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

## **Since 2008**

**This document is provided as a training aid  
and may not reflect current laws and regulations.**

Be sure and consult with the appropriate governing agencies  
or publication providers listed in the "Resources" section of our website.

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**NOISE CONTROLS**

**FOR**

**UNDERGROUND  
MINING**

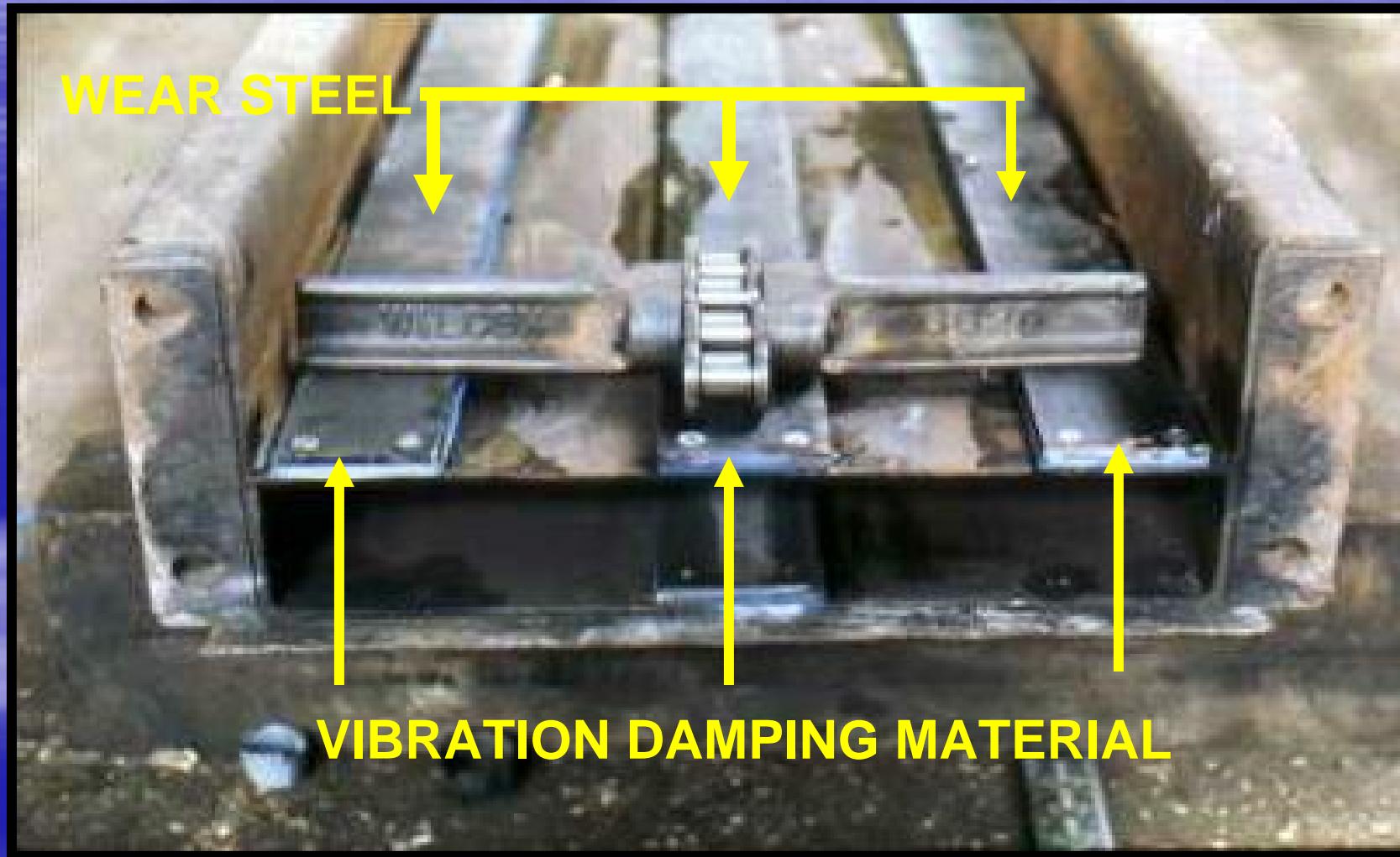
# SOURCE PATH RECEIVER



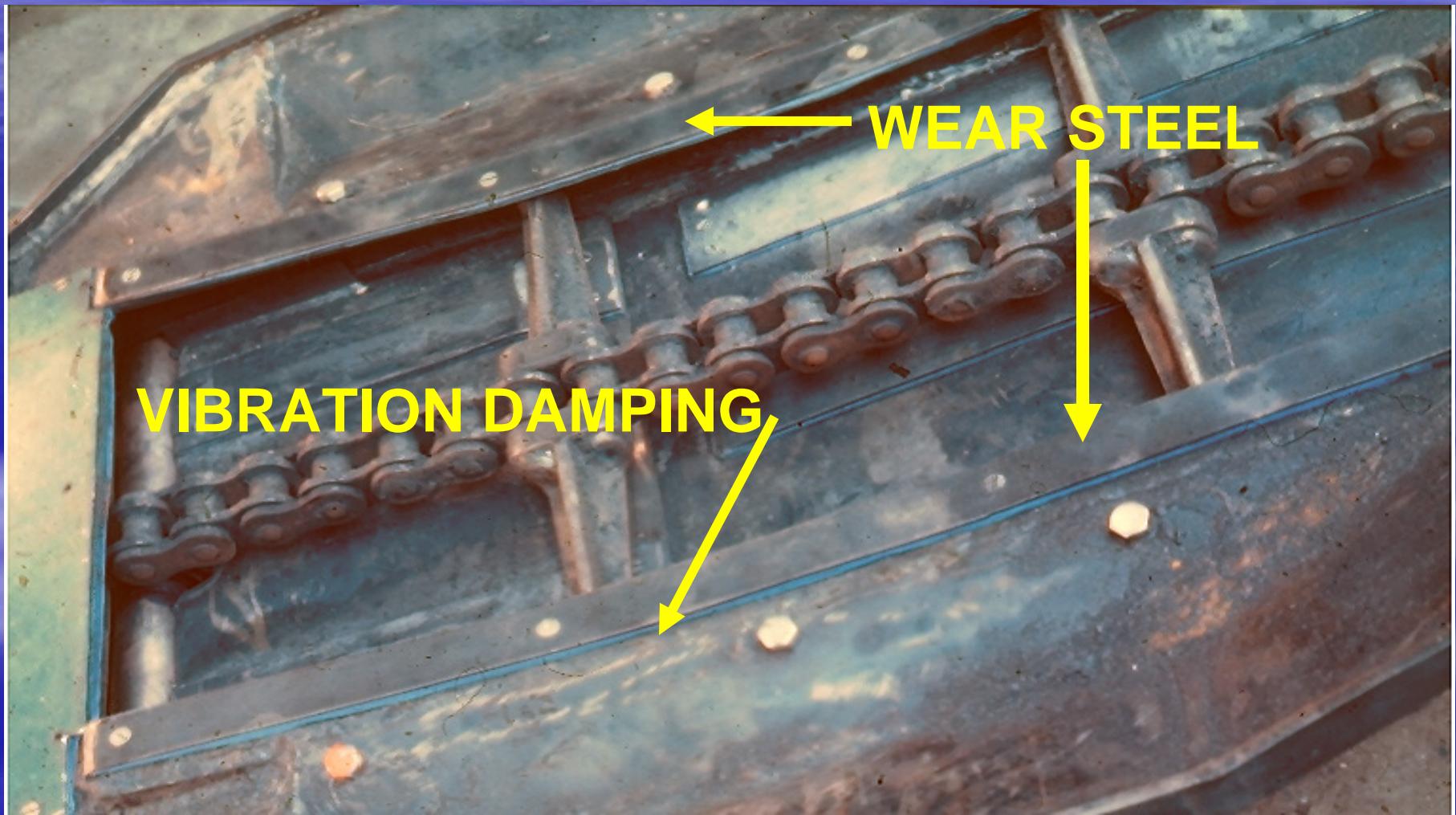
# **NOISE EXPOSURE CAN BE REDUCED BY:**

- 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



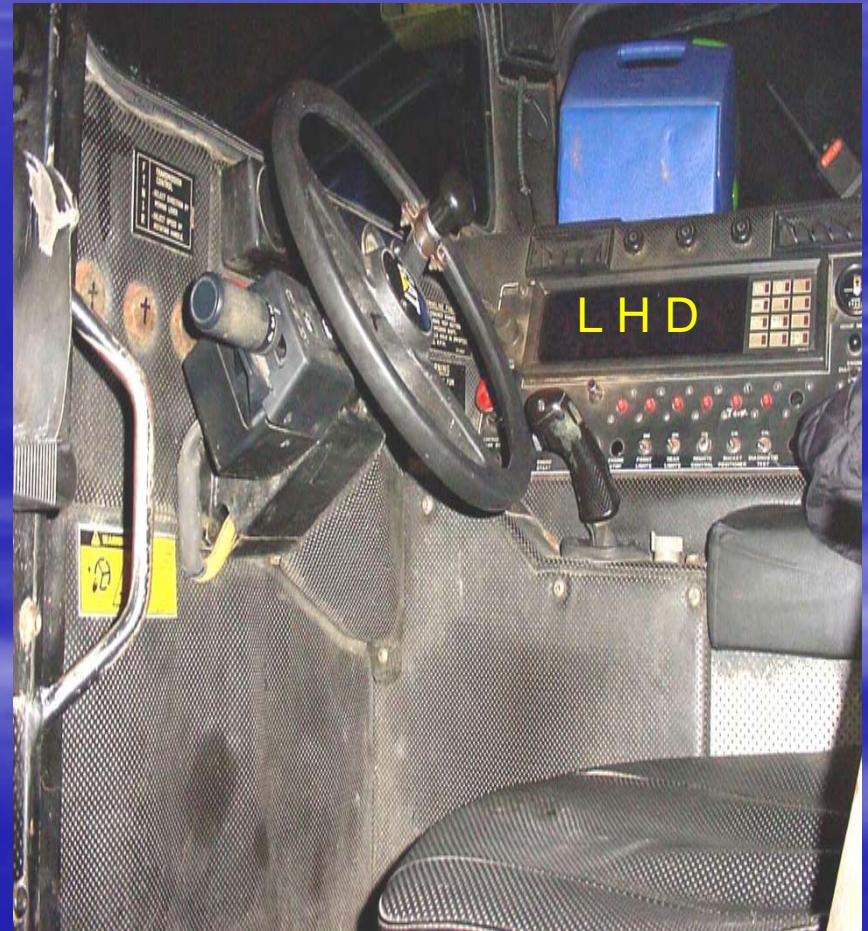
# MUFFLERS CAN BE COVERED DOORS CAN BE TREATED



# **EXHAUST SYSTEMS SHOULD BE MAINTAINED**



# Original Equipment Manufacturers Cabs



# OEM CABS ARE BECOMING MORE COMMON IN UNDERGROUND MINING

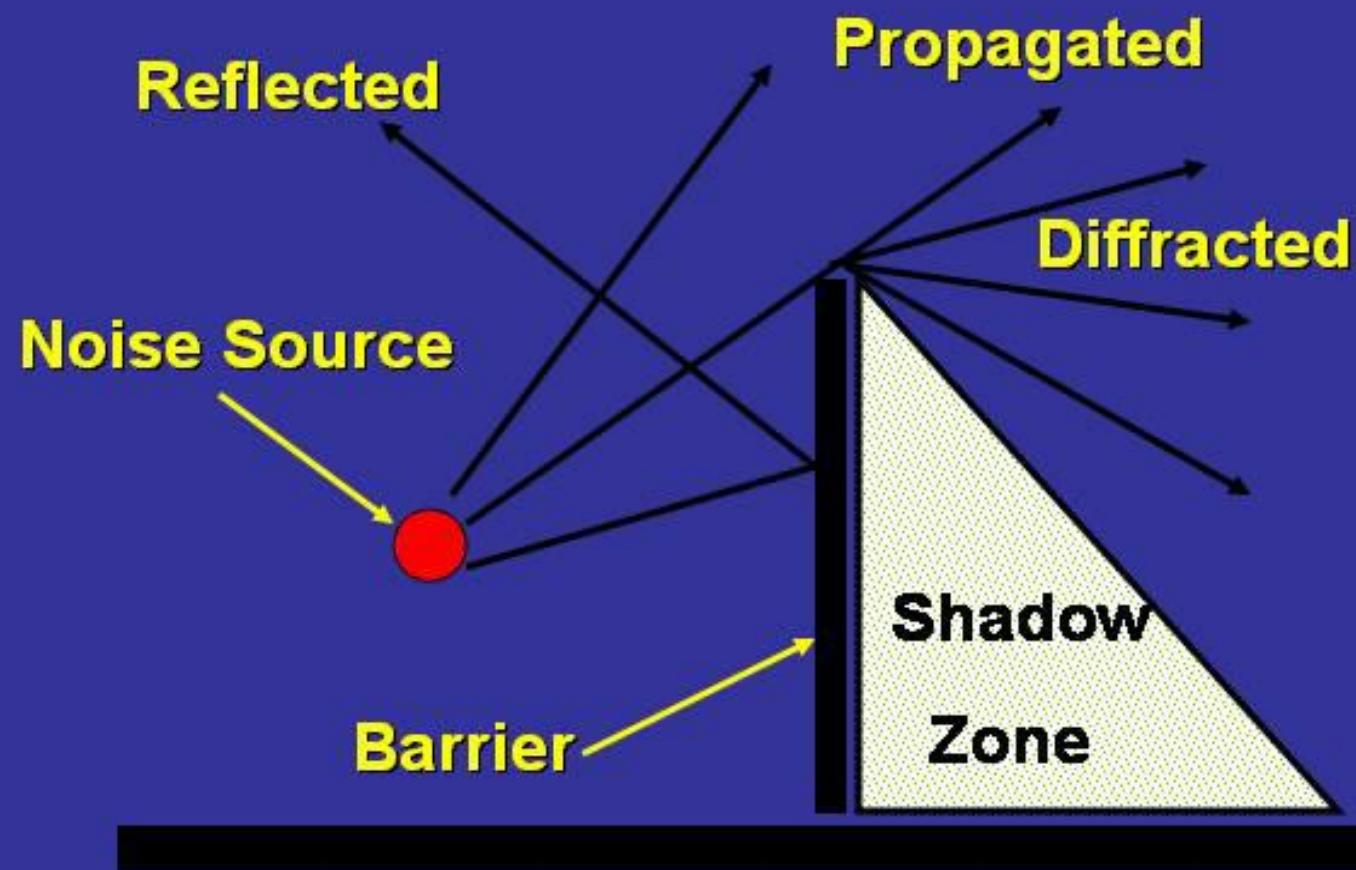


**CABS CAN ALSO BE  
FABRICATED  
AND ACOUSTICALLY TREATED**



**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



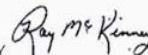
# Additional Resources

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PROGRAM INFORMATION BULLETIN NO. P04-18

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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.

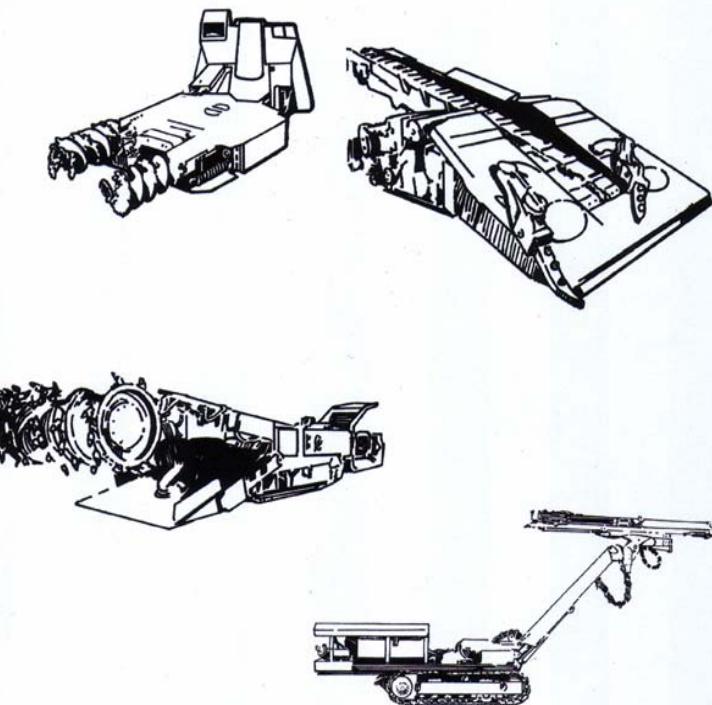
**Information**

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**