General Headquarters
April 1, 1954

T. R. Turnbull - Waukegan

File

Industrial Hygiene Survey - Waukegan Plant
Cement and Magnesia Departments March 10th to 15th

Attached are copies of the analysis report of Travelers Chemical Engineering Laboratory of the hygiene samples forwarded March 16th.

While in general the dust counts indicate good control, there are several sampling stations, particularly at the feeding operations, in which the fiber concentration is above our threshold limit for asbestos fibers. You will note that sample stations # 15, charging supreme mixing tank, # 16, charging magnesia mixing tank, # 13A, feeding material into picker feeder, # 13, west side of picker feeder, # 24, loading supreme plastic, # 43, loading magnesia plastic, all have fiber concentrations exceeding our standard of 3 million (3,000 thousand) fibers per cubic foot.

Since each of these are intermittent operations, I would recommend that approved type respirators be required as job apparel during the charging, feeding, or loading process of the work cycle until such time as ventilation or process control can be effected to reduce the degree of contamination.

Our clinical experience elsewhere leads us to believe that the amosite fiber is capable of producing fibrosis more rapidly than the chrysotile. This further emphasizes the need of operator protection during the above portions of their work.

H. M. Jackson

HMJ:bl
Enclosure
cc: F. D. Cannon
B. Philipp - Waukegan
R. R. Lubiola - Waukegan
W. Sohn - Gen. Engineering Manville

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