

MSHA Safety Services Inc.

2025 **Preparations** for the Part 60 Silica **Standard**

307-227-6742

Outline of Presentation

- Introduction (5 min)
- Overview of Standard (10 min)
- ► How to Develop Representative Groups (5 min)
- Conducting IH Sampling (5 min)
- Installing Engineering Controls (5 min)
- Developing IH Program (5 min)
- Contractors (5 min)
- Conclusion (5 min)
- Questions (10 min)



Who we are? MSHA Safety Services Inc

- ▶ We are experienced Part 46/48 Safety Trainers
- Hands-on consulting support (safety audits, management training, citation support, etc.)
- ► We work with over 2000 companies
- County/State Permitting support
- ► IH Exposure assessments
 - Noise
 - Dust



Timeline

Final Rule

- Final rule announced = April 16
- Final rule in Federal Register = April 18
- ▶ Went into effect in 60 days = June 17, 2024
- ► Full compliance Coal = April 17, 2025
- ► Full compliance MNM = April 8, 2026



General

- ▶ New Part 60 added Respirable Crystalline Silica
 - One unified rule for MNM and coal
 - ► There are numerous differences for coal and MNM throughout the rule though



Standards 30 CFR Part 60

- Section 60.1 Scope; compliance dates.
- Section 60.2 Definitions.
- Section 60.10 Permissible exposure limit (PEL)
- Section 60.11 Methods of compliance
- Section 60.12 Exposure monitoring
- Section 60.13 Corrective actions
- Section 60.14 Respiratory protection
- Section 60.15 Medical surveillance for metal and nonmetal mines
- Section 60.16 Recordkeeping requirements
- Section 60.17 Severability



PEL and AL

- ▶ § 60.10 Permissible exposure limit (PEL)
 - ► PEL drops to 50 micrograms/cubic meter of air; full-shift exposure, 8-hour TWA
- ▶ § 60.12
 - Action Level set at 25 micrograms/cubic meter of air



§ 60.11 - Methods of Compliance

- Required to install, use, and maintain feasible engineering and administrative controls
- Engineering controls (primary) > administrative controls (supplementary)
- ▶ § 60.11 (a) Engineering controls can include:
 - Ventilation systems
 - Dust suppression devices
 - Enclosed cabs or control booths with filtered air
 - Changes in material handling, equipment used in a process, ventilation, and dust capture
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§ 60.11 - Methods of Compliance Con't

- ▶ § 60.11 (b) Administrative Controls
 - Housekeeping
 - Proper work positions of miners
 - Cleaning spills
 - Prevent/minimize contamination of clothes
 - ► Rotation of miners <u>prohibited</u> as an administrative control (p 169)
- Respirators
 - MSHA has referenced ASTM F3387-19



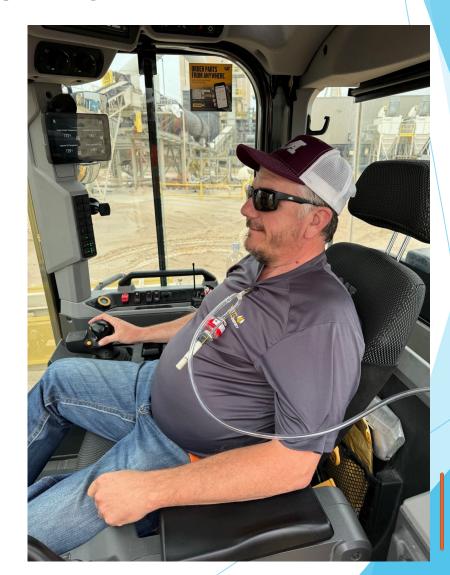
Representative Groups

- What does this look like?
 - ► SEG's vs Representative Groups
- ► How do we build these groups?
 - Breaking down by:
 - Exposure potential
 - Representative work being performed



Conducting IH Sampling

- Placed in breathing zone
- ► Full Shift
- Relationship with Lab
- Follow proper procedures (Pre/Post Calibrations sequences)
 - M/NM NIOSH 0600/7500 (XRD)
 - ► Coal 7602 (FTIR)



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Engineering Controls

- Post IH Sampling
 - ▶ Belting Options (scrapers, etc.)
 - ► In Cab Controls
 - Wet Methods
 - Transfer Points (draw off/wet methods)
 - ► Maintenance Program
 - ► Others controls??



Developing IH Programs

- Sampling Results
- Representative Group Determination
- Respiratory Protection Program (F3387-19)
- Qualitative Review Document/Appendix
- Methods you followed (ie 7500, compliance with Part 60, etc.)



Contractors

- ► Which contractors have to meet compliance with this new standard?
 - **▶** Drillers
 - Mining
 - **►**Maintenance
 - **Construction**



How Can We Support?

- MSHA Safety Services in creating solutions to assist with this journey.
- We are already working over 100 mines across the US to support this process.
- We offer full services support of sampling and program creation or other parts. We provide support you we provide citation assistance support and training to management.
- We have 2 day IH sampling classes where we train you to run these samples yourself (1 day class, 1 day field sampling)

Contact Info

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Meeting Scheduler



