



**Fatality #21 - October 29, 2008**  
**Fall of Material - Utah - Copper Ore NEC**  
**Kennecott Utah Copper Corp - Copperton Concentrator**

**METAL/NONMETAL MINE FATALITY** - On October 29, 2008, an 81 year-old truck driver with 55 years of experience was fatally injured at a surface copper operation. The victim was unfastening a load of pipe when one 50-foot section rolled off the flatbed trailer and struck him.



**Best Practices**

- Analyze all tasks and identify possible hazards prior to beginning work.
- Establish safe work procedures and discuss with persons performing the task.
- Identify and control all hazards to finish the job safely.
- Train all persons to recognize and understand safe procedures to perform tasks before beginning work.
- Evaluate the stability of the material before unfastening a large load. Pay particular attention to loads that may have shifted or become unstable during transport.
- Install secondary supports (side stakes) of adequate height and strength to prevent material from falling when the load is unfastened; or prior to unfastening the material, secure the item being unloaded to the machine used in the unloading process.
- Stand clear of items being loaded or unloaded.

This is the 21<sup>st</sup> fatality reported in calendar year 2008 in the metal and nonmetal mining industries. As of this date in 2007, there were 32 fatalities reported in these industries. This is the 3<sup>rd</sup> falling Material fatality in 2008. There were 2 Falling Material fatalities in the same period in 2007.

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The information provided in this notice is based on preliminary data ONLY and does not represent final determinations regarding the nature of the incident or conclusions regarding the cause of the fatality.

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### Fatality #1 - January 9, 2010

Falling/Sliding Material - Arizona - Copper Ore NEC

Freeport McMoRan Miami Inc - Freeport McMoRan Miami Inc

**METAL/NONMETAL MINE FATALITY** - On January 9, 2010, a 20 year-old contractor laborer with 21 weeks of experience was fatally injured at a copper operation. Two track excavators were being used to place a 400-foot long section of 24-inch diameter plastic pipe into a pond. To facilitate the installation process, the pipe was placed on top of an adjacent section of pipe that was previously placed on the plastic lining of the pond. During installation, the pipe being installed misaligned and the victim and two coworkers attempted to remove the end of this pipe from the top of the existing pipe. At that time, the end of the pipe shifted, hit a coworker, and then struck the victim. The victim fell to the ground and the pipe landed on him. The coworker was not injured.



### Best Practices

- Task train all persons prior to performing any work.
- Always stay clear of suspended loads.
- Use taglines of sufficient length to adequately protect persons from potential hazards.

This is the 1<sup>st</sup> fatality reported in calendar year 2010 in the metal and nonmetal mining industries. As of this date in 2009, there was 1 fatality reported in these industries. This is the 1<sup>st</sup> Falling/Sliding Material fatality in 2010. There was one Falling/Sliding Material fatality in the same period in 2009.

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**Fatality #2 - March 2, 2011**

**Falling/Sliding Material - North Carolina – Phosphate Rock  
PCS Phosphate Company Inc - Lee Creek Mine**

**METAL/NONMETAL MINE FATALITY** - On March 2, 2011, a 51 year- old contract superintendent with 24 years of experience was killed at a phosphate rock operation. The victim was attempting to join two ends of 24-inch diameter pipe. Two excavators were being used to position the pipe in the saddle of a pipe fuser when the pipe slipped out and struck him.



**Best Practices**

- Establish safe work procedures and identify and remove hazards before beginning a task. Follow the equipment manufacturer's procedures for the work being performed to ensure that all hazards have been addressed.
- Train persons to recognize the hazards associated with performing a task.
- Repair broken or damaged equipment immediately.
- Block material against motion to assure energy cannot be released while the task is performed.
- Do not place yourself in a position that will expose you to hazards while performing a task.
- Monitor personnel routinely to determine that safe work procedures are followed.

This is the 2<sup>nd</sup> fatality reported in calendar year 2011 in the metal and nonmetal mining industries. As of this date in 2010, there were 2 fatalities reported in these industries. This is the 1<sup>st</sup> Falling Material fatality in 2011. There was 1 Falling Material fatality in the same period in 2010.

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**Fatality #4 - April 4, 2013**

**Falling/Sliding Material – Arizona – Copper Ore NEC**

**Freeport-McMoRan Bagdad Inc – Freeport-McMoRan Bagdad Inc.**

**METAL/NONMETAL MINE FATALITY** - On April 4, 2013, a 30-year old general foreman with 6 years of experience was killed at a copper ore operation. An excavator was being used to position a 36-inch diameter by 40-foot long section of pipe to connect it to another section of pipe. The pipe, attached to the excavator by a lifting strap, shifted and fell on the victim.



**Best Practices**

- Establish and discuss safe work procedures. Identify and control all hazards associated with the work to be performed along with the methods to properly protect persons.
- Task train all persons to recognize all potential hazardous conditions and to understand safe job procedures for elimination of the hazards before beginning work.
- Attach taglines to loads that may require steadying or guidance while suspended.
- Securely block equipment against hazardous motion to ensure energy cannot be released while performing work.
- Never work in the fall path of objects/materials of massive weights having the potential of becoming off-balanced while in a raised position.
- Implement measures to ensure persons are properly positioned and protected from hazards while performing a task.
- Monitor personnel routinely to determine that safe work procedures are followed.

This is the 4<sup>th</sup> fatality reported in calendar year 2013 in the metal and nonmetal mining industries. As of this date in 2012, there were 4 fatalities reported in these industries. This is the 1<sup>st</sup> Falling/Sliding Material fatality in 2013. There were 0 Falling/Sliding Material fatalities in the same period in 2012.

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**METAL/NONMETAL MINE FATALITY** – On March 27, 2014, a 64-year-old foreman with 32 years of experience was seriously injured when he was struck by a section of plastic water pipe as it was being moved by an excavator. The victim was transported to a hospital where he died on March 30, 2014, as a result of his injuries.



## Best Practices

- Establish and discuss safe work procedures before beginning work. Identify and control all hazards associated with the work to be performed and the methods to properly protect persons.
- Task train all persons to recognize all potential hazardous conditions and to understand safe job procedures for elimination of the hazards before beginning work.
- Wear suitable hard hats where falling objects may create a hazard.
- Stay clear of a suspended load.
- Attach taglines to loads that may require steadying or guidance while suspended.
- Implement measures to ensure persons are properly positioned and protected from hazards while performing a task.
- Monitor persons routinely to determine safe work procedures are followed.

This is the 4<sup>th</sup> fatality reported in calendar year 2014 in metal and nonmetal mining. As of this date in 2013, there were 3 fatalities reported in metal and nonmetal mining. This is the 2<sup>nd</sup> Falling/Sliding Material fatality in 2014. There were 0 Falling/Sliding Material fatalities in the same period in 2013.

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**METAL/NONMETAL MINE FATALITY** – On February 26, 2016, a truck driver delivering multiple sections of polyurethane pipe was struck by a section of pipe during the unloading process. A forklift removed two sections of pipe from the passenger side of the truck, and then left the area with the two sections. While the forklift was away, a single, unsecured section of pipe rolled off on the driver's side of the truck and struck the victim. Each section of pipe was approximately 50' long and weighed approximately 1,750 pounds. Miners began first aid but the driver was unresponsive. He was transported to the local hospital and later died.



## Best Practices

- Analyze all tasks, identify possible hazards prior and eliminate the risks prior to beginning work.
- Before beginning work, establish safe work procedures, train and discuss with all persons performing the task.
- Examine work areas during the shift for hazards that may be created as a result of the work being performed.
- Evaluate the stability of the material before unfastening a load. Pay particular attention to loads that may have shifted or become unstable during transport.
- Install secondary supports (side stakes) of adequate height and strength to prevent material from falling when the load is unfastened; or prior to unfastening the material, secure the item being unloaded to the machine used in the unloading process.
- Stand clear of items of massive weights having the potential of becoming off-balanced while being loaded or unloaded.
- Implement measures to ensure persons are properly positioned and protected from hazards while performing a task. Ground personnel should be highly visible. Unauthorized persons should be kept clear of the area.

This is the 1st fatality reported in calendar year 2016 in metal and nonmetal mining. As of this date in 2015, there were 4 fatalities reported in metal and nonmetal mining. This is the 1st falling material fatality in 2016. There were 4 falling material fatalities in the same period in 2015.