

LINDSAY CHEMICAL COMPANY

FOUNDED 1902

WEST CHICAGO, ILLINOIS

CHARLES R. LINDSAY, III, President
MARK W. EICHELBERGER, Vice President, Texas
CLIFFORD W. STABENAU, Secretary

March 1, 1957

CABLE ADDRESS "LINDSAY"

HOWARD L. KREMERS, Technical Assistant
To The President

Mr. Harold Price, Director
Division of Civilian Application
U. S. Atomic Energy Commission
Washington 25, D. C.

Subject: Standards for Protection Against Radiation (10 CFR Part 20)

Dear Mr. Price:

Please consider this letter as our request for an extension of time for compliance with the requirements of 10 CFR Part 20.

For the past two years we have been looking into various aspects of radiation protection as applied to our processing conditions. In the past year, we have conducted an extensive survey program to determine which areas and processing phases required corrections in order to meet requirements of the regulations. Much of this work, in its first stages, was done to insure reproducible and reliable data. Consequently, it has been only within the past few months that corrective measures have been found to be necessary in some of our plant areas.

Our sole use of radioactive materials is concerned with the processing of monazite ore for both thorium and rare earth products. Radiation hazards exist only where thorium materials are processed.

As a result of our monitoring work to date, we have found that we comply essentially in all respects insofar as gamma and beta dosages are concerned. Further progress will result in complete compliance.

As far as air-borne activities are concerned, we have four areas in our plant where corrective measures need to be taken. These operations involve the handling of dusty materials and sprays (thorium compounds and monazite ore), and corrective measures consist largely of installing hoods, adequate ventilation systems, and ventilation systems coupled with dust collectors.

Engineering design work on these has been completed and equipment for some of the work has already been partially installed. Equipment for nearly all the remainder has been ordered.

Completion date for installing the proposed equipment, testing it to check performance, and making modifications as may be required, is estimated to be August 1, 1957.

Mr. Harold Price

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Gamma and beta activities in restricted areas are satisfactory. Some of our plant residue storage areas would be classified as unrestricted areas, and these require fencing due to gamma activity levels. This fencing will be done as soon as possible after receiving a reply to our letter (H. E. Kremers, February 20, 1947) addressed to you regarding specifications for such fences.

We have had continuous weekly film badge service for nearly all of our employees since August, 1956. The only employees not now covered by film badge monitoring are those working in office and laboratory areas where activity levels do not require personnel monitoring. No employee has received more than maximum permissible gamma doses. We are using film badges, and our employees are aware of the reasons for using them.

We are therefore asking for a six-month's extension of time in order for us to be in a position to comply fully with the requirements of the code. We trust that you will act favorably on this request.

Very truly yours,

LINDSAY CHEMICAL COMPANY

Robert S. Landauer P.D.

Robert S. Landauer/lm

Consultant to the Company on
Radiation Protection

g. p. c. l. s. c.