

CT. 10-4

NATIONAL LEAD COMPANY
OF OHIO
CINCINNATI 39, OHIO

NLO
CENTRAL FILES

CT. 10
B4-1-300
42

June 14, 1963

SUBJECT: TRIP REPORT TO NEW ENGLAND LEAD COMPANY (NELCO), CANAAN, CONNECTICUT
ON JUNE 11 AND 12, 1963
TO: J. A. Quigley, M.D.
FROM: K. N. Ross

Jack

OBJECTIVE OF TRIP

The objective of this trip was to furnish employees of NELCO with information regarding the safe and hygienic handling of uranium contaminated prill.

CONCLUSIONS AND RECOMMENDATIONS

The personnel concerned at NELCO can be expected to safely handle the small amount of uranium contaminated prill in their care in laboratory and pilot experiments. One of their personnel was shown the use of a Geiger counter. Personal hygiene and control of dust was discussed with those concerned.

BACKGROUND FOR TRIP

Approximately 750 drums of prill contaminated with uranium are stored at NLO. It is believed by the CAO-AEC that NELCO can separate the magnesium from the uranium and return the uranium to the process stream.

PERSONS VISITED

William Ash - President NELCO
Herman Steocker - AEC
John Pozzi - Supervisor NELCO
Jack Terres - Supervisor NELCO
Ray Gunn - Chemist NELCO

DESCRIPTION OF TRIP

On arrival, and after introductions to NELCO personnel who would be concerned in this project, the 6 drums of prill were opened and examined. No radiation level greater than 5 μ rad/hour (β & γ) was found. A sample of the smallest size prill was obtained for experiment in the laboratory. During the course of the first trial sublimation, the materials handling was observed and corrected where necessary. While the prill was subliming, the necessity for avoiding spills and dust producing operations was explained and discussed. Later Ray Gunn, a NELCO chemist, was instructed in the use and care of the low range GS-3 survey instrument which was left at NELCO. During later sublimations, a tour of the plant and explanation of the processes to be used in separating the magnesium from the uranium was made. The hygiene and safety hazards of using contaminated material were pointed out and methods of controlling them discussed.

TRIP REPORT TO NEW ENGLAND LIME COMPANY (NELCO), CANAAN, CONNECTICUT
ON JUNE 11 AND 12, 1963

J. A. Quigley, M.D.

June 14, 1963

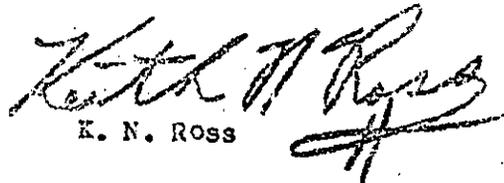
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MISCELLANEOUS COMMENTS

NELCO personnel were very co-operative. They should have no hygiene or safety problems in the handling of this material because of the small quantity and slight amount of contamination involved. If a full scale run is made, an air dust evaluation of the operation seems advisable.

COMMENTS

Three samples of material were returned to NLO. These have been turned over to M. A. DeSesa of the Technical Division for analysis and the results are to be given to NELCO through W. T. Warner of CAO-ABC.


K. N. Ross

RNR/bjg

cc: M. A. DeSesa
J. H. Noyes - 2x
R. H. Starkey