## RESPIRABLE DUST RULE PHASE II STAKEHOLDER MEETING BECKLEY, WV



### MARCH 24, 2016

## Outline

- Rule Review Dates of Implementation
- Sampling General Information
- Review of Compliance Criteria
- Quartz
- CPDM 3700

## **General Sampling**

- Sampling is full shift, portal-to-portal
- When sampling shifts longer than 12 hours, the CPDM must be switched out before the start of the 13<sup>th</sup> hour
- Miners expected to wear CPDM must be trained on CPDM prior to wearing it and retrained every 12 months
  - The importance of monitoring dust concentrations and properly wearing the CPDM
  - Clip-on sample inlet assembly should be attached to the miner's lapel or pocket
  - Inlet is not to be obstructed by clothing
  - How to display information screens and what the information is
  - How to start and stop second sampling runs
- Operator must keep record of the training for 24 months after completion of the training

Includes: date of training, name of miner, and subject trained

## Duties – Certified Person; Sampling

- Program the CPDM for compliance sampling
- Ensure the miner(s) being sampled are properly wearing the CPDM at all times
- Monitor concentrations and status conditions at mid-shift or more frequently
  - Assure sampling device is in correct location
  - Assure CPDM is operating properly
  - Assure work environment remains in compliance with applicable standard
  - Transmit compliance samples to MSHA electronically within 24 hours of the end of each sampling shift
  - Also note any samples that were not taken on a normal work shift

## Duties – Certified Person; Sampling

#### (Continued)

- Provide each part 90 miner a paper record of the sample run within an hour after the start of the miner's next work shift
- Must check CPDM within 3 hours before the sampling shift to assure operational readiness
  - If not in proper working order, arrange for or conduct appropriate procedures to put CPDM into working condition
  - \*In the event that a unit were to fail the preoperational check during the pre-shift warm-up period, the operator would either use another CPDM for sampling, or notify the District orally and in writing that sampling will not occur because a CPDM is not available
  - Checks Includes:
    - Required cleaning
    - Installation of a new filter

### Duties – Certified Person; Sampling - CPDM (Continued)

Except for Part 90 Miners, within 12 hours of the end of a sampling shift post the dust data card with the mine ID number, shift length, location sampled, equivalent concentration reported, and status conditions encountered (if any are recorded by the CPDM)

### Do not post a dust data card for part 90

- Dust data card posted must remain posted until an MSHA report covering these respirable dust samples is received\*
- Ensure that the data transmitted to MSHA is kept for at least 12 months\*

# Duties – Certified Person; Sampling

- Upon request from the District Manager (DM), the operator must submit the date and time any sampling required by the rule is scheduled to start. This information must be submitted at least 48 hours before the scheduled sampling\*
- Regarding the transmission of samples by the certified person to MSHA, all samples collected are to fulfill regulatory requirements unless the sample has been identified in writing to the District Manager prior to the sampling shift as a sample to be used for some other purpose

\* Responsibility of the operator which the certified person; sampling or maintenance and calibration can complete

### Duties – Certified Person; Sampling



Not permitted to perform calibrations (is allowed to perform flow audit, not flow calibration)



Not permitted to open CPDM case



.msha file must not be altered in any way and must be maintained for at least 12 months



Certification in sampling with the CPDM is required in order to collect samples with CPDM

### ECV

### (Excessive Concentration Value)

Accounts for margin of error between true dust concentration and observed dust concentration measurement. The appropriate chart for instrument, number of samples and standard must be utilized (Table 70-1 is one Example).

VALUES		
	EC	
	(mg/	'm²)
Applicable standard (mg/m <sup>3</sup> )	CMDPSU	CPDN
2.0	2.33	2.2
1.9	2.22	2.1
1.8	2.12	2.0
1.7	2.01	1.9
1.6	1.90	1.8
1.5	1.79	1.7
1.4	1.69	1.5
1.3	1.59	1.4
1.2	1.47	1.3
1.1	1.37	1.2
1.0	1.26	1.1
0.9	1.16	1.0
0.8	1.05	0.9
0.7	0.95	0.7
0.6	0.85	0.6
0.5	0.74	0.5
0.4	0.65	0.4
0.3	0.54	0.3
0.2	0 44	0.2

9

## Noncompliance

### **Operator Sampling**

Based on:

- 2 or more of 5 valid respirable dust samples from a DWP, DA or Part 90 miner are ≥ ECV
- 3 or more of 15 valid respirable dust samples from a DO or ODO are ≥ ECV
- "Or" the average for all valid respirable dust samples in a sampling set are ≥ ECV (average of 5 or 15)

### MSHA Sampling

■ A single valid respirable dust sample ≥ ECV (single sample)

## Abatement

(Continued)

Upon issuance of a citation for excessive dust – sequential actions to be taken.

- Make approved respirators available
- Immediately take corrective action to lower respirable dust levels to at or below the applicable standard
- Make record of corrective actions taken
- Certified by mine foreman or equivalent no later than the end of the mine foreman's or equivalent officials next regularly scheduled working shift

In secure book or electronically

Retained at a surface location at the mine for at least 1 year

Available for inspection by MSHA

 Within 8 calendar days after the date the citation is issued, sample the entity on consecutive normal production shifts until 5 valid respirable dust samples are collected

### **MMU** Sampling

- DO and ODO sampling must be conducted on consecutive normal production shifts
  - material produced by an MMU is at least 80 percent of the 30 shift average
  - The 30 shift average is a running average. The most recent production shift must be used in determining the 30 shift average

- Intake air for an MMU must meet the intake air standard anywhere <u>within</u> 200 feet outby the working faces of each section
- DOs on an MMU are required to be sampled before sampling ODOs

### Quartz

- Environment must be maintained at or less than 100 micrograms per cubic meters (100 µg/m<sup>3</sup>) based on an MSHA sample
- A reduced standard will be established if respirable quartz dust exceeds 100 µg/m<sup>3</sup> (0.100 mg/m<sup>3</sup>)
- When the dust standard is changed, the new standard becomes effective 7 calendar days after notification from MSHA

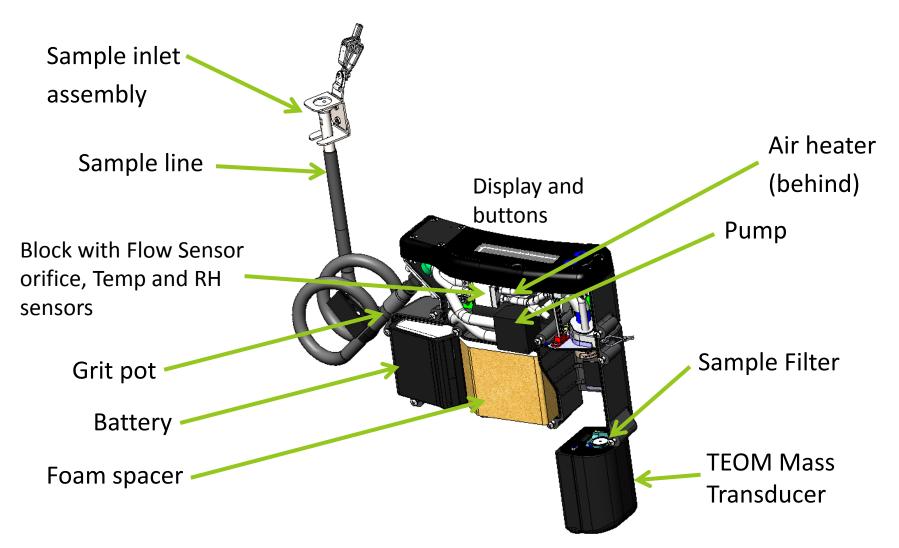
## CPDM (PDM 3700)

- Charging
- Programming
- Sampling Screens
- Status Codes
- Troubleshooting
- Cleaning and Changing Filters
- Downloading and Transmitting Data
- Items to Remember



- Run time of 12 hours battery recharging time of 6 hours
- Heated internal sample line removes excess moisture
- Measures concentration of respirable dust without regard to composition
- Display has bright, large characters for easy readability

### Main System Components



### Purpose

- The CPDM unit is a device designed to provide a continuous readout of respirable coal mine dust concentrations during the work shift
- Only current approved CPDM unit is the PDM3700



## **Charging PDM Unit**

### **Charger Lights**

### Red

- Solid:
- Flashing:

Charging Problem with charger or connection

### Green

- Solid:
- Flashing:
- Fully charged 80% charged minimum





Keep PDM unit on charge when not in use. If PDM unit is not used within 3 months, run down PDM unit and recharge. Do not charge in environment below  $32^{\circ}F(0^{\circ}C)$ 

## **Opening WinPDM**

File View

**Thermo Scientific** 

Help

 Use of WinPDM software requires Windows operating system

Click button on top left corner of screen

 Choose connection type COM1 and click "OK"





### Programming the PDM Unit

Computer-programmed Start

- Program PDM unit from computer:
  - 30 MIN CONC, CUM1, CUM2 measurements are available
  - Required method for compliance sampling
  - Can only be stopped by computer or when allotted sampling time ends



### **PDM Unit and Computer Connections**

Connect PDM unit to charging unit



 Connect charging unit to serial port on computer with RS232 Cable or via a RS232/USB adapter



## Information to Get Started

#### 2 Buttons



is the "wake up" button (blank screen)





is the "scroll" button



When not programmed the PDM displays idle screen: serial number and firmware version



# Warm-up Time

- PDM unit will automatically start a warm-up period of 35 minutes prior to <u>ANY</u> sampling type's start time
- During warm-up period, the PDM will display the time remaining until sampling starts

### Program PDM Unit from Computer

- Connect PDM unit to charging unit
- Connect charging unit to personal computer
- Open WinPDM software
- Click "Program Shift"

Thermo Scientific WinPDM File View Options Window Help		
File View Options Window Help		
PDM - COM1		
Program         Program         Program         Warm-up         Sample         Stop	ed To PDM	Serial Number: 37015040266 Standard Operations Download Sample Leak Check Flow Calibration Diagnostics K0 Audit Tilt Audit
Last Service: 02/27/2016		Done

Thermo Scientific WinPDM		affective of	an include the second second
ile View Options Window Help			
<b>8</b>			
PDM - COM1			
Wearer ID Joe Miner - Roof Bolter ODO		Current Time 3/18/2016, 13:46:23	Warm-up Start Time 3/18/2016, 15:25:00
Mine ID Number 4600000	Contractor Code	Sample Start Time 3/18, 16:00 🛟	Sample Time (hrs:mins)
Mine Name ABC Mine		Type of Sample 2 Other Designated Occupation 💌	Sample Time (minutes) 540
Company Name XYZ Mining Company LLC		Average Expected Temperature 60 - 72°F (16 - 22°C)	Respirable Dust Standard
MMU DA/SA 9010		Part 90 Miner Sampled MIIN	MRE Equivalent Enabled
Occ Code 014 ROOF BOLTER (TWIN HEA	D) (RET ORN SIDE)	-	
Auto Shift Setup	sday 🗆 Wednesday 🗖	Thursday 🗖 Friday 🗖 Saturday	
PDM Firmware Version: 0.00	NOTICE - Knowingly ma representation, or certifica violation of the federal crin punished by a fine or by in	ation on this document is a minal code which may be	Clear Fields DK Cancel
This should be the temp temperature it is expose		unit will begin and end the sa day.	ampling shift, <u>NOT</u> the

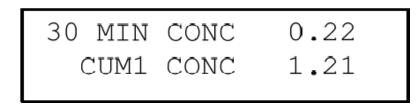
### Programming – Notes

The temperature entered should reflect the environment in which the CPDM will start and end the shift (where it charges).

The wearer ID can be the miner's MIIN, company's employee number or whatever other means the mine has to identify the employee (The SSN MUST NOT be entered as the wearer ID )

## First Sample Screen

(Default screen for programmed start)

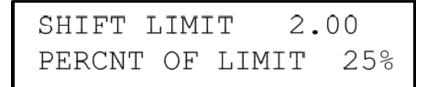


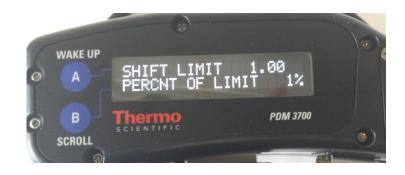


**30 Min Conc:** Average concentration for the past 30 minutes

Cum1 Conc:Average concentration from the<br/>beginning of the shift (updated every<br/>minute)

### **Shift Concentration Limit**





Shift Limit:

#### (applicable standard)

Shift concentration limit for the full-shift sample

**Percent of Limit:** 

Percentage of exposure of the fullshift limit

## Bar Graph Screen (Press B)





- 30-minute average for each bar
- New bar added every 30 minutes



PDM must operate for 30 minutes before bar graphs are available

## Sample Duration Screen (Press (B))

ELAPSED TIME: 001:15 PROGRAM TIME: 008:00



### **Elapsed Time:** From start of sample

### Program Time:

For entire sample

## Blinking "S"

(Upper Right Corner)



**Status Condition Encountered** 



### **Status Screen**

- Indicates a status condition encountered
- "S" remains for sample duration
- "S" restarts blinking if new status condition is logged

## **View Status Codes**



## PDM3700 Firmware Status Codes

Status Code	Description
TE not detected	Mass transducer not detected
High filter load	Differential pressure approaching maximum
Flow out of range	Flow rate is out of allowable range
Mass offset	The PDM3700 has gained or lost mass over a short period of time
CPU fault	A CPU fault was detected
Power low	Power remaining in the battery has reached a critically low level
TE Frequency	The TEOM frequency is out of range
CPDM CPU reset	The PDM3700's CPU was reset
Power low shutdown	The PDM3700 was shutdown due to insufficient power
TE Temp out of range	The difference between the mass transducer and the setpoint is greater than 1°C 33

## **Downloading Data**

- Connect PDM unit to charging unit
- Connect charging unit to computer
- Open WinPDM software
- Choose a connection type
- Click "Download Sample"
- Highlight desired sample
- Click "Download"
- Save status file if available
- Save data file
- Click "Done"

🔤 PDM - COM1	
23:10:00, Wednesday, 05/20/2009 - 09:39:45, Thursday, 05/21/2009 (64550 22:24:31, Wednesday, 05/20/2009 - 23:06:41, Wednesday, 05/20/2009 (44 15:58:02, Wednesday, 05/20/2009 - 16:58:03, Wednesday, 05/20/2009 (65	75 Bytes)
Download	Cancel

### Items to Remember

### Use appropriate software

WinPDM 7.52 (or higher) software should be installed on the computer.

### Wipe down connectors

Always wipe down the connectors on the PDM unit and charging bracket to obtain a good connection. Using an alcohol swab is recommended

## **Downloading Data**

- .msha files are the only file extensions to be submitted for compliance
- Status code files do not need to be submitted. Status codes are included in the .msha file as well as .csv files

(MSHA will evaluate status code entries to determine if the sample is valid – simply having a status code does not determine if sample is valid or not)

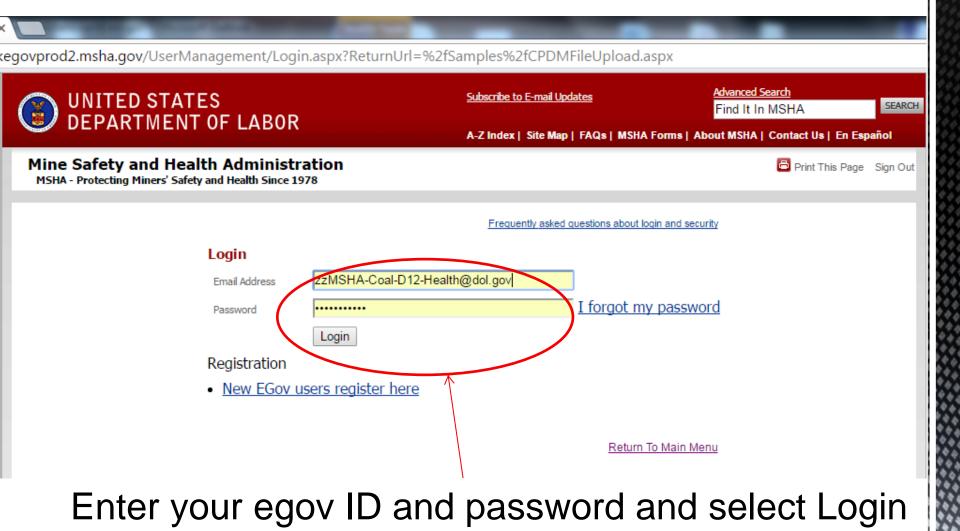
Vearer ID		40266)	Mine ID Number		
xyz			1212121		
Contractor Code			Mine Name		
0			abc Date Sampled Tuesday, March 15, 2016 16:00:00 Type of Sample (E) Engineering Study		
Company Name					
cde					
Sampling Time (mi	inutes)				
978					
MMU DA/SA			Occ Code		
0011			000 Certified Person MIIN M0000000		
Part 90 Miner Sam	pled MIIN				
(N/A)					
Results			Status Conditions		
MRE Equivalent:			03/16/2016 08:13:36 - POWER LOW		
	tandard: 2.00 mg/m²		03/16/2016 08:18:36 - POWER LOW S	HUTDOWN	
EOS Final Concer	utration: 0.004 mg/m³				
	ncentration (mg/m <sup>a</sup> )				
0.08					
0.05 -					
).03 - L					
			Ļ		
- L	1			- U U	
1.00 j 🗀					
0.03					
0.03	03/15/2016	03/16/2016	03/16/2016	03/16/2016	
0.03	03/15/2016 20:04	03/16/2016 00:09	03/16/2016 04:13	03/16/2016 08:18	
0.03 )3/15/2016 16:00 Cumulative Mass C					
0.03- 03/15/2016 16:00	20:04				
0.03 )3/15/2016 16:00 Cumulative Mass C	20:04				
0.03 )3/15/2016 16:00 Cumulative Mass C	20:04				
0.03 03/15/2016 16:00 Cumulative Mass C	20:04				
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0.03 03/15/2016 16:00 Cumulative Mass C 0.08	20:04				
0.03 03/15/2016 16:00 Cumulative Mass C 0.08 0.05 0.03	20:04				
0.03 03/15/2016 16:00 Cumulative Mass C 0.08 0.05 0.03	20:04			08:18	
0.03 0.75/2016 16:00 0.08 0.05 0.05 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.04 0.04 0.04 0.04 0.04 0.04 0.04 0.04 0.04 0.05	20:04				
0.03 16:00 Cumulative Mass C 0.05 0.05 0.03 0.03 0.03	20:04 Concentration (mg/m³)	00:09	04:13	08:18	
0.03 16:00 Cumulative Mass C 0.05 0.05 0.03 0.00 0.03 0.00 0.03 0.04 0.04 0.05	20:04 Concentration (mg/m³)	00:09	04:13	08:18	
0.03 0.75/2016 16:00 0.08 0.05 0.05 0.03	20:04 Concentration (mg/m³) 03/15/2016 20:04	00:09	04:13	08:18	
0.03 0.75/2016 16:00 0.05 0.05 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.04 0.05 0.03 0.05	20:04 Concentration (mg/m*) 03/15/2016 20:04 0 Shifts: 350 tens	00:09	04:13 1 03/16/2016 04:13	08:18	
0.03 0.75/2016 16:00 0.08 0.05 0.05 0.03	20:04 Concentration (mg/m*) 03/15/2016 20:04 0 Shifts: 350 tens	00:09	04:13 1 03/16/2016 04:13	08:18	
0.03 0.03 16:00 Cumulative Mass C 0.05 0.05 0.03 0.05 0.03 0.03 0.04 0.03 0.05 0.03 0.04 0.05 0.03 0.05 0.03 0.05 0.03 0.04 0.05	20:04 Concentration (mg/m*) 03/15/2016 20:04 0 Shifts: 350 tens	00:09	04:13 1 03/16/2016 04:13 Tons This Shift: 350 tons	08:18	
0.03 0.15/2016 16:00 Cumulative Mass C 0.05 0.05 0.03	20:04 Concentration (mg/m*) 03/15/2016 20:04 0 Shifts: 350 tens	00:09	04:13 1 03/16/2016 04:13 Tons This Shift: 350 tons	08:18	

a violation of the federal criminal code which may be punished by a fine or by imprisonment or both.

**Dust Data Card** 

ia.gov/endblacklung/cpdm.asp 🔎 🗕 CPDM Samp	le File Transmi ×			
Mine Safety and Health A 🗿 Web Slice Gallery 🔻				
UNITED STATES DEPARTMENT OF LABOR	Subscribe to Email Updates		onal Search Options It at MSHA SEAR	сн
Mine Safety and Health Administration - MSHA - Protecting Miners' Safety and Health Since 1978	A-Z Index   Site N		HA Forms   Contact Us   Esp Print This Page Was this page helpful?	añol
	ile Transmission			
Coal mine operators can transmit Continuous Personal Dust N previously uploaded files using the links below.	1onitor (CPDM) sample files	to MSHA and	check the status of	
If you have trouble transmitting or have transmission questio 778-6055.	ons, contact MSHA's Help De	sk at <u>desk.he</u> l	l <u>p@dol.gov</u> or (877)	
Upload CPDM sample files     Digital Dashboard - Sheck the status of successfully upload	ded CPDM sample files			

### Click this link to begin the upload process



#### eGov Forms > CPDM File Upload

#### Welcome to the Coal Mine Respirable Dust CPDM File Upload Site

Within twenty-four hours of the end of each sampled shift, Continuous Personal Dust Monitoring files must be uploaded to MSHA. For more information visit <u>http://www.msha.gov/endblacklung.</u>

Use the fields below to upload and send files to MSHA for processing.

#### **CPDM Upload Information**

(\*required field) 1. Click the "Browse" button, then select a CPDM Sample file to be sent to MSHA

- 2. Click the "Add File to List" button
- 3. The file will appear in Selected Files
- 4. Repeat steps 1 3 for each additional CPDM Sample file to be sent to MSHA
- 5. Click the "Submit Samples to MSHA" to upload the CPDM sampling file(s)
- 6. A confirmation message will be displayed once the transfer is complete

UPLOADED BY: DATE/TIME: Coal12 Health

3/22/2016 9:12:28 PM MDT

\*Upload CPDM Files (Max count of files that can be uplodaded : 15)

Choose File No file chosen

Add File to List

\*Selected Files (0)

Click here to select the file you want to add to the Selected Files box.

Cancel Submit Samples to MSHA

If you have trouble transmitting or have transmission questions you may contact MSHA's Help Desk by Email at desk.help@dol.gov or by calling (877) 778-6055.

O Open			~	-	×
CPDM Test			<b>▼</b> 4j	Search CPDM Test	٩
Organize 🔻 New folder				== •	
★ Favorites	Name	Date modified	Туре	Size	<u>^</u>
🧮 Desktop	20160125-08-0000000931-0101401-A.MS	1/25/2016 12:57 PM	MSHA File	197 KB	
🔒 Downloads	20160125-08-0000000932-0101401-A.MS	1/25/2016 12:57 PM	MSHA File	197 KB	
🕮 Recent Places	20160125-08-0000000933-0101401-A.MS	1/25/2016 12:57 PM	MSHA File	197 KB	
E	20160125-08-0000000934-0101401-A.MS	1/25/2016 12:57 PM	MSHA File	197 KB	
🥽 Libraries	20160125-08-0000000935-0101401-A.MS	1/25/2016 12:57 PM	MSHA File	197 KB	=
Documents	20160125-08-0000000936-0101401-A.MS	1/25/2016 12:57 PM	MSHA File	197 KB	
J Music	20160125-08-0000000937-0101401-A.MS	1/25/2016 12:57 PM	MSHA File	197 KB	
E Pictures	20160125-08-0000000938-0101401-A.MS	1/25/2016 12:57 PM	MSHA File	197 KB	
Videos	20160125-08-0000000939-0101401-A.MS	1/25/2016 12:57 PM	MSHA File	197 KB	
	20160125-08-0000000940-0101401-A.MS	1/25/2016 12:57 PM	MSHA File	197 KB	
🖳 Computer	20160125-08-0000000941-0101401-A.MS	1/25/2016 12:57 PM	MSHA File	197 KB	
🏭 Windows Volume (C:)	20160125-08-0000000942-0101401-A.MS	1/25/2016 12:57 PM	MSHA File	197 KB	
👝 User Data Volume (D:) 🔻	20160125-08-0000000943-0101401-A.MS	1/25/2016 12:57 PM	MSHA File	197 KB	-
File name:			•	All Files	•
				Open 🔽	Cancel
SPIPITPITPITS TH					

### Select the appropriate file

#### eGov Forms > CPDM File Upload

#### Welcome to the Coal Mine Respirable Dust CPDM File Upload Site

Within twenty-four hours of the end of each sampled shift, Continuous Personal Dust Monitoring files must be uploaded to MSHA. For more information visit <u>http://www.msha.gov/endblacklung.</u>

Use the fields below to upload and send files to MSHA for processing.

#### **CPDM Upload Information**

(\*required field)

- 1. Click the "Browse" button, then select a CPDM Sample file to be sent to MSHA
- 2. Click the "Add File to List" button
- 3. The file will appear in Selected Files
- 4. Repeat steps 1 3 for each additional CPDM Sample file to be sent to MSHA
- 5. Click the "Submit Samples to MSHA" to upload the CPDM sampling file(s)
- 6. A confirmation message will be displayed once the transfer is complete

UPLOADED BY:

Coal12 Health

DATE/TIME:

3/22/2016 9:12:28 PM MDT

\*Upload CPDM Files (Max count of files that can be uplodaded : 15)

Choose File 20160125-08-0000000931-0101401-A.MSHA

\*Selected Files (0)

Click here to place the file in the upload list. Repeat this process until you have the desired files in the Selected Files box, up to a maximum of 15.

Add File to List

within twenty-rour nours of the end of each sampled shift, Continuous Personal Dust Monitoring files

must be uploaded to MSHA. For more information visit http://www.msha.gov/endblacklung.

Use the fields below to upload and send files to MSHA for processing.

#### CPDM Upload Information

(\*required field)

- 1. Click the "Browse" button, then select a CPDM Sample file to be sent to MSHA
- 2. Click the "Add File to List" button
- 3. The file will appear in Selected Files
- 4. Repeat steps 1 3 for each additional CPDM Sample file to be sent to MSHA
- 5. Click the "Submit Samples to MSHA" to upload the CPDM sampling file(s)
- 6. A confirmation message will be displayed once the transfer is complete

UPLOADED BY:

Coal12 Health

DATE/TIME:

3/22/2016 9:12:28 PM MDT

\*Upload CPDM Files (Max count of files that can be uplodaded : 15)

Choose File No file chosen

Add File to List

\*Selected Files (1)

20160125-08-0000000931-0101401-A.MSHA

Click here to upload all files in the Selected Files box to MSHA.

Remember that only .msha files should be transmitted.

### **Digital Dashboard**

ia.gov/endblacklung/cpdm.asp 🔎 🕈 [CPDM Sample]	File Transmi ×			
Mine Safety and Health A 🗿 Web Slice Gallery 👻				
UNITED STATES DEPARTMENT OF LABOR	Subscribe to Email Updates     Additional Search Options       SUBMIT     Find It at MSHA     SEARCH			
	A-Z Index   Site Map   FAQs   MSHA Forms   Contact Us   Español			
Mine Safety and Health Administration - MSHA - Protecting Miners' Safety and Health Since 1978	Image: SHARE       Image: Share       Print This Page         ★Was this page helpful?			
CPDM Sample Fil	le Transmission			
Coal mine operators can transmit Continuous Personal Dust Mo previously uploaded files using the links below.	onitor (CPDM) sample files to MSHA and check the status of			
If you have trouble transmitting or have transmission question 778-6055.	s, contact MSHA's Help Desk at <u>desk.help@dol.gov</u> or (877)			
Upload CPDM sample files     Digital Dashboard - Check the status of successfully uploaded CPDM sample files				

### Click this link to view your dashboard

### **Digital Dashboard**



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Mine Safety and Health Administration MSHA - Protecting Miners' Safety and Health Since 1978

<u>eGov Forms</u> > Operator CPDM Samples Dashboard

#### Welcome to the Coal Mine Respirable Dust CPDM Samples Dashboard

Use the filters below to view the status of successfully uploaded CPDM Samples files. Only files uploaded by your login will display.

Click "View Details" for additional information

Sample Taken Begin Date (mm/dd/yyyy)	Sample Taken End Date (mm/dd/yyyy)	Mine ID
All   Search Samples	Reset Cancel and Return to Forms	

Enter a date range of samples taken and the Mine ID and click Search Samples.

## **Review of Sampling Procedures**

### Pre-shift Check

- > 3 Hours or less prior to shift start
- Place unit on miner with instructions for wear/care
- Mid-shift check by certified person
- Download and validate sample data
  - Transmit .msha file to MSHA within 24 hours of the end of sampling shift
- > Print, review and sign dust data card
  - Post within 12 hours of the end of sampling shift

# Dust Rule Single Source Website: www.msha.gov/endblacklung

MSHA Contact Directory:

www.msha.gov/CONTACTS/COALNOS.HTM