

AT&T
Bell Laboratories

subject Asbestos Removal
Contracts, BL-MH
Case: 48100-1

date March 14, 1984

from D. Rainer
MH-77621
1F-104 X7512

Mr. L. Schunacher:

Per our discussion, attached for your review is recommended language to be included in all asbestos removal contracts. The contract covers all facets of removal and defines the State and Federal laws that must be adhered to. The Environmental Health, Environmental Management, and Safety Center should be contacted to evaluate jobs that new contractors are involved with to ensure that they adhere to the requirements.

MH-77621-DR-jve

David Rainer

Attachments

Copy to: (w/attch)
W. J. Schreiber
G. M. Wilkening

WJS-

3-15-84

Comments? Purchasing wants the
attached to put on all the
purchase orders for asbestos
removal. As purchasing is now
soliciting bids on asbestos removal
contracts, they need this.

DR



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A handwritten signature in dark ink, appearing to read "D. Rainer".

David Rainer

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Copy to: (w/attch)
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G. M. Wilkening

LLA 002014

AT&T BELL LABORATORIES
ASBESTOS REMOVAL REQUIREMENTS

Contract Specifications:

1. Regulations

Contractors shall comply with the requirements of the EPA National Emission Standards for Asbestos, and the OSHA regulations on asbestos, Section 1910.1001 (and any applicable State and local government regulations) which are incorporated by reference. Work cannot commence until appropriate notification of regulatory agencies is complete.

2. Scope of Work

A. The contractor shall furnish all labor, materials, services, insurance, and equipment necessary to carry out the removal operation, in accordance with EPA and OSHA regulations and any applicable State and local government regulations.

B. The contractor shall be responsible for obtaining approval for a waste disposal site in compliance with 40 CFR Section 61.25 of the EPA regulations and appropriate state regulations.

C. Contractors shall post the EPA and OSHA regulations (and any applicable State and local government regulations) at the job site.

3. Worker Protection

A. The contractor shall provide workers with approved respirators. The contractor shall provide a sufficient quantity of filters approved for asbestos so that workers can change filters during the work day. Filters shall not be used any longer than one (1) work day. The respirator filters shall be stored at the job site in the change room and shall be totally protected from exposure to asbestos prior to their use.

B. Workers shall always wear a respirator properly fitted on the face in the work area.

C. Contractors shall instruct and train workers in proper respirator use.

D. Workers shall wear disposable, full-body coveralls and disposable head covers and footwear in the work area. Footwear may be disposable. Non-disposable footwear shall be left in the work area at all times until disposal at job completion.

E. The contractor shall set up a change room and a shower outside of the work area.

F. All workers without exception shall:

- (1) Remove street clothes in the change room and put on the disposable coveralls and head covers, and respirator before entering the work area.
- (2) Remove the disposable coveralls, head covers, and footwear in the work area before leaving the work area. Still wearing their respirators, proceed to the showers and remove their respirators while showering with soap and water.
- (3) Shower at the end of each day's work before entering the change room to change into street clothes.

G. Workers shall not eat, drink, smoke, chew gum, or chew tobacco in the work area. To eat, drink or smoke, workers shall remove the disposable work clothes and footwear in the work area before leaving the work area. Still wearing their respirators, workers shall proceed to the showers and remove their respirators while showering with soap and water. Workmen shall then dress into a new, clean disposable coverall to eat, smoke, or drink. The coverall can be worn to reenter the work area.

H. The contractor shall provide a respirator and disposable coveralls, headcover, and footwear to any official representative who inspects the job site.

I. All persons entering the work area shall wear an approved respirator and disposable coveralls, head cover, and footwear.

4. Work Area Preparation

A. The contractor shall set up a decontamination facility outside of the work area which will consist of a change room, shower area, and equipment area.

B. The contractor shall isolate the work area for the duration of the work by completely sealing off all openings and fixtures in the work area including, but not limited to, heating and ventilation ducts, doorways, corridors, windows, skylight, and lighting with plastic sheeting taped securely in place.

C. The contractor shall build double barriers of plastic sheeting at all entrances and exits to the work area so that the work area is always closed off by one barrier when workers enter or exit.

D. All floor and wall surfaces in the work area shall be covered with plastic sheeting taped securely in place to protect from water damage (or damage by sealants).

E. Before the work is begun, the contractor shall wet clean or vacuum with HEPA Filter all removable items and equipment with evidence of

asbestos contamination and remove all items and equipment from the work area, and then return these items and equipment to the work area after the job has been completed and the area has been decontaminated.

F. The contractor shall cover all non-removable items and equipment in the work area with plastic sheeting taped securely in place.

G. After work area isolation, the contractor shall take out all detachable electrical, heating, ventilation equipment, and other items contaminated with asbestos, clean them before covering with plastic sheeting taped securely in place, and return them to their proper place after the job has been completed and the work area has been decontaminated.

H. The contractor shall remove all heating, ventilation, and air conditioning system filters, pack them in sealable plastic bags (6-mil minimum) for burial in the approved waste disposal site and replace them with new filters.

I. The contractor shall establish emergency and fire exits from the work area. Emergency procedures shall have priority.

5. Method of Removal

A. The asbestos material shall be sprayed with water containing a wetting agent to enhance penetration. The wetting agent shall be 50% polyoxyethylene ester and 50% polyoxyethylene ether (Aqua-GRO*), or the equivalent, in a concentration of one (1) ounce in five (5) gallons of water. A fine spray of the amended water shall be applied to reduce fiber release preceding the removal of the asbestos material. The material shall be sufficiently saturated to prevent emission of airborne fibers in excess of the exposure limits prescribed in the OSHA regulations.

B. The asbestos material shall be removed in small sections by two-man teams on staging platforms. Before beginning the next section, the material shall be packed while still wet into sealable plastic bags (6-mil minimum) and placed into fiber or metal drums or skips for transport. Bags, drums, and skips shall be marked with the OSHA label prescribed by the OSHA regulations referenced in these specifications. The outside of all containers shall be clean before leaving the work area.

C. All plastic sheeting, tape, cleaning material, clothing, and all other disposable material or items used in the work area shall be packed into sealable plastic bags (6-mil minimum) and placed into metal or fiber drums or skips for transport. The drums and skips shall be marked with OSHA label prescribed by the OSHA regulations.

D. The contractor shall transport the sealed drums or skips to the approved waste disposal site. The sealed plastic bags may be dumped from the drums into the burial site unless the bags have been broken or damaged. The damaged bags shall be left in the drum and the entire contaminated drum shall be buried. Uncontaminated drums may be recycled.

6. Decontamination of Work Area

A. The contractor shall clean all surfaces in the work area with water and/or with a High Efficiency Particulate (HEPA) filter vacuum. (A HEPA vacuum will fail if used on wet material.) After cleaning the work area, the contractor shall wait 24 hours to allow for settlement of dust, and then wet-clean all surfaces in the work area again. After completion of the second cleaning operation, the contractor shall perform a complete visual inspection of the work area to ensure that the work area is dust free. The contractor shall take two air samples within 48 hours after completion of all cleaning work. (Minimum volume of air sample is 700L - 7.5 hours at minimum of 1.5 liters per minute.)

B. If the work area has not been decontaminated, the contractor shall repeat the cleaning and air monitoring until the work area is in compliance.

C. After the work area is found to be in compliance, all entrances and exits are unsealed and the plastic sheeting, tape, and any other trash and debris is disposed of in sealable plastic bags (6-mil minimum) and buried in the approved waste disposal site.

7. Air Monitoring

A. Throughout the entire removal and cleaning operations, air monitoring shall be conducted to ensure that the contractor is complying with the EPA and OSHA regulations (and any applicable State and local government regulations).

B. Air monitoring will be conducted according to the method prescribed by Section 1910.1001 (f) of the OSHA regulations.

C. Air monitoring shall be performed to provide the following samples during the period of asbestos removal.

<u>Areas to be Sampled</u>	<u>Minimum Number of Samples for Each Work Day</u>	<u>Each Sample Minimum Volume L</u>
Work Area	2	120L
Outside Work Area	1	120L
Outside Building	1	240L

D. Samples should only be taken after actual removal work has proceeded.

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