

1020208

CONFIDENTIAL

Construction Products Division

GRACE

PLAINTIFF'S EXHIBIT WRG-762

To: J. W. Wolter

Date: May 19, 1983

From: R. E. Schneider

Subject: Asbestos Abatement at
Travelers Rest and Enoree, SC
cc: R. C. Abernathy
F. W. Eaton
H. A. Eschenbach
R. T. Frohlich

On May 11 and 12 I visited the Travelers Rest and Enoree, SC facilities, and along with Mr. Ken Nash of W. W. Nash & Sons, Inc. evaluated the work and costs associated with asbestos abatement in the three buildings containing the experimental coatings. According to R. T. Frohlich, W. W. Nash & Sons, Inc. of Richmond, VA are eminently qualified to pursue this activity. I found Mr. Nash to be knowledgeable and capable.

In order to assemble costs, I have assumed that disposal of the waste material may be accomplished on site at the Enoree facility. If this is not possible or desired, the expected costs for waste disposal at the nearest approved land fill site are in the \$12-15M range based upon an assumed 1000-1100 cu. ft. volume. (Distributed costs in the following estimation are \$6.0M.)

The expected costs for each building may be described as follows:

	<u>Expense (\$000)</u>	<u>Capital (\$000)</u>
1) Machine Shop & Office area of Fabrication Shop - Travelers Rest	(96-035) 49.2	(96-036) 14.6
2) Mill Maintenance Building - Enoree	(08-558) 20.9	-
3) Mine Maintenance Building - Enoree	(08-558) 40.3	-

In all instances some preparatory work is necessary prior to removal of the asbestos laden material. Also, additional work is required in all instances to prepare the buildings for use as originally intended after the abatement work is complete. At Travelers Rest the insulation will be replaced, while at Enoree any insulation value attributed to the coating will not be replaced or recovered. The only capital involved, by R. Abernathy's

May 19, 1983

1020209

analysis, will be at Travelers Rest. All of the insulation on the shop ceiling and walls and the insulation and ceiling material in the office area will be destroyed and removed. In all instances, it will be advisable and necessary to repaint the metal immediately.

Another assumption I have made is that the air sampling and monitoring to be done during the removal operations will be provided by the ICG Health/Safety group. Additional unknown costs should be scheduled if this is done by outside laboratories and monitors.

The work will require completely relinquishing the buildings to the contractor. It is suggested that an August time frame is most acceptable to our operations and to the contractor. An elapsed time table for the three buildings may be presented as follows:

<u>Building</u>	<u>Preparation Calendar Days</u>	<u>Cleaning Calendar Days</u>	<u>Restoration Calendar Days</u>	<u>Total</u>
TR - Machine Shop & Office	4	7	17	28
Enoree - Mill Maint.	2	5	3	10
Enoree - Mine Maint.	1	10	2	13

If the purchasing policy being currently promulgated is to be followed, it will be necessary to develop two additional quotes for the abatement work. R. T. Frohlich has indicated that perhaps other qualified contractors can be asked to quote on the work.

Shop order numbers have been assigned for this work but have not been prepared pending your decision on procedure.

R E Schneider
R. E. Schneider

RES/al

CONSTRUCTION
PRODUCTS
DIVISION

1020210

REPORT: 69876
GROUP: BPD Manufacturing
DATE: 14 April 1983
CHARGE NO.: 1174
REQUESTOR: Paul M. Connor
MARKETING OR MANUFACTURING AP.
NAME: T. E. Hamilton
APPROVED: _____

PAGE 1

REQUEST FOR TECHNICAL SERVICE

PROBLEM TITLE: Environmental Evaluation -- Bulk Sample -- Fibrous Materials

SIGNIFICANCE: The evaluation of workplace environment is necessary to comply with federal regulations.

SPECIFIC OBJECTIVE: Determine asbestos content of bulk sample.

SUGGESTED APPROACH: X-ray

DEADLINE (Last day information will be of value): 2 weeks

DETAILS OF PROBLEM: Please evaluate BS-1 (Bulk Sample) of spray coating material from the Traveler's Rest machine shop wall.

RECEIVE
APR 27 1983
C.P.D. ENC

ACCEPTED BY RESEARCH DEPT.: *[Signature]*

DATE: 4/15/83

ASSIGNED TO: *J. Sweet / B. Perry*

ADDITIONAL COPIES: Original to Library J. H. Wolter, H. C. Duecker, P. M. Connor
F. W. Eaton

REQUEST FOR TECHNICAL SERVICE

NUMBER: 69876
GROUP: BPD Manufacturing
ACTUAL COST: \$60
REPORTING DATE: April 26, 1983

SUMMARY AND CONCLUSION:

1020211

The bulk sample was examined and found to contain chrysotile asbestos fibers by x-ray diffraction method and microscopic examination.

The major components were expanded vermiculite and other amorphous binder material; a trace of quartz sand was also found to be present.

EXPERIMENTAL:(1) XRD

Major: Vermiculite and amorphous binder.

Intermediate-Minor: Chrysotile asbestos fiber.

Trace: α -quartz.

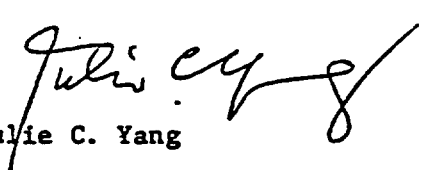
(2) Microscopic Examination

The bulk sample had chrysotile asbestos fibers well-distributed throughout with length up to a few millimeters.

The amorphous binder was extremely fine-grained imbedded with some vermiculite particles.

REFERENCE:

MISC-405.


Julie C. Yang

JCY:da

CONFIDENTIAL

1020212

CONSTRUCTION
PRODUCTS
DIVISION

REC'D
APR 25 1983
C.P.D. ENG.

PAGE 1

REQUEST FOR TECHNICAL SERVICE

REPORT: 69875
GROUP: BPD Manufacturing
DATE: 14 April 1983
CHARGE NO.: 1174
REQUESTOR: Paul M. Connor
MARKETING OR MANUFACTURING APPROVAL:
NAME: Thomas E. Hamilton
APPROVED: _____

PROBLEM TITLE: Environmental Evaluation - Air - Fibrous Materials.

SIGNIFICANCE: The evaluation of workplace air on a periodic basis is necessary to comply with the air sampling section of the OSHA Asbestos Standard.

SPECIFIC OBJECTIVE: Determine fiber counts for filter media.

SUGGESTED APPROACH: Phase contrast microscopy.

DEADLINE (Last day information will be of value): 2 weeks.

DETAILS OF PROBLEM: Please evaluate Engineering samples from Travelers Rest

Sample numbers: TR-1 through TR-3
products and ores involved: none

ACCEPTED BY RESEARCH DEPT.: *J. Sweet*

DATE: 4/15/83

ASSIGNED TO: *J. Sweet*

ADDITIONAL COPIES: Original to Library; J. W. Wolter, H. C. Duecker, P. M. Connor
F. W. Eaton

REQUEST FOR TECHNICAL SERVICE

NUMBER: 69875
GROUP: BPD Manufacturing
ACTUAL COST: \$90
REPORTING DATE: 4/22/83

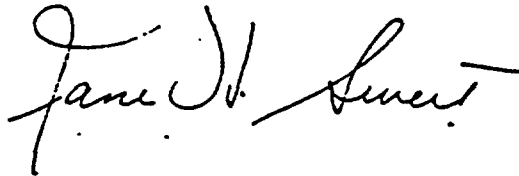
1020213

SUMMARY:

Three samples were received from Traveler's Rest and were evaluated for their fiber content.

RESULTS:

The results are as shown on the attached Air Sampling Record Sheet.



Jane H. Sweet

JHS:da
Attachment

AIR SAMPLING KILUKU SHEET

HEALTH, SAFETY & TOXICOLOGY DEPARTMENT

PLANT LOCATION TRAVELER'S BEST

CONTAMINANT Asbestos

SAMPLING BY P.M. CANNORS

DATE: 6 Apr 1 83

SAMPLING CONDITIONS:

OUTSIDE SUNNY

INSIDE DRAFT MECH

VISIBLE DUST Light

HOUSEKEEPING

TYPE OF SAMPLING:

PERSONNEL

MEMBRANE (Size & Type) 0.8 μ m AF

IMPINGER (Soln & Vol)

PUMP (Type & Model) DG₉₂+ G-2500

rional Comments:

Laboratory Evaluation by:

Date:

4/19/83

* 11/13/19