



# **Cal/OSHA, DOT HAZMAT, EEOC, EPA, HAZWOPER, HIPAA, IATA, IMDG, TDG, MSHA, OSHA, and Canada OHS Regulations and Safety Online Training**

**Since 2008**

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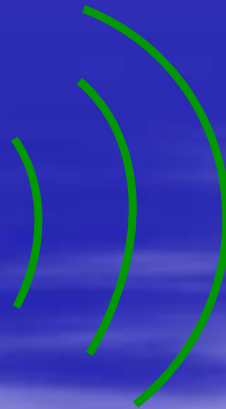
[Website](#)

**NOISE CONTROLS**

**FOR**

**UNDERGROUND  
MINING**

# SOURCE PATH RECEIVER



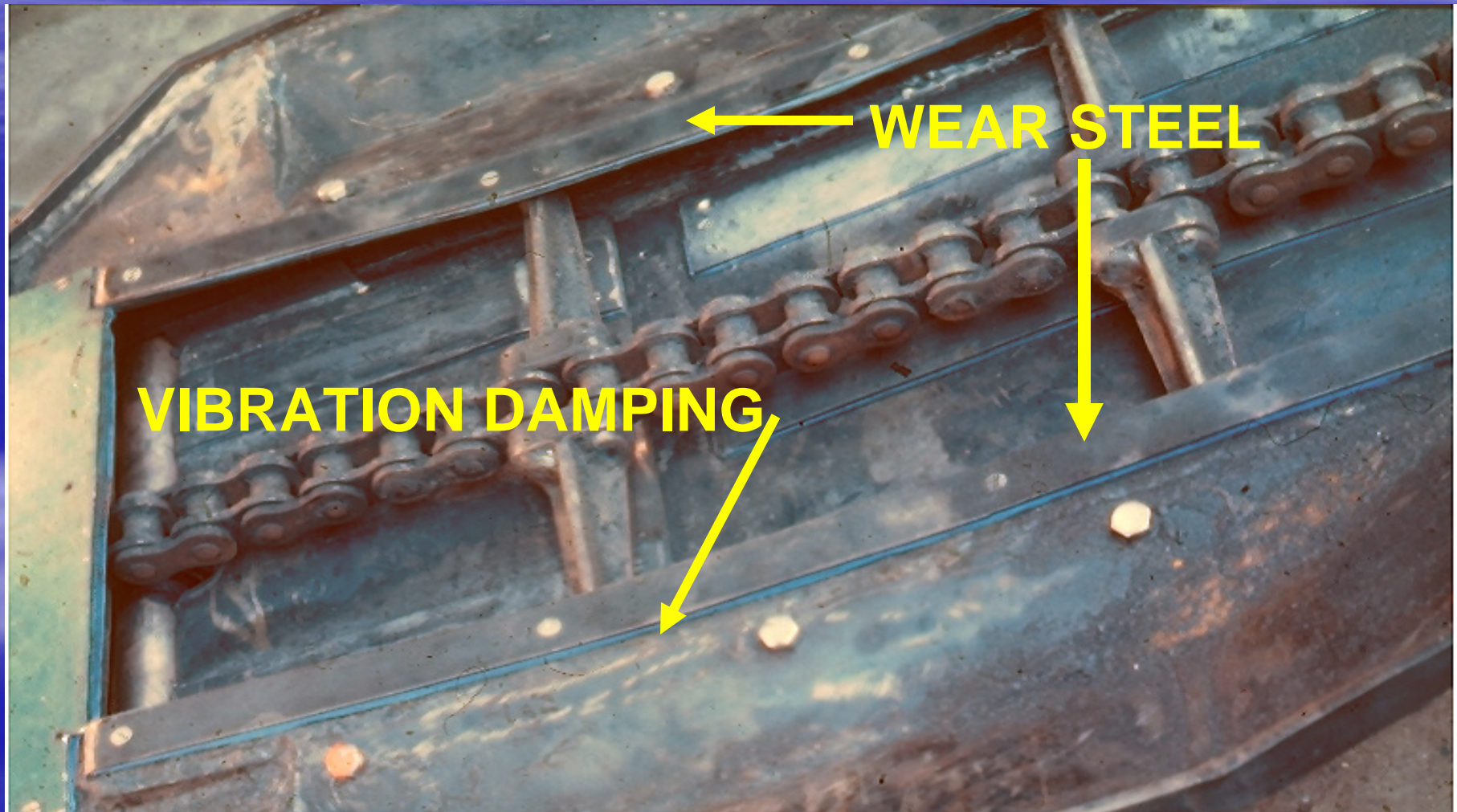
# **NOISE EXPOSURE CAN BE REDUCED BY:**

- **APPLYING CONTROLS TO THE  
SOURCE (S)**
- **BLOCKING THE PATH (S)**
- **ENCLOSING THE RECEIVER**

# FLIGHTS CAN BE ISOLATED FROM PAN / CONVEYOR



# FLIGHTS ARE HELD IN PLACE ON THE BOTTOM OF THE PAN



# **THE MINED MATERIAL LAYS BETWEEN THE WEAR STRIPS AND FURTHER HELPS TO REDUCE THE SOUND**



# **VENTILATION FANS SHOULD BE KEPT ISOLATED FROM FACE AREA**



# **Fan Silencers Should be Inspected and Cleaned as Necessary**



# SOUND ABSORPTIVE MATERIALS CAN BE INSTALLED



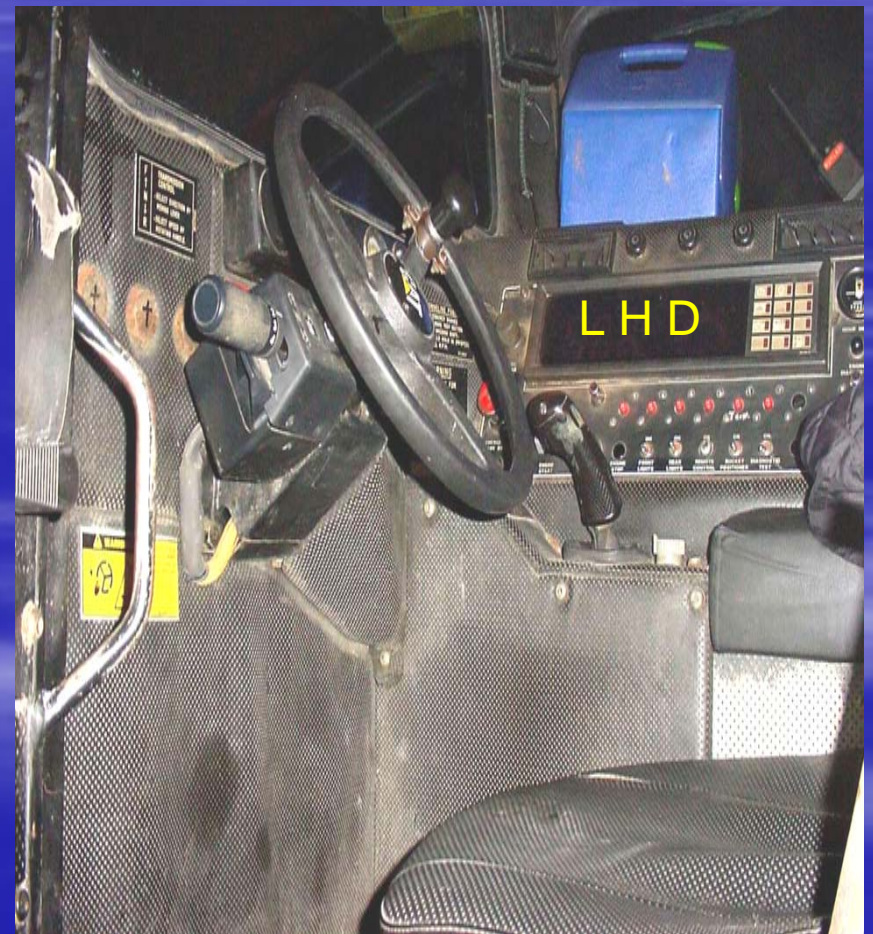
# MUFFLERS CAN BE COVERED DOORS CAN BE TREATED



# EXHAUST SYSTEMS SHOULD BE MAINTAINED



# Original Equipment Manufacturers Cabs



# OEM CABS ARE BECOMING MORE COMMON IN UNDERGROUND MINING

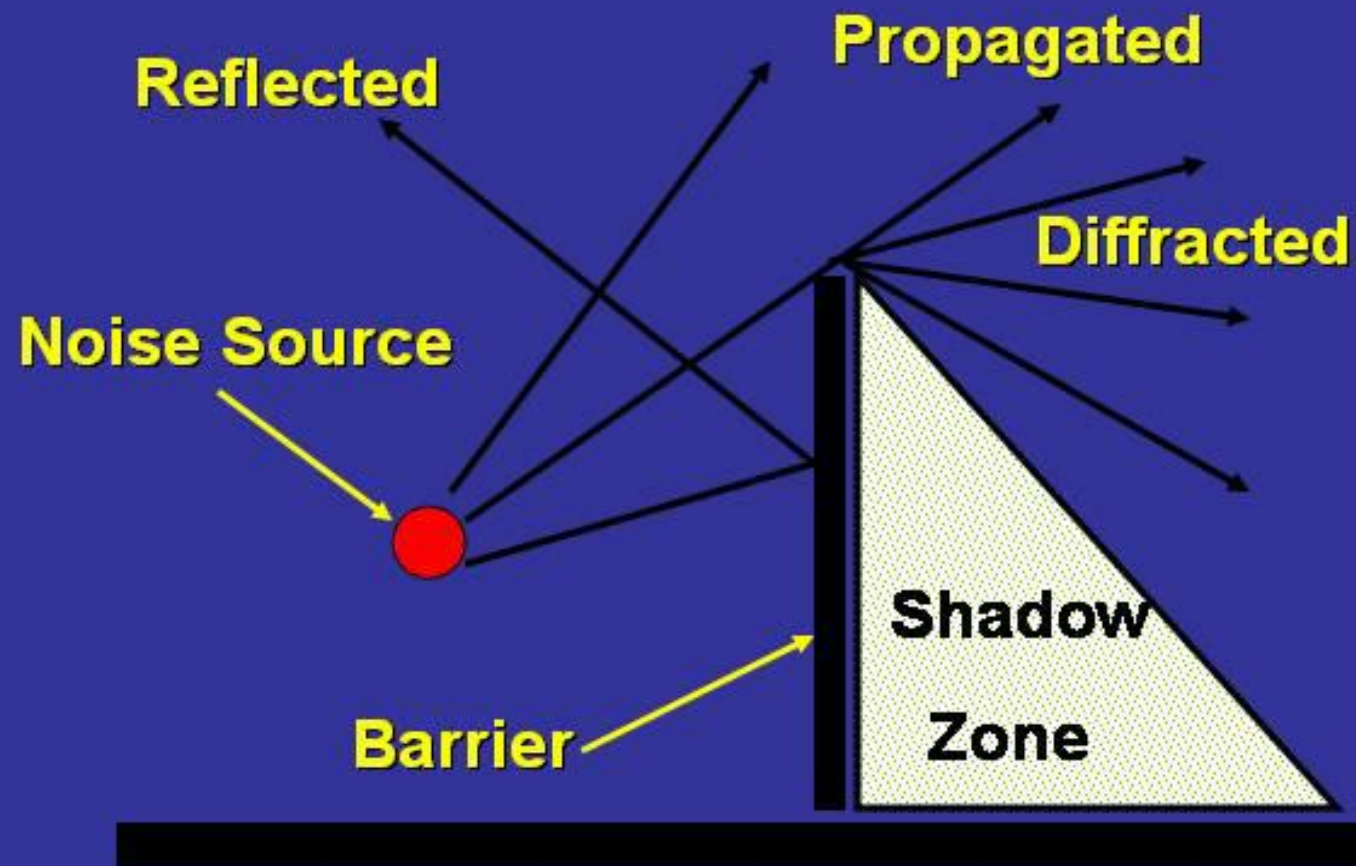


# **CABS CAN ALSO BE FABRICATED AND ACOUSTICALLY TREATED**



**BARRIERS CAN BE USED  
TO BLOCK SOUND LEVELS  
EMITTED BY  
UNDERGROUND MINING  
EQUIPMENT**

# Barrier Concept



# HERE ARE TWO EXAMPLES OF THE USE OF BARRIERS



# CENTRAL MONITORING OF UNDERGROUND LOCATIONS



# Additional Resources

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SUBJECT: Technologically Achievable, Administratively Achievable, and Promising Noise Controls (30 CFR Part 62)

## Scope

This Program Information Bulletin (PIB) applies to all Mine Safety and Health Administration (MSHA) enforcement personnel, equipment manufacturers, coal, metal, and nonmetal mine operators, independent contractors, miners, miners' representatives, and other interested parties.

## Purpose

The purpose of this PIB is to provide guidance to operators, miners, miners' representatives, contractors, and equipment manufacturers on technologically and administratively achievable engineering and administrative noise controls. This document also identifies those engineering and administrative noise controls which offer *promise* for further investigation.

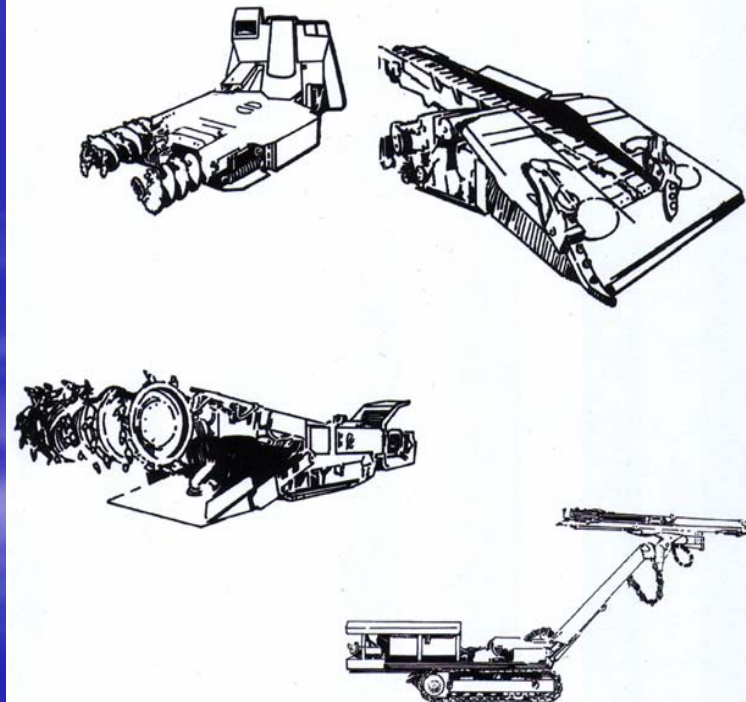
## Information

The performance-oriented noise standards in 30 CFR Part 62 equate administrative and

## Noise Control Resource Guide - Underground Mining



U. S. Department of Labor  
Mine Safety and Health Administration



[www.msha.gov/1999noise/Guides/SurftotalFinal.pdf](http://www.msha.gov/1999noise/Guides/SurftotalFinal.pdf)



***Daddy's Home ©  
By Wayne Collett***

**Your children can whisper to you now,  
Don't make them shout at you in the future**