Preventing Struck-by Incidents: Tips and Strategies

Moderators:

- **Bradley Sant**, Senior Vice President, Safety and Education, *American Road & Transportation Builders Association* (ARTBA)
- Alanna Klein, Product Director Construction & Energy, Risk Control Services, Liberty Mutual Insurance

Panelists:

- Jay W Hocutt CSP, SGE, CWD, Construction Heavy Equipment Program Manager, United Cleanup of Oak Ridge (UCOR)
- Reese Fortin, District HSE Manager, Sundt Construction
- Richard Wittlinger, Safety Director, JD Eckman
- Steve Spaulding, VP & National Director of Environment, Health and Safety, Turner Construction Company

Today's webinar is being recorded and will be posted along with slides at cpwr.com/webinars. For technical difficulties, send a WebEx chat to Jessica Bunting or email jbunting@cpwr.com.

SPHERE SAFETY STRUCK-BY WEIGHT

If you cannot hear through your computer speakers, call in using your phone instead at 415-655-0003, Access Code 2553 592 1435 #

4th Annual National Stand-Down to Prevent Struck-by Incidents

Stand-Down Webpage:

https://cpwr.com/struck-by-hazards

- Toolbox Talks on work zone safety, dropped objects, crane and lift safety, heavy equipment, etc.
- Infographics/Jobsite Signage
- Webinars & Videos
- Research & Data
- PPT slides
- NEW Pilot Planning Program to Prevent Struck-by Incidents





Plan the Work...Work the Plan

- Develop a plan
- Identify the hazards
- Implement the controls
- Perform the work
- Monitor plan success

- Work Control
- Job Hazard Analysis
- Hierarchy of Controls
 - Follow the plan as written
 - STOP and reevaluate plan



Provide a safe work area

- Establish work zones (e.g., swing radius, Line of fire, struck by)
- Erect barricades (prevents unauthorized personnel entry)
- Provide instructional and danger/warning signs (e.g., PPE, consequences)
- Traffic Control Plans (controls congestion, prevents struck by)





Employee Engagement

- Encourage STOP / Pause work behavior
 - See something, Say Something, Do Something
- Utilize local safety improvement teams
 - Gives the worker a voice in safety
- Safety Observation Program
 - Creates peer checking and a looking out for your co-worker atmosphere





Utilize Spotters

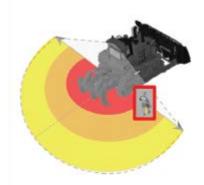
- Develop a program (program ownership)
- Provide training (classroom, exam, and hands on demonstration)
- Spotter safety checklist (safety conversation)
 - Work area hazards walk down
 - Hand signals verification
 - Training verification
 - Performed with the spotter and driver/operator



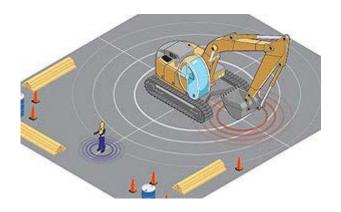
Technology

- Back up Cameras
- Proximity Sensors
- Work Zone Sensors
- Telematics



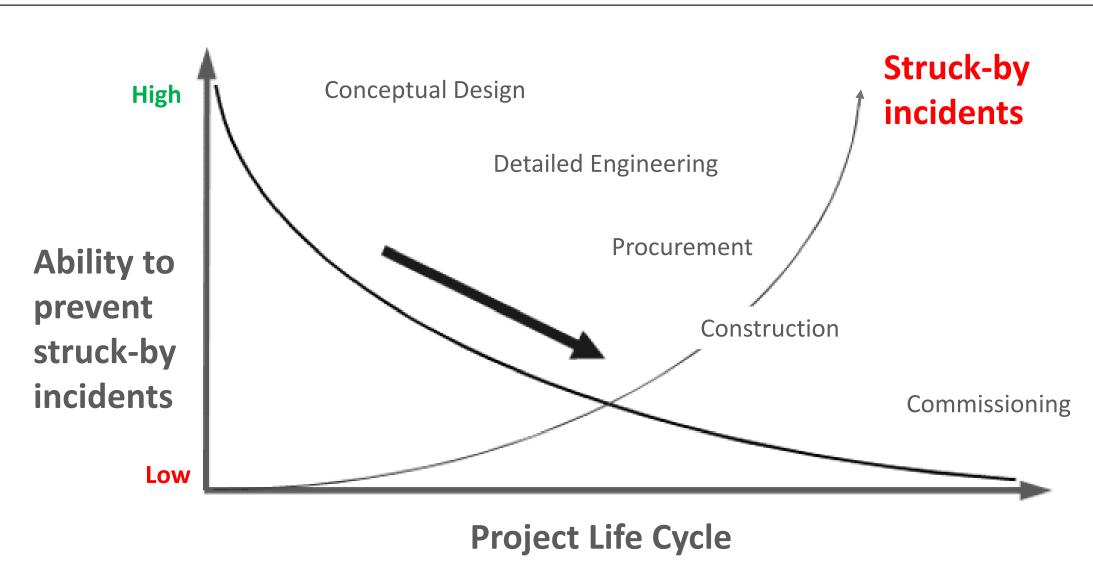












The earlier, the better...





STARTED ASAP, MAINTAINED THRU COMPLETION

Project HSE Plan

- Site Logistics Plan
- Barricade procedures
- Cell phone usage
- High-Vis Outerwear
- Cranes & Lifting
- Demolition
- Dropped/Falling Objects

- Hand & Power Tools
- Material Handling & Rigging
- Post-Tensioned Cables
- Traffic Control
- Ground Disturbance
- Vehicles & Equipment
- Design Assessment





DESIGN OUT THE RISK OF STRUCK-BY

- Ring road around structure/site
- Pre-installed embeds/sleeves
- Prefabrication

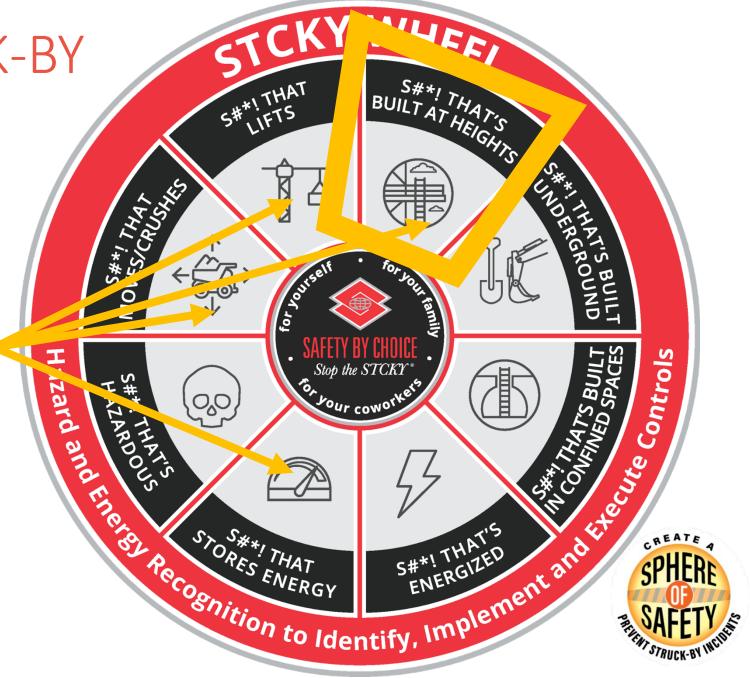






EXECUTING STRUCK-BY CONTROLS

- THAs
- STCKY Walks
 - Over 4k assessments of struck-by controls so far this year



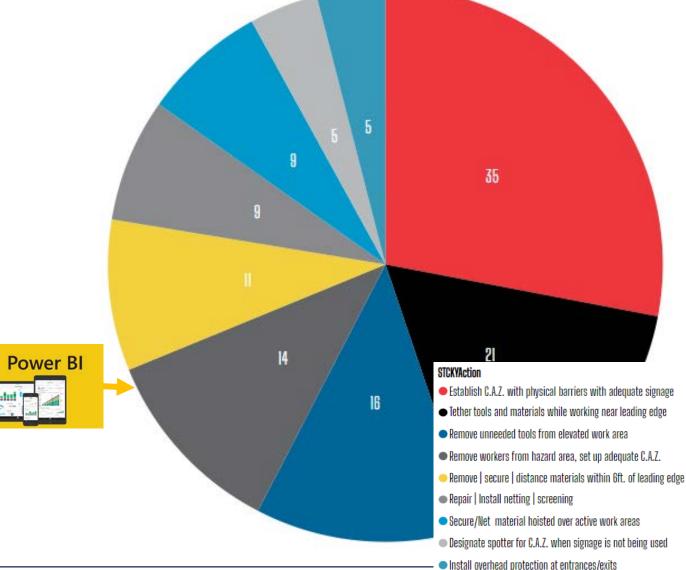


STCKY WALKS PREVENT STRUCK-BYS



- No
- Not Applicable
- * Dropped object protection Corrective Actions
- Tether tools and materials while working near leading edge
- Remove unneeded tools from elevated work area
- Establish C.A.Z. with physical barriers with adequate signage
- Remove workers from hazard area, set up adequate C.A.Z.
- Designate spotter for C.A.Z. when signage is not being used
- Secure/Net material hoisted over active work areas
- Repair | Install netting | screening
- Install overhead protection at entrances/exits
- Remove | secure | distance materials within 6ft. of leading edge









Preventing Struckby Incidents

Tips and Strategies

Richard Wittlinger, Safety Director

Heavy Highway Road and Bridge Construction



Core Market / Owners

PennDOT

Pennsylvania Turnpike

DRBA

DRJTBC

Expanding Our Market / Owners

US Army Corps of Engineers

Maryland Transportation Authority

Subcontractor

Name of Tasks:
Top three hazards
1.
2.
3.
Controls for hazards
1.
2.
3.
Verify work is performed using or within controls
Name of person who did verification:
Date and time of verification:
Performance Evaluation (How did we do?)
Above average/Satisfactory/ Deficiency Found
Notes:



Jobsite Name and Number	
Superintendent/Foreman Name	
Date of Huddle	
Weather conditions	

HUDDLES

Safety Observation Checklist

Safe	Unsafe	Work Area	Safe	Unsafe	PPE	Safe	Unsafe
		House keeping			Hard Hat		
		Lighting			Safety Vest		
		Traffic (vehicle/Equipment)			Safety Glasses		
		Barrier/Channelizers			Hearing Protection		
		Air quality			Respiratory Protection		
		Underground hazards			Shoes/Boots		
		Overhead hazards			Clothing		
Safe	Unsafe	Tools	Safe	Unsafe	Ergonomics	Safe	Unsafe
		Condition			Lifting/Bend/Twist		
		Suitable for task			Reach/Extend/Pull/Push		
		Used within capacity			Repetitive motion		
					Needs assistance		
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		Safe Unsafe	House keeping Lighting Traffic (vehicle/Equipment) Barrier/Channelizers Air quality Underground hazards Overhead hazards Safe Unsafe Tools Condition Suitable for task Used within capacity Date:	House keeping Lighting Traffic (vehicle/Equipment) Barrier/Channelizers Air quality Underground hazards Overhead hazards Safe Condition Suitable for task Used within capacity Date:	House keeping Lighting Traffic (vehicle/Equipment) Barrier/Channelizers Air quality Underground hazards Overhead hazards Safe Unsafe Condition Suitable for task Used within capacity Date: Name	House keeping	House keeping

- The name of the person being observed should not be included except for positive recognition.
- Upon completion of the observation, discuss any "at risk" behaviors and offer safer alternatives.
- · In addition to looking for "at risk" behaviors, look for safe behaviors.
- Always end the critique with the person being observed with positive remarks for any safe practices or behaviors observed.

OBSERVATIONS



4781 Lower Valley Road - Atglen, PA 1931O 610.593.5143 www.jdeckman.com

Bulletin Number	22-03	Date of Loss	2/17/2022	Project Type	Bridge
Line of Insurance	WC	Type of loss	Broken arm	JDE Area of Focus?	No
Preventability	Preventable	Medical Attention?	Yes	Lost Time?	Yes
Employee Tenure	11 yrs	Employee Craft	Carpenter	Severity	Severe
Productivity Loss?	Yes	OSHA Focus 4?	Yes - Struck by	Date of Bulletin	3/23/2022

Event Description:

Employee was loosening form panels from a lift in an elevated position and lowering them to the ground. Back of form had plywood that stuck to the poured concrete and form had to be pried off the structure. When the panel was pried it suddenly dropped, employee tried to catch the panel and his arm got pinched between the lift basket rail and the form breaking the bones in his lower arm. The panel also fell the entire 50-60' distance to the ground.

Contributing Factors:

- Elevated location
- · Motion / movement of the lift
- · Form panel did not have a safety tie off point.

- . Secure panel with a secondary safety tie point to lower panel to basket to eliminate the potential for the panel to
- . Close off area below the lift to ensure there will not be any personnel below that can be struck by falling



Work Safe - You have a lot to live for!

















Safety Bulletins Internal and External







Solution based technology for every build

Camera Systems



Questions





