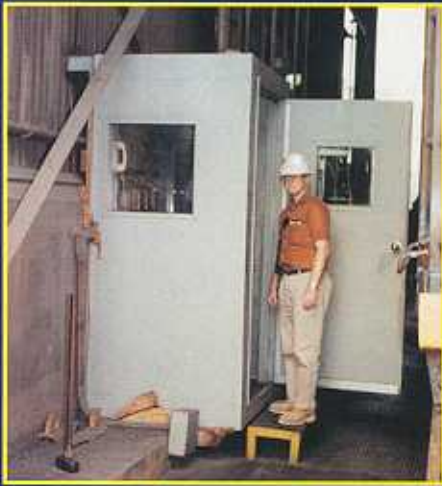


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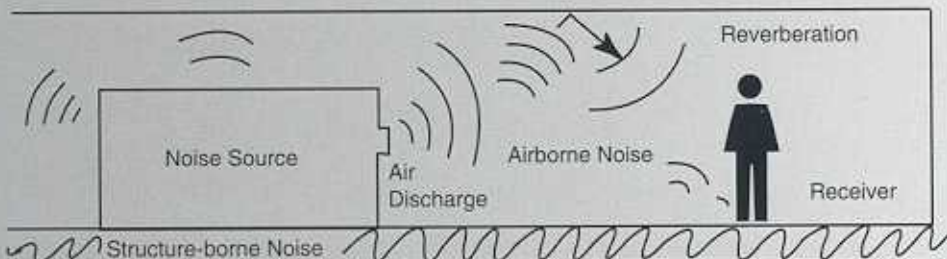
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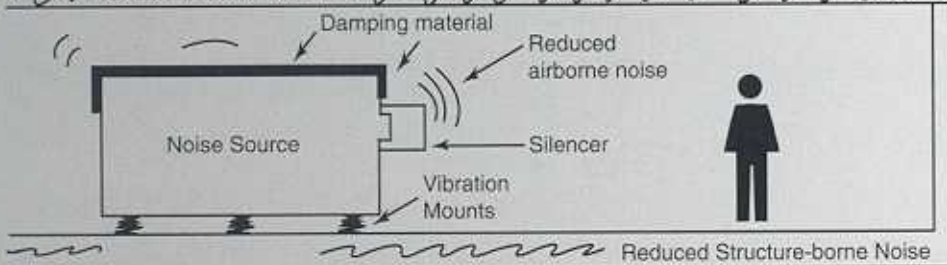
Have a noise-free day!



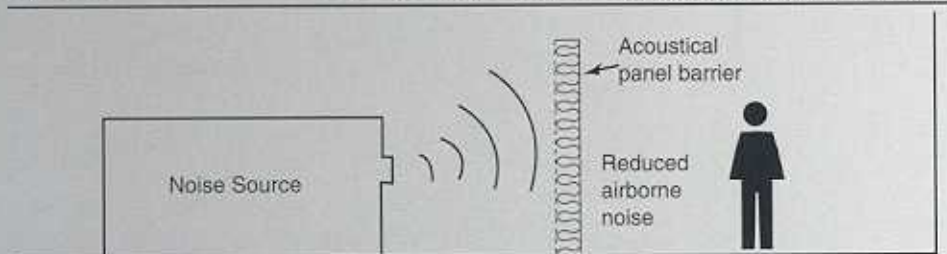
MULTI-PATH NOISE CONTROL SOLUTIONS!



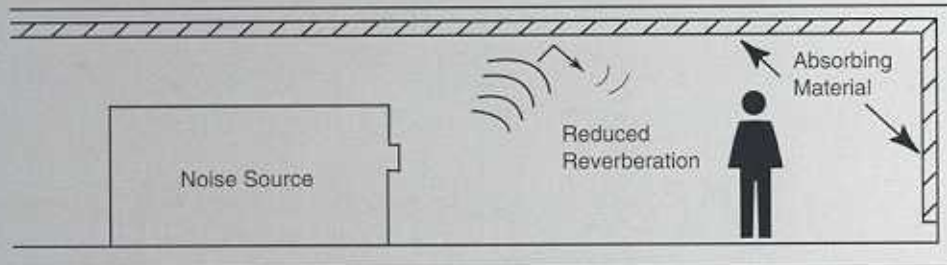
Typical Application Without Treatment



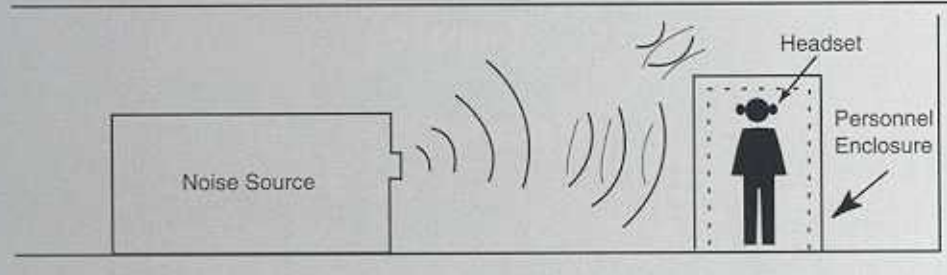
Airborne & Structure-borne Source Control



Direct Path Control



Indirect Path Control



Receiver Control

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MINE SAFETY AND HEALTH ADMINISTRATION (MSHA) NOISE RULE 30 CFR PART 62 MAJOR PROVISIONS

Issue	Description	Definition
Action Level (AL)	The time-weighted average (TWA) exposure which requires program inclusion, hearing tests, training, and optional hearing protection.	AL=85 dBA TWA. AL is exceeded when TWA≥85 dBA, integrating all sounds from 80 to at least 130 dBA.
Permissible Exposure Limit (PEL)	The TWA, which when exceeded, requires feasible engineering and MSHA administrative controls, and mandatory hearing protection.	PEL=90 dBA TWA. PEL is exceeded when TWA > 90 dBA, integrating all sounds from 90 to at least 140 dBA (see 62.101, Definitions).
Exchange Rate	The rate at which exposure accumulates; the change in dB TWA for halving/doubling of allowable exposure time.	5dB
Ceiling Level	The limiting sound level above which employees cannot be exposed.	"P" code violation issued for any protected or unprotected exposures>115 dBA SPL.
Monitoring	Assessment of noise exposure.	Mine operator must establish system to evaluate each miner's exposure sufficiently to determine continuing compliance with rule.
Noise Control	Investigation and implementation of feasible engineering and administrative control measures.	Feasible engineering and administrative controls required for TWA>90dBA; even if controls do not reduce exposure to the PEL, they are required if feasible (i.e. ≥ 3 dBA reduction). No credit for HPD allowed. Administrative controls must be provided to the miner in writing and posted.
Hearing Protection	Exposure requirements and conditions for use of hearing protection devices (HPDs).	Optional for ≥ 85 dBA TWA; mandatory for > 90 dBA TWA, or for ≥ 85 dBA TWA for workers with STS. Amount of protection not specified; choices must include 2 plugs and 2 muffs. Double hearing protection (muff plus plug) required at exposures > 105 dBA TWA.
Supervisor of Audiometric Testing	The person responsible for conducting audiometric tests, and is the reviewer of audiograms.	Licensed or certified audiologist, or physician.
STS Standard Threshold Shift	A change in hearing compared to an earlier (baseline) hearing test that requires follow-up action.	≥ 10 dB average shift from baseline hearing levels at 2000, 3000 and 4000 Hz in either ear.
STS Retests	Follow-up audiogram that is permitted or required when initial STS is detected.	May obtain retest within 30 days and substitute for annual audiogram.
STS Follow-up	Required actions when an STS is detected.	Notify worker within 10 days; unless STS is not work-related, must retrain the miner, provide miner an HPD or a different HPD, and review effectiveness of any engineering and administrative controls to correct deficiencies.

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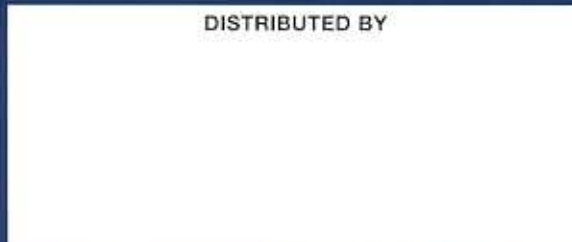


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