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THE UNIVERSITY OF MICHIGAN
INSTITUTE OF INDUSTRIAL HEALTH
MEDICAL CENTER
ANN ARBOR, MICHIGAN 48104

HAROLD J. MAGNUSON, M.D.
Director

February 27, 1967

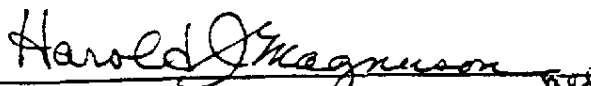
M. N. Johnson, M.D., Medical Director
Monsanto Company
800 N. Lindburgh Blvd.
St. Louis, Missouri 63166

Dear Dr. Johnson

The attached x-ray instructions are supplementary to those we sent out on February 14, 1967. While we would prefer the technique previously described, the attached modifications will be necessary for those plants using portable x-ray equipment.

All films are to be developed before sending to the Institute of Industrial Health.

Sincerely yours

A handwritten signature in cursive script, reading "Harold J. Magnuson", followed by a horizontal line and a small mark.

Harold J. Magnuson, M.D.

HJM:mcg
ATT (1)

RSV 0009256

SUPPLEMENTARY INSTRUCTIONS FOR X-RAYS

For maximum bony detail and for optimum standardization of films for the survey, it would be helpful if as many institutions as possible would use non-screen film and Kodak Standard Ready-Pak as originally recommended. It has been called to our attention that x-ray facilities available in some plants are not sufficiently powerful to utilize this technique.

Cassette techniques may be used. Standard 10 x 12 Cassettes with high-speed screens and Blue-brand film usually require 45-55 kvp and 1.25 milliamperere seconds. Par speed screens will require 2.5 milliamperere seconds. The time will thus vary depending on the available milliamperage. Because of the marked variation in accuracy of settings in smaller and older equipment, technical variations may be necessary. Before a large number of patients are processed in the survey, it is suggested that a sample film be submitted to the local radiologic consultant to ensure that adequate bony detail is being demonstrated.

Positioning of the hand should be done so that the axes of the fingers lie in the ten inch dimension of the 10 x 12 inch film holder, with palms and fingers flat, and with at least a one-inch margin between the edge of the film and the fingertips. Both hands are included in this single exposure, with the thumbs nearly approximated in the central area of the film.