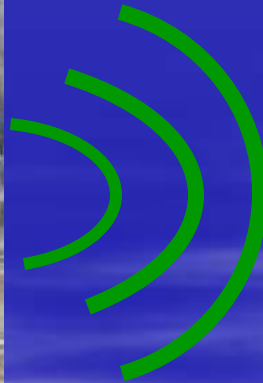


# **SURFACE NOISE CONTROLS**

# Source



# Path



# Receiver



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

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



# BARRIERS ON DRILL MASTS





# DRILL EXHAUST MUFFLERS



# HAMMER COVERS





**Drill**

**Barrier**

**Shadow Zone**



**Operator**

# HOMEMADE BARRIERS FOR DRILL OPERATORS





# THREE SIDED ENCLOSURE



# OPERATOR CONSTRUCTED CABS

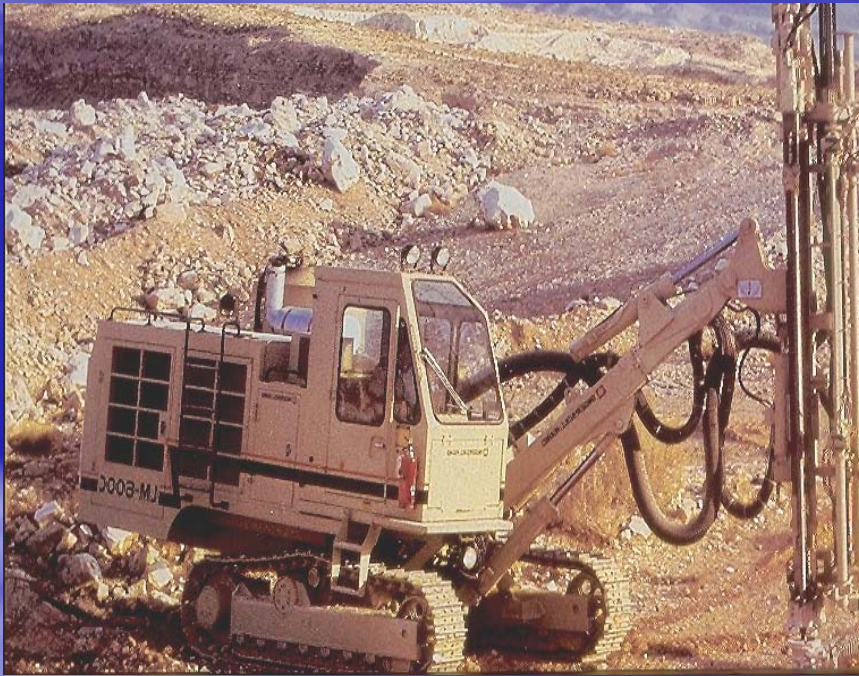




# Former Farm Equipment Cab Converted To A Portable Crusher Booth



# Original Equipment Manufacturers Cabs





# OPERATOR & HELPER CABS





# INTERIOR RETROFIT

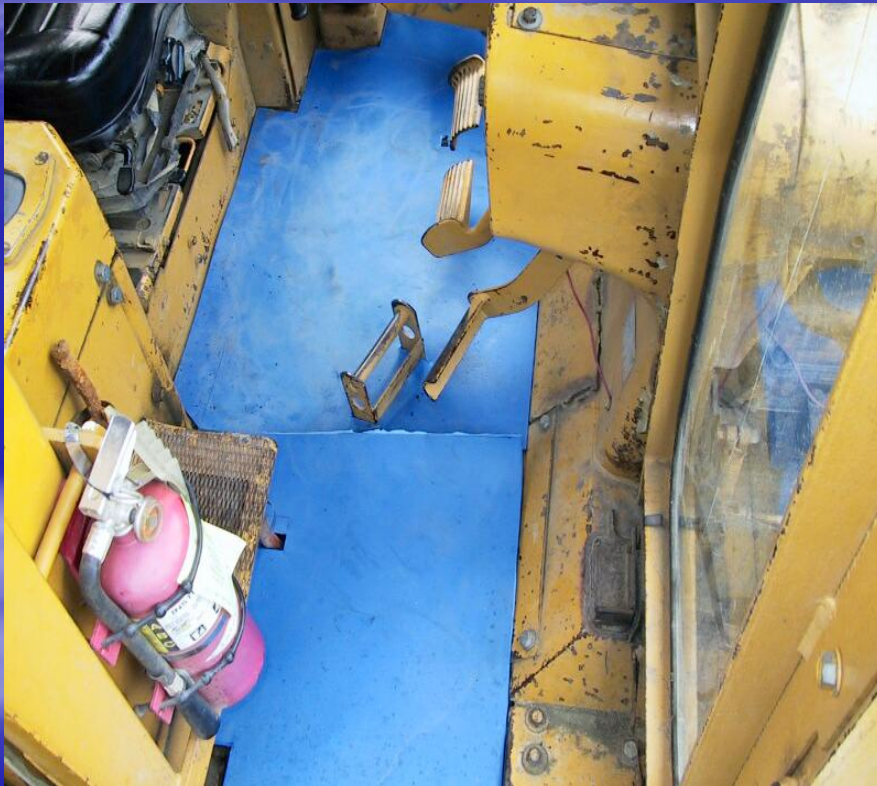




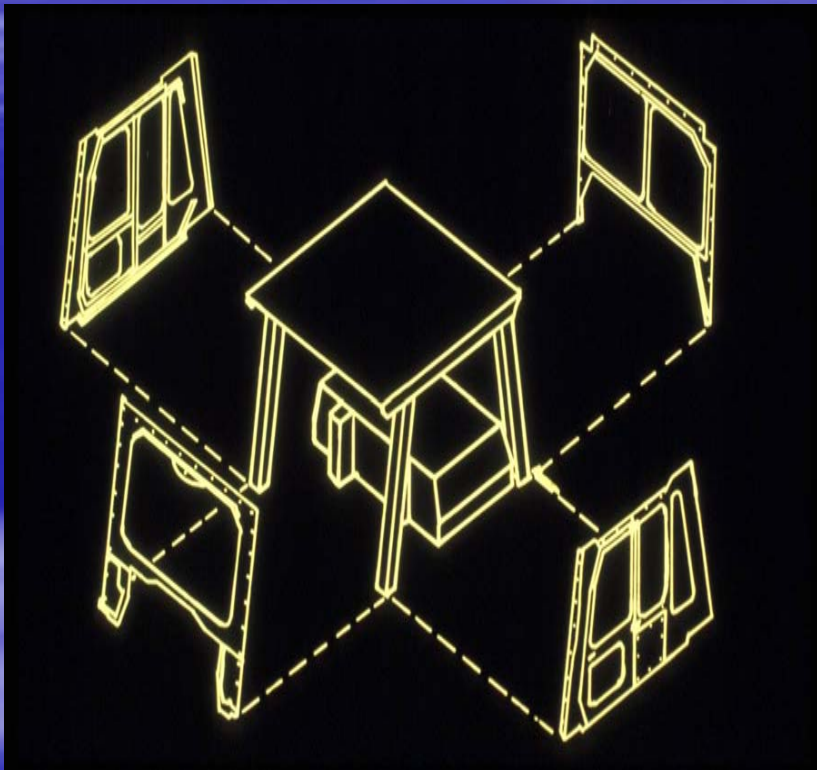
# FLOOR TREATMENT

VIBRATION DAMPING

ACOUSTICAL FLOORMAT



# AFTER MARKET SKIN KIT





# THE HOPPER IS MONITORED FROM THE CONTROL BOOTH



Camera



# OPERATOR CONSTRUCTED ENGINE COVER





# Maintain Your Noise Controls

- Exhaust components should be inspected and repaired when needed
- Barriers should be cleaned and inspected
- Acoustical materials should be replaced when worn or removed for servicing
- Cabs or booths should be maintained
- Engine covers should remain on when in use

# Additional Resources

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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.

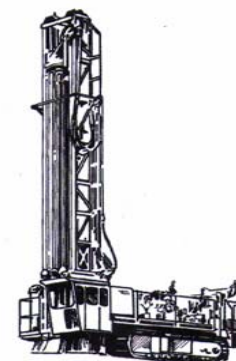
## Information

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

## Noise Control Resource Guide - Surface 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**