

Interoffice Memorandum

TO (Name and Location)	DATE
See Below	June 11, 1987
FROM (Name and Location)	REFERENCE NO
T. W. Scott - Charlotte	TWS-87-32

E. F. Bazen - Palmetto
B. T. Bowyer - Charlotte
R. Caldwell - Shelby
K. H. Cook - Celco
D. B. Smith - Salisbury
R. S. Smith - Charlotte
R. V. Williams - Celriver

SUBJECT: Asbestos Data Collection Project

Please review the attached correspondence from ORC regarding the Asbestos Data Collection Project (reference TWS-87-26) as proposed by ORC's Asbestos Data Collection Task Force. The estimated cost for Celanese Fibers to be an initial participant is \$3,000.

Since ORC is requesting comment by June 23, I'll be calling you on the 18 or 19 for your comments concerning the data sheet and participating in the project. Any questions, please call.



T. W. Scott

ps

Attachment

DO IT RIGHT THE FIRST TIME

JUN 2 1987

090334



Memorandum

May 26, 1987

To: ORC Asbestos Task Force
From: Rebecca L. Daiss *RLD*
Subject: ORC Asbestos Data Collection Project

Attached for your review is: 1) the final draft of the ORC Asbestos Sampling Data Sheet for Small Jobs; 2) the instructions for completing the sampling sheet; 3) the introduction to and rationale for the ORC Asbestos Data Collection Project; and 4) the requirements for participation in the Asbestos Data Collection Project.

We would appreciate receiving your comments on the attached material before June 23 as we want to begin collecting data by July 1 from those companies who have already made the commitment to take part in the survey. We will send the same package, revised according to the comments we receive, to the ORC Occupational Safety and Health Group at that time in an effort to broaden participation in the survey.

The Asbestos Removal (large job) Sampling Data Sheet and accompanying documentation is being revised and will be sent out for your review and comment upon completion.

BD/3

ASBESTOS SAMPLING DATA SHEET

1. SHEET NUMBER _____2. TASK (REMOVAL OF ACM IS NOT
PRIMARY GOAL)a. TASK DESCRIPTION
(CHECK ONE PER SAMPLING
ACTIVITY)

- ☐ Open ceiling tiles
☐ Remove cable cover
☐ Cable maintenance
☐ Splicing cable
☐ Pulling cable
☐ Task clean-up
☐ Equipment installation
☐ Equipment removal
☐ Brake work
☐ Clutch work
☐ Gasket work
☐ Boiler maintenance
☐ Pipe maintenance
☐ Valve maintenance
☐ Other equipment
 maintenance _____
☐ Shipwork _____
☐ Other _____

b. ACM ACTIVITY RESULTING FROM
TASK (non-telecom/utility)
(CHECK ALL THAT APPLY)

- ☐ Wetting
☐ Removal
☐ Bagging
☐ Transporting
☐ Drilling/cutting/grinding
☐ Incidental disturbing
☐ Other _____
☐ None

c. ACM FORM
(CHECK ALL THAT APPLY)

- ☐ Sprayed on insulation
☐ Troweled on insulation
☐ Equipment insulation
☐ Boiler insulation
☐ Pipe insulation (g.t. 12"
diameter)
☐ Pipe insulation (l.t. 12")
☐ Pipe fittings
☐ Transite Pipe
☐ Floor tiles
☐ Ceiling tiles
☐ Transite Board
☐ Roofing
☐ Asbestos cement
☐ ACM fabricated items
☐ Other

d. ACM LOCATION
(CHECK ALL THAT APPLY)
(Telecom/Utility Specific)

- ☐ Above hung ceiling
☐ Beams/columns
☐ Crawl space
☐ Tunnel
☐ Manhole
☐ Cable vaults
☐ Piping
☐ Other

e. LOCATION OF JOB
WITH RESPECT TO ACM
(Telecom/Utility Specific)

- ☐ Adjacent to
☐ On
☐ Through
☐ Other

f. DISTANCE TO ACM
(Telecom/Utility Specific)

- ☐ < 1 ft.
☐ 1-3 ft.
☐ 3-5 ft.
☐ 5-10 ft.
☐ 10-20 ft.
☐ > 20 ft.

3. TYPE OF ASBESTOS
(INDICATE % IF KNOWN)

- ☐ _____% amosite
☐ _____% chrysotile
☐ _____% crocidolite
☐ Unknown

4. ACM CONDITION

- ☐ Loose/friable
☐ Hardened/non-friable
☐ Encapsulated

5. ESTIMATED AMOUNT OF ACM REMOVED

- _____ square feet
 _____ cubic feet
 _____ linear feet
 _____ unknown
 _____ none

6. ACM DISTURBED

- ☐ Yes ☐ No

SHEET NUMBER _____

3

B. AIR SAMPLING DATA

1. Cassette #: _____
(One worker only)
(One task only)

2. Date of Sample: _____ / _____ / _____
(month) (day) (year)

3. Sample duration: (minutes) _____

4. Fiber Concentration: (f/cc) _____

5. Fiber Count: (f/100 fields) _____
(if available)

6. Actual TWA Exposure: _____

7. 8 hour TWA Exposure: _____

8. Pump flow rate: (ltr/min) Pre-sample _____ Post-sample _____

Date Checked: _____ / _____ / _____
(month) (day) (day)

9. Pump Serial Number _____

10. Date of Sample: _____ / _____ / _____
(month) (day) (year)

11. Worker ID (if applicable): _____

12. Upset conditions ___Yes ___No

Comments (spills, unplanned events, etc.)

Signature/title of person filling out form

Print name in full: _____ Phone No. _____

Company name (print) _____

City _____ State _____

INSTRUCTIONS FOR FILLING OUT ASBESTOS SAMPLING DATA SHEET
FOR SMALL JOBS

1. Sheet Number

The sheet number will be preassigned.

2. Task

The Asbestos Sampling Data Sheet is to be completed only for jobs in which removal of asbestos containing material (ACM) is not the primary goal.

a. Task Description

What is the nature of the actual work being performed? Check the one entry which best describes the task.

b. ACM Activity Resulting from Task (non-telecom/utility)

What was done in regard to actually working with or handling the acm:

c. ACM Form

What is the form of the ACM encountered on the task? Check all that apply.

Questions 2(d), 2(e) and 2(f) are to be completed only by telecommunications and utility industry employees.

c. ACM Location

Where is the specific location of the ACM encountered on the task? Check all that apply.

d. Location of Job with Respect to ACM

Where, in relation to the ACM, is the task being performed?

e. Distance to ACM

What is the distance between the site of the task and the ACM.

3. Type of Asbestos (Indicate % if known)

What type of asbestos is present - amosite, crocidolite, chrysotile, unknown?

Check all that apply and, if possible, indicate the percentage of amosite, crocidolite, and/or chrysotile present in the ACM.

10. Structure

a. Type of Building

If in a building, in what type of building is the task being performed?

Check the appropriate box.

b. Structure if Other than a Building

If other than a building, identify the type of structure the task is being done in, or on (ex., tower, boiler, etc.)

11. Control Methods

What method(s) are being used to minimize the release or generation of airborne asbestos fibers?

Check all that apply.

12. Sampling/Analytical Method

What method is being used to analyze samples for the presence of asbestos, and if that test indicates the presence of asbestos, what kind of confirmatory analysis is performed?

Check the appropriate box or identify alternate method of analysis.

13. Sampling Completed By:

Was the sampling done by company employees, or an outside consultant/contractor?

Check the appropriate box.

8. Pump Flow Rate: (Liters/Min)

The pump flowrate should be the averaged flowrate as determined by calibration with a primary standard such as a bubble tube. Enter the date the flow rate was checked.

9. Pump Serial Number:

Enter the pump serial number

10. Worker ID:

Enter the worker identification number, if any, used by your company.

11. Upset Conditions

Was there a greater than normal exposure to asbestos due to an unplanned event? Specify the event in the comments section. Mark the appropriate box.

DKM/20

::

INTRODUCTION TO THE

090349

ORC ASBESTOS DATA COLLECTION PROJECT

GOALS

To build a data base on the levels of airborne asbestos fibers generated during the completion of a variety of routine jobs in the chemical, petrochemical, telecommunications and utility industries.

INTENDED USE

This data base is intended to allow the participating companies to meet the requirements of the Occupational Safety and Health Administration for "objective data". The source of the data will be kept confidential with only ORC retaining knowledge of it. ORC needs to be able to contact the submitting company should questions about the data arise.

METHODS

The intent is to monitor a variety of separate jobs, and to establish a TWA exposure for each job. This would be done in the chemical, petrochemical, telecommunications and utilities industries. For the purposes of this study we are less concerned with the overall exposure of the individual (8 hour TWA) than we are with the actual fiber concentrations generated by each specific task.

THE BENEFITS

If, as expected the data shows exposures to be consistently below the action level of 0.1 f/cc, this "objective data" should provide participants with a valid data base upon which to defend a decision not to perform "initial monitoring" each time a small asbestos removal job, or other small job involving asbestos, is started so long as standard techniques are used.

In the telecommunications industry this data base can help document the kinds of exposures that can be expected in routine telephone and cable installation jobs where it is known that asbestos is present. Protective measures appropriate to the known hazard can then be put in place to meet the requirements of the OSHA standard, and adequately protect workers.

In those industries where it is not always known whether or not asbestos is present, the monitoring of a large number of randomly selected, short duration, low exposure jobs across the country, should give a solid indication of the probability, on any particular like job, of encountering levels of asbestos at or above the 0.1 fibers per cubic centimeter of air, the action level in OSHA's asbestos standard.

10. All participants agree that sampling data will be for those doing "hands-on" work, not supervisors or observers.
11. All participants agree that all analytical work done for the purposes of this study will be performed by laboratories certified under the existing Proficiency Analytical Testing (PAT), or the American Industrial Hygiene Association (AIHA) Asbestos Accreditation Program.
12. Where possible, the data collection forms should be filled out by industrial hygienists using their organizations monitoring data forms.
13. The sampling data forms will be signed by the person filling them out. The company name and address and a phone number for the person signing the sheet should be included. After data entry this information will be removed from sheets.
14. Where reasonable, a certain amount of third party, (contractor/consultant) monitoring should be done as part of the study and identified as such on the data sheet.
15. Each participating company should submit once, a separate company cover sheet to ORC. This sheet will include overall information about the percent of the potentially exposed employee population that was monitored, the total number of employees monitored, and total number of employees in the corporation.
16. The company cover sheet should discuss how jobs enter the system, and how the particular job site and individual(s) who do the work are chosen. This needs to be done to document the method used internally to obtain a representative selection of samples.
17. Detailed data from this study will be available only to those organizations that participated in the study.
18. Companies not having participated in the study initially, but wishing to have access to detailed data from the study after it is completed, must agree to do a certain minimum amount of sampling using the agreed upon task force protocol and data collection forms, the results to be entered into the data base.
19. Once the information on the sampling data sheets has been entered into the data base, a summary of the compiled data will be provided to participating companies. Participants will have access to the original data, except for company names, through ORC.
20. The final results of the study will be written up and, upon review and majority approval of the task force, they will be submitted for publication to the AIHA Journal.