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- Equip
- Lock-o
- Superv
- Ask qu



Dangers of Complacency

Caught Between - Crushing Fatalities

Agenda

- *Introductions*
- *The story of Joe*
- *Defining Hazardous Energy*
- *Recent Near Miss details*
- *Governing Instructions*
- *How we do better*

Introduction

- LCDR Matthew Mattivi - DRDICC
- 929 8384
- email: matthew.mattivi@fe.navy.mil
- Focus on #4 of the "Big Four Focus"
- 20% of occupational fatalities
- Construction Industry (90/week)

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Joe

- Father of six
- Elected official for Ouray County, Colorado
- Twenty nine years experience as a mechanic
- Nine years in mining with four years as an independent MSHA inspector San Miguel mines
- July 21st, 1999
- Grizzly Bear Mine – Ouray, Colorado

What Happened?



What Happened?



MSHA Fatality Report



- FAB99M 25





MSHA Fatality Report



- FAB99M25

What is Hazardous Energy?

Hazardous energy is any energy, **including but not limited** to mechanical (e.g., power transmission apparatus, counterbalances, springs, pressure, and gravity), pneumatic, hydraulic, electrical, chemical, nuclear, and thermal (e.g., high or low temperature) energies, that could cause injury to employees.



Recent Near Misses

- Are near misses a problem?

Flat Rack Near Miss

**Near Miss Report
Flat Rack Trailer Sinkage**

Potential Outcome: Personnel Injury / Property Damage

Activity

A flat rack trailer was staged overnight at work in preparation for a loading of pipes, due to the ground conditions and recent weather conditions, the trailer sank into the ground causing damage to the ground caused by the weight of the load overnight.

Possible Causes

- Failure to check the ground conditions for stability prior to releasing load from trailer.

Behaviors to be corrected

- Prior to staging of trailers, loads shall be evaluated for stable ground conditions prior to releasing load from trailer.
- Use of a crane under load to pull off trailer or unloading trailer to a more suitable location prior to releasing load from trailer.

What was done? What will be done? What is remaining work to be done?

Pipe roll-off

**Near Miss Report
Pipe Pushed Off Pipe Stands**

Potential Outcome: Personnel Injury / Property Damage

Activity

Employees were unloading materials that had long sections of welded together to be when a section of the pipe came off the stand. As a result a pipe with attached to the pipe to be to be the flat end of the pipe was pushed off the stand 50 feet from the stand. The pipe was pushed off the stand and off the site.

Possible Causes

- Failure to verify and remove welder from area prior to unloading to be performed.
- Failure to verify all behavior of pipe.

Behaviors to be corrected

- Ensure everyone is clear of the area prior to unloading or positioning to be performed.
- Pre-pipe work (Pre-work) shall be handled in a controlled manner.

What was done? What will be done? What is remaining work to be done?

Flat Rack Near Miss

Near Miss Report Flat Rack Trailer Sinkage



Potential Outcome: Personnel injury / property damage



Activity

A flat rack trailer was staged along right of way in preparations for offloading of pipes, due to the ground conditions and recent weather conditions, the trailers landing gear began to slowly sink into the ground caused by the weight of the load overnight.

Possible Causes

- Failure to evaluate ground conditions for stability prior to releasing load from trailer.



Behaviors to be Learned

- Prior to staging of trailers loads shall be evaluated for stable ground conditions prior to releasing load from tractor.
- Use of dunnage under landing gear of trailer or repositioning trailer to a more suitable location prior to releasing load from trailer.

What can go wrong?

What can I do about it?

If I can't do anything about it, whom do I tell?





Pipe roll-off

Near Miss Report Pipe Pushed Off Pipe Stands



Potential Outcome: Personnel injury / property damage



Activity

Employees were attempting to reposition 10"x43' long sections of welded together pipe when a portion of the pipe came off the stands. An operator and fitter were attempting to flex the pipe to follow the road contour when a portion of the pipe fell to the ground creating a train like effect until resting between 60-80' from the welder who was welding on the opposite end of the pipe.

Possible Causes

- Failure to notify and remove welder from area prior to repositioning pipe sections
- Failure to verify all personnel are clear of pipe



Behaviors to be Learned

- Ensure everyone is clear of the pipe prior to moving or repositioning
- Pre-plan each lift so that pipe is handled in a controlled manner

What can go wrong?

What can I do about it?

If I can't do anything about it, whom do I tell?





Instructions

- EM 385 1-1
- OSHA 29 CFR 1926
- Equipment Operators Manual
- Lock-out/Tag-out Instruction
- Supervisor Notification
- Ask questions!

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- *Recent Near Miss de*
- *Governing Instructio*
- *How we do better*





Hazardous Energy

