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INSTITUTE PLANT
SAFETY DEPARTMENT

UNION CARBIDE CORPORATION
CHEMICALS AND PLASTICS
ENGINEERING
SOUTH CHARLESTON, WEST VIRGINIA

MEMORANDUM

September 11, 1972

To: Insulation Liaison Contacts
Insulation Standards Team
Standards Representatives

Copies: Mr. C. S. Hines
Mr. J. H. Howell
Mr. N. H. Ketcham
Mr. C. C. Neely
Mr. J. J. Walker

From: E. C. Powell, Jr.

Subject: Status of Asbestos-Containing Insulation as Used by Group I Locations

At the request of several locations, the following is a discussion of asbestos-containing insulation materials that have been used in the past, that are presently being used, and that will be available in the future.

In the past, numerous major insulating materials were used which contained significant amounts of asbestos fibers. They are as follows:

Trade Name	Manufacturer	UCC Spec No.	Approx % Asbestos
Unibestos	Pittsburgh-Corning	21-H	75% +
Asbestospray	Asbestospray Corp.	41-H, 42-H	75% +
Thermobestos	Johns-Manville	23-H	7%
Kaylo 10 & 20	Owens-Corning	23-H	14%

In addition to the above major materials, several accessory materials contained asbestos including asbestos tape and cloth and prior to January 1, 1971, most insulating cements.

Since the introduction of the Occupational Safety and Health Standards (OSHA) in May 1971, and the subsequent Emergency Standard pertaining to asbestos-containing materials, the composition of some insulating materials has changed. Unibestos is no longer manufactured by Pittsburgh-Corning; the Asbestospray Corporation has an asbestos-free material, "Ceramospray".

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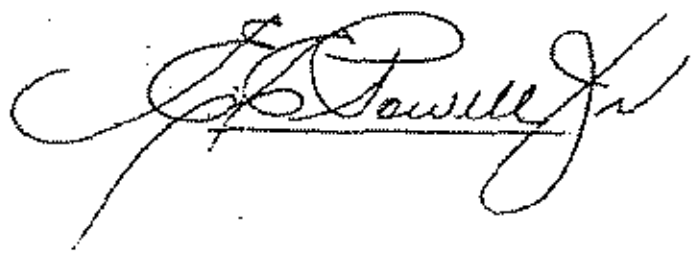
that may be substituted for "Asbestospray"; both Johns-Manville and Owens-Corning are in the process of introducing asbestos-free calcium silicates. Numerous other manufacturers have introduced new asbestos-free materials such as Dow's ceramic foam, and mineral wool products as manufactured by 48 Insulations, Pittsburgh-Corning, and Eagle-Pitcher. In addition, since January 1, 1971, all insulating cements approved by UCC are asbestos-free. At present UCC has a testing program set up to evaluate all of these materials. Some of the tests that are nearing completion have already proven Ceramo-spray and Ceramic Foam to be acceptable products.

UCC recognizes the hazards associated with asbestos-containing products and is making every effort to utilize the new materials as they become available. As of this writing, the only products now being used in significant quantities that still contain asbestos are "Thermobestos" by Johns Manville and "Kaylo 10 & 20" by Owens-Corning. Even these materials are being used only where an acceptable substitute is not presently available.

In the immediate future, Owens-Corning and Johns-Manville will introduce an asbestos-free calcium silicate, replacing their old product line. Therefore, by the first of the year or mid 1973 at the latest, I would anticipate the complete elimination of asbestos in products approved by UCC. Then the only remaining problem associated with asbestos would be demolition of old asbestos-containing insulation and the infrequent use of small amounts of asbestos tape and asbestos cloth.



ECP, Jr:hj