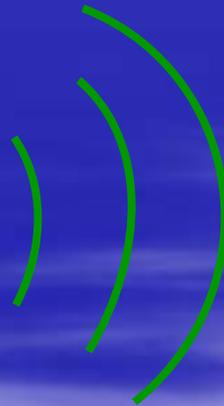


NOISE CONTROLS

FOR

**UNDERGROUND
MINING**

SOURCE PATH RECEIVER



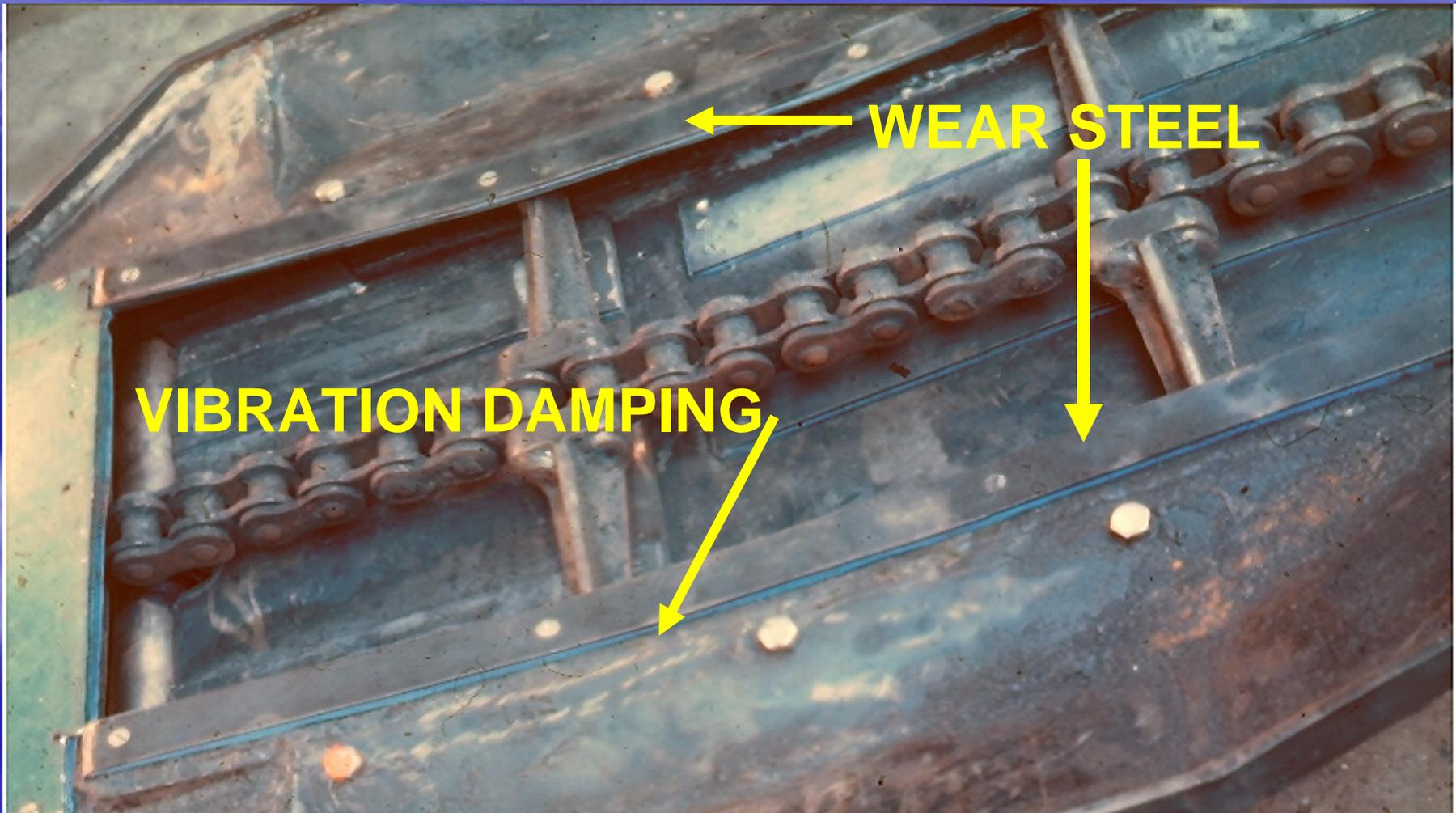
NOISE EXPOSURE CAN BE REDUCED BY:

- **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



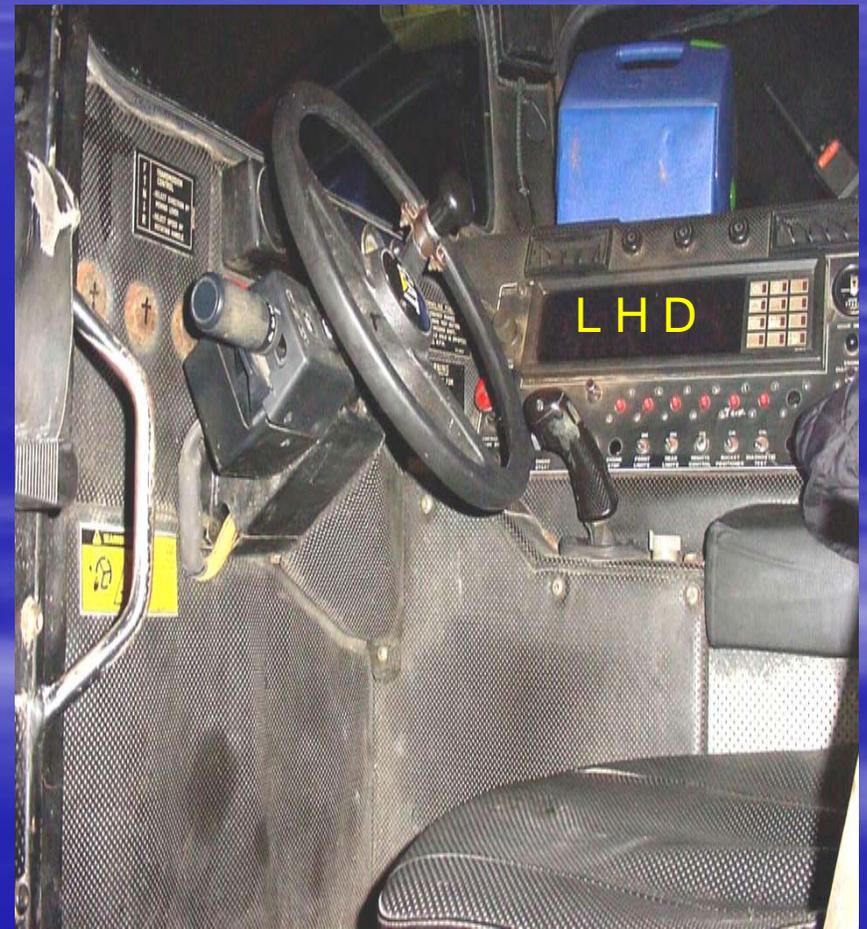
MUFFLERS CAN BE COVERED DOORS CAN BE TREATED



EXHAUST SYSTEMS SHOULD BE MAINTAINED



Original Equipment Manufacturers Cabs



OEM CABS ARE BECOMING MORE COMMON IN UNDERGROUND MINING

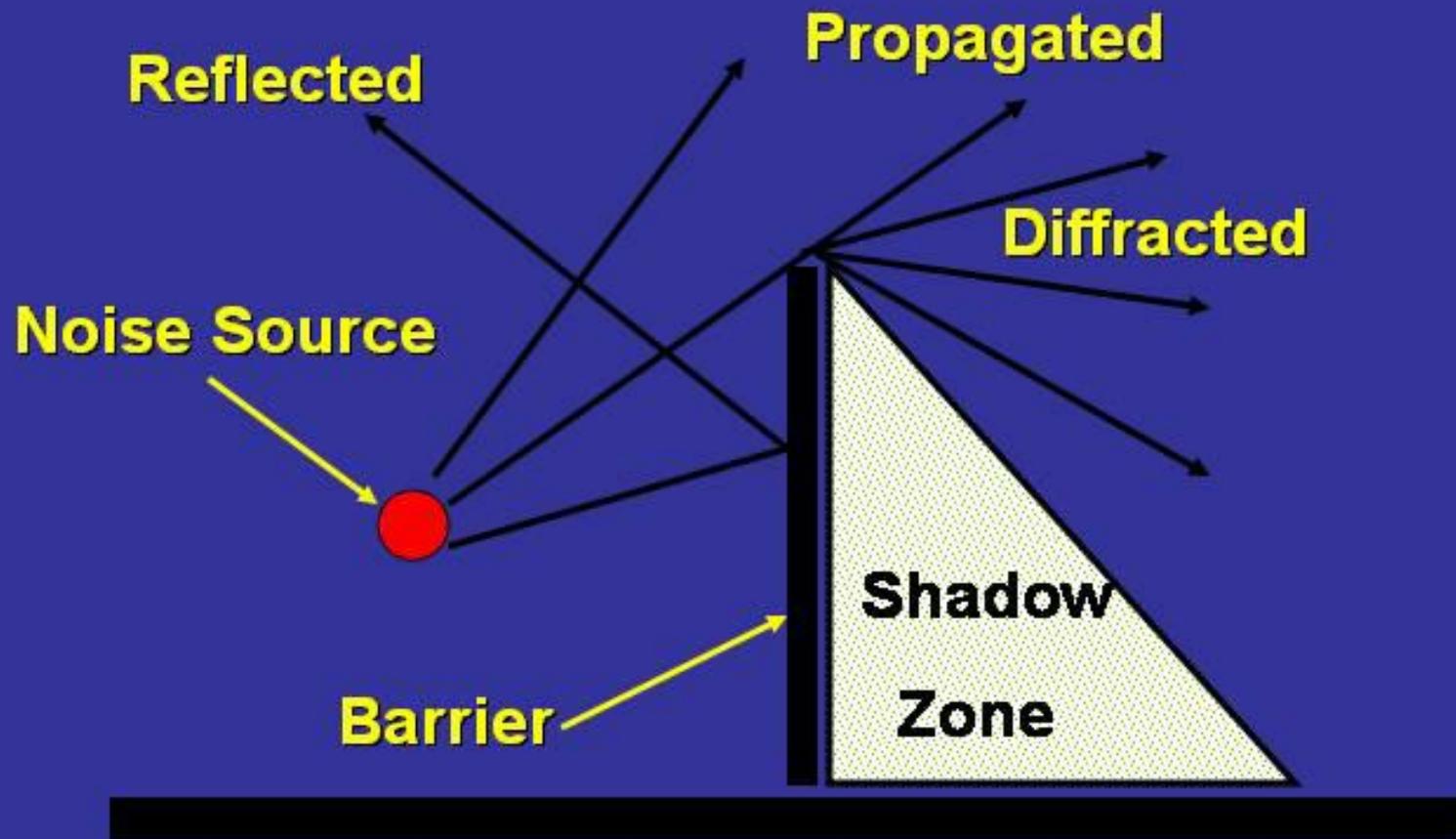


CABS CAN ALSO BE FABRICATED AND ACOUSTICALLY TREATED

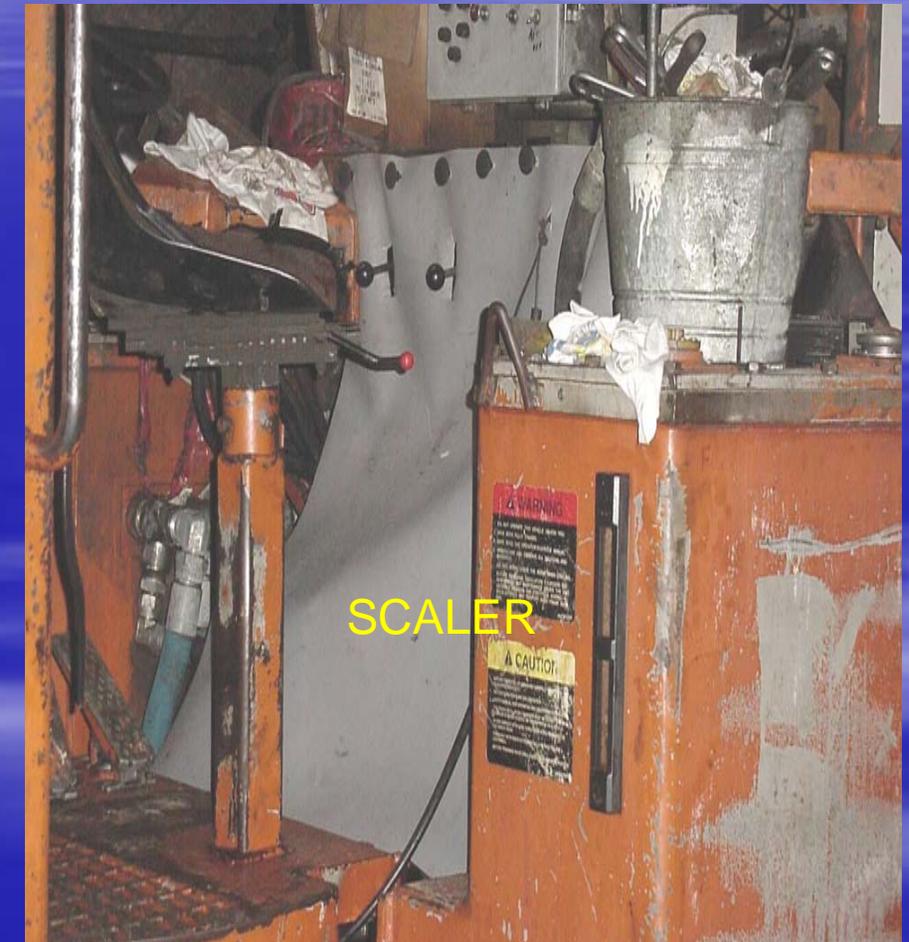


**BARRIERS CAN BE USED
TO BLOCK SOUND LEVELS
EMITTED BY
UNDERGROUND MINING
EQUIPMENT**

Barrier Concept



HERE ARE TWO EXAMPLES OF THE USE OF BARRIERS



CENTRAL MONITORING OF UNDERGROUND LOCATIONS

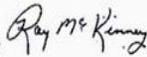


Additional Resources

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PROGRAM INFORMATION BULLETIN NO. P04-18

FROM:

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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.

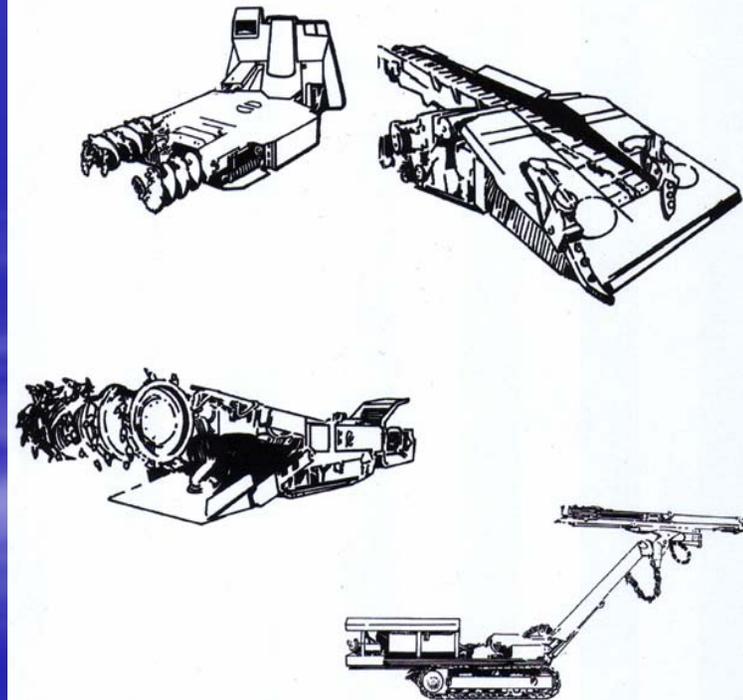
Information

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



*Daddy's Home ©
By Wayne Collett*

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