

FROM

S. J. KNIGHT

TO

MEMORANDUM

ROCKDALE WORKS

1983 January 03

PLAINTIFF'S
EXHIBIT

AL-231

RE: REMOVAL OF ASBESTOS CONTAINING MATERIALS

Due to health hazards associated with asbestos, special precautions must be taken anytime materials containing asbestos are removed. Attached to this letter is a list of asbestos containing materials in the plant. If you plan to remove any of the materials on this list, contact Brooks Parker at Extension 235 ahead of time, to find out what precautions should be taken.

Most likely, there are asbestos containing materials in the plant which are not on this list. If you plan to remove any materials which you suspect may be asbestos, such as old steam pipe insulation, you may use the attached procedure for determining asbestos containing materials.

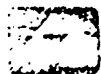
Stephen J. Knight
S. J. KNIGHT

SJK 'kk 1/8

Attachment

Copies to:

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 ALCOA

ARD 003634

5-1-83 (REV. 11-82)

ASBESTOS CONTAINING MATERIALS IN THE PLANT

1. Boiler insulation - Building 66.
2. Boiler stack insulation - Building 66.
3. Water filter insulation - Building 66.
4. Anode mixer insulation - Building 54.
5. Mixer insulation - Building 127.
6. Steam piping insulation - Buildings 33, 35, 45, 48, 49, 50, 80, 81.
- * 7. 446 reactor fume fans insulation.
8. Brake linings for crane hoists and bridge brakes.
- * 9. Brake linings on all plant vehicles.

* - Starred items may or may not contain asbestos.

Pabco technical bulletin

Pabco high temperature insulating systems

PTB-48-7A
February 15, 1979
Replaces PTB-48-7

ASBESTOS IDENTIFICATION IN OLD CALSIL INSULATION*

Because of the health hazards involved in working with asbestos, it is essential that old asbestos-containing calsil be properly identified to avoid accidental worker exposure during maintenance or removal procedures.

Prior to the early seventies, all calcium silicate insulation, and several other types as well, contained asbestos as the reinforcing fiber. Most of the asbestos used was chrysotile, but other types such as crocidolite and amosite were also used. All are hazardous to health.

Since the early seventies, all manufacturers have switched to either glass or organic fibers for reinforcement. Because of the refractory nature of asbestos fibers, they are not destroyed by the flame from a propane (Bernzomatic) torch. Rather, they glow as little incandescent rods in the propane flame. Since the newer fibers -- glass, rayon, polyester, cotton, etc. -- are destroyed by the propane flame, this provides an easy means of positive identification for asbestos.

The simple procedure is as follows.

1. Break a small piece of insulation off a section of calsil.
2. Heat the broken surface with the flame from a propane torch.
3. Observe. Figure 1 shows asbestos-containing material. The material in Figure 2 does not contain asbestos.
4. With some experience, a good worker can break off a chunk of insulation and tell by eye whether or not asbestos is present. A small magnifier makes the process even simpler to carry out.

*NOTE: Since December, 1978, the Pabco Division started to mark all of their Super Caltemp production with an identifying green stripe that shows it is asbestos free.

"The technical data shown are considered by us to be accurate and reliable; however, no warranties, express or implied, are given or intended, and any such warranties are expressly disclaimed."

ARD 003636

Figure No. 1

Appearance of asbestos-
containing insulation
in propane flame.
Asbestos fiber does not
melt and shows up as
little glowing rods in
the flame.

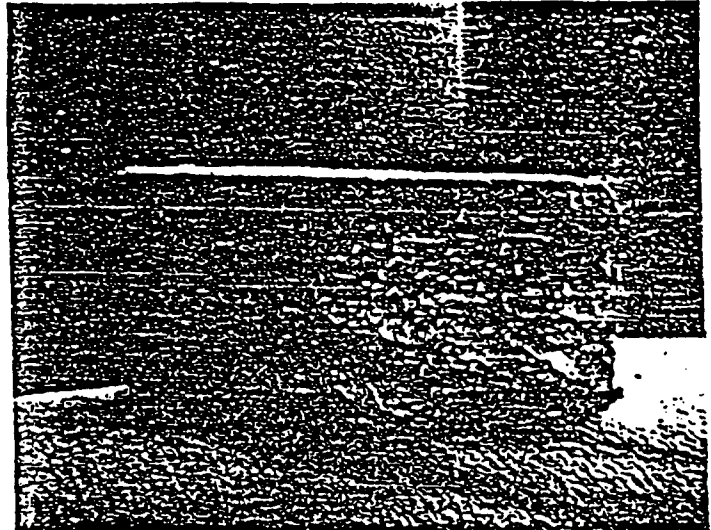


Figure No. 2

Appearance of non-
asbestos insulation in
propane flame. No rods.

