able to conduct the task?
 - Are there any shortcomings for conflicting operations going on together?
 - Are all relevant Life Saving Rules and procedures well understood by everyone?
 - Have all relevant fully competent staff (e.g. driving, confined spaces etc) been trained?

Bypassing Safety Controls

Obtain authorisation before overriding or disabling safety controls.

Line of Fire

Keep yourself and others out of the line of fire.

Confined Space

Obtain authorisation before entering a confined space.

Safe Mechanical Lifting

Plan lifting operations and control the area.

Driving

Follow all driving rules.

Work Authorisation

Work with appropriate permits required.

Energy Isolation

Verify isolation and zero energy before work begins.

Working at Height

Prevent yourself or others from falling from heights.

Hot Work

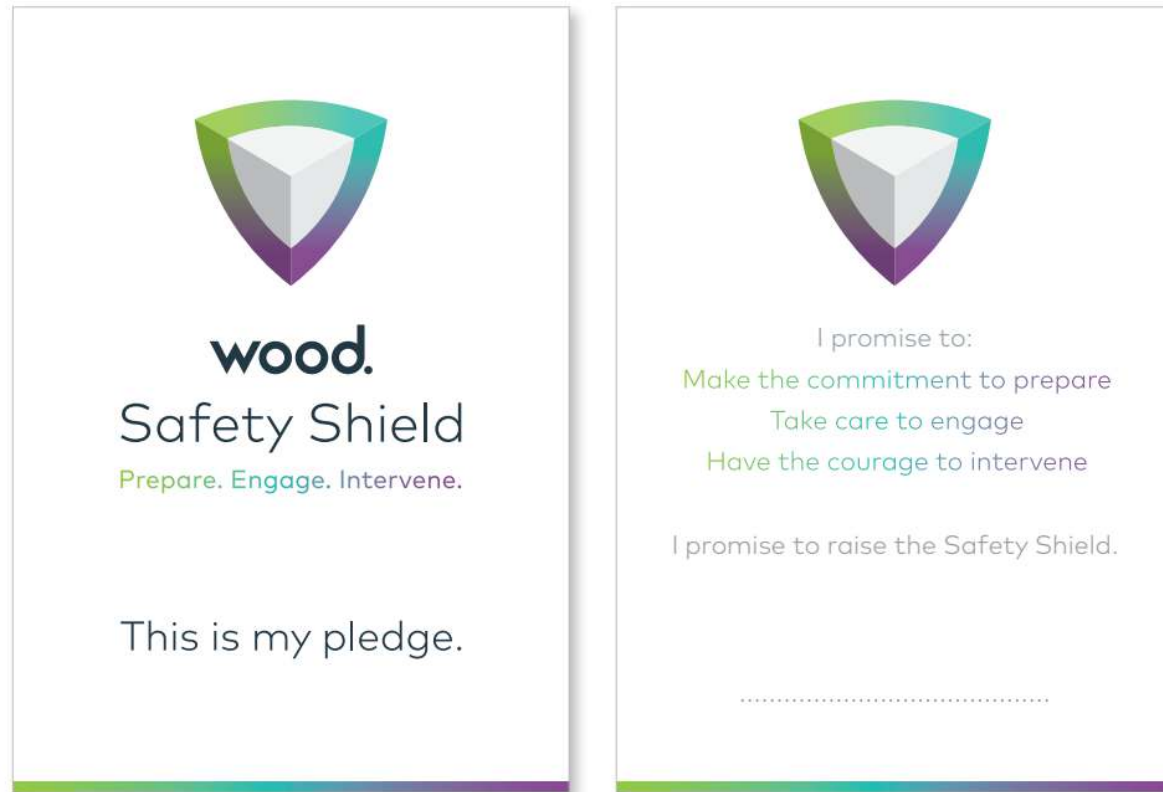
Control flammables and ignition sources.

In addition to these client rules may also apply. If in doubt ask your local Wood manager.

In addition to these client rules may also apply. If in doubt ask your local Wood manager.



Wood Safety Shield Pledge Card



Wood Stop & Think Supports and Strengthens The Shield

Stop and Think card

Use the pocket card as prompt to perform the Stop and Think process.

Stop

What could go wrong?
How bad it could be?
Has anything changed?

Think

Am i physically and mentally ready?
Do i clearly understand my task?
Do i have the right tools and equipment?

Act

Make it safe
Use the right tools
Reduce risks
Use the right procedures





Stop and think.



- 1 - Has the weather changed?
- 2 - Are you still fit to continue the task? (Tired, distracted, stressed)
- 3 - Have new team members been introduced to the work area?
- 4 - Are any other crews working overhead, nearby, that may impact your work area?
- 5 - Are new tools introduced to your work activities?
Do you have the right tool for the job?
- 6 - Have work activities changed? Have you updated your FLRA?



Wood Stop & Think Supports and Strengthens The Shield





wood.

Safety Shield

Prepare. Engage. Intervene.

**GENERAL CONTRACTOR LARGE
BEST IN CLASS**





EST. **S & B** 1967



Houston Business Roundtable

HSEA 2022

FINALIST AUDIT

Section 27-- Best Practices and Year to Year Improvement



27 Best Practices and Year to Year Improvement

1. Total real time safety Information integration into Intelex
 - Incidents
 - Investigations
 - Audits
 - Inspections
 - Corrective Actions
 - Severity Ranking
 - Dashboards
 - Generated Reports
2. Best Practice Execution Plans
3. HBR and VPP data and information management,
 - Daily VPP and HBR data scanning and storage
 - System based audits and best practice audits quarterly
 - Dedicated compliance specialist on large construction sites.

27 Best Practices and Year to Year Improvement

27.1.- Are Best Practice(s) fully implemented at site (X)

S&B Implemented a Best Practices Execution Plan and Best Practices Audit Program to aid in ensuring Best Practices and fully implemented at S&B sites. Along with the Best Practices Execution Plan, which is developed by the Site Manager and approved by Corporate Management, the Site Manager creates and publishes his/her expectations for site personnel.

Best Practices Execution Plan: Each project/worksites will develop and implement a written Best Practices Execution Plan, incorporating all S&B Safety Best Practices.



27 Best Practices and Year to Year Improvement

27.1.- Are Best Practice(s) fully implemented at site (X)

1. **Best Practices Execution Plan:** Each project/ worksite will develop and implement a written Best Practices Execution Plan, incorporating all S&B Safety Best Practices.
2. **Humanizing the Project:** The Construction Manager/ Site Lead will ensure that measures are in place to humanize the project or worksite.
3. **Setting Expectations:** The Construction Manager / Site Lead will meet all new hires to communicate S&B cultural expectations.
4. **Leading Core Safety Programs:** The Construction Manager/ Site Lead will own and lead the S&B Core Safety Programs.
5. **Communication Between Management and Crafts:** A detailed flow of communication between Craft and Management will be maintained.
6. **Area Captain Program:** The Area Captain Program will be implemented on all worksites.
7. **Short Service Employee Program:** The Short Service Employee Program will be implemented on all worksites to fully integrate new hires into S&B's safety culture and core safety programs.
8. **Craft Safety Committees:** A Craft Safety Committee or VPP Committee will be established on all worksites.
9. **Safe Material Handling:** Safe material handling expectations will be communicated, implemented and enforced on all worksites.
- ~ **Incident Analysis and Lessons Learned:** All incidents and near misses will be investigated promptly and lessons learned will be communicated to craft employees and shared across the company to prevent recurrence.



27 Best Practices and Year to Year Improvement

27.1.- Are Best Practice(s) fully implemented at site (X)

Best Practice - Humanizing the

Project: The Construction Manager / Site Lead will ensure that measures are in place to humanize the project or worksite.

To review the Best Practice • Humanizing the Project, click this link:

[Supporting Files\HSE-AD-GD LN• 1002 +-+Humanizing+the+ Project \(7\).pdf](#)



27 Best Practices and Year to Year Improvement

27.1.- And Best Practice(s) fully implemented at site (X)

Best Practice - Setting Expectations: To review the Best Practice - Setting Expectations, click this link:

[Supporting Files\HSE-AD-GDLN-1003+](#)

[+Setting+Expectations \(7\).pdf](#)



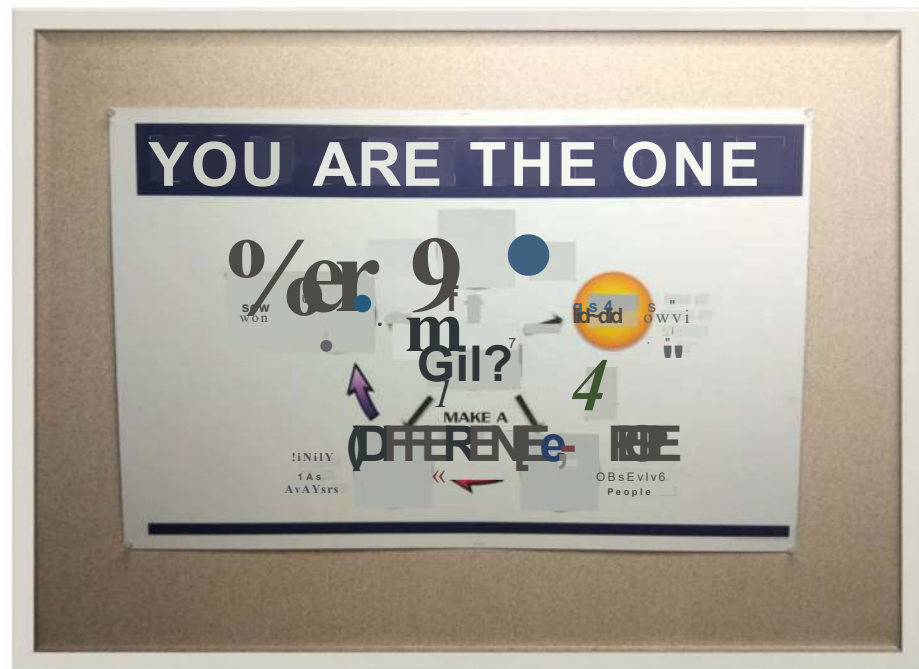
27 Best Practices and Year to Year Improvement

27.1.- Are Best Practice(s) fully implemented at site (X)

Best Practice - Leading Core Safety Programs: To review the Best Practice - Leading Core Safety Programs, click this link:

[Supporting Files\HSE-AD•GDLN-1004+•](#)

[+Leading+Core+Safety+Programs \(4\).pdf](#)



27 Best Practices and Year to Year Improvement

27.1.- Are Best Practice(s) fully implemented at site (X)

Best Practice - Communication Between Management and Crafts: To review the Best Practice - Communication Between Management and Crafts, click this link:

[Supporting Files\HSE-AD•GDLN-1005+•](#)

[+Communication+Between+Management+and+Crafts \(5\).pdf](#)



27 Best Practices and Year to Year Improvement

27.1.- Are Best Practice(s) fully implemented at site (X)

Best Practice - Area Captain

Program: To review the Best Practice - Area Captain Program, click this link:

[Supporting Files\HSE-AD-GD LN-1006+-+Area +Captain+ Program \(1\).pdf](#)



27 Best Practices and Year to Year Improvement

27.1.- Are Best Practice(s) fully implemented at site (X)

Best Practice - Short Service Employee Program : To review the Best Practice - Short Service Employee Program, click this link:

[Supporting Files\HSE-AD-G D LN-100 7+-+Short+Service+ Employee+ Program \(3\).pdf](#)



27 Best Practices and Year to Year Improvement

27.1.- Are Best Practice(s) fully implemented at site (X)

Best Practice - Craft Safety

Committees : To review the Best Practice - Craft Safety

Committees, click this link:

[Supporting Files\HSE-AD-GD LN-1008+-+Craft+ Safety+Comm ittees \(1\).pdf](#)



27 Best Practices and Year to Year Improvement

27.1.- Are Best Practice(s) fully implemented at site (X)

Best Practice - Safe

Material Handling: To

review the Best Practice
Safe Material Handling,
click this link:

[Supporting Files\HSE-AD-
G D LN-1009+
+Safe+Material+Hand li ng
\(1\).pdf](#)



MATERIAL HANDLING lifting guidelines

PLAN THE LIFT

- Is there a better way?
- How will you hold/grip the item?
- Is your travel path clear?
- Where/how will objects be set down?
- How will twisting and awkward body positions be avoided?

How much

- 1 person lift - 40 pound maximum
- 2 person ft - 80 pound maximum

- ✓ Proper lifting technique
- ✓ Stand close to the object
- ✓ Squat down
- ✓ Grasp object
- ✓ Breathe in
- ✓ Lift with legs
- ✓ Hold object firmly (close to body)



weight?



27 Best Practices and Year to Year Improvement

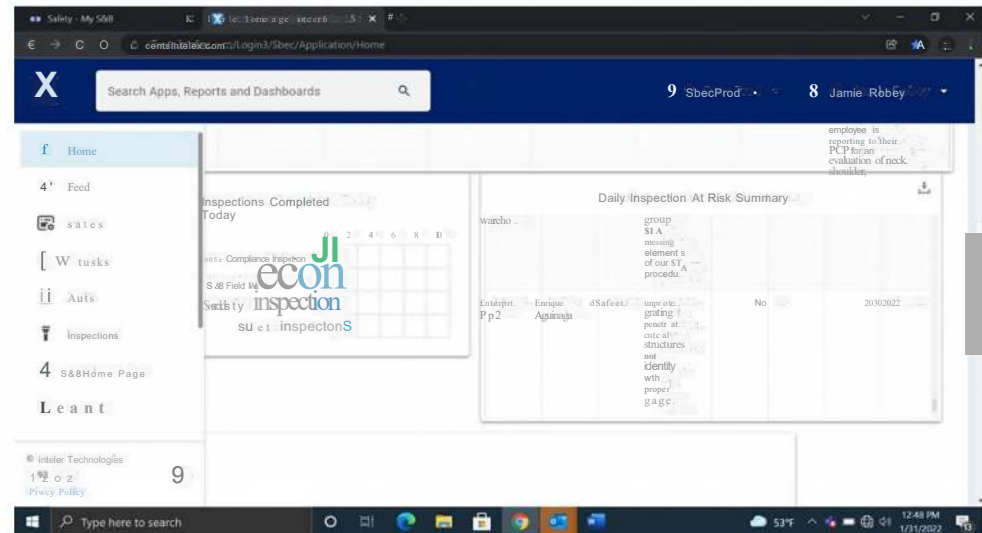
27.3.- Year to Year improvement in site statistics (X)

Year to Year Improvement Summary

S&B Engineers and Constructors has progressed beyond the use of "Lagging" indicators as a sole measurement for improvement. Below are a few examples of "Leading" indicator functions that are improvements within the organization:

S&B adopted and integrated the Intellex Health and Safety Management platform for improving HSE management. This platform greatly improves reporting, tracking and analysis for incidents, inspections, audits, behavior-based programs (POP) and communications.

INTELEX



27.3.- Year to Year improvement in site statistics (X)

Year to Year Improvement Summary, continued

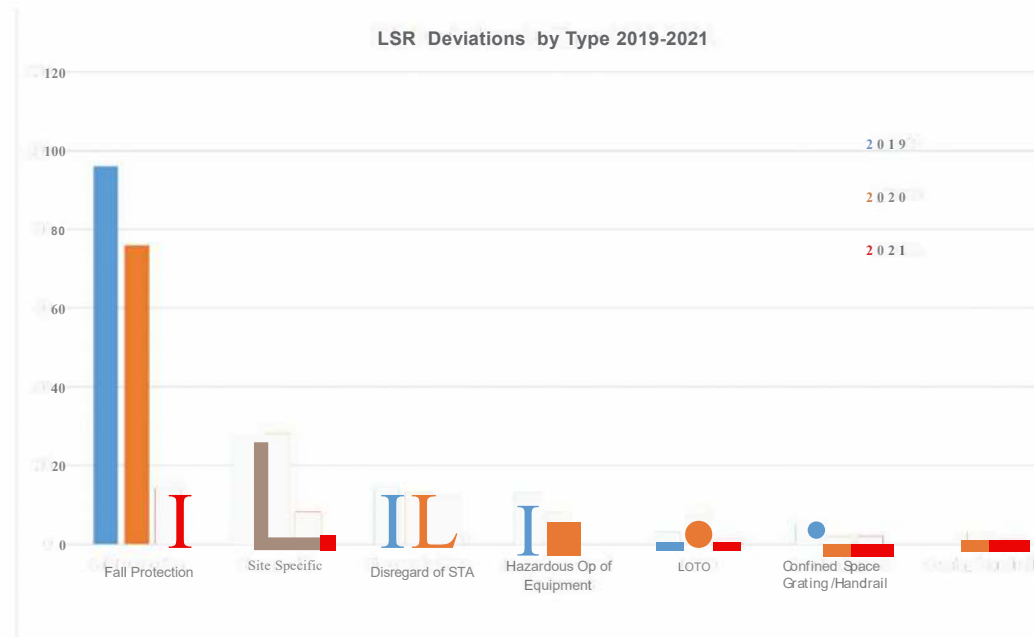
S&B management supported enhancement of the People Observing People (BBS) Program. The enhancements include integration into the Intelex system which greatly improves tracking and trending POP observations.



27 Best Practices and Year to Year Improvement

27.3.- Year to Year improvement in site statistics (X)

The PDHII site is showing a declining Life Saving Rule violation rate since the start of the project.



Best Practices and Year to Year Improvement



NEXT MEETING



**INDUSTRIAL CLEANING COMMITTEE
MEETING**

FRIDAY, JUNE 24TH, 2022 | 8:30 AM

Location:

HASC AUDITORIUM

5213 CENTER STREET PASADENA, TX, 77505