bc: H. B. Rhodes
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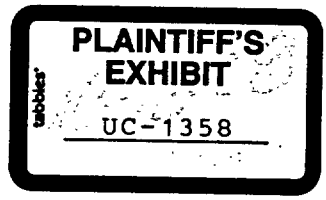
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UNION CARBIDE CORPORATION • MINING & METALS DIVISION • P.O. BOX 579 • NIAGARA FALLS, N. Y. 14302 • TEL: 716-278-3376

September 19, 1975



Mr. Joe Volk
National Gypsum Company
R&D Laboratory
1650 Military Road
North Tonawanda, NY 14217

Dear Joe:

Enclosed are the pertinent details concerning the airborne silica samples obtained in the Minneapolis area that you are currently testing.

I have no firm plans for further sample testing of this nature until we have compiled the data obtained presently. All the equipment borrowed from you has been returned with the exception of one cyclone which will be returned within the next few days. Thank you for your kind assistance.

Best regards,

B. L. Ingalls
Supervisor
Special Projects

BLI:cjb
Enclosure

GENERAL INFORMATION AND CONDITIONS DURING MONITORING FOR AIRBORNE RESPIRABLE SILICA

Samples Obtained By: B. L. Ingalls
Union Carbide Corporation
Metals Division
Niagara Falls, New York

Test Sites and Prevailing Conditions:

Airborne samples were obtained during the hand sanding of tape joint construction at two different locations in the Minneapolis, Minnesota area. Site conditions were as follows:

Site #1 - Two-Story Residential Structure, Mound, MN (9/10/75):

Located near intersection of Co. 15 and Co. 92, 5 miles east of Mound, MN. The structure was 2300 ft.^{2} living area - drywall construction walls and ceilings. One man performed all tape joint sanding with a pole sander. Some windows were open, allowing moderate ventilation. The upper story and part of the first floor were sanded over 4 hours. Work areas included closet enclosures to 14' x 24' living areas.

Site #2 - Four-Story Residential Apartment Structure, Bloomington, MN (9/11/75):

Located at intersection of France Avenue and Heritage Hills Drive. Tests were conducted during hand sanding of tape joint construction (including walls and ceilings) by three workers using pole sanders. The men worked together sanding one living complex at a time. All sanding was limited to the fourth floor during these tests.

Tape Joint Product Used:

Site #1 - Two-Story Residential Structure, Mound, MN

Top Coat - Gold Bond Triple-T
Compound Vinyl
Asbestos Free
National Gypsum Company
(Dry mix)

Tape Coat - U.S. Gypsum
Joint Compound
Taping
Nonasbestos
(Dry mix)

Site #2 - Four-Story Residential Apartment Structure, Bloomington, MN

Gold Bond Triple-T
Compound Vinyl
Asbestos Free
National Gypsum Company

Tape Joint Sanding Contractor:

Haugland Building Services, Inc.
3704 Snelling Avenue
Minneapolis, Minnesota
(612) 724-5486
Owner - Mr. S. Haugland

Air Monitoring Equipment:

Battery powered air pumps (M.S.A. type) calibrated to 1.8 liters per minute. M.S.A. 10mm nylon cyclone attachments were used to remove nonrespirable particulates. M.S.A. membrane filters type FWS-B of PVC 5 micron pore size and 37mm diameter were used for sample collection. A volumetric sample was also used calibrated to 9 liters per minute with cyclone attachments.

B.L.Ingalls:cjb
9/15/75

AIRBORNE SILICA (RESPIRABLE DUST) SAMPLES OBTAINED DURING THE HAND SANDING OPERATION OF TAPE JOINT CONSTRUCTION IN TWO RESIDENTIAL STRUCTURES - MINNEAPOLIS, MINNESOTA AREA

Sample No.	Date	Sample Time (Min.)	Comments
Site #1 - Mound, MN			
R-1108	9/10/75	227	Volumetric sample during sanding. Located ~center of working areas and ~6 ft. above floor.
R-1117	"	227	Volumetric sample. Conditions and time same as R-1108.
R-1110	"	122	Personal (Stan Nielsen) Hand sanding with pole sander.
R-1109	"	122	Personal (Stan Nielsen) Conditions and time same as R-1110.
R-1112	"	166	Environmental - Background during sanding. Located ~center of working area and ~6 ft. above floor.
R-1115	"	36	Personal (Stan Nielsen) Hand sanding with pole sander.
R-1111	"	36	Personal (Stan Nielsen) Conditions and time same as R-1115.
Site #2 - Bloomington, MN			
R-1130	9/11/75	158	Volumetric sample during sanding. Located ~center of working areas and ~6 ft. above floor.
R-1128	"	158	Volumetric sample. Conditions and time same as R-1130.
R-1119	"	155	Volumetric sample during hand sanding. Located ~center of working areas and ~6 ft. above floor.
R-1120	"	155	Volumetric sample. Conditions and time same as R-1119.
R-1132	"	90	Personal (Dave Anderson) Hand sanding with pole sander.
R-1118	"	84	Personal (Dave Anderson) Hand sanding with pole sander.
R-1023	"	154	Personal (Dave Anderson) Hand sanding with pole sander.
R-1114	"	148	Personal (Dana Noel) Hand sanding with pole sander.
R-1080	"	160	Personal (Dana Noel) Hand sanding with pole sander.
R-1123	"	176	Personal (Steve Kildahl) Hand sanding with pole sander.
R-1077	"	157	Personal (Steve Kildahl) Hand sanding with pole sander.

B.L.Ingalls
9/15/75