

PA. 35-3

NATIONAL LEAD COMPANY
OF OHIO

P. O. BOX 186
MT. HEALTHY STATION
CINCINNATI 21, OHIO

September 8, 1958

JFS 9/9/58

Mr. D. W. Fletcher
Assistant Manager Sales, Ordnance
National Tube Division
United States Steel Corporation
525 William Penn Place
Pittsburgh 30, Pennsylvania

SUBJECT: PIERCING URANIUM BARS

Dear Mr. Fletcher:

This will confirm the interest of the National Lead Company of Ohio in the experimental piercing of normal uranium bars on the three-roll piercing mill operated by your company. Discussions on this subject have been held between Mr. Ralph M. Overton of National Tube Division and John Magoun of National Lead Company of Ohio.

In accordance with the conversations, we desire to pierce 15 bars to finished size approximately 2-1/16" OD by 2-31/64" ID by 10' long. The total estimated weight of this metal is approximately 3400 pounds.

The National Lead Company of Ohio would furnish the starting pieces for the test piercing to the sizes specified by the National Tube Division. The working temperature on this material would be in the range of 1100 to 1200° F. It would be desirable to heat the metal in molten salt or an inert atmosphere. However, if necessary, the metal can be heated in regular atmosphere. We are enclosing a report "Uranium Metal - Physical and Mechanical Properties" which may be of interest to you.

In order to receive and work with uranium in any form on an industrial basis, it is necessary to apply for and receive a license from the Atomic Energy Commission. This license is issued at no cost to the licensee. On the application forms, which are enclosed, or in

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a covering letter, you should state the type of operation you intend to carry out with uranium. It would be desirable in your letter to Mr. Lyall Johnson, Chief, Licensing Branch, Division of Civilian Applications, AEC, Washington, to mention our request concerning this experimental work and to ask for telegraphic notification of the issuance of your license.

In carrying out this work the National Lead Company of Ohio would retain title to the uranium involved, thus relieving you of the need to purchase the uranium or to be financially liable for normal losses associated with such work. Your AEC license does require that your company assume the responsibility of complying with the provisions of the AEC as defined in the Federal Register which is also enclosed. As you will be working with normal uranium metal the amounts of radioactivity present will be well under the prescribed limits. We are confident that Mr. Johnson of the AEC would be pleased to answer any questions by telephone or letter.

We hope that you give a favorable reply to our request, and that you will let us know concerning receipt of your AEC license, and the estimated cost of this experimental work. We would welcome the opportunity of having our representative discuss this matter with your personnel if that would be helpful.

Sincerely,

C. E. CROMPTON
C. E. Crompton
Associate Technical Director

JWW/CEC/rhg

cc: J. W. Magoun
C. E. Polson
J. F. Schiltz/