

ORC Asbestos
Taskforce

ALUMINUM COMPANY OF AMERICA
ALCOA BUILDING
PITTSBURGH, PENNSYLVANIA 15219



1987 MARCH 20

PLAINTIFF'S
EXHIBIT
AL-950

Organization Resources Counselors, Inc.
1331 Pennsylvania Avenue N.W.
Washington, D.C. 20004

Attn. Darrell Mattheis

Dear Mr. Mattheis:

In reference to the form drafted by the ORC Asbestos Exposure Task Force, I have the following comments.

The question concerning other fibrous materials in item 5 should be eliminated. It is generally recognized that the fiber counting method is nonspecific, only counting fibers which meet the size criteria. Because of this, I don't think that we should make any distinction here for the purposes of this study.

In section B on Air Sampling Data, some of the sections can be combined or eliminated.

Delete the "date" and the "worker number". Just ask for one ID number which will link this data with the complete set of data retained by the company who contributed the sample. This number could be unique within the company submitting data and be included in the "confidential information" not to be released outside of ORC Staff. Each draft form also has a space for an "ORC CODE" which I suspect is a unique number within the study assigned by ORC.

Delete "Amount of time spent working with asbestos"; this will not be as useful in grouping the data as the volume of asbestos removal represented by the sample.

Something alluded to in the directions accompanying this form is that there may be a series of samples (possibly taken to prevent sample cassette overloading) which represent a particular task conducted by one employee on one date. For the purposes of this study it seems that the best way to handle such serial samples is to ask the submitter to go ahead and crunch the numbers and to submit data concerning this single task, on one date, by one employee, on one ORC SAMPLING FORM.

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In general, this form is concise enough both to be utilized within our field sampling effort (for a finite period of time) and also to enable the ORC Task Force to compile and group data on asbestos exposures.

Laura Rippey

LAURA RIPPEY
Staff Industrial Hygienist

FIBER.LLR

cc: R. S. Danchik, ATC
R. M. James, Pgh 6
R. A. Milito, ATC
L. F. Schneider, Pgh 13

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(6)

February 27, 1987

To: Laura Rippey ✓
ALCOA

From: ORC, Inc.

Attached is a draft of the Form for Recording the Asbestos Exposure Data and accompanying instructions which Steve Dixon, Dupont, and R. Wolfe Wagner, ICI Americas, have put together.

Four Pages to Follow:

DRAFT

ORC EXPOSURE TASK FORCE
SAMPLING FORM

(see instructions on back side)

ORC CODE (leave blank)

A. BACKGROUND INFORMATION

1. Form of Asbestos Containing Material(s) Being Worked with:

- ☐ building sprayed-on insulation (loose) ☐ pipe insulation ☐ equipment insulation ☐ brake shoes
☐ building sprayed-on insulation (hardened) ☐ pipe outer covering ☐ boiler insulation ☐ gaskets
☐ building sprayed-on insulation (encapsulated) ☐ laboratory bench ☐ roofing material ☐ other specify _____

2. Methods Used to Control Asbestos Exposure

- ☐ enclosure (without negative pressure) ☐ power tools without ventilation specify type _____ ☐ wetting agent, specify type (if known) _____
☐ enclosure (with negative pressure) ☐ power tools with ventilation specify type _____ ☐ glove bag ☐ other _____
 3. Work Done - ☐ indoors ☐ outdoors 3a. Air Temperature - ☐ less than 80°F ☐ greater than 90°F
 4. Percent Asbestos in Material (if known) ☐ 0 - 5% ☐ 5 - 10% ☐ 10 - 25% ☐ 25 - 50% ☐ 50 - 100%
 5. Are other fibrous materials (glass fibers, paper fibers, rock wool, etc) being worked with in area? ☐ yes ☐ no Explain (if yes) _____
 6. The Asbestos sampling/analytical method is: ☐ NIOSH 7400 or Appendix A OSHA Standard ☐ Other Specify _____

B. AIR SAMPLING DATA

Sample Date or area	Pump Flowrate	Duration	Sample	Fiber Conc.	8 hr TWA	Amount of This Conc.	Specific Activities	Upset Conditions	Amount of Asbestos Removed	Comments
Seq. #	Mo/Day	Number	liters/minute	(min)	fibers/cc	fibers/cc	with Asbestos (see code)	yes/no	During Sample	events, etc)

01
02
03
04
05
06
07
08
09
10

(SPACE WILL BE EXPANDED IN FINAL VERSION)

CONFIDENTIAL INFORMATION (NOT TO BE RELEASED OUTSIDE OF ORC STAFF)

SIGNATURE/TITLE OF PERSON FILLING OUT FORM

COMPANY

DRAFT

INSTRUCTIONS FOR FILLING OUT FORM
(to be on reverse side of form)

A. BACKGROUND INFORMATION

1. Form of Asbestos Containing Material(s) Being Worked With

What is the type of asbestos material being removed/disturbed?

2. Method to Control Asbestos Exposure

What is the type of method(s) used to minimize the asbestos exposure?

3. Work Done Indoors or Outdoors

Was the asbestos removal/disturbance done inside a building or outdoors?

4. Percent Asbestos in Material

Check the appropriate box if a bulk sample of the asbestos material has been analyzed for asbestos content.

5. Are Other Fibrous Materials Present

Other fibers such as fiberglass, paper, and rock wool will be counted as fibers by the NIOSH/OSHA analytical method.

6. Asbestos Sampling/Analytical Method

The NIOSH Method 7400 and the OSHA Appendix A method both call for the use of 25 mm filter cassettes, sampling cowls, and specific counting techniques. Please specify any modifications made to the method.

B. AIR SAMPLING DATA

1. Date - enter month and day

2. Worker or Area Number

Each person or area should be assigned a unique number. More than one sample can be taken on one person or in one area.

3. Pump Flowrate

The pump flowrate should be the averaged flowrate as determined by calibration with a primary standard such as a bubble tube.

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4. Sample Duration

The duration of time for the sample.

5. Fiber Concentration

The fiber concentration (fibers per cc) as determined from the laboratory analysis. Use "GT" and "LT" for "greater than" and "less than" (respectively). If the sample filter is overloaded, note GT before the result.

6. Estimated 8 hour Time Weighted Average (TWA)

If more than one sample was taken on a person during a shift, a time weighted average should be calculated using the below formula:

$$\frac{C_1 T_1 + C_2 T_2 + \dots + C_n T_n}{T_1 + T_2 + \dots + T_n}$$

C_n = the fiber concentration for sample n

T_n = the sample duration for sample n

7. Amount of Time Spent Working with Asbestos

During the time of the sample, estimate the amount of time the worker was exposed to asbestos. Do not include preparation and clean-up time.

8. Specific Activities

Insert the code(s) for the specific activity(s) of the person during the period of the sample.

- A = Operator performing task with direct exposure to asbestos
- B = Supervising task
- C = Operating sprayer
- D = Onlooker (no direct exposure)
- E = Monitoring exposure
- F = Clean-up
- G = Set-up
- H = "throwing" electrical or telephone cables above false ceiling

9. Upset Conditions

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

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10. Amount of Asbestos Removed

For the time period sampled, estimate the amount of asbestos removed in cubic feet (length x width x thickness). For pipe insulation, specify the pipe diameter and length of pipe insulation removed.

11. Comments

Specify any upset conditions, sampling pump malfunctions or other unusual events.

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