PLAINTIFF'S EXHIBIT RMC-128

R. E. Hughes

S. J. Sansonetti
E. C. Irby - EXO; H. M. Cole, R. H. Mansur - GOB; J. H. Dedrick, D. V. Bowling, R. E. Hughes, G. P. Koch, J. Prestley, S. J. Sansonetti, G. E. Spangler, B. D. Spargo - MRD

July 17, 1973 EVALUATION OF AIRBORNE ASBESTOS DUST

As we discussed some weeks ago, we have been counting for the Medical Department asbestos particles on samples taken by them. We have been doing this on a service basis using procedures established here at MRD. Recently, we sent W. J. Porter from the Metallographic Section to the NIOSH School in Cincinnati. A copy of his trip report is attached. This school was highly beneficial and will allow us, in a very short time, to be in full compliance with OSHA standards as established by NIOSH. This should put us in a position to consider obtaining laboratory accreditation.

Would you please make the necessary inquiries within RMC concerning the steps necessary for us to proceed with obtaining accreditation? Such accreditation should have the attractive features of broadening the scope of services available at MRD as well as acceptance of RMC counts by OSHA inspectors. Perhaps you could contact the necessary persons and set up a meeting the first week in August.

R. E. Hughes

REH:ljo

Attachment

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METALLURGICAL RESEARCH DIVISION
CONTACT REPORT

DATE OF CONTACT: July 9-12, 1973

DATE OF REPORT: July 16, 1973

SUBJECT: NIOSH School - "Sampling and Evaluating Airborne Asbestos Dust"

NAME: W. J. Porter

PLACE OF MEETING: National Institute for Occupational Safety and Health
1014 Broadway
Cincinnati, Ohio

DISTRIBUTION:

Dr. E. C. Irby	-EXO
H. M. Cole	-GOB
R. H. Mansur	-GOB
J. H. Dedrick	-MRD
D. V. Bowling	-MRD
R. E. Hughes	-MRD
G. P. Koch	-MRD
J. S. Prestley	-MRD
S. J. Sansonetti	-MRD
G. E. Spangler	-MRD
B. D. Spargo	-MRD

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METALLURGICAL RESEARCH DIVISION
CONTACT REPORT

DATE OF CONTACT: July 9-12, 1973

DATE OF REPORT: July 16, 1973

SUBJECT: NIOSH School - "Sampling and Evaluating Airborne Asbestos Dust"

NAME: W. J. Porter

PLACE OF MEETING: National Institute for Occupational Safety and Health
1014 Broadway
Cincinnati, Ohio

PURPOSE:

To attend NIOSH Training Course No. 582 - "Sampling and Evaluating Airborne Asbestos Dust" for qualification in laboratory techniques and as a preparatory step to laboratory accreditation by NIOSH as a certified asbestos counting facility.

SUMMARY:

The course was attended by twelve professionals from both the government and industry. Most of these people were chemists, industrial hygienists, safety engineers and microscopists. The course provided highly technical and detailed background information concerning all aspects of asbestos dust evaluation. To illustrate the nature and content of the course, a copy of the agenda and laboratory sessions is attached.

Of specific interest to RMC-MRD were the sessions on mounting and counting asbestos fibers. These sessions verified that in general the techniques previously established here at MRD were essentially correct; however, some modifications in our techniques are necessary. In particular, the session on polarized light

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microscopy and dispersion staining in conjunction to the standard phase contrast microscopy were of interest since they will allow fiber differentiation (especially between asbestos and fiberglass). A certificate was awarded after satisfactory completion of the course.

ACTION REQUIRED:

The counting technique here at MRD will be modified to include all aspects covered in the course. These modifications will put us in full compliance with the OSHA standards as established by NIOSH. The equipment used here at MRD fully meets the NIOSH requirements and those changes necessary are relatively minor.

Based upon the information acquired from this course, we will be in full compliance with all requirements. Consideration should now be directed toward laboratory accreditation.

W. J. Porter

W. J. Porter

APPROVED: R&H

R. E. Hughes

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National Institute for Occupational Safety and Health
Division of Training
Environmental Management Branch
Cincinnati, Ohio

SAMPLING AND EVALUATING AIRBORNE ASBESTOS DUST (582)

July 10 - 12, 1973

AGENDA

Course Location:
1014 Broadway
Cincinnati, Ohio 45202

Course Director:
Stephen G. Bayer
(513) 684-3253

DAY AND TIME	SUBJECT	SPEAKER
Tuesday, July 10, 1973		
8:30 - 8:45	Welcome	James Ferguson
8:45 - 9:00	Course Preview	Stephen Bayer
9:00 - 9:25	Part I: The Effects of Asbestos Dust on Man (Video Tape)	Dr. Howard Raymond
9:30 - 9:48	Part II: The Effects of Asbestos Dust on Man (Video Tape)	Dr. Howard Raymond
10:00 - 10:25	Asbestos in Industry (Video Tape)	John Dement
10:30 - 11:30	Sampling and Calibration Equipment	Stephen Bayer
11:30 - 12:30	Lunch	
12:30 - 1:00	Calibration Laboratory	Stephen Bayer
1:00 - 1:45	The Sampling Procedure	Stephen Bayer
2:00 - 2:20	Asbestos Seen Through The Microscope	Stephen Bayer
2:30 - 2:50	Familiarization with the Microscope (Video Tape)	Stephen Bayer

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AGENDA — Course No. 582

DAY AND TIME	SUBJECT	SPEAKER
Tuesday, July 10, 1973 (Continued)		
3:00 - 3:30	Demonstration: Basic Set-Up Procedure	Stephen Bayer
3:30 - 4:00	Discussion - Recommended Microscope Equipment	Stephen Bayer
4:00	First Day Quiz	
Wednesday, July 11, 1973		
8:30 - 9:15	Optical Microscopy (Video Tape)	James Ferguson
9:30 - 9:55	Calibrating the Microscope (Video Tape)	Stephen Bayer
10:00 - 11:30	Laboratory: Microscope Preparation	Stephen Bayer
11:30 - 12:30	Lunch	
12:30 - 1:00	Filter Mounting Procedure (Video Tape)	Stephen Bayer
1:00 - 1:45	Laboratory - Filter Mounting	Stephen Bayer
2:00 - 2:30	The Counting Procedure (Video Tape)	Stephen Bayer
2:30 - 3:00	Explanation of Phase-Contrast Theory	Stephen Bayer
3:00 - 3:30	Class Discussion Session	Staff
3:30	Second Day Quiz	
Thursday, July 12, 1973		
8:30 - 11:00	Sample Evaluation Laboratory	Stephen Bayer
11:00 - 12:00	Lunch	
12:00 - 12:45	Basic Polarized Light Techniques	James Ferguson
1:00 - 2:00	Dispersion Staining Techniques	James Ferguson
2:00 - 2:30	Data Comparison Course Closing	Stephen Bayer

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CONTENTS

The Effects of Asbestos (Dust) on Man
Asbestos in Industry
Sampling and Evaluating Airborne Asbestos Dust
Optimum Sampling Times for Airborne Asbestos Fibers
Air Flow Calibration
Familiarization with the Microscope
Demonstration: Familiarization with the Microscope
Specifications for a Phase-Contrast Microscope
Optics and the Microscope
Calibrating the Microscope
The Counting and Sizing Procedures
Sampling Equipment Laboratory
Filter Mounting Laboratory
Instructions for Leitz Dialux
Instructions for Preparing American Optical's Nicrostar
Asbestos Dust Evaluation
Reticle Calibration Worksheet
Asbestos Count Record Sheets
Quiz - First Day
Quiz - Second Day

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