NOISE CONTROLS FOR UNDERGROUND MINING
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

WEAR STEEL

VIBRATION DAMPING MATERIAL
FLIGHTS ARE HELD IN PLACE ON THE BOTTOM OF THE PAN

WEAR STEEL

VIBRATION DAMPING
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

- Jumbo Drill
- LHD
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

- Reflected
- Propagated
- Diffracted

Noise Source

Barrier

Shadow Zone
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...
Your children can whisper to you now,
Don’t make them shout at you in the future