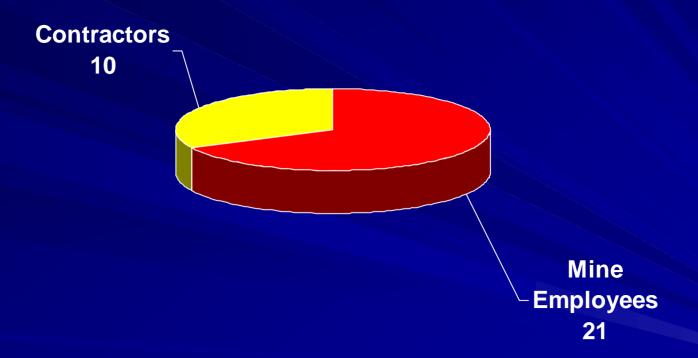
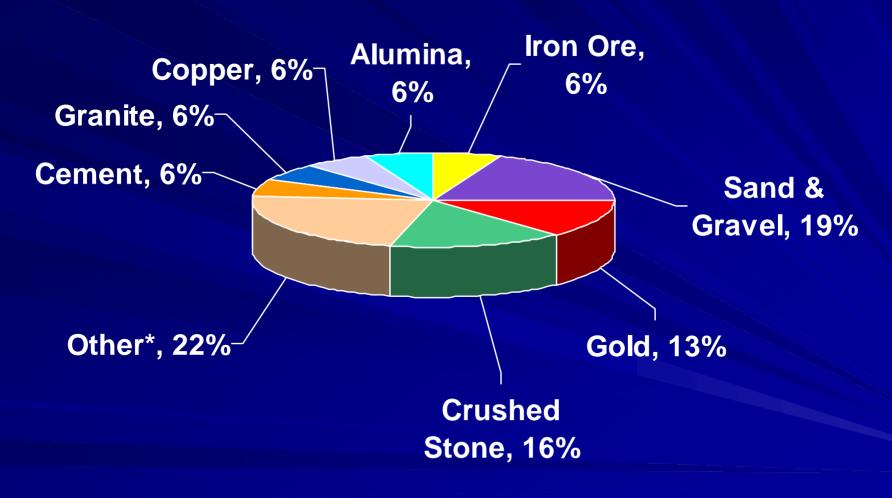
Metal and Nonmetal Fatal Accident Review CY 2007

MNM Fatalities

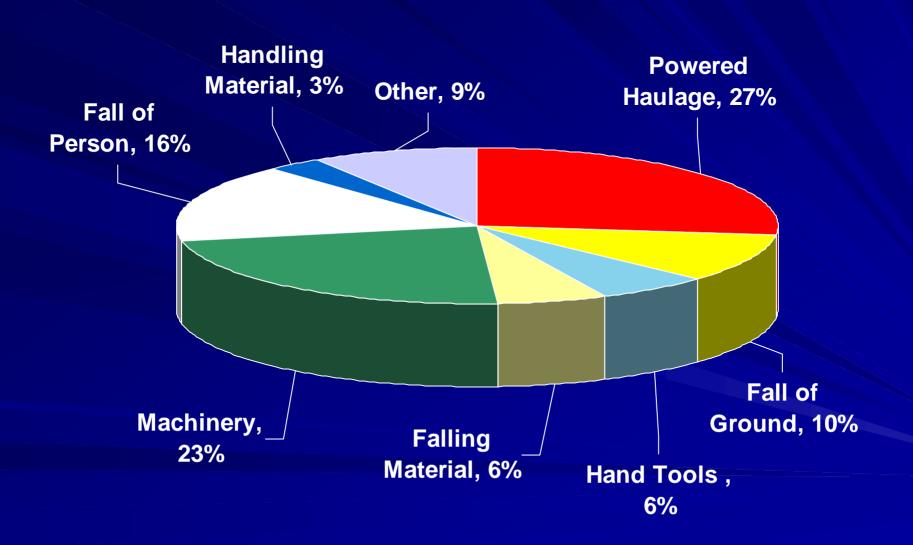


MNM Fatalities by Commodity

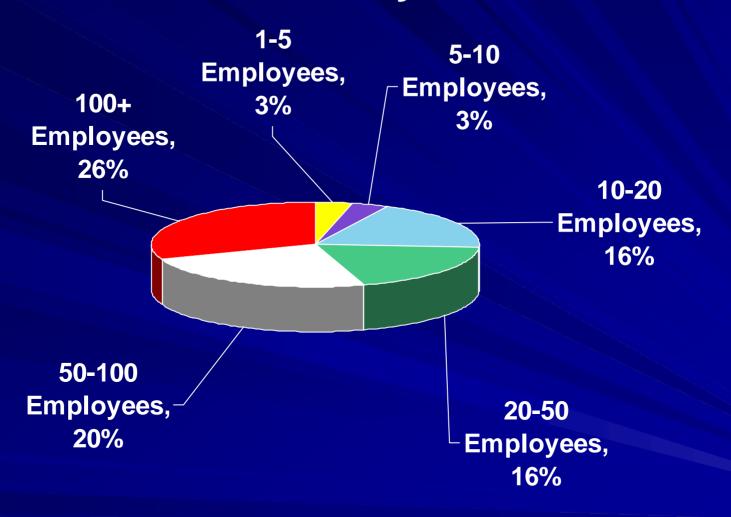


^{*} Lead/Zinc, Industrial Sand, Trona, Lime

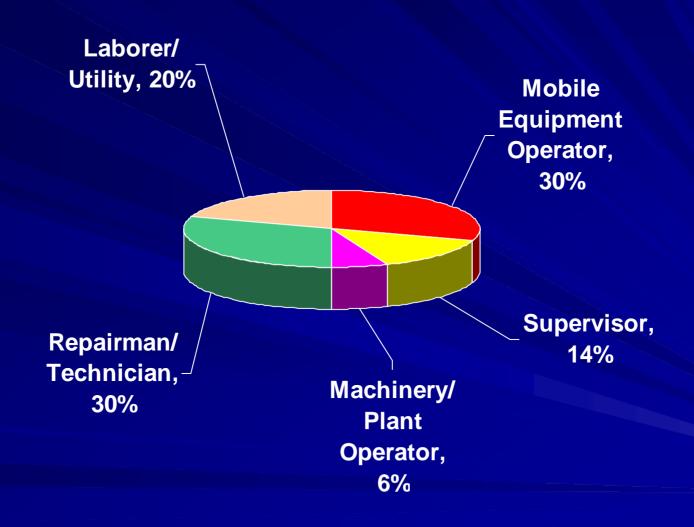
MNM Fatalities by Classification



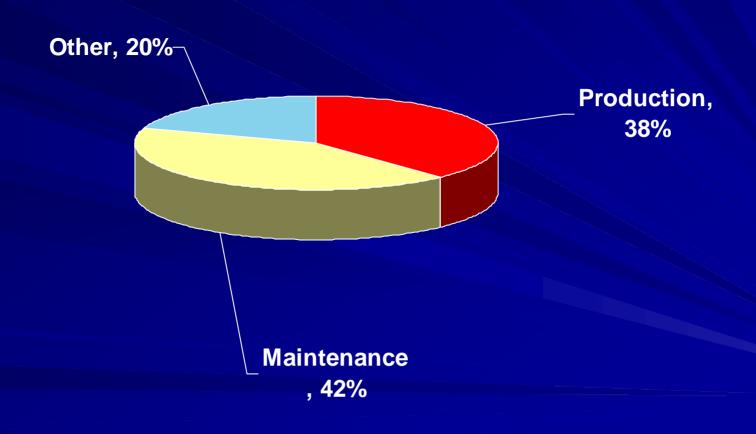
MNM Fatalities by Mine Size



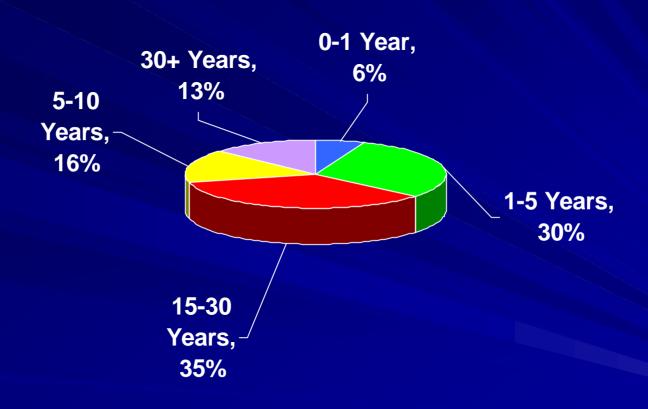
MNM Fatalities by Occupation



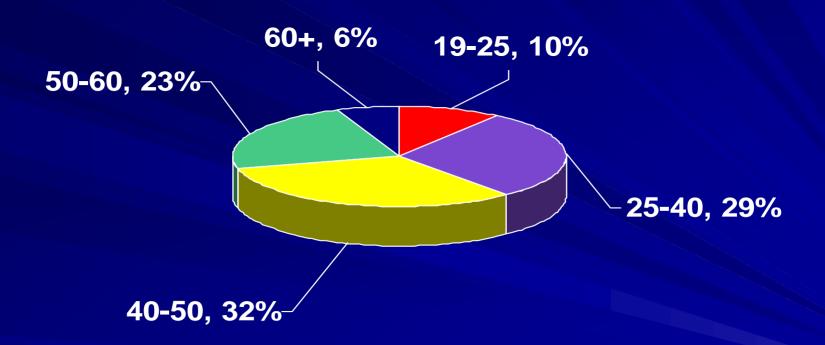
MNM Fatalities by Activity



MNM Fatalities by Mining Experience



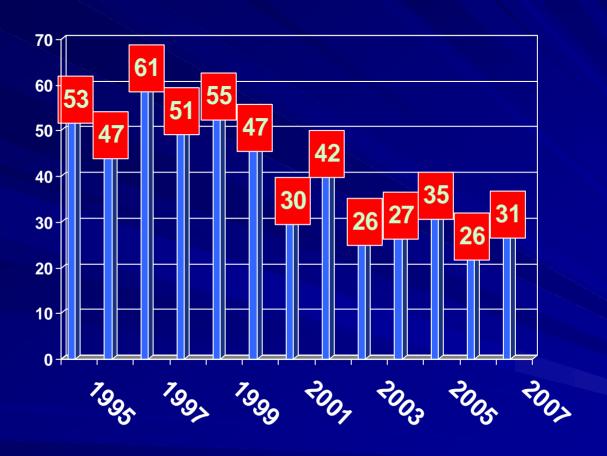
MNM Fatalities by Age



Root Causes

- No Risk Assessment Conducted
- Inadequate Policies, Procedures, Controls
- Did not use Personal Protective Equipment
- Lack of Pre-operation Checks
- Equipment not Maintained
- Failure to Conduct Examinations
- Training Inadequate

MNM Fatalities – 1995-2007



Electrical

Year	⁶ 02	['] 03	'04	'05	'06	^{'07}
Fatalities	2	2	1	2	5	0

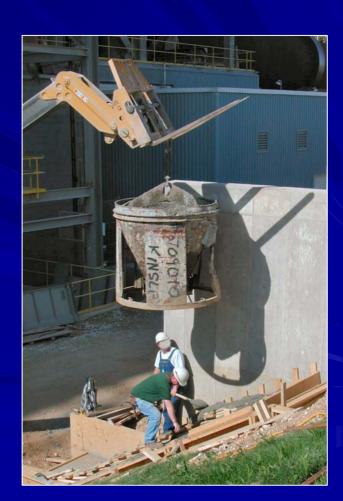
- MCC fires / explosions
- Contractors
 - Manage contractors!!
- Power line clearance



Fall of Material or Highwall

Year '02 '03 '04 '05 '06 '07 Fatalities 3 3 3 3 7 3

- One (1) fatality each:
 - Falling parts
 - Inadequate blocking
 - Trench / excavation collapse
- Barricade area below work
- Avoid suspended loads
- Shore excavations



Fall of Roof or Back

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Year '02 '03 '04 '05 '06 '07 Fatalities 0 0 0 0 0 3
```

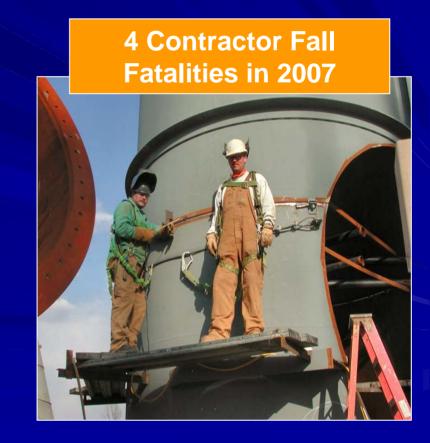
- 2007 is a setback year after 5 years of outstanding performance
- Examine and support ground in adverse conditions

Slip / Fall of Person

Year '02 '03 '04 '05 '06 '07

Fatalities 2 3 6 3 5

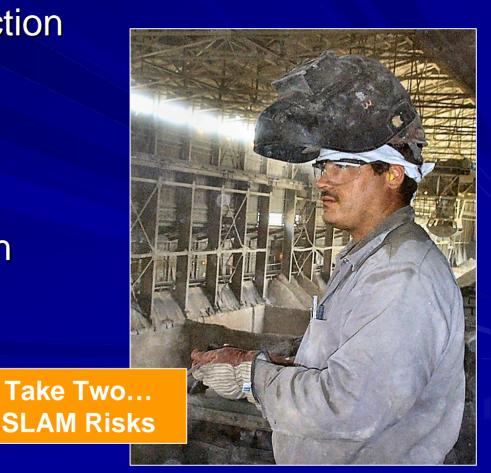
- Many serious fall injuries
- Assess and control risks
 - Inadequate walkways and scaffolds
 - Not using fall protection equipment
 - Persons not anchored



Human Element

Victims -

- Did not deploy outriggers
- Did not attach fall protection
- Did not wear life jacket
- Did not wear seat belt
- Did not barricade below
- Worked near open hole
- Entered unshored trench
- Circumvented guard



Outrigger Use - 4 Fatalities in 2007

Deploy

Distribute load

Inspect / maintain







The majority of fatal accidents have these common root causes

- Failure to identify hazards
- Failure to manage risks

SLAM Risks the SMART Way!

Miners:

Stop Think through the task

Look Identify the hazards for each job step

Analyze Determine if you have the proper knowledge, training, and tools

Manage Remove or control hazards and use proper equipment

Mine Operators:

Stop Isolate each step in a task and identify past and potential accidents, injuries, and violations.

Measure Evaluate the risks associated with the task and barriers that have allowed hazards to cause injuries

Act Implement controls to minimize or eliminate any hazards that make the risk unacceptable

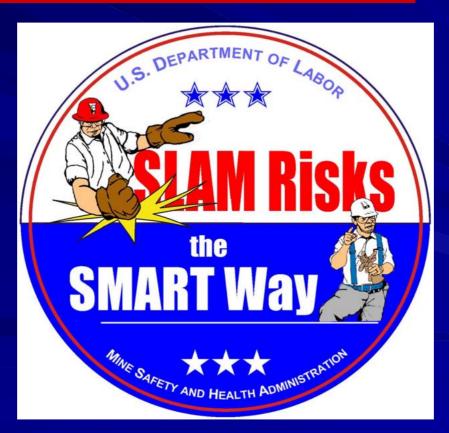
Review Conduct frequent work site visits to observe work practices and audit accidents, injuries, and violations to identify root causes

Train Develop a human factor-based action plan and then involve and train the miners Make the RIGHT Decision!

When Miners & Mine Management are Risk SLAMMERS

together they

Make the RIGHT Decision and...





U.S. Department of Labor

Make the RIGHT Decision

Mine Safety and Health Administration