Certified Person Responsibilities

Sampling for Respirable Dust

Pre-shift Check of the Sampling Equipment

Coal Mine Dust Personal Sampling Unit (CMDPSU):

- Examine all components of the cyclone assembly including the interior of:
  - the connector barrel
  - vortex finder
  - cyclone body
  - grit pot
- Examine the inner surface of the cyclone for scratches or scoring
- Examine the external hose connecting the pump to the sampling head assembly to assure it is clean and free of leaks
- Examine the clamping and positioning of the cyclone body, vortex finder and cassette to assure they are rigid, in alignment, firmly in contact and airtight
- Test the voltage of the battery while under actual load

Continuous Personal Dust Monitor (CPDM):

- Follow the pre-operational examinations, testing and set-up procedures recommended by the manufacturer
- Perform necessary external maintenance recommended by the manufacturer
- Perform other required scheduled examinations and maintenance procedures recommended by the manufacturer
Who can perform the pre-shift checks?
- A certified person sampling
- A certified person maintenance and calibration

When are the pre-shift checks to be made?
- No more than 3 hours prior to the shift the sampling unit will be used to collect respirable dust samples

What is required on on-shift checks of the sampling equipment?
- It is in the proper location
- It is operating properly
- It is operating at the proper flow rate

When are the on-shift checks required?
- If using a Coal Mine Dust Personal Sampling Unit (CMDPSU):
  - during the second hour after being put into operation and in the last hour of operation
- If using a Continuous Personal Dust Monitor (CPDM):
  - mid-shift or
  - as specified in the ventilation plan

Who can perform the on-shift checks?
- A certified person sampling

Who signs the dust data card?
- The certified person sampling that performed the on-shift checks

If you have questions about any occupational health matter, please contact your local MSHA office or MSHA’s national office at (202) 693-9500.

Our job is to protect your health

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