



# **MSHA Safety Services Inc.**

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

# 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





# § 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 prohibited 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)



# 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

