

CHECK-LIST FOR DOSIMETER NOISE SAMPLING

_ OUTLINE SYSTEM OF MONITORING

- NOTIFY AFFECTED WORKERS SO THEY CAN OBSERVE NOISE MONITORING, IF DESIRED
- FOR INITIAL SAMPLING, 1 TO 5 EMPLOYEES - SAMPLE ALL
- FOR INITIAL SAMPLING, 6 OR MORE EMPLOYEES - SAMPLE SOME OR ALL (GROUP EMPLOYEES WITH SIMILAR EXPOSURES, SAMPLE 1 OR MORE REPRESENTATIVES FROM EACH GROUP)
- FOLLOW-UP SAMPLING WHENEVER EXPOSURE CHANGES (SUFFICIENTLY TO DETERMINE CONTINUING COMPLIANCE)
- SAMPLING MUST EVALUATE EACH MINER'S EXPOSURE
- SAMPLING MUST REPRESENT "FULL SHIFT"

_ SUPPLIES AND EQUIPMENT

- DOSIMETERS (SHOULD ALREADY BE SET FOR "A" SCALE, SLOW RESPONSE)
- WIND SCREEN(S)
- DOSIMETER CALIBRATOR
- FRESH BATTERIES, INSERT AND CHECK "BATTERY OK"
- DOCUMENTATION FORM(S)

_ PRE-CALIBRATE DOSIMETER

- CALIBRATE, RECORD PRE-CALIBRATION
- IF CALIBRATION FAILS (MORE THAN 1 DBA DIFFERENCE BETWEEN DOSIMETER AND CALIBRATOR), DO NOT USE DOSIMETER
- CLEAR MEMORY (TURN OFF TOGGLE SWITCH)

_ SELECT WORKER TO BE SAMPLED

- TELL WORKER WHAT YOU ARE DOING, AND WHY; ANSWER ANY QUESTIONS THEY HAVE; INSTRUCT NOT TO TAMPER WITH DOSIMETER, TAP ON MICROPHONE, ETC.
- EMPHASIZE THEY SHOULD PERFORM NORMAL DAY'S WORK
- RECORD NAME, LOCATION, DUTIES, EQUIPMENT OPERATED, ETC.

_ BEGIN SAMPLING

- CLIP DOSIMETER ON BELT OR PLACE INTO POCKET, SECURE CORD
- CLIP MICROPHONE ON TOP CENTER OF SHOULDER, POINTING UP
- PLACE WINDSCREEN OVER MICROPHONE
- TURN ON DOSIMETER (TURN ON TOGGLE SWITCH)

- _ PERIODICALLY CHECK DOSIMETER THROUGHOUT SAMPLING PERIOD
 - ONCE PER HOUR, IF POSSIBLE; INSURE DOSIMETER OPERATING
 - CHECK NOISE DOSES AT HIGH AND LOW THRESHOLDS
 - ASK WORKER IF NORMAL WORK SHIFT, UNUSUAL NOISE, ETC.
 - RECORD NOISE DOSES

- _ ROUTINE DOCUMENTATION
 - NOISE DOSES DURING PERIODIC DOSIMETER CHECKS
 - NOISE DOSES AT END OF SAMPLING PERIOD
 - SOURCES OF NOISE
 - HEARING PROTECTORS
 - ENVIRONMENTAL CONDITIONS (TEMPERATURE, PRECIP, ETC.)
 - EVIDENCE OF NORMAL WORK DAY (NUMBER OF LOADS DUMPED, NUMBER OF BAGS FILLED, TONNAGE PROCESSED, ETC.)

- _ PERIODIC CHECKS WITH SLM
 - PERIODICALLY CHECK WORKER'S NOISE EXPOSURE WITH SLM
 - RECORD SLM DATA, TIME, AND NOISE SOURCE (IF IDENTIFIABLE)

- _ END SAMPLING
 - RECORD FINAL NOISE DOSE
 - TURN OFF DOSIMETER (TURN OFF TOGGLE SWITCH)
 - TELL WORKER FINAL NOISE DOSE
 - DISCUSS SAMPLING WITH EMPLOYEE. WAS THIS A "NORMAL WORK DAY" IN TERMS OF NOISE EXPOSURE ? SAMPLING SHOULD DOCUMENT "WORST CASE" NOISE EXPOSURE CONDITIONS THAT WOULD STILL BE CONSIDERED A "NORMAL WORK DAY." IF SOME "NORMAL WORK DAYS" ARE NOISIER, CONSIDER RE-SAMPLING.

- _ POST-CALIBRATE DOSIMETER
 - CALIBRATE, RECORD POST-CALIBRATION
 - IF DOSIMETER POST-CALIBRATION FAILS, SAMPLING IS INVALID

ONCE YOU HAVE BEGUN SAMPLING, DON'T TURN OFF TOGGLE SWITCH UNTIL YOU ARE FINISHED SAMPLING.

TURNING OFF TOGGLE SWITCH INSTANTLY ERASES ALL ACCUMULATED NOISE DOSE IN THE DOSIMETER'S MEMORY. THIS MEMORY CANNOT BE RESTORED.

CHECK-LIST FOR SLM NOISE SAMPLING

_ OUTLINE SYSTEM OF MONITORING

- NOTIFY AFFECTED WORKERS SO THEY CAN OBSERVE NOISE MONITORING, IF DESIRED
- FOR INITIAL SAMPLING, 1 TO 5 WORKERS - SAMPLE ALL
- FOR INITIAL SAMPLING, 6 OR MORE - SAMPLE SOME OR ALL
- FOLLOW-UP SAMPLING WHENEVER EXPOSURE CHANGES (SUFFICIENTLY TO DETERMINE CONTINUING COMPLIANCE)
- SAMPLING MUST EVALUATE EACH MINER'S EXPOSURE
- SAMPLING MUST REPRESENT "FULL SHIFT"
- PICK WORKERS WITH GREATEST NOISE EXPOSURE

_ SUPPLIES AND EQUIPMENT

- SLM, "A" SCALE, SLOW RESPONSE
- WIND SCREEN(S)
- CALIBRATOR (IF AVAILABLE)
- FRESH BATTERIES, INSERT AND CHECK "BATTERY OK"
- DOCUMENTATION FORM(S)

_ PRE-CALIBRATE SLM (IF CALIBRATOR AVAILABLE)

- CALIBRATE, RECORD PRE-CALIBRATION
- IF SLM DOES NOT PRE-CALIBRATE, DO NOT USE

_ SELECT WORKER TO BE SAMPLED

- TELL WORKER WHAT YOU ARE DOING, AND WHY; ANSWER ANY QUESTIONS THEY HAVE
- EMPHASIZE THEY SHOULD PERFORM NORMAL DUTIES
- RECORD NAME, LOCATION, DUTIES, EQUIPMENT OPERATED, ETC.

_ BEGIN SAMPLING

- HOLD SLM AWAY FROM BODY, POINT MICROPHONE STRAIGHT UP
- HOLD SLM AS CLOSE AS PRACTICAL TO WORKER'S EAR
- INSURE NO ONE STANDS BETWEEN NOISE SOURCE AND SLM
- LEVEL WILL FLUCTUATE; NOTE HIGHEST LEVELS REACHED

_ PERIODICALLY CHECK NOISE LEVEL THROUGHOUT SAMPLING PERIOD

- CHECK NOISE LEVELS ONCE PER HOUR, IF POSSIBLE
- ASK WORKER IF NORMAL WORK SHIFT, UNUSUAL NOISE, ETC.
- RECORD NOISE LEVEL

_ ROUTINE DOCUMENTATION

- TIME AND SLM LEVEL
- SOURCES OF NOISE
- HEARING PROTECTORS
- ENVIRONMENTAL CONDITIONS (TEMPERATURE, PRECIP, ETC.)
- EVIDENCE OF NORMAL WORK DAY (NUMBER OF LOADS DUMPED, NUMBER OF BAGS FILLED, TONNAGE PROCESSED, ETC.)

_ END SAMPLING

- TELL WORKER SAMPLING RESULTS

_ POST-CALIBRATE SLM

- CALIBRATE, RECORD POST-CALIBRATION
- IF SLM DOES NOT POST-CALIBRATE, SAMPLING IS INVALID

_ DETERMINE NOISE DOSE FOR EACH WORKER USING SLM DATA, ESTIMATED EXPOSURE TIMES, AND NOISE DOSE TABLE