



JENNIFER M. GRANHOLM
GOVERNOR

STATE OF MICHIGAN
DEPARTMENT OF ENERGY, LABOR & ECONOMIC GROWTH
Michigan Occupational Safety & Health Administration
(MIOSHA)

ANDREW S. LEVIN
ACTING DIRECTOR

**MIOSHA OCCUPATIONAL HEALTH STANDARDS
PART 301/601 AIR CONTAMINANTS ADVISORY COMMITTEE MEETING**

MEETING AGENDA

for

September 22, 2010 – 9:30 a.m.

**State Secondary Complex, General Office Building
7150 Harris Drive, Lansing**

1. **Call to Order by Co-Chair Tim Kearney**
2. **Approval of Minutes from July 26, 2010**
3. **Approval of Minutes from August 18, 2010**
4. **Resume Discussion on Metal Working Fluids**
5. **Discussion on Respirable Dust**
6. **Next Meeting Date – October 25, 2010**
7. **Public Comment**
8. **Adjournment**

MEETING MINUTES

for

August 18, 2010

PRESENT:

William Bishop, DT Energy
 John Cikalo, Dow Chemical Co.
 Kim Gasche, Ford Motor Co.
 Bernard Hennessy, UAW
 Timothy Kearney, Argus-Hazco
 William Kilgore, General Motors
 Tom Kinman, UAW
 Robert Lieckfield, Bureau Veritas North America

Dennis O'Brien, Wayne State University
 Cynthia Ostrowski, CAO Consulting
 William Robert, BASF Corporation
 Oscar Rodriguez-Franco, Board of Water & Light
 Ken Rosenman, Michigan State University
 Scott Shepherd, East Jordan Iron Works
 Jessie Simpson

MIOSHA STAFF PRESENT:

Ron Ray, Standards Section
 Jeff Silva, Construction S&H Division

Casandra Knauss, Standards Section
 Sharon Long, Standards Section

ABSENT:

Patricia Fisher, Valenti Trobec Chandler Insurance
 Peggy Brady, Brady & Associates
 Richard McLonis, Marsh USA Inc.

Dennis Emery, Consultant
 Phillip Peterson, Fibertec IHS
 William Watt, Wayne State University

VISITORS

William Heitbrink, Ph.D., Retired from NIOSH
 David Penney, Ph.D., Retired from Wayne State Univ.



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Agenda Item #1—Call to Order

The August 18, 2010 MIOSHA OH Part 301/601 Air Contaminants Advisory Committee meeting was called to order by Co-Chair Dennis O'Brien. A roll call was taken and a quorum was present. Visitors introduced themselves.

Agenda Item #2—Approval of Minutes from July 26 Meeting

The minutes from the July 26 meeting were denied. The minutes will be revised and returned to the next meeting for approval. Ms. Ostrowski stated her concerns and they will be adjusted in the July 26 minutes. No motion was necessary. **MINUTES WERE UNANIMOUSLY DENIED FOR REVISIONS.**

Agenda Item #3—Discussion of Metal Removal Fluids (MRF)

Mr. Ron Ray discussed with MIOSHA Administration the concern regarding adopting the NIOSH MRF and REL and calling for an extractable method, which is not stated in the NIOSH standards. Administration said to only look at the ACGIH, NIOSH or other OSHA standards when looking for means to adopt. Mr. Tim Kearney stated, "In essence we can follow, but cannot lead." Committee members agreed on and put emphasis on the fact that *we cannot redefine the sciences that have already been put in place.*

Dr. Ken Rosenman discussed the health effects of MRFs on humans along with the allowable level in the air. Levels are higher with certain operations and the allowable level in the stamping operation should not be any higher than what is allowable in machining operations. There are the same substances with the same ingredients and the same air level should be necessary for all processes. Dr. Rosenman stated asthma has been tracked since 1988 with 15% of those being work-related cases. These cases have come from machining and stamping operations. Dr. Rosenman asked MIOSHA if the Advisory Committee is changing the science by changing the definition from MWF TO MRF. The science says MWF. Mr. Ray stated he felt that from MIOSHA's perspective, it would change the definition. A lengthy discussion was held regarding changing Metal Removal Fluids (MRF) back to Metal Working Fluids (MWF).

Dr. Rosenman made a motion to change Metal *Removal* Fluids back to Metal *Working* Fluids. Mr. Simpson seconded the motion. **MOTION CARRIED UNANIMOUSLY.**

Dr. Rosenman made a motion to adopt the NIOSH REL (recommended exposure limit) expressed as 0.5 mg per cubic meter total particulate. Mr. Bernard Hennessey seconded the motion. **MOTION NOT CARRIED.**

Mr. Kilgore made a motion to table the discussion on MWFs. Ms. Ostrowski seconded the motion. **MOTION CARRIED UNANIMOUSLY.**

Agenda Item #4—Presentation/Discussion on Permissible Exposure Limits for Carbon Monoxide – Dr. David Penney

Dr. David Penney presented a slide show with his findings on the effects of carbon monoxide on humans and where he believes the Permissible Exposure Limits for carbon monoxide should be set. He explained the adverse health effects, physical signs and symptoms of illness, sensory-motor dysfunction, gross neurological changes, cognitive-memory (neuropsychological) effects, and emotional (psychiatric) disturbances. He also explained the effects associated with CO poisoning as well as which ones have causal effect established, probable cause, and possible cause and effects that are thought to be connected but have no established link or date. Dr. Penney also stated that long term exposure to lower levels of CO has far wider ranging implications for human health than do acute CO exposure.

Co-Chair O'Brien stated he was told by MIOSHA that there were two choices – either adopt what the NIOSH recommended exposure limit is, which is 35 ppm, or the ACGIH exposure limit, which is 25 ppm. He asked Dr. Penney for his comments on this. Dr. Penney stated to possibly look at the data and determine what a good basis is for setting a guideline or a standard. He expressed concern as to there being a difference

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between NIOSH and ACGIH. The guideline was set almost 32 years ago by EPA based on a study of all scientific data. The current MIOSHA CS limit is 50 ppm and the current GI limit is 35 ppm with a 200 ppm ceiling.

Ms. Ostrowski made a motion to adopt the current MIOSHA GI ceiling of 200 ppm for CS and lower both the GI and CS PEL to 25 ppm and to adopt the ACGIH limit of 25 ppm for both the GI and CS PEL. Mr. Jessie Simpson seconded the motion. **MOTION CARRIED UNANIMOUSLY.**

Agenda Item #5—Next Meeting Date

The next meeting is scheduled for September 22, 2010, General Office Building, Conference Room B, 7150 Harris Drive in Lansing. At this meeting, the Advisory Committee will resume the discussion on Metal Working Fluids/Metal Removal Fluids. The next order of business will be a discussion on Respirable Dust.

Agenda Item #6—Public Comment

No public comment.

Agenda Item #7—Adjournment

With no further business before the Advisory Committee, the meeting was adjourned.