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Outline

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- Mexican Response
- Conclusions
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Background

- Open-pit copper mine in northern Mexico owned by Grupo Mexico
- 1200 miners + 300 contractors. Miners went on strike in July 2007
- OHS volunteer team organized by Maquiladora Health and Safety Support Network (MHSSN) in October 2007



Background



Methods

□ IH questionnaire

Health survey/Lung function test (Spirometry)

□ 68 miners interviewed in two days

Walk-through inspection





Based on IH interviews

Exposures

Chemical Hazards	Silica - 32% Solvents - 24% Diesel fumes - 22%
Physical Hazards	Noise - 90% Vibration - 78%
Safety Hazards	Falls - 94% Machine operation - 73% Machine guarding - 62%

Based on IH interviews

Inadequate respirators, Ear plugs

Air and Noise monitoring

Seldom, no changes

Medical surveillance

Physical exam at hiring

No pulmonary or audiometric test

Accidents

From broken fingers to one fatality

Lack of Training Programs



Workers reporting NO training in these specific areas

Based on Health Survey



Estimate of workers with respiratory symptoms

Walk-through Inspection

- Four areas visited
 - Mine
 - Concentrator
 - Quebalix
 - ESDE
- Main observations
 - Chemical hazards
 - Electrical hazards
 - Safety hazards
 - Physical hazards
 - Poor housekeeping

Walk-through Inspection

- **Based on bulk sample (accumulated dust)**
- □ 23% quartz silica
- \Box 51% of the dust \rightarrow respirable range
- \Box 75% of the dust \rightarrow thoracic range

What does it means?

- Workers are exposed at least to 1.2mg/m³ respirable silica
- Mexican Permissible Exposure Limit 0.1mg/m³















Mexican Response

- □ STPS did a walk-through inspection April 2007 → 72 required corrective actions
- OHS team released a report November 2007
- STPS said the report is not valid
- □ STPS did a second walk-trough inspection January 2008 → 200 required corrective actions
- "Nada de Gravedad"

Secretariat of Labor and Social Security = STPS Spanish-language

Conclusions

- Grupo Mexico has failed to provide a safe and healthful workplace for the miners, to comply with health and safety Mexican regulations.
- Serious health and safety hazards that require immediate and long-term corrections to guarantee basic workers' health and safety rights.
- The safety program has not resulted in effective hazard corrections, accident investigations, and worker training.

Recommendations

- A massive clean-up operation to eliminate the most immediate hazards to workers' health and safety.
- Grupo Mexico must initiate a comprehensive health and safety remediation plan for the facility.
- Grupo Mexico should initiate a comprehensive medical surveillance program.
- Mexican government must ensure that workers at the Cananea mine are protected against all regulated hazards.

