~~D.E. Furlani~~

D J KLEBER
RFD
BLDG #94

Niagara Falls, New York, January 26, 1973

REPORT NO. 73-T-7

935-1093

PLAINTIFF'S EXHIBIT
Union Carbide 223

UNION CARBIDE CORPORATION
MINING AND METALS DIVISION
ENGINEERING DEPARTMENT

TRIP TO:	Georgia-Pacific Company Akron, New York
DATE:	January 18, 1973
PURPOSE:	Inspect Rail Shipment of Shrink-Wrapped Asbestos Pallets
BY:	D.E. Furlani
WITNESSED BY:	D.E. Furlani B.L. Ingalls D.J. Kleber

A shipment of palletized asbestos SG-210 was shipped from King City by rail in a boxcar and arrived at the Georgia-Pacific plant in Akron, New York on January 17, 1973. Two of the pallets had been shrink-wrapped to determine the feasibility of using a shrink-wrapped polyethylene film as a method of packing our asbestos. There was some concern regarding the visibility of asbestos leakage from the bags and the physical stability of the pallet. The pallets were prepared at King City using a hand-held heater to effect the shrink wrapping.

A description of the pallets, as received, follows. The pallets are arbitrarily referred to as 1 or 2 for identification purposes. Pictures were taken of the pallets and prints forwarded to John Myers and Larry Larrison.

Pallet No. 1 - All spouts taped, no glue used to hold array,

(a) - Physical stability excellent - no shifting of bags noted.

(b) - Very clean - only asbestos dust visible was from an improperly taped spout.

(c) - No rips or tears in plastic noted.

(d) - No puffing noted from taped spouts or bag airhole perforations when bag was struck.

(e) - Overall this was the cleaner pallet.

Pallet No. 2 - Spouts Untaped, Bags Unglued

(a) - Physical stability excellent.

(b) - Very clean on side where spouts were unexposed, fair amount of leakage evident on opposite side where spouts were adjacent to plastic film.

(c) - No rips or tears in plastic noted.

(d) - Hitting spouts caused asbestos to puff from bags.

The condition of pallets Nos. 1 and 2 as listed above was as noted in the boxcar and also as noted after transfer to the warehouse. In general, both shrink-wrapped pallets were in even better shape overall than equivalently wrapped pallets which had been shipped to Niagara Falls by truck(1). This is probably because this shipment experienced less handling. Sweepout of the empty boxcar yielded 16 pounds, or about half a bag, of asbestos powder.

Dennis E. Furlani

DEFURLANI:vrs

cc: Messrs. R.E. Byrne
J.F. Emerson/A.C. Sada
*F.H. Larrison/R.O. Marsten
*J.L. Myers
W.G. Piper
H.B. Rhodes
J.A. Riddle
R.J. Klotzbach

*(Pictures attached)

(1) Memo to Mr. R.J. Klotzbach from O.J. Malacarne, January 16, 1973