

DRIVEN BY VALUE



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# Monthly Contractor Safety Meeting

May 2018

# INTRODUCTION

- Facilities
- Emergency Exits/Meeting Point
- Cell Phones
- Safety Share
- This months focus
  - Special Presentation
    - Joe Napier from Velocity Builders and
    - Alex Blake from Burks
  - Environmental Share
  - Branch Safety Performance
  - Safety Notice
  - Contractors Safety Manual
    - 5.17.9 thru 5.17.9.6 Mobile Crane

# Freeport-McMoRan Inc. Public Portal

As of March 31, 2018, this site (<http://fcx365-public.sharepoint.com>) will be deleted.

The new site is <https://publicportal.fmi.com/>

Please update your bookmarks accordingly.

# WHO DO I CONTACT WHEN I HAVE AN ENVIRONMENTAL QUESTION?



**When in doubt. Call an Environmental Services representative.**



**SPILL HOTLINE – (928) 865-7745**



**Environmental Administration Office – Christina Seballos – (928) 865-6000**

**Environmental Yard, Satellite Accumulation, Roll Offs & Hoppers – Cody Watkins – 928-965-6928**

**Asbestos & Lead – Rob Walker – 928-215-6422**

**Air Quality – Shanna Holguin – (928) 965-0245, Bobby Scott – (928) 965-1770, Waleed Sunna – (928) 215-5695**



**Environmental ISO 14001 & Product Approvals – Ruth Chismar – (928) 215-9312 – Jonathan Anderson (928) 215-2730**

**Water Quality & Wild Life – James Hogan – (928) 965-0061, Dee Broadwell – (928) 965-3142, SWPPP – Jamie Aberle – (928) 215-0667**

**Asset Recovery & Morenci Transfer Station – Bryan Taylor – (928) 965-2777**

**Environmental Administration Accounting & Contracts – Cheryl Wright – (928) 965-1785**



# Environmental Share Spill Notification Hotline (928) 865-7745 (SPIL)



- The Spill Hotline is located at the mine gate shack
- Give all information regarding the spill including:
  - Location
  - Type of spill
  - Quantity
  - Copper and acid content if applicable
  - Contact name and phone number
- The mine gate attendant will notify the environmental on-call personnel with information given to the mine gate
- Caller of the spill will receive a call from environmental regarding the spill and the steps to be taken



*For more information refer to BMP 400: Spill Notification & Proper Reporting and  
BMP 402: Clean Up Procedures*

**February 2018**

# Dust Management

**What:** Morenci's Title V Air Quality Permit requires that reasonable precautions are employed to prevent excessive dust from becoming airborne.

**Who:** All employees and contractors are required help prevent dust from becoming airborne.

**Where:** All areas of the mine, including processing, operating equipment such as; conveyors, dust collectors, crushers, shovels, unpaved roads, tailings dam, stockpiles, etc.



Picture is for illustrative purposes ONLY. Not from Morenci

**Questions? Or need more information call:  
Environmental Services 928-865-6000**



Picture is for illustrative purposes ONLY. Not from Morenci

**When:** Anytime an activity has the potential to generate airborne dust, or when dust is occurring, please take necessary action(s) to mitigate immediately.

**How:**

- ❖ Drive to the conditions of the road (15mph when dry/dusty conditions).
- ❖ Call for water truck when excessive dust is observed.
- ❖ Contact the control room operator and request water application when you see airborne dust from conveyor belts, transfer points, pollution control equipment, or stockpiles
- ❖ Manage piles of accumulated dust by contacting the area supervisor to vacuum or remove it.
- ❖ Call or notify someone in the Environmental Services department.

**May 2018**



# Contractor On-Boarding and Up-Dating

- Bryon Wiley, Estevan Varela and Chinenye Ifeanyi-Ileka – Safety
- Christina Seballos – Environmental
- Dusty Gatlin – Training
- Victoria Broz – Contract Administration
- Gay Cole – Contracts Management

# FMMO Safety Departments/Contacts

## Processing

- Morenci Mill/Filter Plant/Moly Plant/CLP – **Cliff Mull**  
**928-965-2530**
- Metcalf Mill/Tailings– **Jessica Rodriguez**  
**928-965-6104**
- Hydromet – **Frank Maldonado**  
**928-965-0219**
- C&C – **Bryon Wiley (Temporary Coverage)**  
**928-965-3540**
- Maintenance Services – **Deborah Kamba**  
**928-965-4035**
- Leaching – **John Koon**  
**928-215-0547**



# FMMO Safety Departments/Contacts

## Administration

- All Administration/Including Town-Site –  
**Estevan Varela**

**928-965-0542**

- Industrial Hygiene – **Chineye Isichei**

**928-965-0824**

# FMMO Safety Departments/Contacts

## Mine

- Resource Management/Fragmentation/Elect Shop – **Trent Mitchell**  
**928-215-6000**
- Mine Shops – **Garrit Culver**  
**928-965-4890**
- Loading Support/Shovel & Drill/Fab Shop – **Danny Leyvas**  
**928-965-0292**
- Haulage – **Robert Franco**  
**928-965-0198**



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## **3 Prioritized Safety Goals**

***1. Prevent Fatalities***

***2. Reduce Incident Severity***

***3. Improve Continuously***

# MSHA Up-Date

- **Workplace Examinations**
  - The “Workplace Examination Standard” is being revised by MSHA.
  - There will be some additional requirements and paperwork changes.
  - It will become effective June 2<sup>nd</sup> 2018.

Please visit the MSHA website and become familiar with the revisions.

# Health and Safety Policy Changes

- Purpose of Streamlined Policies
- Release dates/Subjects
- Overview of Admin Document
- Overview of New Policies
- Implementation Plan

# Purpose of Streamlined Policies

- **Site feedback: policies were often confusing and cumbersome, and not always consistent or usable in the field**
- **Consolidate the roles and responsibilities for all policies**
- **Provide usable document in the field, with only pertinent safety information, not policy administration**
- **Create alignment with audit and training requirements**

**Note: By creating one single set of administrative requirements, there are minor changes that affect all policies**

# Policy Release Dates

- **March 7, 2018:**
  - **Confined Space, Technical Supplement, Permit**
  - **Hot Work, Permit**
  - **Working at Heights, Technical Supplement**
- **Q2 2018**
  - **Evaluation of initial rollout will determine count and date for new releases**
- **Previous policies will be archived June, 2018**



# Administrative Requirements Policy

## Consistent policy management across policies and sites

- Roles and Responsibilities
- Site Program Requirements
- Audits
- Training
- Variance
- MOC
- Common Definitions
- Records Retention

\*Note: Only applies to policies released in streamlined format.

# Confined Space, Notable Changes

## Policy, Technical Supplement (TS) and Permit

- No policy changes
- TS includes:
  - Atmospheric monitoring requirements
- Permit includes:
  - Regulatory requirements for General Industry and International sites
  - Additional signatures/initials from team members
  - Separate page to log all entrants

# Hot Work, Notable Changes

## Policy and Permit

- “Thorough inspection of the work area”
- Clarifies time of validity (one task, one shift)
- Promote evaluation and use of cold work
  - Challenge the practice of cutting everything with a torch
- No significant changes to permit

# Working at Heights, Notable Changes

## Policy and Technical Supplement

- 6' to 4' fall protection requirement
- No separate Open Hole policy/permit
  - Significant analysis conducted to determine feasibility of combining the two policies
- TS specifies:
  - Fall Arrest System requirements
  - Guardrail requirements
  - Hole protection requirements

# Working at Heights and Open Hole

- Fatal Risk of work at height and work around floor openings is the fall from height
- Critical controls are the same for both activities
- All openings in walk/work surfaces that a person could fall through should be treated with the same controls and mitigations as leading edge work
- Streamlined policy requires no openings shall be created until fall prevention/mitigation is applied
- Technical supplement explains and clarifies fall protection measures/equipment

# Implementation Plan

- Communicate changes to workforce using Talking Points
  - Tailgates
  - Monthly Safe Production Meetings
  - Special Communication Meetings
  - H&S support
  - Capture roster and agenda – upload via your HIRA site
- H&S performs gap analysis, works with divisions to close gaps
- Previous policies will be archived June, 2018



# Questions

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**Previous policies will be  
archived in June 2018**

## 5.17.9 Mobile Cranes



## 5.17.9.1 Operator Qualifications

- Crane operators shall comply with site requirements to operate a crane.
- Crane operators who possess a nationally recognized license or certificate will be required to provide evidence of their training, qualifications and competence prior to arrival on site. In any case, the operator shall have a current, applicable written documentation of training for the category of equipment being operated.

## 5.17.9.1 Operator Qualifications

- Crane operators shall document a recent physical examination, including a vision test, prior to applying for a project crane operator license. (Note: The D.O.T. Physical forms meet the above requirements and may be used as a guideline.)



## 5.17.9.1 Operator Qualifications

- In order to receive a project crane operator license, an applicant must be able to pass a written test that includes, at minimum, the following elements:
  - Crane Set-up
  - Reading Load Charts
  - Calculating capacities at a given radius
  - Calculating deductions for rigging, block, jib, etc.
  - Proper Crane Operation
  - Rigging and Rigging Inspection
  - Evaluating Site Conditions
  - Pre-Operations Inspection

## 5.17.9.1 Operator Qualifications

- Potential candidates for crane operator shall be able to pass a “hands on” test that includes the following skills:
  - Perform Pre-Operation inspection
  - Set crane up for a lift
  - Inspect rigging
  - Operate crane and show ability to follow hand signals (i.e., swing boom, place hook, etc.)
  - Ability to read load chart and calculate load
  - Perform a test lift
  - The “hands on” test shall be documented and results made available upon request.

## 5.17.9.2 Operating Procedures

- The operator shall not engage in any practice that may divert his or her attention while engaged in crane operations, and will never leave the controls when there is a load on the hook.
- The operator shall not operate the crane if physically or mentally unfit, or if taking prescription drugs which may affect judgment.
- The operator shall not respond to any signal that is unclear or is given by anyone other than the appointed signal person (with the exception of a stop signal given by anyone).



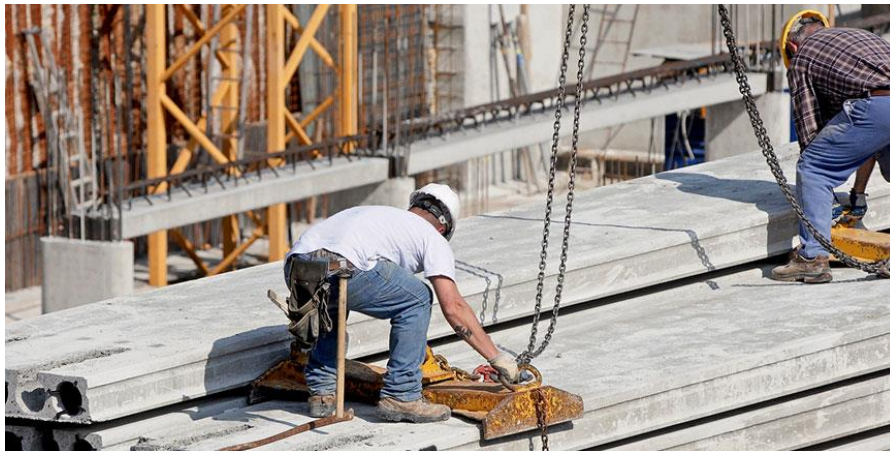
## 5.17.9.2 Operating Procedures

- The operator shall have final responsibility and control over the crane operations. When there is any doubt as to safety, the operator shall have the authority to stop and refuse to handle the loads until safety has been assured. **Any manager, supervisor or person attempting to bypass the crane operator's authority on this issue will be removed immediately from the site.**



## 5.17.9.2 Operating Procedures

- The load shall be attached to the hook by means of slings or other approved devices, and **no open hooks shall be used. Hooks shall have functional safety latches.**
- A shackle shall be used to retain two or more choker eyes in the hook where the hook is not so designed to attach multiple rigging components.



## 5.17.9.2 Operating Procedures

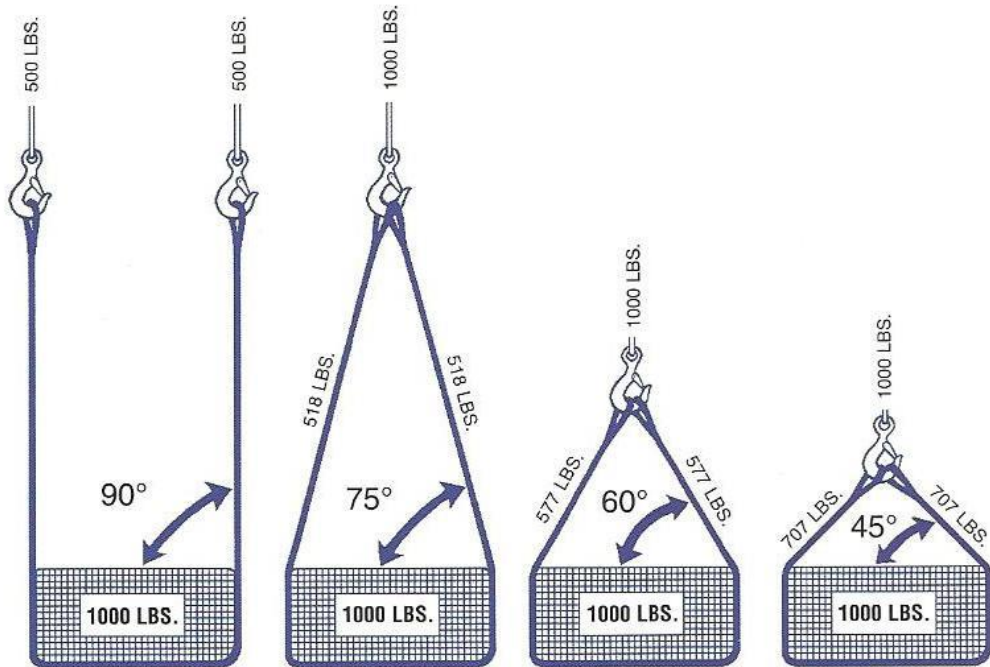
- Hooks shall not be changed, defaced or deformed in any manner. Hooks that have been exposed to excessive heat such as welding, burning, grinding, etc. will not be allowed on-site.
- The operator shall position the hook over the load in a manner to prevent load swing.
- **The operator shall** determine that the rope is properly seated in the drum and in the sheaves; the load line is not kinked; and multiple part lines are not twisted around each other.

## 5.17.9.2 Operating Procedures

- Shake out hooks will be used only for shaking out materials.
- During hoisting, the operator shall not suddenly accelerate/decelerate a moving load; allow the load to contact any obstructions; swing loads over personnel; or allow side loading or load dragging.
- All load rigging equipment shall be appropriately rated. Ratings shall be displayed on the device.

## 5.17.9.3 Rigging Requirements

- Rigging will only be completed by competent individuals who have received training on proper rigging techniques. Evidence of such training must remain with riggers during working hours.



### 5.17.9.3 Rigging Requirements

- All rigging equipment shall be inspected prior to each use. Damaged or defective slings shall be immediately removed from service and destroyed.
- “Shop-made” grabs, hooks, clamps or other lifting devices are prohibited.
- All rigging equipment shall have a safety factor of five.

## 5.17.9.4 Safe Operating Practices

- Slings shall not be shortened by knots, bolts or other makeshift devices.
- Wire rope slings shall be padded or softeners used to protect against damage due to sharp corners.
- Slings used in a basket hitch shall have the loads balanced to prevent slippage.





## 5.17.9.4 Safe Operating Practices

- Loads handled by slings shall be landed on cribbing or dunnage so that slings will not be pulled from under or crushed by the load.
- Slings subjected to shock loading shall be immediately removed from use and destroyed.

## 5.17.9.4 Safe Operating Practices

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- Tag lines will be used with all lifting operations.
- **Repair to rigging equipment is prohibited.** It shall be removed from service and destroyed or sent to the manufacturer for repair.

## 5.17.9.5 Inspections and Recordkeeping

- A thorough written inspection of slings, ropes and chains in use shall be made on a regular basis, but not less frequently than six months.
- **A record of inspections shall be maintained.**



## 5.17.9.6 Work Platforms Suspended from Cranes

**A permit is required prior to using a crane for lifting personnel in a suspended platform.** The platform must be certified by a professional engineer. The permit will be issued by the contractor when it is determined that the use of the platform is the only feasible method of accomplishing the task. The safety checklist included with the permit will be utilized prior to hoisting personnel. A pre-lift meeting must take place prior to the lift and be documented. Fall protection must be in place according to regulatory and FCX Working at Heights Policy. Personnel and materials cannot be lifted together.



## Living the Vision

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- Positive Recognition
- Thanks again to **Velocity Builders and Burks** for today's presentation
- **H&S Field Services** is set to conduct the June presentation.
- **Southwest Energy** will do the July presentation
- **Ames Construction** will do the August presentation
- **SWAPP** will do the September presentation
- **H&E Equipment** will do the October presentation
- **Epirco** will do the November presentation