

# Contractor Safety Meeting April 11, 2017

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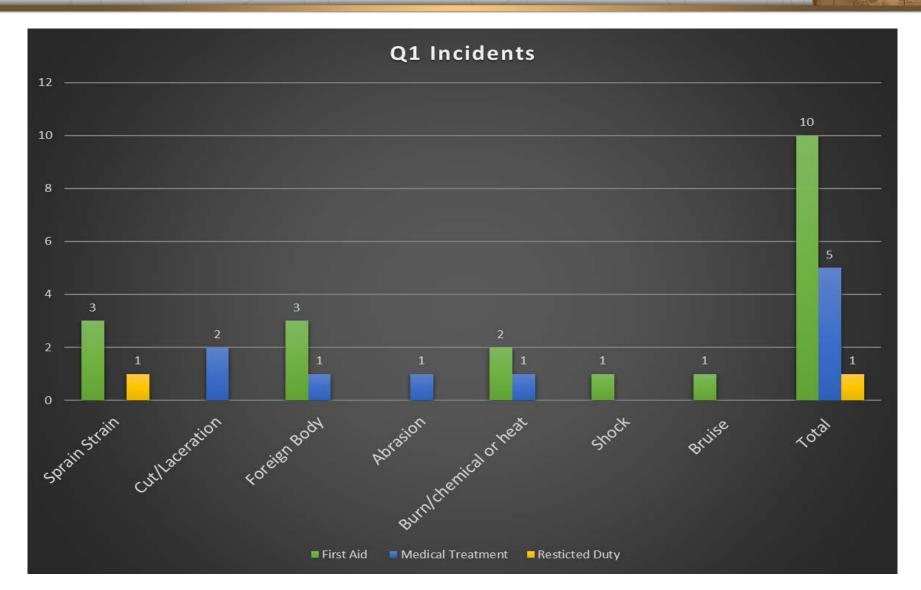
# Agenda

- Opening Remarks. MSHA/Incident Summary (Contractors Only)
- Contractor Safety Manual Review
  - Fire Extinguisher
  - Auditing
- Policy Review
  - Monthly Topic
  - Confined Space Attendant
  - Risk Matrix
- Living the Vision
- Open Forum





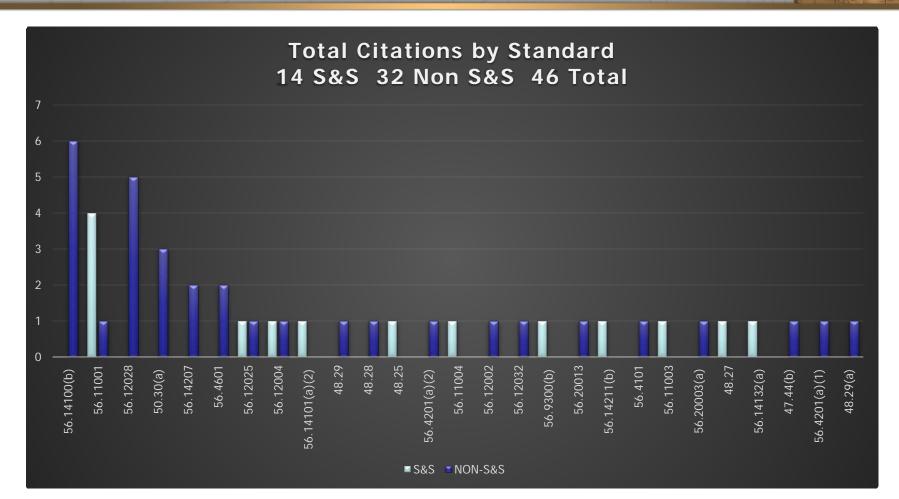
# **Q 1 Total Incidents**







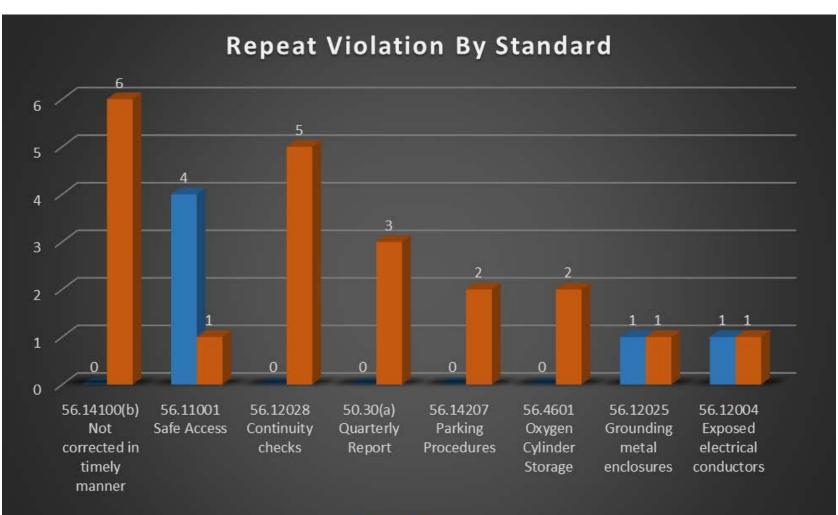
## **All Violations**







## **Repeat Violations**



S&S NON-S&S

# Fire Extinguishers on Mobile Equipment

Each separate cutting and welding unit will be required to have, within 25 feet, a 20-pound ABC fire extinguisher. A Fire Watch must be posted during the activities which generate heat, and for 30 minutes after to ensure

An accessible fire extinguisher of 5 lb of a Class B rating or higher shall be available to the operator of equipment and vehicles.



# **Auditing Section 4**

### 4.1 Daily Supervisory Audit

Each contractor supervisor (or his designee) shall conduct daily inspections of each work area to identify and control unsafe conditions and practices. Inspections shall be documented. Records shall be maintained for a minimum of one year unless a longer duration is required by regulatory authorities or site policies. Items of non-compliance will be listed on an audit registry and corrective action identified and tracked to completion.



# 4.2 Weekly Self-Assessment Audit

- Weekly self-assessment audits of all work areas will be conducted by the contractor to evaluate H&S performance. The contractor shall define an audit schedule and the areas to be inspected, and shall distribute the schedule to all inspectors.
- Self-assessment audits will be conducted jointly with the affected line supervisor so any deficiencies may be corrected and good performance recognized promptly. Items of non-compliance will be listed on an audit registry and corrective actions will be tracked to completion. The contractor will summarize audit findings and provide to the project manager on a weekly basis. Audit findings also will be made available to Freeport-McMoRan H&S personnel to review on a periodic basis.



# 4.3 Monthly Project Audit

 The project manager and contractor site manager shall jointly organize and perform a monthly documented site-wide H&S assessment. Area supervisors and safety professionals (contractor and FCX) should accompany them in their respective areas. Audit results will be documented, and corrective actions will be identified and tracked to completion.



# Section 5.4.1 Electrical Training

The following standards shall be referenced and followed. Federal, regional, and local standards shall be followed as minimally acceptable practices. NEC and NFPA 70E

Contract electricians who work in energized electrical rooms or near energized electrical installations will be required to attend NFPA 70E Training and wear the appropriate Arc Rated PPE. These requirements shall be followed when working near energized circuits within an electrical room or work area; it is not intended for work performed on de-energized equipment. De-energized circuits shall be "locked, tagged and tried out" (LOTOTO) per local site safety policy. Contract employers are responsible for ensuring that all contract employees assigned to work on the facility follow the electrical safety rules and requirements required by the host employer. Additional training requirements can be found in the 2015 NFPA Guidelines.



# **Specific Electrical Policies**

- 09-001 Low Voltage Energized Work Policy
- 98-001 Electrical PPE Clothing Equipment Policy
- 98-006 Electrical Cord Inspection Policy
- 98-008 Voltage Measurement Policy
- Non Routine Lock Removal

#### FREEPORT-MCMORAN

### Energized Electrical Work Permit Any Live Testing Troubleshooting or Adjustments

#### **Energized Electrical Work Permit**

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Ensure all efforts have been made to LOTOTO the aff	ecte	d eo	quij	pment)	

Work Location:	/ork Order #:					
Authorized worker(s):	Job Supervisor:	Job Supervisor:				
Authorized worker(s).	Start Date:	Start Time:				
Description of the work to be perform	ned:					

Work on electrically	/ energized equipment	is necessary	because de-energizing:

	Introduces additional hazards	Is infeasible due to equipment design
	Introduces increased hazards	Is infeasible due to operational limitation

Arc Flash Boundary (in inches):

Other (Jusitfy):

HAZARD ANALYSIS (To be completed by the qualified individual performing work - BEST Policy 09-001)

Arc F	lash	Category:	

Shock Hazard Maximum Voltage:

Shock Analysis/Approach Boundaries:	(Refer to Energized Electrical Work Policy or equipment labeling)			
Limited approach boundary-	3 ft	6 in		
Restricted approach boundary-	1 ft	0 in	Work will be conducted in this boundary	
Prohibited approach boundary-	0 ft	1 in	Work will be conducted in this boundary	

#### Is the electrical equipment designed and installed correctly (MSHA,NEC,BEST)?

Principal power switches labeled	Danger signs posted (major electrical installations)
Proper clearance to electrical equipment exists	Power cables are protected from mechanical damage
Equipment is correctly grounded	Inspection and cover plates are installed correctly
Proper fittings, grommets, bushings are installed	Other:



# Weekly Safety Topic

Week 2. Managing Tasks around Entanglement Hazards

We are all responsible to manage the risk of coming in contact with moving machine parts. The consequences of becoming entangled in moving machine parts can be catastrophic. How we manage these fatal risks as a work group is extremely important.



- 1. What tasks are we going to perform today that have an entanglement risk involved?
- 2. What controls do we have in place for that task to ensure we will not become entangled in moving machine parts?
- 3. How do we verify that the controls are in place and effective?
  - a. Whose responsibility is it to verify controls?
- 4. How often do we verify or audit that the controls are still effective throughout the task?
- 5. What are we going to do if we find that one of the controls is missing or is no longer effective because the job has changed?
- 6. Is there anything else that we can do to reduce the entanglement risks of the task?





# **Confined Space Attendants**

### 2.4.2. Duties of the PRCS Attendant

Attendants (Hole-watch, Guards) must be located immediately outside the entry/exit point of the confined space and perform no other job activities that might interfere with their primary duties (monitoring and protecting authorized entrants) as listed below. Unless relieved by another attendant, and/or job activities are completed and all entrants of the space have evacuated.

When can a confined space attendant also be the open hole attendant?





# **Risk Matrix**

consequences requ	ne aqqillonar aqmini	strative oversight to	ensure mai me ex	иеттету том тіке		
	FCX 4x4 RISK ASSESSMENT MATRIX					
4	8	12	16	Catastrophic (4)		
3*	6*	9	12	Significant		
3	6			(3)		
2	4	6	8	Moderate (2)		
1	2	3	4	Minor (1)		
Unlikely (1)	Possible (2)	Likely (3)	Almost Certain (4)	LIKELIH		





# **Positive Recognition**



# Building our Future through the Strength of our People

OUR MISSION - We will build our future by maximizing value to our stakeholders and by safely producing cost effective metals.

# Living the vision Stop work Asking questions

Doing the right thing at the right time for the right reasons.





# **Open Forum**

- This time is reserved to discuss:
- Your Successes
- Your Learnings
- Your Questions

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